# APPENDIX A: AIR QUALITY MODELING WORKSHEETS

# El Monte Palo Verde Project

**South Coast AQMD Air District, Winter**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Apartments Mid Rise | 49.00 | Dwelling Unit | 1.03 | 44,724.00 | 224 |
| Enclosed Parking with Elevator | 77.00 | Space | 0.00 | 30,800.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 31 |
| **Climate Zone** | 9 | | | **Operational Year** | 2017 |
| **Utility Company** | Southern California Edison | | | | |
| **CO2 Intensity (lb/MWhr)** | 630.89 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage and square feet per site plan. Population adjusted upward to reflect assumptions in IS/MND (per local demographics).

Construction Phase - 1.5 year construction schedule anticipated with occupancy by 3/2017.

Grading - export based on 34862 sf bldg. footprint of parking structure to depth of 10 feet (1 level).

Demolition - existing bldgs to be demolished

Woodstoves - no fireplaces or woodstoves are proposed.

Sequestration - Assumes min. of 84 replacement trees required per El Monte Municipal Code.

Construction Off-road Equipment Mitigation - Assumes compliance with Rule 403 (dust suppression)

Mobile Land Use Mitigation - Affordable housing proposed w/Density Bonus Entitlements

Area Mitigation - Low VOC coatings required as mitigation.

Energy Mitigation - Energy Efficiancy to exceed Title 24 per Applicant's LEED goals.

Water Mitigation - Water conservation measures in effect per Applicant's sustainabilty goals.

Waste Mitigation -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblConstructionPhase | NumDays | 10.00 | 48.00 |
| tblConstructionPhase | NumDays | 200.00 | 250.00 |
| tblConstructionPhase | NumDays | 4.00 | 44.00 |
| tblConstructionPhase | NumDays | 10.00 | 15.00 |
| tblConstructionPhase | NumDays | 2.00 | 15.00 |
| tblConstructionPhase | PhaseEndDate | 2/22/2017 | 3/15/2017 |
| tblConstructionPhase | PhaseEndDate | 12/21/2016 | 12/16/2016 |
| tblConstructionPhase | PhaseEndDate | 1/12/2016 | 1/6/2016 |
| tblConstructionPhase | PhaseEndDate | 10/19/2015 | 10/21/2015 |
| tblConstructionPhase | PhaseStartDate | 12/17/2016 | 1/8/2017 |
| tblConstructionPhase | PhaseStartDate | 1/7/2016 | 1/2/2016 |
| tblConstructionPhase | PhaseStartDate | 12/23/2015 | 12/17/2015 |
| tblConstructionPhase | PhaseStartDate | 9/29/2015 | 10/1/2015 |

| | | | |
|---|---|---|---|
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblFireplaces | NumberGas | 41.65 | 0.00 |
| tblFireplaces | NumberNoFireplace | 4.90 | 0.00 |
| tblFireplaces | NumberWood | 2.45 | 0.00 |
| tblGrading | AcresOfGrading | 16.50 | 1.50 |
| tblGrading | AcresOfGrading | 7.50 | 1.00 |
| tblGrading | MaterialExported | 0.00 | 12,912.00 |
| tblGrading | MaterialExported | 0.00 | 500.00 |
| tblLandUse | LandUseSquareFeet | 49,000.00 | 44,724.00 |
| tblLandUse | LotAcreage | 1.29 | 1.03 |
| tblLandUse | LotAcreage | 0.69 | 0.00 |
| tblLandUse | Population | 140.00 | 224.00 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2017 |
| tblSequestration | NumberOfNewTrees | 0.00 | 84.00 |
| tblWoodstoves | NumberCatalytic | 2.45 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 2.45 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2015 | 4.3228 | 48.4964 | 33.3770 | 0.0572 | 5.5064 | 2.2903 | 7.7500 | 2.9484 | 2.1079 | 4.8368 | 0.0000 | 5,855.3076 | 5,855.3076 | 0.8829 | 0.0000 | 5,873.8489 |
| 2016 | 4.9302 | 34.9886 | 28.6443 | 0.0455 | 0.7443 | 2.1932 | 2.9375 | 0.1986 | 2.0798 | 2.2784 | 0.0000 | 4,312.1665 | 4,312.1665 | 0.8940 | 0.0000 | 4,330.9408 |
| 2017 | 22.5289 | 2.2368 | 2.4079 | 4.3000e-003 | 0.1118 | 0.1742 | 0.2860 | 0.0296 | 0.1742 | 0.2038 | 0.0000 | 388.7341 | 388.7341 | 0.0354 | 0.0000 | 389.4764 |
| **Total** | **31.7819** | **85.7218** | **64.4293** | **0.1071** | **6.3625** | **4.6577** | **10.9735** | **3.1767** | **4.3619** | **7.3190** | **0.0000** | **10,556.2083** | **10,556.2083** | **1.8123** | **0.0000** | **10,594.2660** |

### 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 | | | | | |
| 2015 | 4.3228 | 48.4964 | 33.3770 | 0.0572 | 2.9374 | 2.2903 | 5.2277 | 1.3585 | 2.1079 | 3.4664 | 0.0000 | 5,855.3076 | 5,855.3076 | 0.8829 | 0.0000 | 5,873.8489 |
| 2016 | 4.9302 | 34.9886 | 28.6443 | 0.0455 | 0.7443 | 2.1932 | 2.9375 | 0.1986 | 2.0798 | 2.2784 | 0.0000 | 4,312.1665 | 4,312.1665 | 0.8940 | 0.0000 | 4,330.9408 |
| 2017 | 22.5289 | 2.2368 | 2.4079 | 4.3000e-003 | 0.1118 | 0.1742 | 0.2860 | 0.0296 | 0.1742 | 0.2038 | 0.0000 | 388.7341 | 388.7341 | 0.0354 | 0.0000 | 389.4764 |
| **Total** | **31.7819** | **85.7218** | **64.4293** | **0.1071** | **3.7935** | **4.6577** | **8.4513** | **1.5867** | **4.3619** | **5.9486** | **0.0000** | **10,556.2083** | **10,556.2083** | **1.8123** | **0.0000** | **10,594.2660** |

| | ROG | NOx | 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** | **40.38** | **0.00** | **22.98** | **50.05** | **0.00** | **18.72** | **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 | 1.9147 | 0.0477 | 4.0913 | 2.1000e-004 | | 0.0222 | 0.0222 | | 0.0222 | 0.0222 | 0.0000 | 7.2959 | 7.2959 | 7.3500e-003 | 0.0000 | 7.4503 |
| Energy | 0.0144 | 0.1227 | 0.0522 | 7.8000e-004 | | 9.9200e-003 | 9.9200e-003 | | 9.9200e-003 | 9.9200e-003 | | 156.6817 | 156.6817 | 3.0000e-003 | 2.8700e-003 | 157.6352 |
| Mobile | 1.2826 | 3.8278 | 14.4400 | 0.0361 | 2.5426 | 0.0538 | 2.5965 | 0.6794 | 0.0496 | 0.7289 | | 3,081.8814 | 3,081.8814 | 0.1220 | | 3,084.4427 |
| **Total** | **3.2116** | **3.9982** | **18.5835** | **0.0371** | **2.5426** | **0.0860** | **2.6286** | **0.6794** | **0.0817** | **0.7611** | **0.0000** | **3,245.8590** | **3,245.8590** | **0.1323** | **2.8700e-003** | **3,249.5282** |

### 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 | 1.9147 | 0.0477 | 4.0913 | 2.1000e-004 | | 0.0222 | 0.0222 | | 0.0222 | 0.0222 | 0.0000 | 7.2959 | 7.2959 | 7.3500e-003 | 0.0000 | 7.4503 |
| Energy | 0.0120 | 0.1024 | 0.0436 | 6.5000e-004 | | 8.2800e-003 | 8.2800e-003 | | 8.2800e-003 | 8.2800e-003 | | 130.7750 | 130.7750 | 2.5100e-003 | 2.4000e-003 | 131.5709 |
| Mobile | 1.2190 | 3.3304 | 12.8725 | 0.0309 | 2.1612 | 0.0462 | 2.2074 | 0.5775 | 0.0425 | 0.6200 | | 2,630.9834 | 2,630.9834 | 0.1051 | | 2,633.1914 |
| **Total** | **3.1457** | **3.4805** | **17.0073** | **0.0317** | **2.1612** | **0.0767** | **2.2379** | **0.5775** | **0.0730** | **0.6505** | **0.0000** | **2,769.0543** | **2,769.0543** | **0.1150** | **2.4000e-003** | **2,772.2126** |

| | ROG | NOx | 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** | **2.05** | **12.95** | **8.48** | **14.57** | **15.00** | **10.80** | **14.86** | **15.00** | **10.60** | **14.53** | **0.00** | **14.69** | **14.69** | **13.09** | **16.38** | **14.69** |

## 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 | 9/1/2015 | 9/28/2015 | 5 | 20 | |
| 2 | Site Preparation | Site Preparation | 10/1/2015 | 10/21/2015 | 5 | 15 | |
| 3 | Grading | Grading | 10/22/2015 | 12/22/2015 | 5 | 44 | |
| 4 | Paving | Paving | 12/17/2015 | 1/6/2016 | 5 | 15 | |
| 5 | Building Construction | Building Construction | 1/2/2016 | 12/16/2016 | 5 | 250 | |
| 6 | Architectural Coating | Architectural Coating | 1/8/2017 | 3/15/2017 | 5 | 48 | |

**Acres of Grading (Site Preparation Phase): 1**

**Acres of Grading (Grading Phase): 1.5**

**Acres of Paving: 0**

**Residential Indoor: 90,566; Residential Outdoor: 30,189; Non-Residential Indoor: 46,200; Non-Residential Outdoor: 15,400 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Paving | Cement and Mortar Mixers | 1 | 6.00 | 9 | 0.56 |
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Cranes | 1 | 6.00 | 226 | 0.29 |
| Building Construction | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Site Preparation | Graders | 1 | 8.00 | 174 | 0.41 |
| Paving | Pavers | 1 | 6.00 | 125 | 0.42 |
| Paving | Rollers | 1 | 7.00 | 80 | 0.38 |
| Demolition | Rubber Tired Dozers | 1 | 8.00 | 255 | 0.40 |
| Grading | Rubber Tired Dozers | 1 | 6.00 | 255 | 0.40 |
| Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Demolition | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Grading | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Grading | Graders | 1 | 6.00 | 174 | 0.41 |
| Paving | Paving Equipment | 1 | 8.00 | 130 | 0.36 |
| Site Preparation | Rubber Tired Dozers | 1 | 7.00 | 255 | 0.40 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |

**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 | 5 | 13.00 | 0.00 | 15.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 3 | 8.00 | 0.00 | 63.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 3 | 8.00 | 0.00 | 1,614.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 7 | 48.00 | 10.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 5 | 13.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 10.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

## 3.2 Demolition - 2015

**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 | | | | | 0.1649 | 0.0000 | 0.1649 | 0.0250 | 0.0000 | 0.0250 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.0666 | 29.6778 | 22.0566 | 0.0245 | | 1.8651 | 1.8651 | | 1.7469 | 1.7469 | | 2,509.0599 | 2,509.0599 | 0.6357 | | 2,522.4104 |
| **Total** | **3.0666** | **29.6778** | **22.0566** | **0.0245** | **0.1649** | **1.8651** | **2.0300** | **0.0250** | **1.7469** | **1.7719** | | **2,509.0599** | **2,509.0599** | **0.6357** | | **2,522.4104** |

## 3.2 Demolition - 2015

### 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 | 0.0154 | 0.2417 | 0.1784 | 5.5000e-004 | 0.0131 | 4.0800e-003 | 0.0172 | 3.5800e-003 | 3.7500e-003 | 7.3300e-003 | | 56.2339 | 56.2339 | 4.5000e-004 | | 56.2433 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0616 | 0.0826 | 0.8627 | 1.7300e-003 | 0.1453 | 1.2800e-003 | 0.1466 | 0.0385 | 1.1700e-003 | 0.0397 | | 150.2359 | 150.2359 | 8.6200e-003 | | 150.4170 |
| **Total** | **0.0769** | **0.3244** | **1.0411** | **2.2800e-003** | **0.1584** | **5.3600e-003** | **0.1637** | **0.0421** | **4.9200e-003** | **0.0470** | | **206.4698** | **206.4698** | **9.0700e-003** | | **206.6603** |

### 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 | | | | | 0.0742 | 0.0000 | 0.0742 | 0.0112 | 0.0000 | 0.0112 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.0666 | 29.6778 | 22.0566 | 0.0245 | | 1.8651 | 1.8651 | | 1.7469 | 1.7469 | 0.0000 | 2,509.0599 | 2,509.0599 | 0.6357 | | 2,522.4104 |
| **Total** | **3.0666** | **29.6778** | **22.0566** | **0.0245** | **0.0742** | **1.8651** | **1.9393** | **0.0112** | **1.7469** | **1.7582** | **0.0000** | **2,509.0599** | **2,509.0599** | **0.6357** | | **2,522.4104** |

## 3.2 Demolition - 2015

**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 | 0.0154 | 0.2417 | 0.1784 | 5.5000e-004 | 0.0131 | 4.0800e-003 | 0.0172 | 3.5800e-003 | 3.7500e-003 | 7.3300e-003 | | 56.2339 | 56.2339 | 4.5000e-004 | | 56.2433 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0616 | 0.0826 | 0.8627 | 1.7300e-003 | 0.1453 | 1.2800e-003 | 0.1466 | 0.0385 | 1.1700e-003 | 0.0397 | | 150.2359 | 150.2359 | 8.6200e-003 | | 150.4170 |
| **Total** | **0.0769** | **0.3244** | **1.0411** | **2.2800e-003** | **0.1584** | **5.3600e-003** | **0.1637** | **0.0421** | **4.9200e-003** | **0.0470** | | **206.4698** | **206.4698** | **9.0700e-003** | | **206.6603** |

## 3.3 Site Preparation - 2015

**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 | | | | | 5.3438 | 0.0000 | 5.3438 | 2.9047 | 0.0000 | 2.9047 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.5362 | 26.8886 | 17.0107 | 0.0171 | | 1.4671 | 1.4671 | | 1.3497 | 1.3497 | | 1,801.7440 | 1,801.7440 | 0.5379 | | 1,813.0398 |
| **Total** | **2.5362** | **26.8886** | **17.0107** | **0.0171** | **5.3438** | **1.4671** | **6.8108** | **2.9047** | **1.3497** | **4.2543** | | **1,801.7440** | **1,801.7440** | **0.5379** | | **1,813.0398** |

## 3.3 Site Preparation - 2015

### 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 | 0.0862 | 1.3537 | 0.9989 | 3.0900e-003 | 0.0732 | 0.0228 | 0.0960 | 0.0200 | 0.0210 | 0.0411 | | 314.9098 | 314.9098 | 2.5000e-003 | | 314.9624 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0379 | 0.0509 | 0.5309 | 1.0600e-003 | 0.0894 | 7.9000e-004 | 0.0902 | 0.0237 | 7.2000e-004 | 0.0244 | | 92.4529 | 92.4529 | 5.3100e-003 | | 92.5643 |
| **Total** | **0.1241** | **1.4045** | **1.5297** | **4.1500e-003** | **0.1626** | **0.0236** | **0.1862** | **0.0438** | **0.0217** | **0.0655** | | **407.3627** | **407.3627** | **7.8100e-003** | | **407.5267** |

### 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 | | | | | 2.4047 | 0.0000 | 2.4047 | 1.3071 | 0.0000 | 1.3071 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.5362 | 26.8886 | 17.0107 | 0.0171 | | 1.4671 | 1.4671 | | 1.3497 | 1.3497 | 0.0000 | 1,801.7440 | 1,801.7440 | 0.5379 | | 1,813.0398 |
| **Total** | **2.5362** | **26.8886** | **17.0107** | **0.0171** | **2.4047** | **1.4671** | **3.8718** | **1.3071** | **1.3497** | **2.6568** | **0.0000** | **1,801.7440** | **1,801.7440** | **0.5379** | | **1,813.0398** |

## 3.3 Site Preparation - 2015

**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 | 0.0862 | 1.3537 | 0.9989 | 3.0900e-003 | 0.0732 | 0.0228 | 0.0960 | 0.0200 | 0.0210 | 0.0411 | | 314.9098 | 314.9098 | 2.5000e-003 | | 314.9624 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0379 | 0.0509 | 0.5309 | 1.0600e-003 | 0.0894 | 7.9000e-004 | 0.0902 | 0.0237 | 7.2000e-004 | 0.0244 | | 92.4529 | 92.4529 | 5.3100e-003 | | 92.5643 |
| **Total** | **0.1241** | **1.4045** | **1.5297** | **4.1500e-003** | **0.1626** | **0.0236** | **0.1862** | **0.0438** | **0.0217** | **0.0655** | | **407.3627** | **407.3627** | **7.8100e-003** | | **407.5267** |

## 3.4 Grading - 2015

**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 | | | | | 4.5859 | 0.0000 | 4.5859 | 2.4916 | 0.0000 | 2.4916 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.0666 | 21.9443 | 14.0902 | 0.0141 | | 1.1968 | 1.1968 | | 1.1011 | 1.1011 | | 1,479.8000 | 1,479.8000 | 0.4418 | | 1,489.0774 |
| **Total** | **2.0666** | **21.9443** | **14.0902** | **0.0141** | **4.5859** | **1.1968** | **5.7827** | **2.4916** | **1.1011** | **3.5927** | | **1,479.8000** | **1,479.8000** | **0.4418** | | **1,489.0774** |

## 3.4 Grading - 2015

### 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 | 0.7527 | 11.8227 | 8.7238 | 0.0270 | 0.6390 | 0.1995 | 0.8386 | 0.1750 | 0.1835 | 0.3585 | | 2,750.3486 | 2,750.3486 | 0.0219 | | 2,750.8076 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0379 | 0.0509 | 0.5309 | 1.0600e-003 | 0.0894 | 7.9000e-004 | 0.0902 | 0.0237 | 7.2000e-004 | 0.0244 | | 92.4529 | 92.4529 | 5.3100e-003 | | 92.5643 |
| **Total** | **0.7906** | **11.8736** | **9.2547** | **0.0281** | **0.7285** | **0.2003** | **0.9288** | **0.1987** | **0.1842** | **0.3829** | | **2,842.8014** | **2,842.8014** | **0.0272** | | **2,843.3719** |

### 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 | | | | | 2.0637 | 0.0000 | 2.0637 | 1.1212 | 0.0000 | 1.1212 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.0666 | 21.9443 | 14.0902 | 0.0141 | | 1.1968 | 1.1968 | | 1.1011 | 1.1011 | 0.0000 | 1,479.8000 | 1,479.8000 | 0.4418 | | 1,489.0774 |
| **Total** | **2.0666** | **21.9443** | **14.0902** | **0.0141** | **2.0637** | **1.1968** | **3.2605** | **1.1212** | **1.1011** | **2.2223** | **0.0000** | **1,479.8000** | **1,479.8000** | **0.4418** | | **1,489.0774** |

## 3.4 Grading - 2015

**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 | 0.7527 | 11.8227 | 8.7238 | 0.0270 | 0.6390 | 0.1995 | 0.8386 | 0.1750 | 0.1835 | 0.3585 | | 2,750.3486 | 2,750.3486 | 0.0219 | | 2,750.8076 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0379 | 0.0509 | 0.5309 | 1.0600e-003 | 0.0894 | 7.9000e-004 | 0.0902 | 0.0237 | 7.2000e-004 | 0.0244 | | 92.4529 | 92.4529 | 5.3100e-003 | | 92.5643 |
| **Total** | **0.7906** | **11.8736** | **9.2547** | **0.0281** | **0.7285** | **0.2003** | **0.9288** | **0.1987** | **0.1842** | **0.3829** | | **2,842.8014** | **2,842.8014** | **0.0272** | | **2,843.3719** |

## 3.5 Paving - 2015

**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 | 1.4041 | 14.5959 | 9.1695 | 0.0133 | | 0.8919 | 0.8919 | | 0.8215 | 0.8215 | | 1,382.4703 | 1,382.4703 | 0.4054 | | 1,390.9826 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.4041** | **14.5959** | **9.1695** | **0.0133** | | **0.8919** | **0.8919** | | **0.8215** | **0.8215** | | **1,382.4703** | **1,382.4703** | **0.4054** | | **1,390.9826** |

## 3.5 Paving - 2015

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0616 | 0.0826 | 0.8627 | 1.7300e-003 | 0.1453 | 1.2800e-003 | 0.1466 | 0.0385 | 1.1700e-003 | 0.0397 | | 150.2359 | 150.2359 | 8.6200e-003 | | 150.4170 |
| **Total** | **0.0616** | **0.0826** | **0.8627** | **1.7300e-003** | **0.1453** | **1.2800e-003** | **0.1466** | **0.0385** | **1.1700e-003** | **0.0397** | | **150.2359** | **150.2359** | **8.6200e-003** | | **150.4170** |

### 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 | 1.4041 | 14.5959 | 9.1695 | 0.0133 | | 0.8919 | 0.8919 | | 0.8215 | 0.8215 | 0.0000 | 1,382.4703 | 1,382.4703 | 0.4054 | | 1,390.9826 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.4041** | **14.5959** | **9.1695** | **0.0133** | | **0.8919** | **0.8919** | | **0.8215** | **0.8215** | **0.0000** | **1,382.4703** | **1,382.4703** | **0.4054** | | **1,390.9826** |

## 3.5 Paving - 2015

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0616 | 0.0826 | 0.8627 | 1.7300e-003 | 0.1453 | 1.2800e-003 | 0.1466 | 0.0385 | 1.1700e-003 | 0.0397 | | 150.2359 | 150.2359 | 8.6200e-003 | | 150.4170 |
| **Total** | **0.0616** | **0.0826** | **0.8627** | **1.7300e-003** | **0.1453** | **1.2800e-003** | **0.1466** | **0.0385** | **1.1700e-003** | **0.0397** | | **150.2359** | **150.2359** | **8.6200e-003** | | **150.4170** |

## 3.5 Paving - 2016

**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 | 1.2872 | 13.2076 | 9.0880 | 0.0133 | | 0.8075 | 0.8075 | | 0.7438 | 0.7438 | | 1,368.4366 | 1,368.4366 | 0.4053 | | 1,376.9473 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.2872** | **13.2076** | **9.0880** | **0.0133** | | **0.8075** | **0.8075** | | **0.7438** | **0.7438** | | **1,368.4366** | **1,368.4366** | **0.4053** | | **1,376.9473** |

## 3.5 Paving - 2016

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0555 | 0.0745 | 0.7786 | 1.7300e-003 | 0.1453 | 1.2100e-003 | 0.1465 | 0.0385 | 1.1200e-003 | 0.0397 | | 145.0430 | 145.0430 | 7.9300e-003 | | 145.2096 |
| **Total** | **0.0555** | **0.0745** | **0.7786** | **1.7300e-003** | **0.1453** | **1.2100e-003** | **0.1465** | **0.0385** | **1.1200e-003** | **0.0397** | | **145.0430** | **145.0430** | **7.9300e-003** | | **145.2096** |

### 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 | 1.2872 | 13.2076 | 9.0880 | 0.0133 | | 0.8075 | 0.8075 | | 0.7438 | 0.7438 | 0.0000 | 1,368.4366 | 1,368.4366 | 0.4053 | | 1,376.9473 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.2872** | **13.2076** | **9.0880** | **0.0133** | | **0.8075** | **0.8075** | | **0.7438** | **0.7438** | **0.0000** | **1,368.4366** | **1,368.4366** | **0.4053** | | **1,376.9473** |

## 3.5 Paving - 2016

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0555 | 0.0745 | 0.7786 | 1.7300e-003 | 0.1453 | 1.2100e-003 | 0.1465 | 0.0385 | 1.1200e-003 | 0.0397 | | 145.0430 | 145.0430 | 7.9300e-003 | | 145.2096 |
| **Total** | **0.0555** | **0.0745** | **0.7786** | **1.7300e-003** | **0.1453** | **1.2100e-003** | **0.1465** | **0.0385** | **1.1200e-003** | **0.0397** | | **145.0430** | **145.0430** | **7.9300e-003** | | **145.2096** |

## 3.6 Building Construction - 2016

**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 | 3.2915 | 20.5459 | 14.7074 | 0.0220 | | 1.3656 | 1.3656 | | 1.3176 | 1.3176 | | 2,046.9432 | 2,046.9432 | 0.4499 | | 2,056.3913 |
| **Total** | **3.2915** | **20.5459** | **14.7074** | **0.0220** | | **1.3656** | **1.3656** | | **1.3176** | **1.3176** | | **2,046.9432** | **2,046.9432** | **0.4499** | | **2,056.3913** |

## 3.6 Building Construction - 2016

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0913 | 0.8855 | 1.1956 | 2.1600e-003 | 0.0625 | 0.0144 | 0.0769 | 0.0178 | 0.0132 | 0.0310 | | 216.2004 | 216.2004 | 1.6000e-003 | | 216.2341 |
| Worker | 0.2047 | 0.2752 | 2.8748 | 6.3700e-003 | 0.5365 | 4.4800e-003 | 0.5410 | 0.1423 | 4.1200e-003 | 0.1464 | | 535.5433 | 535.5433 | 0.0293 | | 536.1585 |
| **Total** | **0.2960** | **1.1607** | **4.0704** | **8.5300e-003** | **0.5990** | **0.0189** | **0.6179** | **0.1601** | **0.0173** | **0.1774** | | **751.7437** | **751.7437** | **0.0309** | | **752.3926** |

### 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 | 3.2915 | 20.5459 | 14.7074 | 0.0220 | | 1.3656 | 1.3656 | | 1.3176 | 1.3176 | 0.0000 | 2,046.9432 | 2,046.9432 | 0.4499 | | 2,056.3913 |
| **Total** | **3.2915** | **20.5459** | **14.7074** | **0.0220** | | **1.3656** | **1.3656** | | **1.3176** | **1.3176** | **0.0000** | **2,046.9432** | **2,046.9432** | **0.4499** | | **2,056.3913** |

## 3.6 Building Construction - 2016

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0913 | 0.8855 | 1.1956 | 2.1600e-003 | 0.0625 | 0.0144 | 0.0769 | 0.0178 | 0.0132 | 0.0310 | | 216.2004 | 216.2004 | 1.6000e-003 | | 216.2341 |
| Worker | 0.2047 | 0.2752 | 2.8748 | 6.3700e-003 | 0.5365 | 4.4800e-003 | 0.5410 | 0.1423 | 4.1200e-003 | 0.1464 | | 535.5433 | 535.5433 | 0.0293 | | 536.1585 |
| **Total** | **0.2960** | **1.1607** | **4.0704** | **8.5300e-003** | **0.5990** | **0.0189** | **0.6179** | **0.1601** | **0.0173** | **0.1774** | | **751.7437** | **751.7437** | **0.0309** | | **752.3926** |

## 3.7 Architectural Coating - 2017

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 22.1584 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.3323 | 2.1850 | 1.8681 | 2.9700e-003 | | 0.1733 | 0.1733 | | 0.1733 | 0.1733 | | 281.4481 | 281.4481 | 0.0297 | | 282.0721 |
| **Total** | **22.4907** | **2.1850** | **1.8681** | **2.9700e-003** | | **0.1733** | **0.1733** | | **0.1733** | **0.1733** | | **281.4481** | **281.4481** | **0.0297** | | **282.0721** |

## 3.7 Architectural Coating - 2017

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0382 | 0.0518 | 0.5398 | 1.3300e-003 | 0.1118 | 9.0000e-004 | 0.1127 | 0.0296 | 8.3000e-004 | 0.0305 | | 107.2861 | 107.2861 | 5.6300e-003 | | 107.4043 |
| **Total** | **0.0382** | **0.0518** | **0.5398** | **1.3300e-003** | **0.1118** | **9.0000e-004** | **0.1127** | **0.0296** | **8.3000e-004** | **0.0305** | | **107.2861** | **107.2861** | **5.6300e-003** | | **107.4043** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 22.1584 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.3323 | 2.1850 | 1.8681 | 2.9700e-003 | | 0.1733 | 0.1733 | | 0.1733 | 0.1733 | 0.0000 | 281.4481 | 281.4481 | 0.0297 | | 282.0721 |
| **Total** | **22.4907** | **2.1850** | **1.8681** | **2.9700e-003** | | **0.1733** | **0.1733** | | **0.1733** | **0.1733** | **0.0000** | **281.4481** | **281.4481** | **0.0297** | | **282.0721** |

### 3.7 Architectural Coating - 2017

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0382 | 0.0518 | 0.5398 | 1.3300e-003 | 0.1118 | 9.0000e-004 | 0.1127 | 0.0296 | 8.3000e-004 | 0.0305 | | 107.2861 | 107.2861 | 5.6300e-003 | | 107.4043 |
| **Total** | **0.0382** | **0.0518** | **0.5398** | **1.3300e-003** | **0.1118** | **9.0000e-004** | **0.1127** | **0.0296** | **8.3000e-004** | **0.0305** | | **107.2861** | **107.2861** | **5.6300e-003** | | **107.4043** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Integrate Below Market Rate Housing

Limit Parking Supply

| | ROG | NOx | CO | SO2 | Fugitive 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 | 1.2190 | 3.3304 | 12.8725 | 0.0309 | 2.1612 | 0.0462 | 2.2074 | 0.5775 | 0.0425 | 0.6200 | | 2,630.9834 | 2,630.9834 | 0.1051 | | 2,633.1914 |
| Unmitigated | 1.2826 | 3.8278 | 14.4400 | 0.0361 | 2.5426 | 0.0538 | 2.5965 | 0.6794 | 0.0496 | 0.7289 | | 3,081.8814 | 3,081.8814 | 0.1220 | | 3,084.4427 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 322.91 | 350.84 | 297.43 | 1,104,629 | 938,934 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| Total | 322.91 | 350.84 | 297.43 | 1,104,629 | 938,934 |

## 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 |
| Apartments Mid Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Enclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.512163 | 0.060173 | 0.180257 | 0.139094 | 0.042244 | 0.006664 | 0.016017 | 0.031880 | 0.001940 | 0.002497 | 0.004356 | 0.000592 | 0.002122 |

## 4.4 Fleet Mix

## 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

| | ROG | NOx | CO | SO2 | Fugitive 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 | 0.0120 | 0.1024 | 0.0436 | 6.5000e-004 | | 8.2800e-003 | 8.2800e-003 | | 8.2800e-003 | 8.2800e-003 | | 130.7750 | 130.7750 | 2.5100e-003 | 2.4000e-003 | 131.5709 |
| NaturalGas Unmitigated | 0.0144 | 0.1227 | 0.0522 | 7.8000e-004 | | 9.9200e-003 | 9.9200e-003 | | 9.9200e-003 | 9.9200e-003 | | 156.6817 | 156.6817 | 3.0000e-003 | 2.8700e-003 | 157.6352 |

## 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 | | | | | |
| Enclosed Parking with Elevator | 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 |
| Apartments Mid Rise | 1331.79 | 0.0144 | 0.1227 | 0.0522 | 7.8000e-004 | | 9.9200e-003 | 9.9200e-003 | | 9.9200e-003 | 9.9200e-003 | | 156.6817 | 156.6817 | 3.0000e-003 | 2.8700e-003 | 157.6352 |
| **Total** | | **0.0144** | **0.1227** | **0.0522** | **7.8000e-004** | | **9.9200e-003** | **9.9200e-003** | | **9.9200e-003** | **9.9200e-003** | | **156.6817** | **156.6817** | **3.0000e-003** | **2.8700e-003** | **157.6352** |

## 5.2 Energy by Land Use - NaturalGas

**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 | | | | | |
| Apartments Mid Rise | 1.11159 | 0.0120 | 0.1024 | 0.0436 | 6.5000e-004 | | 8.2800e-003 | 8.2800e-003 | | 8.2800e-003 | 8.2800e-003 | | 130.7750 | 130.7750 | 2.5100e-003 | 2.4000e-003 | 131.5709 |
| Enclosed Parking with Elevator | 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 |
| **Total** | | **0.0120** | **0.1024** | **0.0436** | **6.5000e-004** | | **8.2800e-003** | **8.2800e-003** | | **8.2800e-003** | **8.2800e-003** | | **130.7750** | **130.7750** | **2.5100e-003** | **2.4000e-003** | **131.5709** |

# 6.0 Area Detail

## 6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

| | ROG | NOx | CO | SO2 | Fugitive 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 | 1.9147 | 0.0477 | 4.0913 | 2.1000e-004 | | 0.0222 | 0.0222 | | 0.0222 | 0.0222 | 0.0000 | 7.2959 | 7.2959 | 7.3500e-003 | 0.0000 | 7.4503 |
| Unmitigated | 1.9147 | 0.0477 | 4.0913 | 2.1000e-004 | | 0.0222 | 0.0222 | | 0.0222 | 0.0222 | 0.0000 | 7.2959 | 7.2959 | 7.3500e-003 | 0.0000 | 7.4503 |

## 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 | 0.2914 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.4954 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.1279 | 0.0477 | 4.0913 | 2.1000e-004 | | 0.0222 | 0.0222 | | 0.0222 | 0.0222 | | 7.2959 | 7.2959 | 7.3500e-003 | | 7.4503 |
| **Total** | **1.9147** | **0.0477** | **4.0913** | **2.1000e-004** | | **0.0222** | **0.0222** | | **0.0222** | **0.0222** | **0.0000** | **7.2959** | **7.2959** | **7.3500e-003** | **0.0000** | **7.4503** |

### 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.2914 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.4954 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.1279 | 0.0477 | 4.0913 | 2.1000e-004 | | 0.0222 | 0.0222 | | 0.0222 | 0.0222 | | 7.2959 | 7.2959 | 7.3500e-003 | | 7.4503 |
| **Total** | **1.9147** | **0.0477** | **4.0913** | **2.1000e-004** | | **0.0222** | **0.0222** | | **0.0222** | **0.0222** | **0.0000** | **7.2959** | **7.2959** | **7.3500e-003** | **0.0000** | **7.4503** |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

## 9.0 Operational Offroad

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

## 10.0 Vegetation

# El Monte Palo Verde Project

**South Coast AQMD Air District, Summer**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Apartments Mid Rise | 49.00 | Dwelling Unit | 1.03 | 44,724.00 | 224 |
| Enclosed Parking with Elevator | 77.00 | Space | 0.00 | 30,800.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 31 |
| **Climate Zone** | 9 | | | **Operational Year** | 2017 |
| **Utility Company** | Southern California Edison | | | | |
| **CO2 Intensity (lb/MWhr)** | 630.89 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage and square feet per site plan. Population adjusted upward to reflect assumptions in IS/MND (per local demographics).

Construction Phase - 1.5 year construction schedule anticipated with occupancy by 3/2017.

Grading - export based on 34862 sf bldg. footprint of parking structure to depth of 10 feet (1 level).

Demolition - existing bldgs to be demolished

Woodstoves - no fireplaces or woodstoves are proposed.

Sequestration - Assumes min. of 84 replacement trees required per El Monte Municipal Code.

Construction Off-road Equipment Mitigation - Assumes compliance with Rule 403 (dust suppression)

Mobile Land Use Mitigation - Affordable housing proposed w/Density Bonus Entitlements

Area Mitigation - Low VOC coatings required as mitigation.

Energy Mitigation - Energy Efficiancy to exceed Title 24 per Applicant's LEED goals.

Water Mitigation - Water conservation measures in effect per Applicant's sustainabilty goals.

Waste Mitigation -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblConstructionPhase | NumDays | 10.00 | 48.00 |
| tblConstructionPhase | NumDays | 200.00 | 250.00 |
| tblConstructionPhase | NumDays | 4.00 | 44.00 |
| tblConstructionPhase | NumDays | 10.00 | 15.00 |
| tblConstructionPhase | NumDays | 2.00 | 15.00 |
| tblConstructionPhase | PhaseEndDate | 2/22/2017 | 3/15/2017 |
| tblConstructionPhase | PhaseEndDate | 12/21/2016 | 12/16/2016 |
| tblConstructionPhase | PhaseEndDate | 1/12/2016 | 1/6/2016 |
| tblConstructionPhase | PhaseEndDate | 10/19/2015 | 10/21/2015 |
| tblConstructionPhase | PhaseStartDate | 12/17/2016 | 1/8/2017 |
| tblConstructionPhase | PhaseStartDate | 1/7/2016 | 1/2/2016 |
| tblConstructionPhase | PhaseStartDate | 12/23/2015 | 12/17/2015 |
| tblConstructionPhase | PhaseStartDate | 9/29/2015 | 10/1/2015 |

| | | | |
|---|---|---|---|
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblFireplaces | NumberGas | 41.65 | 0.00 |
| tblFireplaces | NumberNoFireplace | 4.90 | 0.00 |
| tblFireplaces | NumberWood | 2.45 | 0.00 |
| tblGrading | AcresOfGrading | 16.50 | 1.50 |
| tblGrading | AcresOfGrading | 7.50 | 1.00 |
| tblGrading | MaterialExported | 0.00 | 12,912.00 |
| tblGrading | MaterialExported | 0.00 | 500.00 |
| tblLandUse | LandUseSquareFeet | 49,000.00 | 44,724.00 |
| tblLandUse | LotAcreage | 1.29 | 1.03 |
| tblLandUse | LotAcreage | 0.69 | 0.00 |
| tblLandUse | Population | 140.00 | 224.00 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2017 |
| tblSequestration | NumberOfNewTrees | 0.00 | 84.00 |
| tblWoodstoves | NumberCatalytic | 2.45 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 2.45 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2015 | 4.2786 | 48.0693 | 32.4548 | 0.0575 | 5.5064 | 2.2896 | 7.7493 | 2.9484 | 2.1073 | 4.8362 | 0.0000 | 5,877.8532 | 5,877.8532 | 0.8826 | 0.0000 | 5,896.3888 |
| 2016 | 4.9168 | 34.9357 | 28.7564 | 0.0461 | 0.7443 | 2.1931 | 2.9374 | 0.1986 | 2.0797 | 2.2783 | 0.0000 | 4,358.9783 | 4,358.9783 | 0.8940 | 0.0000 | 4,377.7516 |
| 2017 | 22.5282 | 2.2322 | 2.4560 | 4.3900e-003 | 0.1118 | 0.1742 | 0.2860 | 0.0296 | 0.1742 | 0.2038 | 0.0000 | 395.8414 | 395.8414 | 0.0354 | 0.0000 | 396.5837 |
| **Total** | **31.7236** | **85.2371** | **63.6672** | **0.1080** | **6.3625** | **4.6569** | **10.9727** | **3.1767** | **4.3612** | **7.3183** | **0.0000** | **10,632.6730** | **10,632.6730** | **1.8120** | **0.0000** | **10,670.7240** |

### 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 | | | | | |
| 2015 | 4.2786 | 48.0693 | 32.4548 | 0.0575 | 2.9374 | 2.2896 | 5.2270 | 1.3585 | 2.1073 | 3.4658 | 0.0000 | 5,877.8532 | 5,877.8532 | 0.8826 | 0.0000 | 5,896.3888 |
| 2016 | 4.9168 | 34.9357 | 28.7564 | 0.0461 | 0.7443 | 2.1931 | 2.9374 | 0.1986 | 2.0797 | 2.2783 | 0.0000 | 4,358.9783 | 4,358.9783 | 0.8940 | 0.0000 | 4,377.7516 |
| 2017 | 22.5282 | 2.2322 | 2.4560 | 4.3900e-003 | 0.1118 | 0.1742 | 0.2860 | 0.0296 | 0.1742 | 0.2038 | 0.0000 | 395.8414 | 395.8414 | 0.0354 | 0.0000 | 396.5837 |
| **Total** | **31.7236** | **85.2371** | **63.6672** | **0.1080** | **3.7935** | **4.6569** | **8.4505** | **1.5867** | **4.3612** | **5.9479** | **0.0000** | **10,632.6730** | **10,632.6730** | **1.8120** | **0.0000** | **10,670.7240** |

| | ROG | NOx | 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** | **40.38** | **0.00** | **22.99** | **50.05** | **0.00** | **18.73** | **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 | 1.9147 | 0.0477 | 4.0913 | 2.1000e-004 | | 0.0222 | 0.0222 | | 0.0222 | 0.0222 | 0.0000 | 7.2959 | 7.2959 | 7.3500e-003 | 0.0000 | 7.4503 |
| Energy | 0.0144 | 0.1227 | 0.0522 | 7.8000e-004 | | 9.9200e-003 | 9.9200e-003 | | 9.9200e-003 | 9.9200e-003 | | 156.6817 | 156.6817 | 3.0000e-003 | 2.8700e-003 | 157.6352 |
| Mobile | 1.2445 | 3.6402 | 14.7323 | 0.0380 | 2.5426 | 0.0536 | 2.5963 | 0.6794 | 0.0494 | 0.7288 | | 3,237.4572 | 3,237.4572 | 0.1219 | | 3,240.0164 |
| **Total** | **3.1736** | **3.8106** | **18.8758** | **0.0390** | **2.5426** | **0.0858** | **2.6284** | **0.6794** | **0.0815** | **0.7609** | **0.0000** | **3,401.4348** | **3,401.4348** | **0.1322** | **2.8700e-003** | **3,405.1020** |

### 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 | 1.9147 | 0.0477 | 4.0913 | 2.1000e-004 | | 0.0222 | 0.0222 | | 0.0222 | 0.0222 | 0.0000 | 7.2959 | 7.2959 | 7.3500e-003 | 0.0000 | 7.4503 |
| Energy | 0.0120 | 0.1024 | 0.0436 | 6.5000e-004 | | 8.2800e-003 | 8.2800e-003 | | 8.2800e-003 | 8.2800e-003 | | 130.7750 | 130.7750 | 2.5100e-003 | 2.4000e-003 | 131.5709 |
| Mobile | 1.1789 | 3.1703 | 12.9877 | 0.0325 | 2.1612 | 0.0460 | 2.2072 | 0.5775 | 0.0423 | 0.6198 | | 2,763.6955 | 2,763.6955 | 0.1051 | | 2,765.9015 |
| **Total** | **3.1055** | **3.3204** | **17.1226** | **0.0333** | **2.1612** | **0.0765** | **2.2377** | **0.5775** | **0.0728** | **0.6503** | **0.0000** | **2,901.7664** | **2,901.7664** | **0.1149** | **2.4000e-003** | **2,904.9227** |

| | ROG | NOx | 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** | **2.14** | **12.86** | **9.29** | **14.60** | **15.00** | **10.81** | **14.86** | **15.00** | **10.64** | **14.53** | **0.00** | **14.69** | **14.69** | **13.09** | **16.38** | **14.69** |

## 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 | 9/1/2015 | 9/28/2015 | 5 | 20 | |
| 2 | Site Preparation | Site Preparation | 10/1/2015 | 10/21/2015 | 5 | 15 | |
| 3 | Grading | Grading | 10/22/2015 | 12/22/2015 | 5 | 44 | |
| 4 | Paving | Paving | 12/17/2015 | 1/6/2016 | 5 | 15 | |
| 5 | Building Construction | Building Construction | 1/2/2016 | 12/16/2016 | 5 | 250 | |
| 6 | Architectural Coating | Architectural Coating | 1/8/2017 | 3/15/2017 | 5 | 48 | |

**Acres of Grading (Site Preparation Phase): 1**

**Acres of Grading (Grading Phase): 1.5**

**Acres of Paving: 0**

**Residential Indoor: 90,566; Residential Outdoor: 30,189; Non-Residential Indoor: 46,200; Non-Residential Outdoor: 15,400 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Paving | Cement and Mortar Mixers | 1 | 6.00 | 9 | 0.56 |
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Cranes | 1 | 6.00 | 226 | 0.29 |
| Building Construction | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Site Preparation | Graders | 1 | 8.00 | 174 | 0.41 |
| Paving | Pavers | 1 | 6.00 | 125 | 0.42 |
| Paving | Rollers | 1 | 7.00 | 80 | 0.38 |
| Demolition | Rubber Tired Dozers | 1 | 8.00 | 255 | 0.40 |
| Grading | Rubber Tired Dozers | 1 | 6.00 | 255 | 0.40 |
| Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Demolition | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Grading | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Grading | Graders | 1 | 6.00 | 174 | 0.41 |
| Paving | Paving Equipment | 1 | 8.00 | 130 | 0.36 |
| Site Preparation | Rubber Tired Dozers | 1 | 7.00 | 255 | 0.40 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |

**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 | 5 | 13.00 | 0.00 | 15.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 3 | 8.00 | 0.00 | 63.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 3 | 8.00 | 0.00 | 1,614.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 7 | 48.00 | 10.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 5 | 13.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 10.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

## 3.2 Demolition - 2015

**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 | | | | | 0.1649 | 0.0000 | 0.1649 | 0.0250 | 0.0000 | 0.0250 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.0666 | 29.6778 | 22.0566 | 0.0245 | | 1.8651 | 1.8651 | | 1.7469 | 1.7469 | | 2,509.0599 | 2,509.0599 | 0.6357 | | 2,522.4104 |
| **Total** | **3.0666** | **29.6778** | **22.0566** | **0.0245** | **0.1649** | **1.8651** | **2.0300** | **0.0250** | **1.7469** | **1.7719** | | **2,509.0599** | **2,509.0599** | **0.6357** | | **2,522.4104** |

## 3.2 Demolition - 2015

### 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 | 0.0145 | 0.2332 | 0.1572 | 5.5000e-004 | 0.0131 | 4.0700e-003 | 0.0171 | 3.5800e-003 | 3.7400e-003 | 7.3200e-003 | | 56.3675 | 56.3675 | 4.4000e-004 | | 56.3768 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0602 | 0.0753 | 0.9333 | 1.8400e-003 | 0.1453 | 1.2800e-003 | 0.1466 | 0.0385 | 1.1700e-003 | 0.0397 | | 160.1468 | 160.1468 | 8.6200e-003 | | 160.3279 |
| **Total** | **0.0747** | **0.3085** | **1.0905** | **2.3900e-003** | **0.1584** | **5.3500e-003** | **0.1637** | **0.0421** | **4.9100e-003** | **0.0470** | | **216.5144** | **216.5144** | **9.0600e-003** | | **216.7047** |

### 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 | | | | | 0.0742 | 0.0000 | 0.0742 | 0.0112 | 0.0000 | 0.0112 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.0666 | 29.6778 | 22.0566 | 0.0245 | | 1.8651 | 1.8651 | | 1.7469 | 1.7469 | 0.0000 | 2,509.0599 | 2,509.0599 | 0.6357 | | 2,522.4104 |
| **Total** | **3.0666** | **29.6778** | **22.0566** | **0.0245** | **0.0742** | **1.8651** | **1.9393** | **0.0112** | **1.7469** | **1.7582** | **0.0000** | **2,509.0599** | **2,509.0599** | **0.6357** | | **2,522.4104** |

## 3.2 Demolition - 2015

**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 | 0.0145 | 0.2332 | 0.1572 | 5.5000e-004 | 0.0131 | 4.0700e-003 | 0.0171 | 3.5800e-003 | 3.7400e-003 | 7.3200e-003 | | 56.3675 | 56.3675 | 4.4000e-004 | | 56.3768 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0602 | 0.0753 | 0.9333 | 1.8400e-003 | 0.1453 | 1.2800e-003 | 0.1466 | 0.0385 | 1.1700e-003 | 0.0397 | | 160.1468 | 160.1468 | 8.6200e-003 | | 160.3279 |
| **Total** | **0.0747** | **0.3085** | **1.0905** | **2.3900e-003** | **0.1584** | **5.3500e-003** | **0.1637** | **0.0421** | **4.9100e-003** | **0.0470** | | **216.5144** | **216.5144** | **9.0600e-003** | | **216.7047** |

## 3.3 Site Preparation - 2015

**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 | | | | | 5.3438 | 0.0000 | 5.3438 | 2.9047 | 0.0000 | 2.9047 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.5362 | 26.8886 | 17.0107 | 0.0171 | | 1.4671 | 1.4671 | | 1.3497 | 1.3497 | | 1,801.7440 | 1,801.7440 | 0.5379 | | 1,813.0398 |
| **Total** | **2.5362** | **26.8886** | **17.0107** | **0.0171** | **5.3438** | **1.4671** | **6.8108** | **2.9047** | **1.3497** | **4.2543** | | **1,801.7440** | **1,801.7440** | **0.5379** | | **1,813.0398** |

## 3.3 Site Preparation - 2015

### 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 | 0.0814 | 1.3061 | 0.8802 | 3.1000e-003 | 0.0732 | 0.0228 | 0.0959 | 0.0200 | 0.0209 | 0.0410 | | 315.6581 | 315.6581 | 2.4700e-003 | | 315.7100 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0370 | 0.0463 | 0.5744 | 1.1300e-003 | 0.0894 | 7.9000e-004 | 0.0902 | 0.0237 | 7.2000e-004 | 0.0244 | | 98.5519 | 98.5519 | 5.3100e-003 | | 98.6633 |
| **Total** | **0.1184** | **1.3525** | **1.4545** | **4.2300e-003** | **0.1626** | **0.0236** | **0.1862** | **0.0438** | **0.0217** | **0.0654** | | **414.2100** | **414.2100** | **7.7800e-003** | | **414.3734** |

### 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 | | | | | 2.4047 | 0.0000 | 2.4047 | 1.3071 | 0.0000 | 1.3071 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.5362 | 26.8886 | 17.0107 | 0.0171 | | 1.4671 | 1.4671 | | 1.3497 | 1.3497 | 0.0000 | 1,801.7440 | 1,801.7440 | 0.5379 | | 1,813.0398 |
| **Total** | **2.5362** | **26.8886** | **17.0107** | **0.0171** | **2.4047** | **1.4671** | **3.8718** | **1.3071** | **1.3497** | **2.6568** | **0.0000** | **1,801.7440** | **1,801.7440** | **0.5379** | | **1,813.0398** |

## 3.3 Site Preparation - 2015

**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 | 0.0814 | 1.3061 | 0.8802 | 3.1000e-003 | 0.0732 | 0.0228 | 0.0959 | 0.0200 | 0.0209 | 0.0410 | | 315.6581 | 315.6581 | 2.4700e-003 | | 315.7100 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0370 | 0.0463 | 0.5744 | 1.1300e-003 | 0.0894 | 7.9000e-004 | 0.0902 | 0.0237 | 7.2000e-004 | 0.0244 | | 98.5519 | 98.5519 | 5.3100e-003 | | 98.6633 |
| **Total** | **0.1184** | **1.3525** | **1.4545** | **4.2300e-003** | **0.1626** | **0.0236** | **0.1862** | **0.0438** | **0.0217** | **0.0654** | | **414.2100** | **414.2100** | **7.7800e-003** | | **414.3734** |

## 3.4 Grading - 2015

**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 | | | | | 4.5859 | 0.0000 | 4.5859 | 2.4916 | 0.0000 | 2.4916 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.0666 | 21.9443 | 14.0902 | 0.0141 | | 1.1968 | 1.1968 | | 1.1011 | 1.1011 | | 1,479.8000 | 1,479.8000 | 0.4418 | | 1,489.0774 |
| **Total** | **2.0666** | **21.9443** | **14.0902** | **0.0141** | **4.5859** | **1.1968** | **5.7827** | **2.4916** | **1.1011** | **3.5927** | | **1,479.8000** | **1,479.8000** | **0.4418** | | **1,489.0774** |

## 3.4 Grading - 2015

### 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 | 0.7107 | 11.4075 | 7.6874 | 0.0271 | 0.6390 | 0.1988 | 0.8379 | 0.1750 | 0.1829 | 0.3579 | | 2,756.8842 | 2,756.8842 | 0.0216 | | 2,757.3375 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0370 | 0.0463 | 0.5744 | 1.1300e-003 | 0.0894 | 7.9000e-004 | 0.0902 | 0.0237 | 7.2000e-004 | 0.0244 | | 98.5519 | 98.5519 | 5.3100e-003 | | 98.6633 |
| **Total** | **0.7478** | **11.4538** | **8.2617** | **0.0282** | **0.7285** | **0.1996** | **0.9281** | **0.1987** | **0.1836** | **0.3823** | | **2,855.4361** | **2,855.4361** | **0.0269** | | **2,856.0009** |

### 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 | | | | | 2.0637 | 0.0000 | 2.0637 | 1.1212 | 0.0000 | 1.1212 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.0666 | 21.9443 | 14.0902 | 0.0141 | | 1.1968 | 1.1968 | | 1.1011 | 1.1011 | 0.0000 | 1,479.8000 | 1,479.8000 | 0.4418 | | 1,489.0774 |
| **Total** | **2.0666** | **21.9443** | **14.0902** | **0.0141** | **2.0637** | **1.1968** | **3.2605** | **1.1212** | **1.1011** | **2.2223** | **0.0000** | **1,479.8000** | **1,479.8000** | **0.4418** | | **1,489.0774** |

## 3.4 Grading - 2015

**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 | 0.7107 | 11.4075 | 7.6874 | 0.0271 | 0.6390 | 0.1988 | 0.8379 | 0.1750 | 0.1829 | 0.3579 | | 2,756.8842 | 2,756.8842 | 0.0216 | | 2,757.3375 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0370 | 0.0463 | 0.5744 | 1.1300e-003 | 0.0894 | 7.9000e-004 | 0.0902 | 0.0237 | 7.2000e-004 | 0.0244 | | 98.5519 | 98.5519 | 5.3100e-003 | | 98.6633 |
| **Total** | **0.7478** | **11.4538** | **8.2617** | **0.0282** | **0.7285** | **0.1996** | **0.9281** | **0.1987** | **0.1836** | **0.3823** | | **2,855.4361** | **2,855.4361** | **0.0269** | | **2,856.0009** |

## 3.5 Paving - 2015

**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 | 1.4041 | 14.5959 | 9.1695 | 0.0133 | | 0.8919 | 0.8919 | | 0.8215 | 0.8215 | | 1,382.4703 | 1,382.4703 | 0.4054 | | 1,390.9826 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.4041** | **14.5959** | **9.1695** | **0.0133** | | **0.8919** | **0.8919** | | **0.8215** | **0.8215** | | **1,382.4703** | **1,382.4703** | **0.4054** | | **1,390.9826** |

## 3.5 Paving - 2015

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0602 | 0.0753 | 0.9333 | 1.8400e-003 | 0.1453 | 1.2800e-003 | 0.1466 | 0.0385 | 1.1700e-003 | 0.0397 | | 160.1468 | 160.1468 | 8.6200e-003 | | 160.3279 |
| **Total** | **0.0602** | **0.0753** | **0.9333** | **1.8400e-003** | **0.1453** | **1.2800e-003** | **0.1466** | **0.0385** | **1.1700e-003** | **0.0397** | | **160.1468** | **160.1468** | **8.6200e-003** | | **160.3279** |

### 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 | 1.4041 | 14.5959 | 9.1695 | 0.0133 | | 0.8919 | 0.8919 | | 0.8215 | 0.8215 | 0.0000 | 1,382.4703 | 1,382.4703 | 0.4054 | | 1,390.9826 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.4041** | **14.5959** | **9.1695** | **0.0133** | | **0.8919** | **0.8919** | | **0.8215** | **0.8215** | **0.0000** | **1,382.4703** | **1,382.4703** | **0.4054** | | **1,390.9826** |

## 3.5 Paving - 2015

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0602 | 0.0753 | 0.9333 | 1.8400e-003 | 0.1453 | 1.2800e-003 | 0.1466 | 0.0385 | 1.1700e-003 | 0.0397 | | 160.1468 | 160.1468 | 8.6200e-003 | | 160.3279 |
| **Total** | **0.0602** | **0.0753** | **0.9333** | **1.8400e-003** | **0.1453** | **1.2800e-003** | **0.1466** | **0.0385** | **1.1700e-003** | **0.0397** | | **160.1468** | **160.1468** | **8.6200e-003** | | **160.3279** |

## 3.5 Paving - 2016

**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 | 1.2872 | 13.2076 | 9.0880 | 0.0133 | | 0.8075 | 0.8075 | | 0.7438 | 0.7438 | | 1,368.4366 | 1,368.4366 | 0.4053 | | 1,376.9473 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.2872** | **13.2076** | **9.0880** | **0.0133** | | **0.8075** | **0.8075** | | **0.7438** | **0.7438** | | **1,368.4366** | **1,368.4366** | **0.4053** | | **1,376.9473** |

## 3.5 Paving - 2016

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0543 | 0.0679 | 0.8450 | 1.8400e-003 | 0.1453 | 1.2100e-003 | 0.1465 | 0.0385 | 1.1200e-003 | 0.0397 | | 154.6296 | 154.6296 | 7.9300e-003 | | 154.7962 |
| **Total** | **0.0543** | **0.0679** | **0.8450** | **1.8400e-003** | **0.1453** | **1.2100e-003** | **0.1465** | **0.0385** | **1.1200e-003** | **0.0397** | | **154.6296** | **154.6296** | **7.9300e-003** | | **154.7962** |

### 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 | 1.2872 | 13.2076 | 9.0880 | 0.0133 | | 0.8075 | 0.8075 | | 0.7438 | 0.7438 | 0.0000 | 1,368.4366 | 1,368.4366 | 0.4053 | | 1,376.9473 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.2872** | **13.2076** | **9.0880** | **0.0133** | | **0.8075** | **0.8075** | | **0.7438** | **0.7438** | **0.0000** | **1,368.4366** | **1,368.4366** | **0.4053** | | **1,376.9473** |

## 3.5 Paving - 2016

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0543 | 0.0679 | 0.8450 | 1.8400e-003 | 0.1453 | 1.2100e-003 | 0.1465 | 0.0385 | 1.1200e-003 | 0.0397 | | 154.6296 | 154.6296 | 7.9300e-003 | | 154.7962 |
| **Total** | **0.0543** | **0.0679** | **0.8450** | **1.8400e-003** | **0.1453** | **1.2100e-003** | **0.1465** | **0.0385** | **1.1200e-003** | **0.0397** | | **154.6296** | **154.6296** | **7.9300e-003** | | **154.7962** |

## 3.6 Building Construction - 2016

**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 | 3.2915 | 20.5459 | 14.7074 | 0.0220 | | 1.3656 | 1.3656 | | 1.3176 | 1.3176 | | 2,046.9432 | 2,046.9432 | 0.4499 | | 2,056.3913 |
| **Total** | **3.2915** | **20.5459** | **14.7074** | **0.0220** | | **1.3656** | **1.3656** | | **1.3176** | **1.3176** | | **2,046.9432** | **2,046.9432** | **0.4499** | | **2,056.3913** |

## 3.6 Building Construction - 2016

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0833 | 0.8637 | 0.9959 | 2.1700e-003 | 0.0625 | 0.0142 | 0.0767 | 0.0178 | 0.0131 | 0.0309 | | 218.0289 | 218.0289 | 1.5600e-003 | | 218.0616 |
| Worker | 0.2005 | 0.2507 | 3.1201 | 6.8000e-003 | 0.5365 | 4.4800e-003 | 0.5410 | 0.1423 | 4.1200e-003 | 0.1464 | | 570.9400 | 570.9400 | 0.0293 | | 571.5552 |
| **Total** | **0.2838** | **1.1144** | **4.1160** | **8.9700e-003** | **0.5990** | **0.0187** | **0.6177** | **0.1601** | **0.0172** | **0.1773** | | **788.9689** | **788.9689** | **0.0309** | | **789.6168** |

### 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 | 3.2915 | 20.5459 | 14.7074 | 0.0220 | | 1.3656 | 1.3656 | | 1.3176 | 1.3176 | 0.0000 | 2,046.9432 | 2,046.9432 | 0.4499 | | 2,056.3913 |
| **Total** | **3.2915** | **20.5459** | **14.7074** | **0.0220** | | **1.3656** | **1.3656** | | **1.3176** | **1.3176** | **0.0000** | **2,046.9432** | **2,046.9432** | **0.4499** | | **2,056.3913** |

## 3.6 Building Construction - 2016

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0833 | 0.8637 | 0.9959 | 2.1700e-003 | 0.0625 | 0.0142 | 0.0767 | 0.0178 | 0.0131 | 0.0309 | | 218.0289 | 218.0289 | 1.5600e-003 | | 218.0616 |
| Worker | 0.2005 | 0.2507 | 3.1201 | 6.8000e-003 | 0.5365 | 4.4800e-003 | 0.5410 | 0.1423 | 4.1200e-003 | 0.1464 | | 570.9400 | 570.9400 | 0.0293 | | 571.5552 |
| **Total** | **0.2838** | **1.1144** | **4.1160** | **8.9700e-003** | **0.5990** | **0.0187** | **0.6177** | **0.1601** | **0.0172** | **0.1773** | | **788.9689** | **788.9689** | **0.0309** | | **789.6168** |

## 3.7 Architectural Coating - 2017

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 22.1584 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.3323 | 2.1850 | 1.8681 | 2.9700e-003 | | 0.1733 | 0.1733 | | 0.1733 | 0.1733 | | 281.4481 | 281.4481 | 0.0297 | | 282.0721 |
| **Total** | **22.4907** | **2.1850** | **1.8681** | **2.9700e-003** | | **0.1733** | **0.1733** | | **0.1733** | **0.1733** | | **281.4481** | **281.4481** | **0.0297** | | **282.0721** |

## 3.7 Architectural Coating - 2017

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0375 | 0.0472 | 0.5880 | 1.4200e-003 | 0.1118 | 9.0000e-004 | 0.1127 | 0.0296 | 8.3000e-004 | 0.0305 | | 114.3934 | 114.3934 | 5.6300e-003 | | 114.5116 |
| **Total** | **0.0375** | **0.0472** | **0.5880** | **1.4200e-003** | **0.1118** | **9.0000e-004** | **0.1127** | **0.0296** | **8.3000e-004** | **0.0305** | | **114.3934** | **114.3934** | **5.6300e-003** | | **114.5116** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 22.1584 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.3323 | 2.1850 | 1.8681 | 2.9700e-003 | | 0.1733 | 0.1733 | | 0.1733 | 0.1733 | 0.0000 | 281.4481 | 281.4481 | 0.0297 | | 282.0721 |
| **Total** | **22.4907** | **2.1850** | **1.8681** | **2.9700e-003** | | **0.1733** | **0.1733** | | **0.1733** | **0.1733** | **0.0000** | **281.4481** | **281.4481** | **0.0297** | | **282.0721** |

## 3.7 Architectural Coating - 2017

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0375 | 0.0472 | 0.5880 | 1.4200e-003 | 0.1118 | 9.0000e-004 | 0.1127 | 0.0296 | 8.3000e-004 | 0.0305 | | 114.3934 | 114.3934 | 5.6300e-003 | | 114.5116 |
| **Total** | **0.0375** | **0.0472** | **0.5880** | **1.4200e-003** | **0.1118** | **9.0000e-004** | **0.1127** | **0.0296** | **8.3000e-004** | **0.0305** | | **114.3934** | **114.3934** | **5.6300e-003** | | **114.5116** |

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Integrate Below Market Rate Housing

Limit Parking Supply

| | ROG | NOx | CO | SO2 | Fugitive 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 | 1.1789 | 3.1703 | 12.9877 | 0.0325 | 2.1612 | 0.0460 | 2.2072 | 0.5775 | 0.0423 | 0.6198 | | 2,763.6955 | 2,763.6955 | 0.1051 | | 2,765.9015 |
| Unmitigated | 1.2445 | 3.6402 | 14.7323 | 0.0380 | 2.5426 | 0.0536 | 2.5963 | 0.6794 | 0.0494 | 0.7288 | | 3,237.4572 | 3,237.4572 | 0.1219 | | 3,240.0164 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 322.91 | 350.84 | 297.43 | 1,104,629 | 938,934 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| Total | 322.91 | 350.84 | 297.43 | 1,104,629 | 938,934 |

## 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 |
| Apartments Mid Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Enclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.512163 | 0.060173 | 0.180257 | 0.139094 | 0.042244 | 0.006664 | 0.016017 | 0.031880 | 0.001940 | 0.002497 | 0.004356 | 0.000592 | 0.002122 |

## 4.4 Fleet Mix

## 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

| | ROG | NOx | CO | SO2 | Fugitive 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 | 0.0120 | 0.1024 | 0.0436 | 6.5000e-004 | | 8.2800e-003 | 8.2800e-003 | | 8.2800e-003 | 8.2800e-003 | | 130.7750 | 130.7750 | 2.5100e-003 | 2.4000e-003 | 131.5709 |
| NaturalGas Unmitigated | 0.0144 | 0.1227 | 0.0522 | 7.8000e-004 | | 9.9200e-003 | 9.9200e-003 | | 9.9200e-003 | 9.9200e-003 | | 156.6817 | 156.6817 | 3.0000e-003 | 2.8700e-003 | 157.6352 |

## 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 | | | | | |
| Apartments Mid Rise | 1331.79 | 0.0144 | 0.1227 | 0.0522 | 7.8000e-004 | | 9.9200e-003 | 9.9200e-003 | | 9.9200e-003 | 9.9200e-003 | | 156.6817 | 156.6817 | 3.0000e-003 | 2.8700e-003 | 157.6352 |
| Enclosed Parking with Elevator | 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 |
| **Total** | | **0.0144** | **0.1227** | **0.0522** | **7.8000e-004** | | **9.9200e-003** | **9.9200e-003** | | **9.9200e-003** | **9.9200e-003** | | **156.6817** | **156.6817** | **3.0000e-003** | **2.8700e-003** | **157.6352** |

## 5.2 Energy by Land Use - NaturalGas

**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 | | | | | |
| Apartments Mid Rise | 1.11159 | 0.0120 | 0.1024 | 0.0436 | 6.5000e-004 | | 8.2800e-003 | 8.2800e-003 | | 8.2800e-003 | 8.2800e-003 | | 130.7750 | 130.7750 | 2.5100e-003 | 2.4000e-003 | 131.5709 |
| Enclosed Parking with Elevator | 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 |
| **Total** | | **0.0120** | **0.1024** | **0.0436** | **6.5000e-004** | | **8.2800e-003** | **8.2800e-003** | | **8.2800e-003** | **8.2800e-003** | | **130.7750** | **130.7750** | **2.5100e-003** | **2.4000e-003** | **131.5709** |

# 6.0 Area Detail

## 6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

| | ROG | NOx | CO | SO2 | Fugitive 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 | 1.9147 | 0.0477 | 4.0913 | 2.1000e-004 | | 0.0222 | 0.0222 | | 0.0222 | 0.0222 | 0.0000 | 7.2959 | 7.2959 | 7.3500e-003 | 0.0000 | 7.4503 |
| Unmitigated | 1.9147 | 0.0477 | 4.0913 | 2.1000e-004 | | 0.0222 | 0.0222 | | 0.0222 | 0.0222 | 0.0000 | 7.2959 | 7.2959 | 7.3500e-003 | 0.0000 | 7.4503 |

## 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 | 0.2914 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.4954 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.1279 | 0.0477 | 4.0913 | 2.1000e-004 | | 0.0222 | 0.0222 | | 0.0222 | 0.0222 | | 7.2959 | 7.2959 | 7.3500e-003 | | 7.4503 |
| **Total** | **1.9147** | **0.0477** | **4.0913** | **2.1000e-004** | | **0.0222** | **0.0222** | | **0.0222** | **0.0222** | **0.0000** | **7.2959** | **7.2959** | **7.3500e-003** | **0.0000** | **7.4503** |

## 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.2914 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.4954 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.1279 | 0.0477 | 4.0913 | 2.1000e-004 | | 0.0222 | 0.0222 | | 0.0222 | 0.0222 | | 7.2959 | 7.2959 | 7.3500e-003 | | 7.4503 |
| **Total** | **1.9147** | **0.0477** | **4.0913** | **2.1000e-004** | | **0.0222** | **0.0222** | | **0.0222** | **0.0222** | **0.0000** | **7.2959** | **7.2959** | **7.3500e-003** | **0.0000** | **7.4503** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

# 8.0 Waste Detail

## 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

## 9.0 Operational Offroad

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

## 10.0 Vegetation

## APPENDIX B: TREE REPORT

Native Tree Report, prepared by Lisa Smith, dated May 1, 2014.

# NATIVE TREE REPORT

**PREPARED FOR:**
Hollywood Community Housing Corporation
5020 Santa Monica Blvd.
Los Angeles, CA  90029

**PROPERTY:**
4704-4716 Peck Rd.
El Monte, CA

**CONTACT:**
Eleanor Atkins
Project Manager
323-454-6207

May 1, 2014

**PREPARED BY:**

LISA SMITH
REGISTERED CONSULTING ARBORIST #464
ISA CERTIFIED ARBORIST #WE3782
ISA QUALIFIED TREE RISK ASSESSOR
MEMBER OF AMERICAN SOCIETY OF CONSULTING ARBORISTS
P.O. BOX 49314
LOS ANGELES, CA  90049

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# TREE REPORT
# 4704 – 4716 Peck Road
# El Monte, CA 91732

## SUMMARY

This Tree Report was prepared at the request of Hollywood Community Housing Corporation. This company is proposing to build a 49-unit, three-story affordable housing development located at 4704 and 4716 Peck Road in El Monte. The two existing occupied structures on the site, a tire shop (commercial) and a 1,200 square foot single-family home (residential), will be demolished to make way for the construction of the new residential building.

The project site is approximately 1.03 acres. The upper (5) five feet of existing earth materials within the proposed building footprint area will be excavated and re-compacted for foundation and slab support.

Part of these construction activities will require the removal of trees that will be significantly impacted and are not able to be safely retained. Part of the permitting process within the City of El Monte requires a Tree Report that includes an inventory of all trees on site.

This property has a total of (27) twenty-seven trees and palms on site. None of these trees are on the "native species" list that is part of the tree ordinance. Of these, (20) of the trees are greater than 36 inches in circumference (if a single trunk) or 75 inches in combined circumference if a multi-trunk, and therefore fall into the "heritage" tree category. Although the two main species are considered invasive species and are generally not desirable trees, although some of them are large enough to be considered "heritage".

The proposed construction activities for this project will require extensive grading that will remove the main buildings, retaining walls and footings that are in close proximity to many trees. Also, most importantly the grading activity will significantly impact the top layer of soil around all of these trees and their fibrous root system. Most of these trees are species that have very surface oriented roots that stay in the top layer of soil. Trees such as Chinese Hackberry, Eucalyptus, and Tree of Heaven have extremely surface oriented roots that stay in the top inches of soil where there is oxygen, nutrients and water. Any severing or impact to these roots will reduce their health and structural stability. Although many of the trees fall within the "heritage tree" category, most are unsuitable candidates to retain on this property.

This property is within the City of El Monte and is under the guidance of the *El Monte Tree Protection and Preservation Ordinance*. This report was prepared in accordance with the ordinance in relation to their protected tree standards.

## ASSIGNMENT

The Assignment included a field observation and inventory of the trees located on the property. The species, size, condition and location of the trees was assessed. Included in this assignment is a Tree Location Map in Appendix A that shows the relative location of the inventoried trees. Photographs are included in Appendix B, which show the current condition and location of the trees. Also included is a Tree Inventory Spreadsheet that includes detailed information with respect to size and species along with protected tree status. This spreadsheet corresponds to the numbers indicated on the Location Map.

## LIMITS OF ASSIGNMENT

This report is based on our site visit. Visual Tree Assessments (VTA) were performed on the trees using ground level visual observations and non-invasive techniques. No climbing of trees was performed. Nor was any formal hazard inspection performed on these trees.

## TREE CHARACTERISTICS

A "Tree Inventory Spreadsheet" is included in the report and outlines more details regarding the species, size, condition, and location of each tree.

The main species on the property are: *Washingtonia robusta* (Mexican Fan Palm), *Celtis sinensis* (Chinese Hackberry), *Ailanthus altissima* (Tree of Heaven) *Eucalyptus spp.* (Eucalyptus), and *Sequoia sempervirens (Coast Redwood)*. The majority of these trees are considered invasive and able to easily grow as volunteers such as Chinese Hackberry and Tree of Heaven. Generally speaking, these are not species that are highly recommended or desirable. Although the sizes of some of these trees are large enough to be deemed "Heritage" in size, they are poor quality trees, species that are undesirable, and will not tolerate the construction project. Additionally, most of the trees are in poor health, show drought stress, and have structural defects that cannot be mitigated or corrected.

**Chinese Hackberry** (*Celtis sinensis*) is a species that is relatively fast growing. It is a non-native naturalized species here in California that can be considered somewhat invasive. This tree is considered brittle and prone to limb breakage. It is a shallow rooted species that easily seeds as a volunteer. This species due to its rapid growth can easily achieve a large enough size to be considered "heritage" within the city ordinance, however it is not a species that would be deemed desirable to build around. This species is sensitive to root encroachment and would not tolerate the required soil removal and recompaction.

**Tree of Heaven** (Ailanthus altissima) is a highly invasive species throughout the United States, and is included on the California Invasive Species List. This tree is similar to Hackberry but even more invasive and brittle. This is not a tree that is recommended, grown by nurseries, or even considered a specimen. Although there are a few very mature trees on this property that are large enough to be considered "heritage" within the city ordinance, this species is not deemed desirable to retain. Also, it is sensitive to root encroachment and would not tolerate the required soil removal and recompaction.

**Coastal Redwood** (*Sequoia sempervirens*) is a species that is more commonly found in the foothills and areas where there is a coastal influence. This lone Redwood tree is in fair condition and appears to have been intentionally planted in the back yard of the residence. Although this tree is of a "heritage" trunk size, it would not tolerate the soil work and removal and recompaction required for construction. Redwood trees are very shallow rooted and due to their size and height are not good candidates for root pruning.

**Eucalyptus** is a common species in southern California, and is noted as one of the fastest growing species. Its canopy can be extremely heavy with foliage, which leads to chronic limb breakage and shedding. This is considered a more hazardous species and it is recommended that they receive consistent maintenance to improve structure and reduce potential for limb breakage. It is also an invasive species that has massive trunks and lateral roots that can lift and heave any nearby hardscape or infrastructure. This tree is not as desirable in commercial settings where there is constant activity.

## RECOMMENDATIONS

Although all of the trees have been growing at this property for more than 15 - 40 years, the upcoming demolition and grading work will significantly encroach and impact the trees throughout the entire site. All trees will receive various degrees of impact from the residential demolition and removal of adjacent concrete and asphalt.

The project requires that significant soil removal and recompaction work take place to prepare the property for development. This activity will cause the loss of the major supportive and absorbing roots, which will significantly impact the health and structural stability of these trees. These trees will be much more susceptible to root plate failure and completely falling over.

Ultimately, this demolition process is an opportunity to remove these maturing trees that are poor species and will allow the selection of more appropriate tree species to be installed as mitigation.

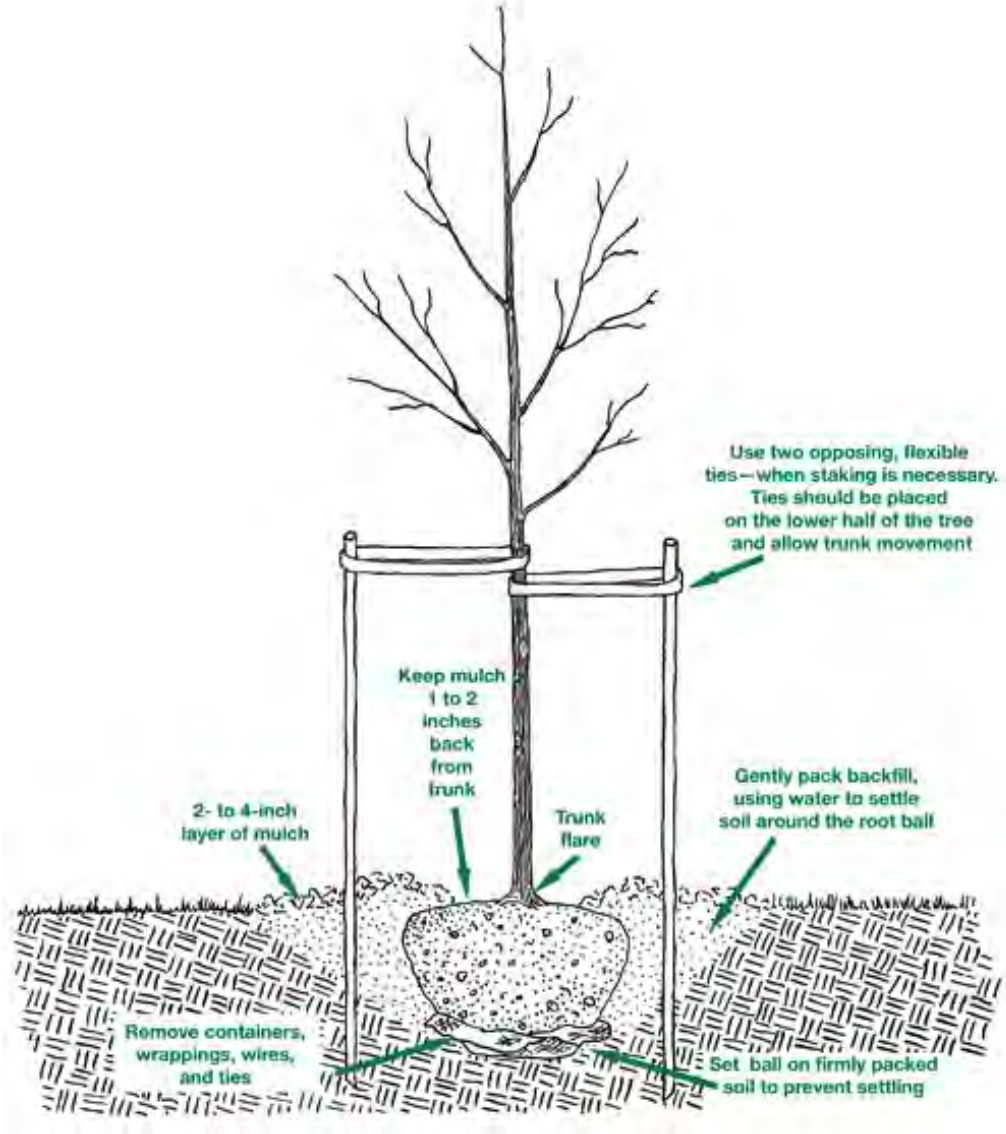
New Tree Planting Guidelines have been included in this report and may be implemented when the mitigation trees are installed.

## NEW TREE PLANTING

The ideal time to plant trees and shrubs is during the dormant season, in the fall after leaf drop or early spring before budbreak. Weather conditions are cool and allow plants to establish roots in the new location before spring rains and summer heat stimulate new top growth. However, trees properly cared for in the nursery or garden center, and given the appropriate care during transport to prevent damage, can be planted throughout the growing season. In tropical and subtropical climates where trees grow year round, any time is a good time to plant a tree, provided that sufficient water is available. In either situation, proper handling during planting is essential to ensure a healthy future for new trees and shrubs. Before you begin planting your tree, be sure you have had all underground utilities located prior to digging.

If the tree you are planting is balled or bare root, it is important to understand that its root system has been reduced by 90 to 95 percent of its original size during transplanting. As a result of the trauma caused by the digging process, trees commonly exhibit what is known as transplant shock. Containerized trees may also experience transplant shock, particularly if they have circling roots that must be cut. Transplant shock is indicated by slow growth and reduced vigor following transplanting. Proper site preparation before and during planting coupled with good follow-up care reduces the amount of time the plant experiences transplant shock and allows the tree to quickly establish in its new location. Carefully follow nine simple steps, and you can significantly reduce the stress placed on the plant at the time of planting.

1. **Dig a shallow, broad planting hole.** Make the hole wide, as much as three times the diameter of the root ball but only as deep as the root ball. It is important to make the hole wide because the roots on the newly establishing tree must push through surrounding soil in order to establish. On most planting sites in new developments, the existing soils have been compacted and are unsuitable for healthy root growth. Breaking up the soil in a large area around the tree provides the newly emerging roots room to expand into loose soil to hasten establishment.




2. **Identify the trunk flare.** The trunk flare is where the roots spread at the base of the tree. This point should be partially visible after the tree has been planted (see diagram). If the trunk flare is not partially visible, you may have to remove some soil from the top of the root ball. Find it so you can determine how deep the hole needs to be for proper planting.

3. **Remove tree container for containerized trees.** Carefully cutting down the sides of the container may make this easier. Inspect the root ball for circling roots and cut or remove them. Expose the trunk flare, if necessary.

4. **Place the tree at the proper height.** Before placing the tree in the hole, check to see that the hole has been dug to the proper depth and no more. The majority of the roots on the newly planted tree will develop in the top 12 inches of soil. If the tree is planted too deeply, new roots will have difficulty developing because of a lack of oxygen. It is better to plant the tree a little high, 2 to 3 inches above the base of the trunk flare, than to plant it at or below the original growing level. This planting level will allow for some settling (see diagram). To avoid damage when setting the tree in the hole, always lift the tree by the root ball and never by the trunk.

5. **Straighten the tree in the hole.** Before you begin backfilling, have someone view the tree from several directions to confirm that the tree is straight. Once you begin backfilling, it is difficult to reposition the tree.

6. **Fill the hole gently but firmly.** Fill the hole about one-third full and gently but firmly pack the soil around the base of the root ball. Then, if the root ball is wrapped, cut and remove any fabric, plastic, string, and wire from around the trunk and root ball to facilitate growth (see diagram). Be careful not to damage the trunk or roots in the process. Fill the remainder of the hole, taking care to firmly pack soil to eliminate air pockets that may cause roots to dry out. To avoid this problem, add the soil a few inches at a time and settle with water. Continue this process until the hole is filled and the tree is firmly planted. It is not recommended to apply fertilizer at time of planting.

7. **Stake the tree, if necessary.** If the tree is grown properly at the nursery, staking for support will not be necessary in most home landscape situations. Studies have shown that trees establish more quickly and develop stronger trunk and root systems if they are not staked at the time of planting. However, protective staking may be required on sites where lawn mower damage, vandalism, or windy conditions are concerns. If staking is necessary for support, there are three methods to choose among: staking, guying, and ball stabilizing. One of the most common methods is staking. With this method, two stakes used in conjunction with a wide, flexible tie material on the lower half of the tree will hold the tree upright, provide flexibility, and minimize injury to the trunk (see diagram). Remove support staking and ties after the first year of growth.

8. **Mulch the base of the tree.** Mulch is simply organic matter applied to the area at the base of the tree. It acts as a blanket to hold moisture, it moderates soil temperature extremes, and it reduces competition from grass and weeds. Some good choices are leaf litter, pine straw, shredded bark, peat moss, or composted wood chips. A 2- to 4-inch layer is ideal. More than 4 inches may cause a problem with oxygen and moisture levels. When placing mulch, be sure that the actual trunk of the tree is not covered. Doing so may cause decay of the living bark at the base of the tree. A mulch-free area, 1 to 2 inches wide at the base of the tree, is sufficient to avoid moist bark conditions and prevent decay.

9. **Provide follow-up care.** Keep the soil moist but not soaked; overwatering causes leaves to turn yellow or fall off. Water trees at least once a week, barring rain, and more frequently during hot weather. When the soil is dry below the surface of the mulch, it is time to water. Continue until mid-fall, tapering off for lower temperatures that require less-frequent watering. Other follow-up care may include minor pruning of branches damaged during the planting process. Prune sparingly immediately after planting and wait to begin necessary corrective pruning until after a full season of growth in the new location. After you have completed these nine simple steps, further routine care and favorable weather conditions will ensure that your new tree or shrub will grow and thrive. A valuable asset to any landscape, trees provide a long-lasting source of beauty and enjoyment for people of all ages. When questions arise about the care of your tree, be sure to consult your local ISA Certified Arborist or garden center professional for assistance.

## ASSUMPTIONS AND LIMITING CONDITIONS

The trees identified in this report were reviewed for general health and vigor and reflect the condition of the trees on the date reviewed. The field inspection was a visual, grade level tree assessment. No lab testing of the soil, rootzone, leaf tissue or upper canopy examination was performed.

No warranty is made, expressed or implied, that problems or deficiencies of the trees or the property will not occur in the future, from any cause. The Consultant shall not be responsible for damages or injuries caused by any tree defects, and assumes no responsibility for the correction of defects or tree related problems. As the trees continue to grow and mature, some defects may become more pronounced and externally visible.

The owner may choose to accept or disregard the recommendations of the Consultant, or seek additional advice to determine if a tree meets the owner's risk abatement standards.

The Consulting Arborist has no past, present or future interest in the removal or retaining of any tree. Opinions contained herein are the independent and objective judgments of the consultant relating to circumstances and observations made on the subject site.

The recommendations contained in this report are the opinions of the Consulting Arborist at the time of inspection. These opinions are based on the knowledge, experience, and education of the Arborist. The field inspection was a visual, grade-level tree assessment.

The Consulting Arborist shall not be required to give testimony, perform site monitoring, provide further documentation, be deposed, or to attend any meeting without subsequent contractual arrangements for this additional employment, including payment of additional fees for such services as described by the Consultant.

The Consultant assumes no responsibility for verification of ownership or locations of property lines, or for results of any actions based on inaccurate information.

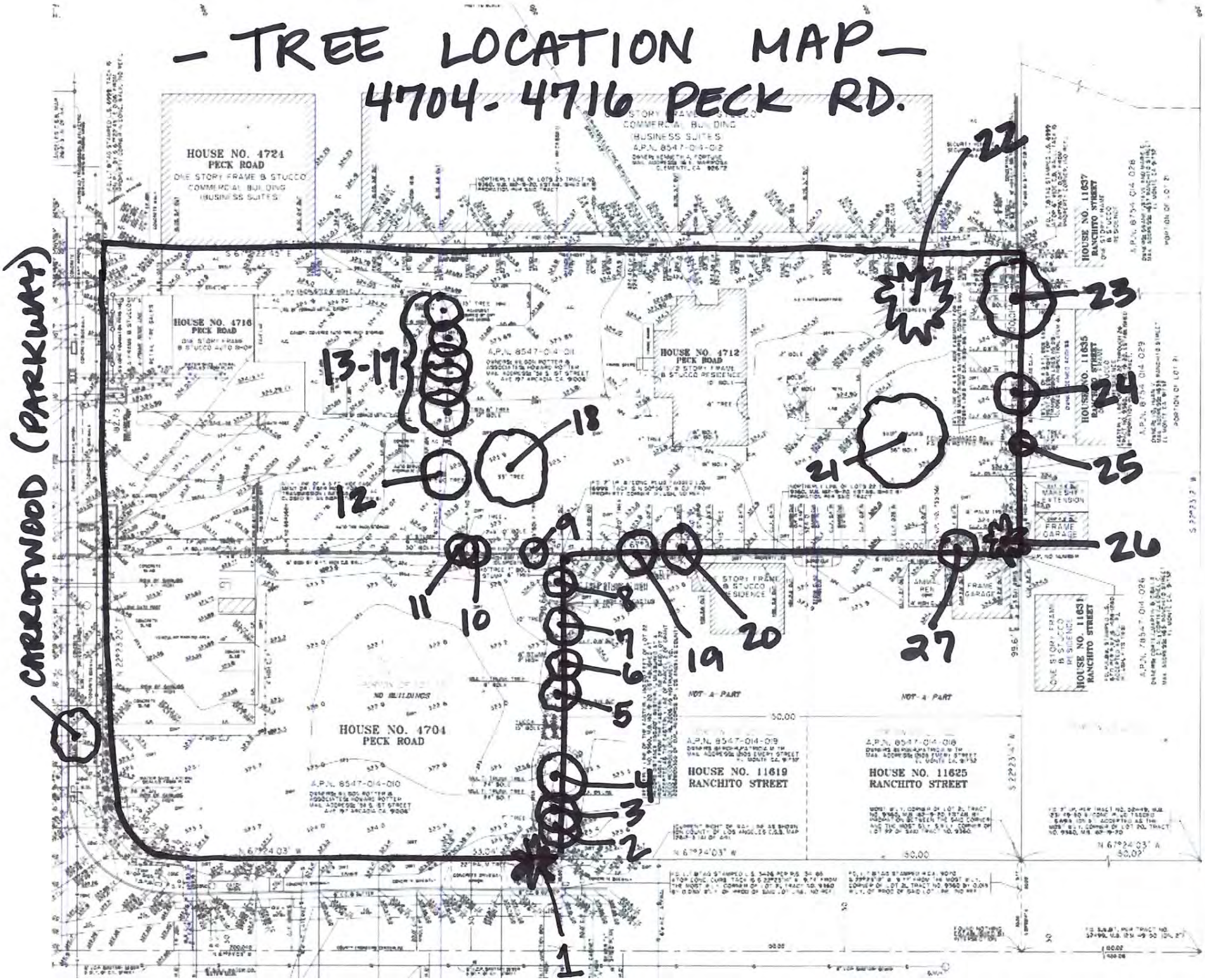
This Arborist report may not be reproduced without the express permission of the Consulting Arborist and the client to whom the report was issued. Any change or alteration to this report invalidates the entire report.

Should you have further questions regarding any information contained in this report, please contact me at (310) 663-2290.

Respectfully submitted,

Lisa Smith, Registered Consulting Arborist #464
ISA Certified Arborist #WE3782
ISA Qualified Tree Risk Assessor
Member of American Society of Consulting Arborists

# - TREE LOCATION MAP -
# 4704-4716 PECK RD.



## APPENDIX B – PHOTOGRAPHS

**PHOTO #1:**

Chinese Hackberry is the dominant tree species that has grown along the edge of the property. These trees are in various stages of health and vigor. Some of these trees have been cut down to approximately four feet tall and have re-sprouted as suckers and watersprouts.

Although this tree can perform well it is considered by some as an invasive tree due to its pervasive infestation in landscapes.

**PHOTO #2:**

This Chinese Hackberry is one of the largest on the property edge. These trees are fast growing, invasive and considered moderate in wood strength.

Ultimately, the construction project on this site combined with the removal and recompaction soil work will significantly impact and destabilize these trees.

**PHOTO #3:**

The *Washingtonia robusta* Fan Palm on the edge of the project also appears to be a volunteer. This palm tree is located where the project work will be performed. This palm tree is not a native species and will be removed for proper construction activities.

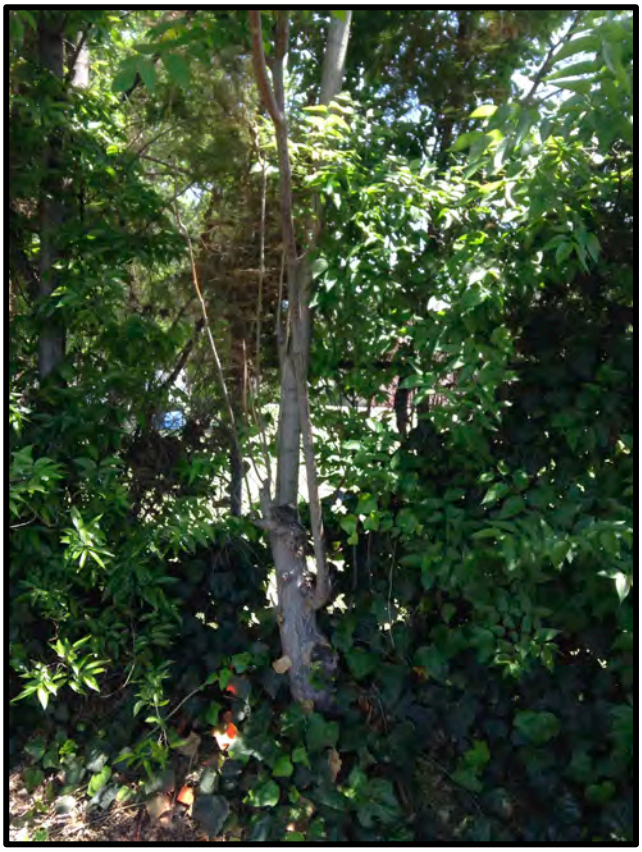


**PHOTO #4:**

Another small Chinese Hackberry tree along the property line. This tree is not considered a native species or a size that would be deemed a "heritage" tree. These trees will be significantly impacted by the proposed project and required soil work.

All of these Chinese Hackberry trees are slated for removal and mitigation where necessary by the City of El Monte.

**PHOTO #5:**

The backyard of the residence has some old planter material in poor condition. These shrubs and volunteer trees are in poor condition.

None are considered protected species or heritage sizes. All are slated for clean up and removal for the proposed project.

**PHOTO #6:**

There are only 2 mature Eucalyptus trees on this site. This shallow rooted species will also be impacted by proposed project.

This species will not tolerate the soil work and loss of significant roots. Although this species is not considered a native species, it is large enough to be in the "heritage" category. These trees can be mitigated to the satisfaction of the City of El Monte.

**PHOTO #7:**

This "Tree of Heaven" (Ailanthus altissima) is a volunteer tree. This species is considered a highly invasive tree throughout southern California.

This is not a native species but is large enough to be a "heritage" tree. This tree will be mitigated to the satisfaction of the City of El Monte.

**PHOTO #8:**

A small row of Ailanthus altissima is growing on the edge of the property. This collection of volunteer, invasive trees are not native or heritage trees. They will be removed for the project and the required soil work.

**PHOTO #9:**

The other Eucalyptus on site is located on the property edge. This tree will also require removal for the proposed project and required soil work.

**PHOTO #10:**

This close up of the Eucalyptus tree shows its structure and subtle lean. This tree would be a removal candidate even without the construction project.

**PHOTOS #11 & #12:**

The back of the project has a collection of Chinese Hackberry trees and one large Redwood tree.

All of these trees are not considered native species, however some are large enough to be deemed “heritage” in size.

All of the trees in the back are removal candidates due to the proposed project and soil work.

Those trees that are large enough to be “heritage” sizes will be mitigated to the satisfaction of the City of El Monte.

**PHOTOS #13 & #14:**

This Carrotwood tree (Cupaniopsis anacardioides) is a parkway street. The sidewalk is lifting due to the roots of this tree. Additionally, it appears there was previous sidewalk repair work that may have expanded the planter growing area.

This tree should be further evaluated for structural stability, should there be any sidewalk work, utility trenching or underground work for the project.

TREE INVENTORY SPREADSHEET
4704-4716 Peck Rd., El Monte, CA



| Tree No. | Species | Trunk | Circumference (inches) | Height (if applicable) | Classification |
|---|---|---|---|---|---|
| 1 | Mexican Fan Palm (*Washingtonia robusta*) | Single Trunk | 20' height | 20' | Not Protected |
| 2 | Chinese Hackberry (*Celtis sinensis*) | Multi Trunk | 75"+ | N/A | Heritage |
| 3 | Chinese Hackberry (*Celtis sinensis*) | Multi Trunk | 75"+ | N/A | Heritage |
| 4 | Chinese Hackberry (*Celtis sinensis*) | Multi Trunk | 75"+ | N/A | Heritage |
| 5 | Chinese Hackberry (*Celtis sinensis*) | Multi Trunk | 75"+ | N/A | Heritage |
| 6 | Chinese Hackberry (*Celtis sinensis*) | Multi Trunk | 75"+ | N/A | Heritage |
| 7 | Chinese Hackberry (*Celtis sinensis*) | Single Trunk | 32" | N/A | Not Protected |
| 8 | Tree of Heaven (*Ailanthus altissima*) | Single Trunk | 30" | N/A | Not Protected |
| 9 | Chinese Hackberry (*Celtis sinensis*) | Multi Trunk | 75"+ | N/A | Heritage |
| 10 | Chinese Hackberry (*Celtis sinensis*) | Multi Trunk | 75"+ | N/A | Heritage |
| 11 | Chinese Hackberry (*Celtis sinensis*) | Multi Trunk | 75"+ | N/A | Heritage |
| 12 | Eucalyptus sp. | Multi Trunk | 75"+ | N/A | Heritage |
| 13 | Tree of Heaven (*Ailanthus altissima*) | Single Trunk | 30"+ | N/A | Not Protected |
| 14 | Tree of Heaven (*Ailanthus altissima*) | Single Trunk | 30"+ | N/A | Not Protected |
| 15 | Tree of Heaven (*Ailanthus altissima*) | Single Trunk | 30"+ | N/A | Not Protected |
| 16 | Tree of Heaven (*Ailanthus altissima*) | Single Trunk | 30"+ | N/A | Not Protected |
| 17 | Tree of Heaven (*Ailanthus altissima*) | Single Trunk | 30"+ | N/A | Not Protected |
| 18 | Tree of Heaven (*Ailanthus altissima*) | Single Trunk | 150" | N/A | Heritage |
| 19 | Chinese Hackberry (*Celtis sinensis*) | Single Trunk | 45" | N/A | Heritage |
| 20 | Eucalyptus sp. | Multi Trunk | 45" | N/A | Heritage |
| 21 | Chinese Hackberry (*Celtis sinensis*) | Single Trunk | 100" | N/A | Heritage |
| 22 | Coast Redwood (*Sequoia sempervirens*) | Single Trunk | 80" | N/A | Heritage |
| 23 | Chinese Hackberry (*Celtis sinensis*) | Multi Trunk | 36"+ | N/A | Heritage |
| 24 | Chinese Hackberry (*Celtis sinensis*) | Multi Trunk | 36"+ | N/A | Heritage |
| 25 | Chinese Hackberry (*Celtis sinensis*) | Multi Trunk | 36"+ | N/A | Heritage |
| 26 | Mexican Fan Palm (*Washingtonia robusta*) | Single Trunk | 12' height | 12' | Not Protected |
| 27 | Chinese Hackberry (*Celtis sinensis*) | Multi Trunk | 36" | N/A | Heritage |

## APPENDIX C: HISTORIC ASSESSMENT

Historic Resources Assessment of 4716 Peck Road, El Monte, CA,
prepared by Leslie Heumann, Historic Resources Consultant, dated April 14, 2015.

South Central Coastal Information Center, Palo Verde Apartments Project
Records Search, dated October 12, 2015.

# MEMORANDUM

**DATE:** April 14, 2015

**TO:** Hollywood Community Housing Corporation (Ms. Eleanor Atkins)

**FROM:** Leslie Heumann, Historic Resources Consultant

**SUBJECT:** Historic Resources Assessment of 4716 Peck Road, El Monte, CA

**ATTACHMENTS:**
1. Photographs of 4716 Peck Road
2. DPR form, 4716 Peck Road

## INTRODUCTION

This Historic Resources Assessment has been prepared to assess whether 4716 Peck Road in the city of El Monte (the subject property) is a historic resource. The subject property contains two buildings, a house built in 1933-1934 and a retail building constructed in 1948. The assessment considers the historic significance of the subject property as defined by the California Environmental Quality Act (CEQA) and in terms of eligibility for inclusion in the National Register of Historic Places (National Register) and California Register of Historical Resources (California Register).[1]

## LOCATION

The subject property is located in the northeastern quadrant of the City of El Monte (City), in an area that was outside of the city limits at the time the subject property was first improved and was subsequently annexed. It lies on the east side of Peck Road, south of the intersection with Lower Azusa Road and one parcel north of the northeast corner of Peck Road and Ranchito Street. This section of Peck Road is a well-traveled north-south thoroughfare lined with small scale commercial buildings. Properties east of the subject property are primarily low-density residential. The subject property is identified by Assessor's Parcel Number (APN) 8547-014-011. It occupies lot 23 in Tract 9360 and comprises a little more than two thirds of an acre, or 30,000 square feet. The parcel measures 100 feet along its Peck Road frontage and has a depth of 300 feet.

## METHODS USED

All applicable professional standards for the identification and evaluation of historic resources were utilized in the preparation of this historic assessment, including (but not limited to):

- Secretary of the Interior's Standards for Preservation Planning
- *National Register Bulletin 24. Guidelines for Local Surveys: A Basis for Preservation Planning*
- *National Register Bulletin 15: How to Apply the National Register Criteria for Evaluation*

[1] The City of El Monte has not codified criteria for designation of historic resources. The County of Los Angeles has recently approved proceeding with adoption of a historic preservation ordinance, but it would only be applicable to properties in unincorporated areas of the county. See below, "Regulatory Framework."

- *Instructions for Recording Historical Resources* (State of California Office of Historic Preservation)

Several tasks were undertaken. The site was inspected on March 10, 2015 and digital photographs of the exteriors and portions of the interiors were made. Aerial, bird's eye, and street level views of the property available through google.com and bing.com were also consulted. Site-specific research was performed, using City of El Monte building permits, County of Los Angeles Assessor Old Books, city directories, and aerial photographs. Some of this material had been previously compiled in the *Phase I Environmental Site Assessment, 4704-4716 Peck Road, El Monte, CA 91732* prepared by Pacific Environmental Co. (March 19, 2014). Additional research was conducted online using census and other materials available through Ancestry.com and historic newspapers from Proquest (accessed through the Los Angeles Public Library). Previously prepared historic narratives were reviewed and summarized to provide a historic context for the evaluation of the property; in particular, the Cultural Resources Element of the El Monte General Plan ("Vision El Monte," adopted 2011) was utilized to provide a framework for the assessment. The property was evaluated for significance under applicable criteria, including those for the National Register and California Register. The City of El Monte has not enacted its own designation ordinance with local criteria, and the recently drafted historic preservation ordinance for Los Angeles County applies only to unincorporated areas, so the evaluation was limited to potential eligibility for these two programs.

The historic assessment was conducted by Ms. Leslie Heumann. An architectural historian with nearly 40 years of experience in the identification, evaluation, and documentation of historic resources, Ms. Heumann has specialized in historic resources surveys, having coordinated, participated, or reviewed comprehensive surveys in several dozen communities of southern California, including the San Gabriel Valley cities of Pasadena, South Pasadena, and Alhambra. Ms. Heumann has been part of the team implementing SurveyLA, the comprehensive citywide survey being directed by the City of Los Angeles Office of Historic Resources. An expert in the application of Section 106 of the National Historic Preservation Act and CEQA, Ms. Heumann has prepared in excess of 100 historic resources technical reports to assess the historic significance of properties affected by proposed undertakings and projects, and to recommend methods to avoid, minimize, or mitigate adverse impacts to historic resources. Ms. Heumann satisfies the Secretary of the Interior's Professional Qualification Standards as an architectural historian.

## REGULATORY FRAMEWORK

Historic resources in El Monte are defined and identified under criteria of significance associated with federal and state laws and regulations. See "Previous Evaluations" below for more information about identified cultural resources in El Monte.

### National Register of Historic Places

First authorized by the Historic Sites Act of 1935, the National Register of Historic Places was established by the National Historic Preservation Act of 1966 as "an authoritative guide to be used by Federal, State, and local governments, private groups and citizens to identify the Nation's cultural resources and to indicate what properties should be considered for protection from destruction or impairment."[2] The National Register recognizes properties that are significant at the national, state and local levels. To be eligible for listing in the National Register, a resource must be significant in American history,

[2] Code of Federal Regulations (CFR), 36 Section 60.2.

architecture, archaeology, engineering, or culture. Four criteria have been established to determine significance:

- Association with events or activities that have made a significant contribution to the broad patterns of our history;

- Association with persons significant in our past;

- Embodiment of the distinctive characteristics of a type, period, or method of construction or representation of the work of a master, or possession of high artistic values, or representation of a significant and distinguishable entity whose components may lack individual distinction; and/or

- Potential to yield information important in prehistory or history.

A property eligible for the National Register must meet one or more of these criteria. In addition, unless the property possesses exceptional significance, it must be at least fifty years old to be eligible for National Register listing. Other criteria considerations affecting religious properties, moved properties, birthplaces or graves, cemeteries, reconstructed properties, and commemorative properties may also apply. Districts, sites, buildings, structures, and objects of potential significance must also possess integrity.

The National Register defines integrity as "the ability of a property to convey its significance." Understanding a property type's character-defining features and their relationship to its significance is paramount when evaluating a resource's integrity. There are seven aspects of integrity:

- ***Location*** is the place where the historic property was constructed or the place where the historic event occurred. The actual location of a historic property, complemented by its setting, is particularly important in recapturing the sense of historic events and persons.

- ***Design*** is the combination of elements that create the form, plan, space, structure, and style of a property. The design results from decisions made during the original conception and planning of a property (or its significant alteration) and applies to activities as diverse as community planning, engineering, architecture, and landscape architecture.

- ***Setting*** is the physical environment of a historic property. It refers to the character of the place in which the property played its historic role. It involves how, not just where, the property is situated and its relationship to surrounding features and open space.

- ***Materials*** are the physical elements that were combined or deposited during a particular period of time and in a particular pattern or configuration to form a historic property.

- ***Workmanship*** is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory.

- ***Feeling*** is a property's expression of the aesthetic or historic sense of a particular period of time. It results from the presence of physical features that, taken together, convey the

property's historic character. Because feeling and association depend on individual perceptions, their retention alone is never sufficient to support eligibility of a property for the National Register.

- ***Association*** is the direct link between an important historic event or person and a historic property. A property retains association if it is the place where the event or activity occurred and is sufficiently intact to convey that relationship to an observer. Like feeling, association requires the presence of physical features that convey a property's historic character. Because feeling and association depend on individual perceptions, their retention alone is never sufficient to support eligibility of a property for the National Register.

Certain aspects of integrity may be more or less important in evaluating a property, depending on the specific criterion of significance. For example, a property that is significant under criterion C for its exemplification of the distinctive characteristics of an architectural style needs to retain a high degree of integrity of design, setting, materials, workmanship, and feeling. On the other hand, a property significant for its association with an important person may not emphasize integrity of design as much as association.

Relationship to subject property: The property has not been listed in or formally determined eligible for listing in the National Register, nor does it, for the reasons presented in this report, appear eligible for such listing.

**California Environmental Quality Act**

Pursuant to CEQA, a historical resource is defined as a resource listed in, or eligible for listing in, the California Register. In addition, resources included in a local register of historical resources or identified as significant in a local survey conducted in accordance with state guidelines also are considered historical resources under CEQA, unless a preponderance of the facts demonstrates otherwise. According to CEQA, the fact that a resource is not listed in or determined eligible for listing in the California Register or is not included in a local register or survey shall not preclude a Lead Agency from determining that the resource may be a historical resource as defined in California Public Resources Code Section 5024.1. CEQA stipulates that a project with an effect that may cause a substantial adverse change in the significance of an historical resource may have a significant effect on the environment. Substantial adverse change in the significance of a 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 the resource that convey its historical significance and justify its inclusion or eligibility for inclusion in the California Register.[3]

Relationship to subject property: The property does not meet the CEQA definition of a historical resource for the reasons presented in this report and therefore a substantial adverse change in significance is not an applicable threshold of adverse environmental impact.

[3] California Code of Regulations. Title 14, Chapter 3, Section 15064.5.

**California Register of Historical Resources**

Created in 1992 and implemented in 1998, the California Register of Historical Resources is "an authoritative guide in California 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."[4] A property eligible for inclusion in the California Register:

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

These criteria are based upon National Register criteria; however, the California Register does not impose as specific requirements for integrity and age as the National Register. Resources eligible for listing in the California Register must retain enough of their historic character or appearance to be recognizable as historic resources and to convey the reasons for their significance. It is possible that resources which may not retain sufficient integrity for listing in the National Register may still be eligible for the California Register. Moved or reconstructed buildings, structures, or objects may also be considered for listing in the California Register under specific circumstances. In addition, properties that were constructed less than fifty years ago or which achieved significance less than fifty years ago may be eligible for inclusion in the California Register provided that sufficient time has passed to understand their historic context.

Relationship to subject property: The property has not been listed in or formally determined eligible for listing in the California Register, nor does it, for the reasons presented in this report, appear eligible for such listing.

**HISTORIC CONTEXT: DEVELOPMENT OF EL MONTE**

Located within the sphere of influence of Mission San Gabriel, established under Spanish rule in 1771, El Monte is situated on fertile plain located between the Rio Hondo and San Gabriel Rivers. The first Anglo settlers arrived in the mid-19th century, establishing a small community briefly known as Lexington. In 1866, the settlement was labeled a township by the State, and in 1868, the name "El Monte" was adopted. Agriculture was the backbone of the local economy.[5]

Early development in El Monte was spurred by the town's position along several transportation networks. El Monte was a stop along the Santa Fe Trail, which had connected the Missouri Territory to

[4] Public Resources Code Section 5024.1(a)
[5] The Planning Center, et al. "Chapter 9: Cultural Resources Element." *El Monte General Plan: Vision El Monte*. June 2011.

Santa Fe since 1821 and then was extended to Los Angeles. This route was incorporated into the Butterfield Stage line route, which linked Los Angeles to Riverside. The Southern Pacific Railroad came through town in 1873, facilitating the transport of both people and agricultural products. In 1907, El Monte became part of the vast urban railway system in Los Angeles and adjacent counties that was consolidated under the Pacific Electric company.[6]

In 1912, the city of El Monte was incorporated. Soon, its population topped 1,000, reaching 1,283 in 1920. Local farms raised walnuts, fruits, vegetables, and flowers and several dairies were established in the vicinity. A small, local-serving downtown had grown up along Main Street (now Valley Boulevard), west of Tyler. Several fruit and vegetable packing houses dotted the community.[7] Historic aerial photographs indicate that hundreds of acres of orchards and fields surrounded the downtown area.

In the 1930s, this pattern of use began to change, as the Depression caused the failure of many large farms, and many property owners either leased out small plots to tenant farmers or subdivided and sold their land.[8] A federal program, the El Monte Homesteads, conceived and financed by the Subsistence Homesteads Division of the Department of the Interior, built a demonstration project in El Monte that gained widespread attention. One of two such enterprises in Southern California (the other, smaller project was in the San Fernando Valley), this 100-acre development consisted of 100 small farms, each occupying approximately two thirds of an acre, with land set aside for a school, park, and community center. The underlying principle was that the carefully selected owner-residents would have sufficient land to raise crops for their own consumption while continuing to be employed part-time elsewhere. The homes were priced at $2,700 to $3,000 with a payment schedule devised according to each individual's ability to pay and did not vest for five years, to prevent speculation. The El Monte program was announced in March 1934 and Ross H. Gast of Los Angeles, an official of the Chamber of Commerce who had been promoting small farms as one way of coping with the national emergency, was selected to lead the effort. On the recommendation of the Los Angeles Regional Planning Office, who considered agricultural potential, employment and recreational opportunities, and transportation infrastructure, land containing walnut groves in the vicinity of Peck and Lower Azusa Roads was selected and acquired from the Killian estate and Minnie Joughlin. The property was cleared, leaving some walnut trees in place for the new owners, roads were laid out and water mains installed in the fall of 1934. Architect Joseph Weston of El Monte designed the farmhouses, which were built by Charles Dorfman. One hundred applicants, representing a range of occupations, were selected from the four to five thousand applications received. The homesteads, also known as Rurban Homesteads, were occupied in 1935.[9]

Towards the end of the 1930s, El Monte, like many Southern California communities, finally emerged from the Depression in no small measure due to the expanding defense industry, as factories manufacturing aircraft parts were located in the city. Following the end of World War II, El Monte expanded rapidly as a bedroom community, and much of the remaining farmland was developed with

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[6] *Ibid.*
[7] Sanborn Maps, "El Monte." 1920.
[8] "City of El Monte." www.ci.el-monte.ca.us/about
[9] *Los Angeles Times.* March 15, 1934. "Homestead Plans Laid;" April 8, 1934. "Well, We Got It Across! (Small Home Farm Idea . . .)" by Harold M. Finley; April 13, 1934. "Homestead Surveying Underway;" September 2, 1934. "Home Project Work Started;" March 31, 1935. "Subsistence Homestead Structures Take Form."

homes.[10] The population exploded, rising from approximately 10,000 in 1940 to the over 115,000 who count El Monte as their home today.[11]

**DESCRIPTION OF THE SUBJECT PROPERTY**

The older of the two buildings on the property, the residence (4712 Peck Road, according to the address on the house), is set far back (east) behind a fence, and is not visible from the street. A one-story, single-family farmhouse, it is lightly influenced by the Craftsman and American Colonial Revival styles in appearance. The wood-framed, rectangular plan building faces east, is topped by a low-pitched, side-gabled roof, and is clad primarily in vertical 1" by 12" boards and medium horizontal clapboards. Rafters are exposed in the eaves and an interior brick chimney, its top truncated, rises a little above the roofline. A partial width porch is centered on the façade (west elevation) and is topped by a shed roof that extends from the main body of the roof at a slightly lower pitch. The porch has been enclosed and a small, uncovered stoop, accessed by a ramp and a few steps, now leads to the entry. A security door has been installed in front of the six-panel door. Windows have been boarded over, but appear to be symmetrical in arrangement on the façade and placed for utility rather than symmetry on other elevations. Most windows are one-over-one, wood-framed, double-hung sash while a pair of six-light fixed sash illuminate the living room. A couple of windows have been replaced with aluminum sliders. Other exterior features include two gable-roofed bump-outs on the north elevation, rectangular louver vents in the gable end, simple wood window casings with slightly extended lintels and projecting sills, and the use of end boards to trim the siding. The interior contains a living and dining room, kitchen, three bedrooms and two bathrooms, mostly with standard or modified finishes. Painted paneling and a built-in bookcase and a stone fireplace whose surround has been painted are located in living room. The house is in deteriorated condition and is surrounded by dead trees and waist-high weeds.

Located adjacent to the sidewalk with a minimal, paved setback, the retail building, most recently used for tire sales, is one story, rectangular building whose front (west) portion is crowned by an exaggeratedly steep, side-gabled roof, the west slope of which reaches nearly down to the sidewalk. A low cement block wall, punctuated by equally low engaged plain cement columns, rises no more than two feet above the sidewalk to meet the roof eave. Composition covers this portion of the roof. No window or door openings face the street. Behind the front wing, the building is flat roofed. Roughly textured, non-original stucco sheathes the exterior walls on the west and north. The gable ends were originally covered in rustic wood boards; the wood is still apparent on the north but has been covered by the stucco on the south. The east and south elevations contain covered vehicular bays flanked by small, wood-sided interior spaces. Metal pole columns supporting a flat canopy top the bays. Another canopy, covered with the same stucco as the walls, shades windows on the north elevation. Fenestration appears to be largely non-original metal sliders. Alterations to this building are numerous, and probably include the rear portion of the building, which does not appear to be original, security grilles, replaced stucco and windows, rooftop air handling equipment, a cement block half wall projecting from the south elevation, and perhaps the cement block along the west elevation as well.[12] The building is surrounded by a paved surface parking area. The property is in poor condition.

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[10] The Planning Center, et al. "Chapter 9: Cultural Resources Element." *El Monte General Plan: Vision El Monte*. June 2011.
[11] "City of El Monte." www.ci.el-monte.ca.us/about
[12] The original building permit was for a 600-square foot building; the present building measures 2,094 square feet.

**HISTORY OF THE SUBJECT PROPERTY**

In 1924, Jonas E. Killian, an El Monte walnut farmer born in Texas in 1883, owned a 66-acre parcel in the Champion Tract at the southeast corner of Peck and Lower Azusa Roads that encompassed the subject property. Historic aerial photographs indicate that the property was used for groves, presumably walnut, in 1928, as was most of the surrounding area. Nearby parcels were owned by Ernest W. Killian and Oliver C. Killian, as well as others.

On February 10, 1933, California Farm Homes Company purchased J. E. Killian's land and subdivided a portion of it as Tract 9360. The following year, lot 23 of Tract 9360 was assessed to Sam and Gladys Ballard, who had applied to the County of Los Angeles in December 1933 for a permit to build a residence measuring 24 by 30 feet on the site. With an estimated cost of $2,000, the proposed building would have walls of 1 by 12 boards and a shingle roof. Sam Ballard, born in 1892 in Tennessee, had been living in Burbank and was the proprietor of a café. Two years later, in 1936, Frank Weidermann became the assessed owner. In 1940, Leroy V. Hoffmeister, born in 1904 in Minnesota, purchased the property and the 1940 census indicates he lived there with his wife Verna and two daughters. Hoffmeister was a traffic supervisor for the electric railway. The property address at that time was 1312 Peck Road. In 1944, George D. Brandon bought the property and he and his wife occupied the house for more than twenty years. A year after his purchase, Brandon applied for a permit to build a real estate office on the property. In 1955, the El Monte City Directory listed Brandon at 4710 Peck Road, which was also the address of Smart Realty, of which Brandon was co-proprietor. By 1971 (perhaps in 1968), Brandon had passed away, the City condemned and demolished the realty office, and his widow Rose sold the property.

In 1948, Brandon obtained a building permit to erect a 600-square foot building on the property intended for the "retail sales of ice cream products." The building was valued at $2,400. According to city directories, the building continued to be used for ice cream sales through the 1950s, for drive-through retail sales in the 1960s, and became a retail tire outlet in the 1980s.

**INTEGRITY**

The period of significance associated of the property is 1934, when the house was constructed, through 1971, when the property was sold by Rose Brandon. The property is characterized by impaired integrity to that period. Both buildings have been altered and no longer retain their original functions. In general, the house is more intact than the retail building. Each of the seven aspects of integrity is considered:

- Location. Both buildings were constructed on this site and thus the property retains integrity of location.

- Design. The house has been altered by the enclosure of the porch, modification of the front steps, addition of a ramp and a security door, and replacement of some windows and some interior finishes. The retail building appears to have non-original additions and its striking roof has been modified by the application of non-original material in the gable end. The property has compromised integrity of design.

- Setting. The property is located on a lot carved out of a former walnut grove. It is possible that, given the size of the parcel and the local interest in subsistence farming, the property had some agricultural use even after the house was constructed. Certainly, the surrounding neighborhood

has evolved, with commercial uses supplanting residential ones along Peck Road and the intense development that eliminated remaining agricultural space in the post-war years. The property has a diminished integrity of setting.

- Materials. See "Design," above. Both buildings have non-original materials. The resulting impact on the retail building is more severe than on the house. The property has compromised integrity of materials.

- Workmanship. Because of the general lack of design and, on the retail building in particular, the substitution of non-original materials, little integrity of workmanship is evident.

- Feeling. The house retains enough of its physical features from the period of significance to express its time period. Other than the distinctive roof, however, the retail building is so modified that it is confusing to view and is therefore unable to convey its time period.

- Association. Because of the size of the property, and the general neglect that has resulted in its currently overgrown state, combined with its unchanged proportions and remaining original materials, the house does retain some integrity of association. The retail building's original identity as a drive-through ice cream stand has been lost entirely. The property has compromised integrity of association.

**PREVIOUS EVALUATIONS**

As previously stated, the City of El Monte does not have a legal mechanism for the designation of local landmarks or historic districts. Neither has the City been systematically surveyed for historic resources with the results entered into the State's Historic Resources Inventory data file. El Monte listings in the data file are almost exclusively evaluations of properties completed in satisfaction of Section 106 of the National Historic Preservation Act as part of federal agencies' such as HUD (Housing and Urban Development) due diligence. The City's Cultural Resources Element of the General Plan does contain an itemized "Cultural Resources Index;" however, the subject property is not included on that list. The property has not been previously evaluated.

**EVALUATION**

The criteria for the National Register and California Register are closely aligned and are therefore considered together.

**Association with Significant Historic Patterns (A/1)**

The house was developed as part of general trend during the early Depression years that resulted in the break-up of large agricultural estates and the establishment subsistence homesteads as a means of combatting poverty, hunger, and ongoing worker migrations. Although the subject house was built in close proximity to the federal "El Monte [Rurban] Homesteads" development (which the Cultural Resources Element locates on The Wye Street, a short distance northeast of the subject property), it predated that program by at least a year and did not share its architect or builder. Use of the property for subsistence farming has not been confirmed. The subject property is not a significant example of this historic theme and therefore does not satisfy this criterion.

The retail building is representative of the transition of Peck Road into a commercial corridor associated with automobile traffic. Interstate 10, the San Bernardino Freeway, is located south of the subject property a few miles and was completed in the mid-1930s as the Ramona Boulevard highway and integrated into the interstate highway system in 1947. Peck Road, as an access route, became attractive for commercial development. It is likely that George Brandon thought to capitalize on his location in 1948 when he built the retail building. The drive-through component of the building has been lost. There is no evidence that suggests that the subject property was an early, important, or outstanding example of this historic theme. Moreover, the building has substantially compromised integrity. The subject property does not satisfy this criterion.

**Association with Significant Historic Persons (B/2)**

None of the property owners associated with the subject property between 1934 and 1971 is known to have made important contributions to local, state, or national history. Rather, they appear to be average citizens, born out of state and working at white collar occupations. For example, George D. Brandon, who was associated with the property the longest, was a real estate agent who was also the landlord of a retail ice cream establishment. The subject property does not satisfy this criterion.

**Distinctive Architecture or Association with a Master Architect or Designer (C/3)**

The house does not embody the distinctive architectural characteristics associated with any period, style, building type or engineering method. Rather, it is vernacular building type illustrative of the general influence of late Craftsman buildings (the exposed rafters in the eaves and the low pitch of the roof) and the ever present Colonial Revival (the vertical wood siding and the living room fireplace). The building materials were inexpensive, the floor plan straightforward, and architectural detail very limited. No master architect or designer was credited on the building permit; instead, owner Sam Ballard assumed these functions himself.

While the roof design of the retail building was intended to grab the attention of passing motorists, and exaggerated A-frame roofs would later gain notoriety as the symbols of restaurant chains such as Der Wienerschnitzel (first used in 1962), this example is not a particularly well executed or intact example of this architectural fashion. The Der Wienerschnitzel model generally incorporated deep eaves at the gable ends, the roof sloped equally downwards on both sides of the ridgeline, the roof ended higher off the ground, with exposed beams extending further downwards, and most examples incorporated a prominent drive-through feature. The subject property exhibits none of these features that contributed to the success of the later use of the A-frame building type. Moreover, the retail building's integrity has been compromised by additions and incompatible materials, further diluting its effectiveness. No architect or builder was credited on the building permit.

Neither building on the subject property is significant under this criterion.

**Potential to Yield Important Information in History or Pre-History (D/4)**

The buildings do not satisfy this criterion, which is generally applied to archaeological resources. No resources of an archaeological nature were observed during site inspection. The subject

property has been subject to ground disturbance through building construction and prior use as a walnut grove.

**Historic District Criteria**

No potential historic district was observed in the immediate vicinity of the subject property. Buildings along this section of Peck Road are a disparate collection of mostly small scale commercial buildings and surface parking that would appear to have little in common historically or aesthetically with the subject property.

**CONCLUSION**

This historic assessment has demonstrated that the house and retail building located on the subject property do not satisfy the criteria for designation under the National Register of Historic Places or California Register of Historical Resources designation programs. The subject property has not been recognized by the City of El Monte as a cultural resource. Therefore, the subject property and the buildings thereon are not a historical resource as defined by the California Environmental Quality Act.

**SOURCES**


Ancestry.com (U. S. Federal Census, 1910, 1920, 1930, 1940.; California Death Index; Find-A-Grave; City Directories).

books.google.com.
Carriker, Robert M. *Urban Farming in the West: A New Deal Experiment in Subsistence Homesteads*. University of Arizona Press, 2010.

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*Los Angeles Times*. Available through Proquest at lapl.org.
March 15, 1934. "Homestead Plans Laid"
April 8, 1934. "Well, We Got It Across! (Small Home Farm Idea . . .)" by Harold M. Finley.
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March 31, 1935. "Subsistence Homestead Structures Take Form."

Pacific Environmental Com. Phase I Environmental Site Assessment, 4704-4716 Peck Road, El Monte, CA 91732. March 19, 2014

The Planning Center, et al. "Chapter 9: Cultural Resources Element." *El Monte General Plan: Vision El Monte*. June 2011.

Sanborn Fire Insurance Maps, El Monte (1908, 1920, 1925, 1932; available at LAPL.org.).

State of California Office of Historic Preservation. March 15, 2011. "Directory of Properties in the Historic Property Data File for Los Angeles County." On file at the South Central Coastal Information Center, California State University, Fullerton.

# PHOTOGRAPHS

**March 10, 2015**

House, west elevation, view southeast.

House, west and south elevations, view northeast.

House, east elevation, view southwest.

House, south elevation, view north.

House, north elevation, view southeast.

House, west elevation enclosed porch, view southeast.

House, living room, view south.

House, kitchen, view east.

Retail Building, south elevation (west section), view north.

Retail Building, west elevation, view southeast.

Retail Building, north elevation (west section), view south.

Retail Building, north elevation (east section), view southeast

Retail Building, south elevation, view north.

Retail Building, east elevation, view west.

**South Central Coastal Information Center**
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Fullerton, CA 92834-6846
657.278.5395
*California Historical Resources Information System*
*Los Angeles, Orange, Ventura and San Bernardino Counties*
sccic@fullerton.edu

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10/12/2015 SCCIC File #: 15570.1681

Jennifer Kelley
Parker Environmental Consultants
23822 Valencia Blvd, Ste. 301
Valencia CA 91355

Re: Palo Verde Apartments Project

The South Central Coastal Information Center received your records search request for the project area referenced above, located on the El Monte, CA USGS 7.5' quadrangle. The following summary reflects the results of the records search for the project area and a ½-mile radius. The search includes a review of all recorded archaeological and built-environment resources as well as a review of cultural resource reports on file. In addition, the California Points of Historical Interest (SPHI), the California Historical Landmarks (SHL), the California Register of Historical Resources (CAL REG), the National Register of Historic Places (NRHP), and the California State Historic Properties Directory (HPD) listings were reviewed for the above referenced project site. Due to the sensitive nature of cultural resources, archaeological site locations are not released.

**RECORDS SEARCH RESULTS SUMMARY**

| | |
|---|---|
| **Archaeological Resources** | Within project area: 0<br>Within project radius: 0 |
| **Built-Environment Resources** | Within project area: 0<br>Within project radius: 0 |
| **Reports and Studies** | Within project area: 0<br>Within project radius: 6 |
| **OHP Historic Properties Directory (HPD)** | Within project area: 0<br>Within project radius: 28 |
| **California Points of Historical Interest (SPHI)** | Within project area: 0<br>Within project radius: 0 |
| **California Historical Landmarks (SHL)** | Within project area: 0<br>Within project radius: 0 |
| **California Register of Historical Resources (CAL REG)** | Within project area: 0<br>Within project radius: 0 |
| **National Register of Historic Places (NRHP)** | Within project area: 0<br>Within project radius: 0 |

**HISTORIC MAP REVIEW –** Pasadena, CA (1896, 1900) USGS 15': indicated that in 1896, there was little to no visible development within the project site; however, there were three roads and six buildings within the vicinity of the project area. The Rio Hondo River Wash was located to the north of the project site. The project site was located within the historic place name of San Francisquito. In 1900, all previously mentioned features remained.

**RECOMMENDATIONS**

The project area and most of the surrounding ½-mile radius has not been previously studied for the presence of cultural resources; consequently, the cultural resource sensitivity of the project site is unknown. Therefore, it is recommended that any buildings, structures or objects (45 years and older and in the area of potential effect) be identified, recorded, and evaluated for local, state, or national significance by a qualified consultant prior to the approval of project plans. Based on the findings of the qualified consultant, it may be necessary to monitor any ground-disturbing activities for potential buried cultural resources. Finally, the Native American Heritage Commission should be consulted to identify if any additional traditional cultural properties or other sacred sites are known to be in the area.

For your convenience, you may find a professional consultant* at www.chrisinfo.org. Any resulting reports by the qualified consultant should be submitted to the South Central Coastal Information Center as soon as possible.

*The SCCIC does not endorse any particular consultant and makes no claims about the qualifications of any person listed. Each consultant on this list self-reports that they meet current professional standards.

If you have any questions regarding the results presented herein, please contact the office at 657.278.5395 Monday through Thursday 9:00 am to 3:30 pm.

Should you require any additional information for the above referenced project, reference the SCCIC number listed above when making inquiries. Requests made after initial invoicing will result in the preparation of a separate invoice.

Thank you for using the California Historical Resources Information System,

Lindsey Noyes
Lead Staff Researcher

Enclosures:

(X) Invoice #15570.1681

*Due to processing delays and other factors, not all of the historical resource reports and resource records that have been submitted to the Office of Historic Preservation are available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search area. Additionally, Native American tribes have historical resource information not in the California Historical Resources Information System (CHRIS) Inventory, and you should contact the California Native American Heritage Commission for information on local/regional tribal contacts.*

*The California Office of Historic Preservation (OHP) contracts with the California Historical Resources Information System's (CHRIS) regional Information Centers (ICs) to maintain information in the CHRIS inventory and make it available to local, state, and federal agencies, cultural resource professionals, Native American tribes, researchers, and the public. Recommendations made by IC coordinators or their staff regarding the interpretation and application of this information are advisory only. Such recommendations do not necessarily represent the evaluation or opinion of the State Historic Preservation Officer in carrying out the OHP's regulatory authority under federal and state law.*

## APPENDIX D: GEOTECHNICAL INVESTIGATION

Geocon West, Inc., Geotechnical Investigation, Proposed Multi-Family Residential Development 4704-4716 Peck Road El Monte, California, dated April 17, 2014.

# GEOTECHNICAL INVESTIGATION

# PROPOSED MULTI-FAMILY RESIDENTIAL DEVELOPMENT 4704-4716 PECK ROAD EL MONTE, CALIFORNIA

GEOCON
WEST, INC.

GEOTECHNICAL
ENVIRONMENTAL
MATERIALS

**PREPARED FOR**

**HOLLYWOOD COMMUNITY HOUSING CORPORATION LOS ANGELES, CALIFORNIA**

**PROJECT NO. A9120-06-01**

**APRIL 17, 2014**

GEOCON
WEST, INC.
GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS

Project No. A9120-06-01
April 17, 2014

Hollywood Community Housing Corporation
5020 Santa Monica Boulevard
Los Angeles, CA 90029

Attention: Ms. Eleanor Atkins

Subject: GEOTECHNICAL INVESTIGATION
PROPOSED MULTI-FAMILY RESIDENTIAL DEVELOPMENT
4704-4716 PECK ROAD
EL MONTE, CALIFORNIA

Dear Ms. Atkins:

In accordance with your authorization of our proposal dated March 4, 2014, we have prepared this geotechnical investigation report for the proposed multi-family residential development to be located at 4704-4716 Peck Road in City of El Monte, California. The accompanying report presents the findings of our study, and our conclusions and recommendations pertaining to the geotechnical aspects of proposed design and construction. Based on the results of our investigation, it is our opinion that the site can be developed as proposed provided the recommendations in this report are followed and implemented during design and construction.

If you have any questions regarding this report, or if we may be of further service, please contact the undersigned.

Very truly yours,

**GEOCON WEST, INC.**

PROFESSIONAL GEOLOGIST
SUSAN FRANZEN KIRKGARD
No. 1754
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
NEAL D. BERLINER
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GEOTECHNICAL
STATE OF CALIFORNIA

Thai La
Staff Engineer

Susan F. Kirkgard
CEG 1754

Neal D. Berliner
GE 2576

(5 + CD) Addressee

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# GEOTECHNICAL INVESTIGATION

## 1. PURPOSE AND SCOPE

This report presents the results of a geotechnical investigation for the proposed multi-family residential development to be located at 4704-4716 Peck Road in the City of El Monte, California. (see Vicinity Map, Figure 1). The purpose of the investigation was to evaluate subsurface soil and geologic conditions underlying the site, and based on conditions encountered to provide conclusions and recommendations pertaining to the geotechnical aspects of proposed design and construction.

The scope of this investigation included a site reconnaissance, field exploration, laboratory testing, engineering analysis, and the preparation of this report. The site was explored on March 26, 2014 by excavating three 8-inch diameter borings utilizing a truck-mounted hollow-stem auger drilling machine to depths between 20½ and 50½ feet below the existing ground surface. Percolation testing for the design of a stormwater infiltration system was also performed in boring B3 on March 27, 2014. The approximate locations of the exploratory borings are depicted on the Site Plan (see Figure 2). A detailed discussion of the field investigation, including boring logs, is presented in Appendix A.

Laboratory tests were performed on selected soil samples obtained during the investigation to determine pertinent physical and chemical soil properties. Appendix B presents a summary of the laboratory test results.

The recommendations presented herein are based on analysis of the data obtained during the investigation and our experience with similar soil and geologic conditions. References reviewed to prepare this report are provided in the *List of References* section.

If project details vary significantly from those described above, Geocon should be contacted to determine the necessity for review and possible revision of this report.

## 2. SITE AND PROJECT DESCRIPTION

The subject site is located at 4704-4716 Peck Road in the City of El Monte, California. The site is an irregular-shaped parcel and is currently occupied by an on-grade single-story residential structure, single-story on-grade commercial structure, and asphalt paved parking areas which will be demolished for construction of the proposed development. The site is bounded by Peck Road on the west, by Ranchito Street and single-family residential structure on the south, by a single-story commercial building on the north, and single-family residential structures to the east. The site is roughly level and surface water drainage at the site appears to be by sheet flow along the existing ground contours toward the city streets. Vegetation on site consists of grasses, weeds, trees.

Based on the information provided to us by the client, it is our understanding that the proposed development will consist of a three-story, 49 unit, multi-family residential structure over one level of podium style parking to be constructed at or near existing grade. A preliminary development concept is depicted on the Site Plan (see Figure 2).

Due to the preliminary nature of the design at this time, it has been estimated that column loads for the proposed structures may be up to 500 kips. Wall loads are for the proposed structure may be up to 5 kips per linear foot.

Once the design phase and foundation loading configuration proceeds to a more finalized plan, the recommendations within this report should be reviewed and revised, if necessary. Any changes in the design, location or elevation of any structure, as outlined in this report, should be reviewed by this office. Geocon should be contacted to determine the necessity for review and possible revision of this report.

## 3. GEOLOGIC SETTING

The site is located in the central portion of the San Gabriel Valley, approximately 1.6 miles west of the San Gabriel River and approximately ½-mile south and 1 mile east of the Rio Hondo. The alluvial-filled San Gabriel Valley is bounded by the Sierra Madre Fault Zone and San Gabriel Mountains on the north, by the Puente Hills on the south, by the Covina and Indian Hills on the east, and by the Raymond Basin on the west. The alluvial deposits are derived from erosion of the San Gabriel Mountains to the north and subsequent deposition by the San Gabriel River and other drainages. The alluvium is estimated to be approximately 200 feet thick at the base of the mountains, and over 900 feet thick in the site vicinity. Regionally, the site is in the northern portion of the Peninsular Ranges geomorphic province near the southern boundary of the Transverse Ranges geomorphic province. The Peninsular Ranges is characterized by northwest-trending mountains, hills, alluviated valleys, and geologic structures such as the Whittier Fault Zone.

## 4. SOIL AND GEOLOGIC CONDITIONS

Based on our field investigation and published geologic maps of the area, the site is underlain by artificial fill and Holocene to latest Pleistocene age alluvium consisting of poorly consolidated sand, silt, and gravel (California Division of Mines and Geology [CDMG], 1998). The alluvium is classified as younger alluvial basin deposits (CDMG, 1998). Detailed stratigraphic profiles are provided on the boring logs in Appendix A.

### 4.1 Artificial Fill

Existing artificial fill was encountered during site exploration to a maximum depth of 1½ feet below the existing ground surface. The artificial fill generally consists of brown silty sand with varying amounts of gravel. The artificial fill is characterized as slightly moist and loose to medium dense. The fill is likely the result of past grading and construction activities at the site. Deeper fill may exist between excavations and in other portions of the site that were not directly explored.

### 4.2 Alluvium

The artificial fill is underlain by Holocene age alluvium that generally consists of light brown to dark yellowish brown sand, sand with silt, silty sand, and silt with varying amounts of fine to coarse gravel. The sand is predominantly fine-grained with locally coarse-grained beds, slightly moist, and medium dense to very dense. The alluvium generally exhibits increasing density with depth and was observed in our borings to a depth of 50½ feet beneath the existing ground surface (maximum depth explored).

## 5. GROUNDWATER

The California Geological Survey (CGS, formerly known as CDMG), indicates the historic high groundwater level in the site vicinity is approximately 20 feet beneath the existing ground surface (CDMG, 1998). Groundwater level information in the CDMG publication is based on data collected from the early 1900's to the late 1990's.

The closest active Los Angeles County groundwater monitoring well to the site is Well No. 2991R, located approximately 440 feet east of the site. Water level measurements in this well have been recorded from 1961 to 2013. The most recent water level measurement for this well indicates the depth to water was 136 feet (Elevation 191 MSL) on October 1, 2013. Based on the available monitoring data, groundwater levels in this well have been greater than 55 feet beneath the existing ground surface from 1969 to the most recent October 2013 measurement.

Groundwater was not encountered during our site explorations drilled to a maximum depth of 50½ feet beneath the existing ground surface. Based on the historic groundwater level data (CDMG, 1998; County of Los Angeles County, 2014) and the lack of groundwater in our borings at the site, groundwater is neither expected to be encountered during construction, nor have a detrimental effect on the project.

It is not uncommon for groundwater levels to vary seasonally or for groundwater seepage conditions to develop where none previously existed, especially in impermeable fine-grained soils which are heavily irrigated or after seasonal rainfall. In addition, recent requirements for stormwater infiltration could result in shallower seepage conditions in the region. Proper surface drainage of irrigation and precipitation will be critical for future performance of the project. Recommendations for drainage are provided in the S*urface Drainage* section of this report (see Section 7.19).

## 6. GEOLOGIC HAZARDS

### 6.1 Surface Fault Rupture

The numerous faults in Southern California include active, potentially active, and inactive faults. The criteria for these major groups are based on criteria developed by the CGS for the Alquist-Priolo Earthquake Fault Zone Program (Bryant and Hart, 2007). By definition, an active fault is one that has had surface displacement within Holocene time (about the last 11,000 years). A potentially active fault has

demonstrated surface displacement during Quaternary time (approximately the last 1.6 million years), but has had no known Holocene movement. Faults that have not moved in the last 1.6 million years are considered inactive.

The site is not within a currently established Alquist-Priolo Earthquake Fault Zone for surface fault rupture hazards (Bryant and Hart, 2007). No active or potentially active faults with the potential for surface fault rupture are known to pass directly beneath the site. Therefore, the potential for surface rupture due to faulting occurring beneath the site during the design life of the proposed development is considered low. The site, however, is located in the seismically active Southern California region, and could be subjected to moderate to strong ground shaking in the event of an earthquake on one of the many active Southern California faults. The faults in the vicinity of the site are shown in Figure 3, Regional Fault Map.

The nearest active fault to the site is Duarte Fault located 4.5 miles to the north (Ziony and Jones, 1989). Other nearby active faults are the Raymond Fault, the Sierra Madre Fault Zone, the Clamshell-Sawpit Fault Zone, the Whittier Fault, and the Verdugo Fault located approximately 4.6 miles northwest, 5.5 miles north, 5.7 miles north, 6.4 miles south, and 7.8 miles west-northwest of the site, respectively (Ziony and Jones, 1989). The active San Andreas Fault Zone is located approximately 25 miles northeast of the site.

The closest potentially active fault to the site is the Walnut Creek Fault located approximately 4.7 miles to the southeast (Ziony and Jones, 1989). Other nearby potentially active faults include the San Jose Fault, the Coyote Pass Fault, and the Indian Hill Fault located approximately 7.1 miles southwest, 8.4 miles west-southwest, and 8 miles east of the site, respectively (Ziony and Jones, 1989).

Several buried thrust faults, commonly referred to as blind thrusts, underlie the Los Angeles Basin at depth. These faults are not exposed at the ground surface and are typically identified at depths greater than 3.0 kilometers. The October 1, 1987 $M_w$ 5.9 Whittier Narrows earthquake, and the January 17, 1994 $M_w$ 6.7 Northridge earthquake were a result of movement on the buried thrust faults. These thrust faults are not exposed at the surface and do not present a potential surface fault rupture hazard; however, these active features are capable of generating future earthquakes. The Coyote Hills segment of the Puente Hills Blind Thrust Fault underlies the site at depth.

## 6.2 Seismicity

As with all of Southern California, the site has experienced historic earthquakes from various regional faults. The seismicity of the region surrounding the site was formulated based on research of an electronic database of earthquake data. The epicenters of recorded earthquakes with magnitudes equal to or greater than 4.0 within a radius of 60 miles of the site are depicted on Figure 4, Regional Seismicity Map. A partial list of earthquakes of moderate to major magnitude that have occurred in the Southern California area within the last 100 years is included in the following table.

**LIST OF HISTORIC EARTHQUAKES**

| Earthquake (Oldest to Youngest) | Date of Earthquake | Magnitude | Distance to Epicenter (Miles) | Direction to Epicenter |
|---|---|---|---|---|
| San Jacinto-Hemet area | April 21, 1918 | 6.8 | 63 | SE |
| Near Redlands | July 23, 1923 | 6.3 | 44 | SE |
| Long Beach | March 10, 1933 | 6.4 | 33 | S |
| Tehachapi | July 21, 1952 | 7.5 | 85 | NW |
| San Fernando | February 9, 1971 | 6.6 | 31 | NW |
| Whittier Narrows | October 1, 1987 | 5.9 | 4 | SW |
| Sierra Madre | June 28, 1991 | 5.8 | 12 | NNW |
| Landers | June 28, 1992 | 7.3 | 91 | E |
| Big Bear | June 28, 1992 | 6.4 | 68 | E |
| Northridge | January 17, 1994 | 6.7 | 31 | NW |

The site could be subjected to strong ground shaking in the event of an earthquake. However, this hazard is common in Southern California and the effects of ground shaking can be mitigated if the proposed structures are designed and constructed in conformance with current building codes and engineering practices.

## 6.3 Estimation of Peak Ground Acceleration

The seismic exposure of the site may be investigated in two ways. The deterministic approach recognizes the Maximum Earthquake, which is the theoretical maximum event that could occur along a fault. The deterministic method assigns a maximum earthquake to a fault derived from formulas that correlate the length and other characteristics of the fault trace to the theoretical maximum magnitude earthquake. The probabilistic method considers the probability of exceedance of various levels of ground motion and is calculated by consideration of risk contributions from regional faults.

### 6.3.1 Deterministic Analysis

Table 1 shows known faults within a 60 mile radius of the site. The maximum earthquake magnitude is indicated for each fault. In order to measure the distance of known faults to the site, the computer program *EQFAULT*, (Blake, 2000), was utilized. Principal references used within *EQFAULT* in selecting faults to be included are Jennings (1994), Anderson (1984) and Wesnousky (1986). For this investigation, the ground motion generated by maximum earthquakes on each of the faults is assumed to attenuate to the site per the attenuation relation by Sadigh et al. (1997) modeling the soil underlying the site as a Site Class “D”, as defined by CBC Table 1613.5.2. The resulting calculated peak horizontal accelerations at the site are shown on Table 1. These values are one standard deviation above the mean.

Using this methodology, the maximum earthquake resulting in the highest peak horizontal accelerations at the site would be a magnitude 6.5 event on the Raymond Fault. Such an event would be expected to generate peak horizontal accelerations at the site of 0.705g.

While listing of peak accelerations is useful for comparison of potential effects of fault activity in a region, other considerations are important in seismic design, including the frequency and duration of motion and the soil conditions underlying the site.

The site could be subjected to moderate to severe ground shaking in the event of a major earthquake on any of the faults referenced above or other faults in Southern California. With respect to seismic shaking, the site is considered comparable to the surrounding developed area.

### 6.3.2 Probabilistic Analysis

The computer program *FRISKSP* (Blake, 2000) was used to perform a site-specific probabilistic seismic hazard analysis. The program is a modified version of FRISK (McGuire, 1978) that models faults as lines to evaluate site-specific probabilities of exceedance for given horizontal accelerations for each line source. Geologic parameters not included in the deterministic analysis are included in this analysis. The program operates under the assumption that the occurrence rate of earthquakes on each mapped Quaternary fault is proportional to the faults' slip rate. The program accounts for fault rupture length as a function of earthquake magnitude, and site acceleration estimates are made using the earthquake magnitude and closest distance from the site to the rupture zone.

Uncertainty in each of following are accounted for: (1) earthquake magnitude, (2) rupture length for a given magnitude, (3) location of the rupture zone, (4) maximum magnitude of a given earthquake, and (5) acceleration at the site from a given earthquake along each fault. After calculating the expected accelerations from all earthquake sources, the program then calculates the total average annual expected number of occurrences of the site acceleration greater than a specified value. Attenuation relationships suggested by Sadigh et al. (1997) were utilized in the analysis.

The Maximum Considered Earthquake Ground Motion (MCE) is the level of ground motion that has a 2 percent chance of exceedance in 50 years, with a statistical return period of 2,500 years. According to the 2013 California Building Code and ASCE 7-10, the MCE is to be utilized for the design of critical structures such as schools and hospitals. The Design Earthquake Ground Motion (DE) is the level of ground motion that has a 10 percent chance of exceedance in 50 years, with a statistical return period of 475 years. The DE is typically used for the design of non-critical structures.

Based on the computer program *FRISKSP* (Blake, 2000), the MCE and DE is expected to generate ground motions at the site of approximately 0.90g and 0.58g, respectively. Graphical representation of the analysis is presented on Figure 5.

## 6.4 Seismic Design Criteria

The following table summarizes summarizes site-specific design criteria obtained from the 2013 California Building Code (CBC; Based on the 2012 International Building Code [IBC] and ASCE 7-10), Chapter 16 Structural Design, Section 1613 Earthquake Loads. The data was calculated using the computer program *U.S. Seismic Design Maps*, provided by the USGS. The short spectral response uses a period of 0.2 second. The values presented below are for the risk-targeted maximum considered earthquake ($MCE_R$).

**2013 CBC SEISMIC DESIGN PARAMETERS**

| Parameter | Value | 2013 CBC Reference |
|---|---|---|
| Site Class | D | Table 1613.3.2 |
| $MCE_R$ Ground Motion Spectral Response Acceleration – Class B (short), $S_S$ | 2.338g | Figure 1613.3.1(1) |
| $MCE_R$ Ground Motion Spectral Response Acceleration – Class B (1 sec), $S_1$ | 0.796g | Figure 1613.3.1(2) |
| Site Coefficient, $F_A$ | 1.0 | Table 1613.3.3(1) |
| Site Coefficient, $F_V$ | 1.5 | Table 1613.3.3(2) |
| Site Class Modified $MCE_R$ Spectral Response Acceleration (short), $S_{MS}$ | 2.338g | Section 1613.3.3 (Eqn 16-37) |
| Site Class Modified $MCE_R$ Spectral Response Acceleration – (1 sec), $S_{M1}$ | 1.194g | Section 1613.3.3 (Eqn 16-38) |
| 5% Damped Design Spectral Response Acceleration (short), $S_{DS}$ | 1.559g | Section 1613.3.4 (Eqn 16-39) |
| 5% Damped Design Spectral Response Acceleration (1 sec), $S_{D1}$ | 0.796g | Section 1613.3.4 (Eqn 16-40) |

The table below presents the mapped maximum considered geometric mean ($MCE_G$) seismic design parameters for projects located in Seismic Design Categories of D through F in accordance with ASCE 7-10.

**ASCE 7-10 PEAK GROUND ACCELERATION**

| Parameter | Value | ASCE 7-10 Reference |
|---|---|---|
| Mapped $MCE_G$ Peak Ground Acceleration, PGA | 0.831g | Figure 22-7 |
| Site Coefficient, $F_{PGA}$ | 1.0 | Table 11.8-1 |
| Site Class Modified $MCE_G$ Peak Ground Acceleration, $PGA_M$ | 0.831g | Section 11.8.3 (Eqn 11.8-1) |

Conformance to the criteria in the above tables for seismic design does not constitute any kind of guarantee or assurance that significant structural damage or ground failure will not occur if a large earthquake occurs. The primary goal of seismic design is to protect life, not to avoid all damage, since such design may be economically prohibitive.

## 6.5 Liquefaction Potential

Liquefaction is a phenomenon in which loose, saturated, relatively cohesionless soil deposits lose shear strength during strong ground motions. Primary factors controlling liquefaction include intensity and duration of ground motion, gradation characteristics of the subsurface soils, in-situ stress conditions, and the depth to groundwater. Liquefaction is typified by a loss of shear strength in the liquefied layers due to rapid increases in pore water pressure generated by earthquake accelerations.

The current standard of practice, as outlined in the "Recommended Procedures for Implementation of DMG Special Publication 117, Guidelines for Analyzing and Mitigating Liquefaction in California" and "Special Publication 117A, Guidelines for Evaluating and Mitigating Seismic Hazards in California" requires liquefaction analysis to a depth of 50 feet below the lowest portion of the proposed structure. Liquefaction typically occurs in areas where the soils below the water table are composed of poorly consolidated, fine to medium-grained, primarily sandy soil. In addition to the requisite soil conditions, the ground acceleration and duration of the earthquake must also be of a sufficient level to induce liquefaction.

A review of the State of California Seismic Hazard Zone Map for the El Monte Quadrangle (CDMG, 1999) indicates that the site is located in an area designated as "liquefiable". Also, according to the County of Los Angeles Seismic Safety Element (1990), the site is located within an area identified as having a potential for liquefaction.

Liquefaction analysis of the soils underlying the site was performed using the spreadsheet template LIQ2_30.WQ1 developed by Thomas F. Blake (1996). This program utilizes the 1996 NCEER method of analysis. The liquefaction potential evaluation was performed by utilizing the historic high groundwater table of 20 feet below the ground surface, a magnitude 6.5 earthquake, and a peak horizontal acceleration of 0.62g ($S_{DS}/2.5$). This semi-empirical method is based on a correlation between values of Standard Penetration Test (SPT) resistance and field performance data.

The enclosed liquefaction analyses, included herein for boring B2, indicates that a thin zone of the alluvial soils below a depth of 20 feet may be prone to liquefaction during the ($S_{DS}/2.5$) ground motion and approximately 0.2 inch of total settlement could be expected (see enclosed calculation sheets, Figures 6 and 7). Differential settlement at the ground surface is anticipated to be 0.10 inch over a distance of twenty feet.

## 6.6 Seismically-Induced Settlement

Dynamic compaction of dry and loose sands may occur during a major earthquake. Typically, settlements occur in thick beds of such soils. Based on the fine-grained nature of the existing fill and alluvial soils above the historic high groundwater table elevation, it is our opinion that the potential for appreciable seismically-induced settlements is very low.

## 6.7 Slope Stability

The topography at the site is relatively level and the site is not within an area identified as having a potential for seismic slope instability (CDMG, 1999). Additionally, according to the County of Los Angeles Seismic Safety Element (1990), the site is not located within a hillside area identified as having a potential for slope instability. No landslides have been identified at the site or in close proximity to the site. Also, the site is not in the path of any known or potential landslides. Therefore, the potential for slope stability hazards to adversely affect the proposed development is considered low.

## 6.8 Earthquake-Induced Flooding

Earthquake-induced flooding is inundation caused by failure of dams or other water-retaining structures due to earthquakes. Based on a review of the County of Los Angeles Seismic Safety Element (1990), the site is located within a potential inundation area for an earthquake-induced failure of the Santa Fe Dam. However, this dam, as well as others in California, are continually monitored by various governmental agencies (such as the State of California Division of Safety of Dams and the U.S. Army Corps of Engineers) to guard against the threat of dam failure. Current design and construction practices, and ongoing programs of review, modification, or total reconstruction of existing dams are intended to ensure that all dams are capable of withstanding the maximum considered earthquake (MCE) for the site. Therefore, the potential for inundation at the site as a result of an earthquake-induced dam failure is considered low.

## 6.9 Tsunami, Seiches and Flooding

The site is not located within a coastal area. Therefore, tsunamis, seismic sea waves, are not considered a significant hazard at the site.

Seiches are large waves generated in enclosed bodies of water in response to ground shaking. No major water-retaining structures are located immediately up gradient from the project site. Flooding from a seismically-induced seiche is considered unlikely.

The site is within an area of minimal flooding (Zone X) as defined by the Federal Emergency Management Agency (County of Los Angeles, 2014).

## 6.10 Oil Fields and Methane Potential

Based on a review of the California Division of Oil, Gas and Geothermal Resources (DOGGR) Oil and Gas Well Location Map W1-5, the site is not located within the boundaries of an oilfield. No oil wells are located in the immediate vicinity of the site. However, due to the voluntary nature of record reporting by the oil well drilling companies, wells may be improperly located or not shown on the location map. Undocumented wells could be encountered during construction. Any wells encountered will need to be properly abandoned in accordance with the current requirements of the DOGGR.

As previously indicated, the site is not located within an oilfield. Therefore, the potential for methane at the site is considered low. Should it be determined that a methane study is required for the proposed development it is recommended that a qualified methane consultant be retained to perform the study and provide mitigation measures as necessary.

### 6.11 Subsidence

Subsidence occurs when a large portion of land is displaced vertically, usually due to the withdrawal of groundwater, oil, or natural gas. Soils that are particularly subject to subsidence include those with high silt or clay content. The site is not located within an area of known ground subsidence. No large-scale extraction of groundwater, gas, oil, or geothermal energy is occurring or planned at the site or in the general site vicinity. There appears to be little or no potential for ground subsidence due to withdrawal of fluids or gases at the site.

## 7. CONCLUSIONS AND RECOMMENDATIONS

### 7.1 General

7.1.1 It is our opinion that neither soil nor geologic conditions were encountered during the investigation that would preclude the construction of the proposed development provided the recommendations presented herein are followed and implemented during construction.

7.1.2 Up to 1½ feet of existing artificial fill was encountered during site exploration. The existing fill encountered is believed to be the result of past grading and/or construction activities at the site. Deeper fill may exist in other areas of the site that were not directly explored. Future demolition of the existing structures and improvements which occupy the site is anticipated to disturb the upper few feet of existing site soils. It is our opinion that the existing fill, in its present condition, is not suitable for direct support of proposed foundations or slabs. The existing fill and site soils are suitable for re-use as engineered fill provided the recommendations in the *Grading* section of this report are followed (see Section 7.4).

7.1.3 The enclosed seismically induced settlement analyses indicate that the site soils could be prone to settlement of 0.20 inch of total settlement as a result of $S_{DS}/2.5$ ground motion. Differential settlement at the ground surface is anticipated to be 0.10 inch over a distance of twenty feet.

7.1.4 Based on these considerations, it is recommended that the proposed structure be supported on a conventional shallow spread foundation system deriving support on a blanket of newly placed engineered fill. Proposed foundations should be underlain by at least two feet of newly placed engineered fill. As a minimum, the upper five feet of existing earth materials within the proposed building footprint area should be excavated and properly compacted for foundation and slab support. Any encountered deeper artificial fill or unsuitable soft soil should be completely over-excavated as necessary at the direction of the Geocon representative. The excavation should

extend laterally a minimum distance of three feet beyond the building footprint area or a distance equal to the depth of fill below the foundation, whichever is greater. Grading should be conducted as necessary to maintain a minimum of two feet of engineered fill beneath foundations. Recommendations for earthwork are provided in the *Grading* section of this report (see Section 7.4).

7.1.5 It is recommended that the exposed excavation bottom be proof-rolled with heavy equipment in the presence of the Geotechnical Engineer (a representative of Geocon) prior to placing fill.

7.1.6 It is anticipated that stable excavations for the recommended grading associated with the proposed structure can be achieved with sloping measures. However, if excavations in close proximity to an adjacent property line and/or structure are required, special excavation measures may be necessary in order to maintain lateral support for offsite improvements. Excavation recommendations are provided in the *Temporary Excavations* section of this report (Section 7.17).

7.1.7 Foundations for small outlying structures, such as block walls up to 6 feet high, planter walls or trash enclosures, which will not be tied to the proposed structure, may be supported on conventional foundations bearing on a minimum of 12 inches of newly placed engineered fill which extends laterally at least 12 inches beyond the foundation area. Where excavation and proper compaction cannot be performed or is undesirable, foundations may derive support directly in the undisturbed alluvial soils found at or below a depth of 18 inches, and should be deepened as necessary to maintain a minimum 12 inch embedment into the recommended bearing materials. If the soils exposed in the excavation bottom are soft or loose, compaction of the soils will be required prior to placing steel or concrete. Compaction of the foundation excavation bottom is typically accomplished with a compaction wheel or mechanical whacker and must be observed and approved in writing by a Geocon representative.

7.1.8 Where new paving is to be placed, it is recommended that all existing fill and soft alluvial soils be excavated and properly compacted for paving support. The client should be aware that excavation and compaction of all existing fill and soft alluvial soils in the area of new paving is not required; however, paving constructed over existing uncertified fill or unsuitable alluvial soil may experience increased settlement and/or cracking, and may therefore have a shorter design life and increased maintenance costs. As a minimum, the upper twelve inches of subgrade soil should be scarified and properly compacted for paving support. Paving recommendations are provided in *Preliminary Pavement Recommendations* section of this report (see Section 7.11).

7.1.9 Based on the results of percolation testing performed at the site, a stormwater infiltration system is considered feasible for this project. Recommendations for infiltration are provided in the *Stormwater Infiltration* section of this report (see Section 7.18).

7.1.10 Once the design and foundation loading configuration proceeds to a more finalized plan, the recommendations within this report should be reviewed and revised, if necessary. If the proposed building loads will exceed those presented herein, the potential for settlement should be reevaluated by this office.

7.1.11 Any changes in the design, location or elevation of improvements, as outlined in this report, should be reviewed by this office. Geocon should be contacted to determine the necessity for review and possible revision of this report.

## 7.2 Soil and Excavation Characteristics

7.2.1 The in-situ soils can be excavated with moderate effort using conventional excavation equipment. Some caving should be anticipated in unshored excavations, especially where granular soils are encountered.

7.2.2 It is the responsibility of the contractor to ensure that all excavations and trenches are properly shored and maintained in accordance with applicable OSHA rules and regulations to maintain safety and maintain the stability of adjacent existing improvements.

7.2.3 All onsite excavations must be conducted in such a manner that potential surcharges from existing structures, construction equipment, and vehicle loads are resisted. The surcharge area may be defined by a 1:1 projection down and away from the bottom of an existing foundation or vehicle load. Penetrations below this 1:1 projection will require special excavation measures such as sloping and possibly shoring. If necessary, shoring can be provided in an addendum letter. Excavation recommendations are provided in the *Temporary Excavations* section of this report (see Section 7.17).

7.2.4 The existing upper site soils encountered during this investigation are considered to have a “very low” expansive potential (EI = 2) and are classified as “non-expansive” in accordance with the 2013 California Building Code (CBC) Section 1803.5.3. The recommendations in this report assume that foundations and slabs will derive support in materials with a “very low” expansive potential.

## 7.3 Minimum Resistivity, pH and Water-Soluble Sulfate

7.3.1 Potential of Hydrogen (pH) and resistivity testing as well as chloride content testing were previously performed on representative samples of the site soils to generally evaluate the corrosion potential of buried utilities. The tests were performed in accordance with California Test Method Nos. 643 and 422 and indicate that the soil are considered "moderately corrosive" with respect to corrosion of buried ferrous metals exists on site. The results are presented in Appendix B (Figure B7) and should be considered for design of underground structures.

7.3.2 Laboratory tests were performed on representative samples of the site soils to measure the percentage of water-soluble sulfate content. Results from the laboratory water-soluble sulfate tests are presented in Appendix B (Figure B7) and indicate that the soils at the proposed foundation level possess "negligible" sulfate exposure to concrete structures as defined by 2010 CBC Section 1904.3 and ACI 318-08 Sections 4.2 and 4.3.

7.3.3 Geocon West, Inc. does not practice in the field of corrosion engineering and mitigation. If corrosion sensitive improvements are planned, it is recommended that a corrosion engineer be retained to evaluate corrosion test results and incorporate the necessary precautions to avoid premature corrosion of buried metal pipes and concrete structures in direct contact with the soils.

## 7.4 Grading

7.4.1 A preconstruction conference should be held at the site prior to the beginning of grading operations with the owner, contractor, civil engineer and geotechnical engineer in attendance. Special soil handling requirements can be discussed at that time.

7.4.2 Earthwork should be observed, and compacted fill tested by representatives of Geocon West, Inc. The existing fill and alluvial soil encountered during exploration are suitable for re-use as an engineered fill, provided any encountered oversize material (greater than 6 inches) and any encountered deleterious debris are removed.

7.4.3 Grading should commence with the removal of all existing vegetation and existing improvements from the area to be graded. Deleterious debris such as wood and root structures should be exported from the site and should not be mixed with the fill soils. Asphalt and concrete should not be mixed with the fill soils unless approved by the Geotechnical Engineer. All existing underground improvements planned for removal should be completely excavated and the resulting depressions properly backfilled in accordance with the procedures described herein. Once a clean excavation bottom has been established it must be observed and approved in writing by the Geotechnical Engineer (a representative of Geocon West, Inc.).

7.4.4 As a minimum, the upper five feet of existing earth materials within the proposed building footprint area should be excavated and properly compacted for foundation and slab support. Deeper excavations should be conducted as necessary to completely remove all existing artificial fill or soft alluvial soil at the direction of the Geotechnical Engineer (a representative of Geocon). Proposed foundations should be underlain by at least two feet of newly placed engineered fill. The excavation should extend laterally a minimum distance of three feet beyond the building footprint area or a distance equal to the depth of fill below the foundation, whichever is greater. Grading should be conducted as necessary to maintain a minimum of two feet of engineered fill beneath foundations. The limits of existing fill and/or soft alluvial soils removal will be verified by the Geocon representative during site grading activities.

7.4.5 Prior to placing the initial lift of engineered fill, the excavation bottom must be proof-rolled with heavy equipment in the presence of the Geotechnical Engineer (a representative of Geocon West, Inc.) and approved in writing.

7.4.6 All fill and backfill soils should be placed in horizontal loose layers approximately 6 to 8 inches thick, moisture conditioned to near optimum moisture content, and properly compacted to a minimum of 90 percent of the maximum dry density per ASTM D 1557 (latest edition).

7.4.7 It is anticipated that stable excavations for the recommended grading associated with the proposed structure can be achieved with sloping measures. However, if excavations in close proximity to an adjacent property line and/or structure are required, special excavation measures may be necessary in order to maintain lateral support of the existing offsite improvements. Excavation recommendations are provided in the *Temporary Excavations* section of this report (Section 7.17).

7.4.8 Prior to construction of exterior slabs and paving, the upper 12 inches of the subgrade should be moisture conditioned to near optimum moisture content and properly compacted to at least 95 percent relative compaction, as determined by ASTM Test Method D 1557 (latest edition).

7.4.9 Foundations for small outlying structures, such as block walls up to 6 feet high, planter walls or trash enclosures, which will not be tied to the proposed structure, may be supported on conventional foundations bearing on a minimum of 12 inches of newly placed engineered fill which extends laterally at least 12 inches beyond the foundation area. Where excavation and proper compaction cannot be performed or is undesirable, foundations may derive support directly in the undisturbed alluvial soils found at or below a depth of 18 inches, and should be deepened as necessary to maintain a minimum 12 inch embedment into the recommended bearing materials. If the soils exposed in the excavation bottom are soft or loose, compaction of the soils will be required prior to placing steel or concrete. Compaction of the foundation excavation bottom is typically accomplished with a compaction wheel or mechanical whacker and must be observed and approved in writing by a Geocon representative.

7.4.10 Utility trenches should be properly backfilled in accordance with the requirements of the Green Book (latest edition). The pipe should be bedded with clean sands (Sand Equivalent greater than 30) to a depth of at least one foot over the pipe, and the bedding material must be inspected and approved in writing by the Geotechnical Engineer (a representative of Geocon). The use of gravel is not acceptable unless used in conjunction with filter fabric to prevent the gravel from having direct contact with soil. The remainder of the trench backfill may be derived from onsite soil or approved import soil, compacted as necessary, until the required compaction is obtained. The use of minimum 2-sack slurry is also acceptable. Prior to placing any bedding materials or pipes, the trench excavation bottom must be observed and approved in writing by the Geotechnical Engineer (a representative of Geocon).

7.4.11 Where new paving is to be placed, it is recommended that all existing fill and soft alluvial soils be excavated and properly compacted for paving support. The client should be aware that excavation and compaction of all existing fill and soft soils in the area of new paving is not required; however, paving constructed over existing uncertified fill or unsuitable alluvial soil may experience increased settlement and/or cracking, and may therefore have a shorter design life and increased maintenance costs. As a minimum, the upper twelve inches of soil should be scarified, moisture conditioned to optimum moisture content, and compacted to at least 95 percent relative compaction for paving support. Paving recommendations are provided in *Preliminary Pavement Recommendations* section of this report (see Section 7.11).

7.4.12 Import soils will likely be required to maintain site elevations during grading. All imported fill shall be observed, tested, and approved by Geocon West, Inc. prior to bringing soil to the site. Rocks larger than six inches in diameter shall not be used in the fill. Import soils used as structural fill should have an expansion index less than 20 and corrosivity properties that are equally or less detrimental to that of the existing onsite soils (see Figure B7). Import soils placed in the building area should be placed uniformly across the building pad or in a manner that is approved by the Geotechnical Engineer (a representative of Geocon).

7.4.13 All trench and foundation excavation bottoms must be observed and approved in writing by the Geotechnical Engineer (a representative of Geocon), prior to placing bedding sands, fill, steel, gravel, or concrete.

## 7.5 Shrinkage

Shrinkage results when a volume of material removed at one density is compacted to a higher density. A shrinkage factor of between 10 and 25 percent should be anticipated when excavating and compacting the upper 5 feet of existing earth materials on the site to an average relative compaction of 92 percent.

## 7.6 Foundation Design

7.6.1 Subsequent to the recommended grading, a conventional shallow spread foundation system may be utilized for support of the proposed structure provided foundations derive support in newly placed engineered fill. Foundations should be underlain by a minimum of two feet of newly placed engineered fill.

7.6.2 Continuous footings may be designed for an allowable bearing capacity of 2,700 pounds per square foot, and should be a minimum of 12 inches in width, 18 inches in depth below the lowest adjacent grade, and 12 inches into the recommended bearing material.

7.6.3 Isolated spread foundations may be designed for an allowable bearing capacity of 3,000 pounds per square foot, and should be a minimum of 24 inches in width, 18 inches in depth below the lowest adjacent grade, and 12 inches into the recommended bearing material.

7.6.4 The soil bearing pressure above may be increased by 200 psf and 300 psf for each additional foot of foundation width and depth, respectively, up to a maximum allowable soil bearing value of 4,000 pounds per square foot.

7.6.5 The allowable bearing pressure may be increased by up to one-third for transient loads due to wind or seismic forces.

7.6.6 Continuous footings should be reinforced with a minimum of four No. 4 steel reinforcing bars, two placed near the top of the footing and two near the bottom. Reinforcement for spread footings should be designed by the project structural engineer.

7.6.7 If depth increases are utilized for the exterior wall footings, this office should be provided a copy of the final construction plans so that the excavation recommendations presented herein could be properly reviewed and revised if necessary. Additional grading should be performed as necessary in order to maintain the required two-foot-thick engineered fill blanket beneath building foundations.

7.6.8 The above foundation dimensions and minimum reinforcement recommendations are based on soil conditions and building code requirements only, and are not intended to be used in lieu of those required for structural purposes.

7.6.9 No special subgrade presaturation is required prior to placement of concrete. However, the slab and foundation subgrade should be sprinkled as necessary; to maintain a moist condition as would be expected in any concrete placement.

7.6.10 Foundation excavations should be observed and approved in writing by the Geotechnical Engineer (a representative of Geocon West, Inc.), prior to the placement of reinforcing steel and concrete to verify that the exposed soil conditions are consistent with those anticipated. If unanticipated soil conditions are encountered, foundation modifications may be required.

7.6.11 This office should be provided a copy of the final construction plans so that the excavation recommendations presented herein could be properly reviewed and revised if necessary.

## 7.7 Miscellaneous Foundations

7.7.1 Foundations for small outlying structures, such as block walls up to 6 feet in height, planter walls or trash enclosures, which will not be tied-in to the proposed structure, may be supported on conventional foundations bearing on a minimum of 12 inches of newly placed engineered fill which extends laterally at least 12 inches beyond the foundation area. Where excavation and compaction cannot be performed, such as adjacent to property lines, foundations may derive support in the undisturbed alluvium found at or below a depth of 18 inches, and should be deepened as necessary to maintain a minimum 12 inch embedment into the recommended bearing material.

7.7.2 If the soils exposed in the excavation bottom are soft, compaction of the soft soils will be required prior to placing steel or concrete. Compaction of the foundation excavation bottom is typically accomplished with a compaction wheel or mechanical whacker and must be observed and approved by a Geocon representative. Miscellaneous foundations may be designed for a bearing value of 1,500 pounds per square foot, and should be a minimum of 12 inches in width, 18 inches in depth below the lowest adjacent grade and 12 inches into the recommended bearing material. The allowable bearing pressure may be increased by up to one-third for transient loads due to wind or seismic forces.

7.7.3 Foundation excavations should be observed and approved in writing by the Geotechnical Engineer (a representative of Geocon West, Inc.), prior to the placement of reinforcing steel and concrete to verify that the excavations and exposed soil conditions are consistent with those anticipated.

## 7.8 Foundation Settlement

7.8.1 The enclosed seismically-induced settlement calculations indicate that the alluvial soils underlying the site could be prone to 0.20 inches of total settlement during $S_{DS}/2.5$ ground motion. The differential settlement at the ground surface is anticipated to be less than 0.10 inch over a distance of twenty feet. These settlements are in addition to the static settlements indicated below and must be considered in the structural design.

7.8.2 The maximum expected settlement for the structure supported on a conventional foundation system with a maximum allowable soil bearing pressure of 4,000 psf is estimated to be less than 1 inch and occur below the heaviest loaded structural element. Differential static settlement is not expected to exceed ½ inch over a distance of twenty feet.

7.8.3 Based on seismic considerations, the proposed structure supported on a conventional foundation system should be designed for a combined static and seismically induced differential settlement of ¾ inch over a distance of twenty feet.

7.8.4 Once the design and foundation loading configurations for the proposed structures proceeds to a more finalized plan, the estimated settlements presented in this report should be reviewed and revised, if necessary. If the final foundation loading configurations are greater than the assumed loading conditions (column loads of up to 500 kips, wall loads of up to 5 kips per linear foot), the potential for settlement should be reevaluated by this office.

## 7.9 Lateral Design

7.9.1 Resistance to lateral loading may be provided by friction acting at the base of foundations, slabs and by passive earth pressure. An allowable coefficient of friction of 0.40 may be used with the dead load forces in the properly compacted engineered fill and in the competent alluvium found at or below a depth of 18 inches below the existing ground surface.

7.9.2 Passive earth pressure for the sides of foundations and slabs poured against properly compacted engineered fill and the undisturbed alluvium found at or below a depth of 18 inches may be computed as an equivalent fluid having a density of 260 pcf with a maximum earth pressure of 2,600 pcf. When combining passive and friction for lateral resistance, the passive component should be reduced by one-third.

## 7.10 Concrete Slabs-on-Grade

7.10.1 Concrete slabs-on-grade subject to vehicle loading should be designed in accordance with the recommendations in the *Preliminary Pavement Recommendations* section of this report (Section 7.11).

7.10.2 Subsequent to the recommended grading, concrete slabs-on-grade for structures, not subject to vehicle loading, should be a minimum of 4-inches thick and minimum slab reinforcement should consist of No. 3 steel reinforcing bars placed 18 inches on center in both horizontal directions. Steel reinforcing should be positioned vertically near the slab midpoint.

7.10.3 Slabs that may receive moisture-sensitive floor coverings or may be used to store moisture-sensitive materials should be underlain by a vapor retarder placed directly beneath the slab. The vapor retarder used should be specified by the project architect or developer based on the type of floor covering that will be installed. The vapor retarder design should be consistent with the guidelines presented in Section 9.3 of the American Concrete Institute's (ACI) *Guide for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials* (ACI 302.2R-06) and should be installed in general conformance with ASTM E 1643-98 and the manufacturer's recommendations. If LA City Green Code requirements apply to this project, the vapor retarder should be underlain by 4 inches of ½-inch clean aggregate and the vapor retarder should be in direct contact with the concrete slab. It is important that the vapor retarder be puncture resistant since it will be in direct contact with angular gravel. As an alternative to the clean aggregate suggested in the Green Building Code, it is our opinion that the concrete slab-on-grade may be underlain by a vapor retarder over 4-inches of clean sand (sand equivalent greater than 30), since the sand will serve a capillary break and will minimize the potential for punctures and damage to the vapor barrier.

7.10.4 For seismic design purposes, a coefficient of friction of 0.40 may be utilized between concrete slabs and subgrade soil without a moisture barrier, and 0.15 for slabs underlain by a moisture barrier.

7.10.5 Exterior slabs, not subject to traffic loads, should be at least 4 inches thick and reinforced with No. 3 steel reinforcing bars placed 18 inches on center in both horizontal directions, positioned near the slab midpoint. Prior to construction of slabs, the upper 12 inches of subgrade should be moisture conditioned to optimum moisture content and properly compacted to at least 95 percent relative compaction, as determined by ASTM Test Method D 1557 (latest edition). Crack control joints should be spaced at intervals not greater than 10 feet and should be constructed using saw-cuts or other methods as soon as practical following concrete placement. Crack control joints should extend a minimum depth of one-fourth the slab thickness. The project structural engineer should design construction joints as necessary.

7.10.6 The recommendations of this report are intended to reduce the potential for cracking of slabs due to settlement. However, even with the incorporation of the recommendations presented herein, foundations, stucco walls, and slabs-on-grade may exhibit some cracking due to minor soil movement or concrete shrinkage. The occurrence of concrete shrinkage cracks is independent of the supporting soil characteristics. Their occurrence may be reduced or controlled by limiting the slump of the concrete, proper concrete placement and curing, and by the placement of crack control joints at periodic intervals, in particular, where re-entrant slab corners occur.

## 7.11 Preliminary Pavement Recommendations

7.11.1 Where new paving is to be placed, it is recommended that all existing fill and alluvial materials be excavated and properly recompacted for paving support. The client should be aware that excavation and compaction of all existing artificial fill and soft alluvium in the area of new paving is not required; however, paving constructed over existing uncertified fill or unsuitable alluvial material may experience increased settlement and/or cracking, and may therefore have a shorter design life and increased maintenance costs. As a minimum, the upper twelve inches of paving subgrade should be scarified, moisture conditioned to optimum moisture content, and properly compacted to at least 95 percent relative compaction, as determined by ASTM Test Method D 1557 (latest edition).

7.11.2 The following pavement sections are based on an assumed R-Value of 30. Once site grading activities are complete an R-Value should be obtained by laboratory testing to confirm the properties of the soils serving as paving subgrade, prior to placing pavement.

7.11.3 The Traffic Indices listed below are estimates. Geocon does not practice in the field of traffic engineering. The actual Traffic Index for each area should be determined by the project civil engineer. If pavement sections for Traffic Indices other than those listed below are required, Geocon should be contacted to provide additional recommendations. Pavement thicknesses were determined following procedures outlined in the *California Highway Design Manual* (Caltrans). It is anticipated that the majority of traffic will consist of automobile and large truck traffic.

**PRELIMINARY PAVEMENT DESIGN SECTIONS**

| Location | Estimated Traffic Index (TI) | Asphalt Concrete (inches) | Class 2 Aggregate Base (inches) |
|---|---|---|---|
| Automobile Parking And Driveways | 5.0 | 3.0 | 5.5 |
| Trash Truck & Fire Lanes | 7.0 | 4.0 | 10.0 |

7.11.4 Asphalt concrete should conform to Section 203-6 of the "*Standard Specifications for Public Works Construction*" (Green Book). Class 2 aggregate base materials should conform to Section 26-1.02A of the "*Standard Specifications of the State of California, Department of Transportation*" (Caltrans). Crushed Miscellaneous Base should conform to Section 200-2.4 of the "*Standard Specifications for Public Works Construction*" (Green Book).

7.11.5 Unless specifically designed and evaluated by the project structural engineer, where exterior concrete paving will be utilized for support of vehicles, it is recommended that the concrete be a minimum of 6 inches of concrete reinforced with No. 3 steel reinforcing bars placed 18 inches on center in both horizontal directions. Concrete paving supporting vehicular traffic should be

underlain by a minimum of 4 inches of aggregate base and a properly compacted subgrade. The subgrade and base material should be compacted to 95 percent relative compaction as determined by ASTM Test Method D 1557 (latest edition).

7.11.6 The performance of pavements is highly dependent upon providing positive surface drainage away from the edge of pavements. Ponding of water on or adjacent to the pavement will likely result in saturation of the subgrade materials and subsequent cracking, subsidence and pavement distress. If planters are planned adjacent to paving, it is recommended that the perimeter curb be extended at least 12 inches below the bottom of the aggregate base to minimize the introduction of water beneath the paving.

## 7.12 Retaining Walls Design

7.12.1 The recommendations presented below are generally applicable to the design of rigid concrete or masonry retaining walls having a maximum height of 5 feet. In the event that walls significantly higher than 5 feet are planned, Geocon should be contacted for additional recommendations.

7.12.2 Retaining wall foundations may be designed in accordance with the recommendations provided in the *Foundation Design* section of this report (see Section 7.6).

7.12.3 Retaining walls with a level backfill surface that are not restrained at the top should be designed utilizing a triangular distribution of pressure (active pressure) of 30 pcf.

7.12.4 Restrained walls are those that are not allowed to rotate more than 0.001H (where H equals the height of the retaining portion of the wall in feet) at the top of the wall. Where walls are restrained from movement at the top, walls may be designed utilizing a triangular distribution of pressure (at-rest pressure) of 50 pcf.

7.12.5 The wall pressures provided above assume that the retaining wall will be properly drained preventing the buildup of hydrostatic pressure. If retaining wall drainage is not implemented, the equivalent fluid pressure to be used in design of undrained walls is 90 pcf. The value includes hydrostatic pressures plus buoyant lateral earth pressures.

7.12.6 Additional active pressure should be added for a surcharge condition due to sloping ground, vehicular traffic or adjacent structures and should be designed for each condition as the project progresses.

7.12.7 Seismic lateral forces should be incorporated into the design as necessary, and recommendations for seismic lateral forces are presented below.

## 7.13 Dynamic (Seismic) Lateral Forces

7.13.1 In accordance with the 2013 California Building Code, if the project possesses a seismic design category of D, E, or F, the proposed retaining walls should be designed with seismic lateral pressure. The structural engineer should determine the seismic design category for the project. The maximum dynamic active pressure is equal to the sum of the initial static pressure and the dynamic (seismic) pressure increment.

7.13.2 The seismic lateral earth pressure on unbraced retaining walls is applied to check the overall sliding resistance of the structure. Braced retaining walls should be designed for the greater of either the at-rest earth pressure or the maximum dynamic (seismic) lateral earth pressure (sum of the initial static active pressure and the dynamic (seismic) pressure increment).

7.13.3 The application of seismic loading should be performed at the discretion of the project Structural Engineer and in accordance with the requirements of the Building Officials. If seismic loading is to be applied, we recommend a seismic load of 37 pounds per cubic foot be used for design applied as a triangular distribution of pressure along the wall height. This dynamic (seismic) pressure increment is for horizontal backfill behind the wall and does not account for an inclined backfill surface. The seismic pressure is based on a ground acceleration of 0.62 ($S_{DS}$/2.5 ground motion) and by applying a pseudo-static coefficient of 0.5.

## 7.14 Retaining Wall Drainage

7.14.1 Retaining walls should be provided with a drainage system extended at least two-thirds the height of the wall. At the base of the drain system, a subdrain covered with a minimum of 12 inches of gravel should be installed, and a compacted fill blanket or other seal placed at the surface (see Figure 8). The clean bottom and subdrain pipe, behind a retaining wall, should be observed by the Geotechnical Engineer (a representative of Geocon), prior to placement of gravel or compacting backfill.

7.14.2 Subdrainage pipes at the base of the retaining wall drainage system should outlet to an acceptable location via controlled drainage structures.

7.14.3 Moisture affecting below grade walls is one of the most common post-construction complaints. Poorly applied or omitted waterproofing can lead to efflorescence or standing water. Particular care should be taken in the design and installation of waterproofing to avoid moisture problems, or actual water seepage through any normal shrinkage cracks which may develop in the walls, foundations and/or construction joints. The design and inspection of the waterproofing is not the responsibility of the geotechnical engineer. A waterproofing consultant should be retained in order to recommend a product or method, which would provide protection to subterranean walls, floor slabs and foundations.

## 7.15 Elevator Pit Design

7.15.1 The elevator pit slab and retaining wall should be designed by the project structural engineer. As a minimum the slab-on-grade should be at least 4 inches thick and reinforced with No. 3 steel reinforcing bars placed 18 inches on center in both horizontal directions, positioned near the slab midpoint. Elevator pit walls may be designed in accordance with the recommendations in the *Foundation Design and Retaining Wall Design* section of this report (see Sections 7.6 and 7.12).

7.15.2 The elevator slab and retaining wall footings may derive support in either newly placed engineered fill or the alluvial soils found in the elevator pit excavation bottom. If the soils exposed in the pit excavation bottom are soft, compaction of the soft soils will be required prior to placing steel or concrete. Provided retaining walls are properly drained, walls not restrained at the top and having a level backfill surface should be designed utilizing an equivalent fluid pressure of 30 pounds per cubic foot. The equivalent fluid pressure to be used in design of the non-drained elevator pit retaining walls would be 90 pounds per cubic foot. The value includes hydrostatic pressures plus buoyant lateral earth pressures.

7.15.3 Additional active pressure should be added for a surcharge condition due to vehicular traffic or adjacent foundations and should be designed for each condition as the project progresses.

7.15.4 If retaining wall drainage is to be provided, the drainage system should be designed in accordance with the *Retaining Wall Drainage* section of this report (see Section 7.14).

7.15.5 It is suggested that the exterior walls and slab be waterproofed to prevent excessive moisture inside of the elevator pit. Waterproofing design and installation is not the responsibility of the geotechnical engineer.

## 7.16 Elevator Piston

7.16.1 If a plunger-type elevator piston is installed for this project, a deep drilled excavation will be required. It is important to verify that the drilled excavation is not situated immediately adjacent to a foundation, or the drilled excavation could compromise the existing foundation support.

7.16.2 Casing may be required if caving is experienced in the drilled excavation. The contractor should be prepared to use casing and should have it readily available at the commencement of drilling activities. Continuous observation of the drilling and installation of the elevator piston by the Geotechnical Engineer (a representative of Geocon West, Inc.) is required.

7.16.3 The annular space between the piston casing and drilled excavation wall should be filled with a minimum of 1½-sack slurry pumped from the bottom up. As an alternative, pea gravel may be utilized. The use of soil to backfill the annular space is not acceptable.

## 7.17 Temporary Excavations

7.17.1 Excavations on the order of 5 feet in vertical height may be required for the proposed on-grade structure. The excavations are expected to expose fill and alluvial soils, which may not be suitable for vertical excavations due to the presence of caving sands. Vertical excavation up to 5 feet may be attempted where not surcharged by adjacent traffic or structures.

7.17.2 Vertical excavations greater than five feet or where surcharged by existing structures will require sloping. It is anticipated that sufficient space is available to complete the required earthwork for this project using sloping measures. Where sufficient space is available, temporary unsurcharged embankments could be sloped back at a uniform 1:1 slope gradient or flatter. A uniform slope does not have a vertical portion.

7.17.3 Where sloped embankments are utilized, the top of the slope should be barricaded to prevent vehicles and storage loads at the top of the slope within a horizontal distance equal to the height of the slope. If the temporary construction embankments are to be maintained during the rainy season, berms are suggested along the tops of the slopes where necessary to prevent runoff water from entering the excavation and eroding the slope faces. The soils exposed in the cut slopes should be inspected during excavation by our personnel so that modifications of the slopes can be made if variations in the soil conditions occur. All excavations should be stabilized within 30 days of initial excavation.

## 7.18 Stormwater Infiltration

7.18.1 During the March 26, 2013 site exploration, boring B3 was utilized to perform percolation testing. The boring was advanced to the depths listed in the table below. Slotted casing was placed in the boring, and the annular space between the casing and excavation was filled with filter pack. The boring was then filled with water to pre-saturate the soils. On March 27, 2013, the casing was refilled with water and percolation test readings were performed after repeated flooding of the cased excavation. Based on the test results, the average infiltration rate (adjusted percolation rate) for the earth materials encountered is listed in the following table.

| Boring | Infiltration Depth (ft.) | Average Infiltration Rate (in / hour) |
|---|---|---|
| B3 | 10-20½ | 3.40 |

7.18.2 The results of the percolation testing indicate that the soils at depths in the above table are conductive to infiltration. It is our opinion that the soil zone encountered at the depth and location as listed in the table above are suitable for infiltration of stormwater and will not induce excessive hydro-consolidation, will not create a perched groundwater condition, will not affect soil structure interaction of existing or proposed foundations due to expansive soils, will not saturate soils supported by existing or proposed retaining walls, and will not increase the potential for liquefaction. Resulting settlements are anticipated to be less than ¼ inch, if any.

7.18.3 Where infiltration systems will be utilized, it is recommended that a minimum ten foot horizontal and vertical setback be maintained from existing or proposed foundations. Additional property line or foundation setbacks may be required by the governing jurisdiction and should be incorporated into the stormwater infiltration system design as necessary.

7.18.4 Subsequent to the placement of the infiltration system, it is acceptable to backfill the resulting void space between the excavation side walls and the infiltration system with minimum two-sack slurry provided the slurry is not placed in the infiltration zone. It is recommended that pea gravel, or approved granular material, be utilized adjacent to the infiltration zone so communication of water to the soil is not hindered.

7.18.5 Due to the preliminary nature of the project at this time, the type of stormwater infiltration system and location of the stormwater infiltration systems has not yet been determined. The design drawings should be reviewed and approved by the Geotechnical Engineer. The installation of the stormwater infiltration system should be observed and approved by the Geotechnical Engineer (a representative of Geocon).

## 7.19 Surface Drainage

7.19.1 Proper surface drainage is critical to the future performance of the project. Uncontrolled infiltration of irrigation excess and storm runoff into the soils can adversely affect the performance of the planned improvements. Saturation of a soil can cause it to lose internal shear strength and increase its compressibility, resulting in a change in the original designed engineering properties. Proper drainage should be maintained at all times.

7.19.2 All site drainage should be collected and controlled in non-erosive drainage devices. Drainage should not be allowed to pond anywhere on the site, and especially not against any foundation or retaining wall. The site should be graded and maintained such that surface drainage is directed away from structures in accordance with 2013 CBC 1804.3 or other applicable standards. In addition, drainage should not be allowed to flow uncontrolled over any descending slope. The proposed structure should be provided with roof gutters. Discharge from downspouts, roof drains and scuppers not recommended onto unprotected soils within five feet of the building perimeter.

Planters which are located adjacent to foundations should be sealed to prevent moisture intrusion into the engineered fill providing foundation support. Landscape irrigation is not recommended within five feet of the building perimeter footings except when enclosed in protected planters.

7.19.3 Positive site drainage should be provided away from structures, pavement, and the tops of slopes to swales or other controlled drainage structures. The building pad and pavement areas should be fine graded such that water is not allowed to pond.

7.19.4 Landscaping planters immediately adjacent to paved areas are not recommended due to the potential for surface or irrigation water to infiltrate the pavement's subgrade and base course. Either a subdrain, which collects excess irrigation water and transmits it to drainage structures, or an impervious above-grade planter boxes should be used. In addition, where landscaping is planned adjacent to the pavement, it is recommended that consideration be given to providing a cutoff wall along the edge of the pavement that extends at least 12 inches below the base material.

## 7.20 Plan Review

7.20.1 Grading, foundation, and shoring plans should be reviewed by the Geotechnical Engineer (a representative of Geocon West, Inc.), prior to finalization to verify that the plans have been prepared in substantial conformance with the recommendations of this report and to provide additional analyses or recommendations.

## LIMITATIONS AND UNIFORMITY OF CONDITIONS

1. The recommendations of this report pertain only to the site investigated and are based upon the assumption that the soil conditions do not deviate from those disclosed in the investigation. If any variations or undesirable conditions are encountered during construction, or if the proposed construction will differ from that anticipated herein, Geocon West, Inc. should be notified so that supplemental recommendations can be given. The evaluation or identification of the potential presence of hazardous or corrosive materials was not part of the scope of services provided by Geocon West, Inc.

2. This report is issued with the understanding that it is the responsibility of the owner, or of his representative, to ensure that the information and recommendations contained herein are brought to the attention of the architect and engineer for the project and incorporated into the plans, and the necessary steps are taken to see that the contractor and subcontractors carry out such recommendations in the field.

3. The findings of this report are valid as of the present date. However, changes in the conditions of a property can occur with the passage of time, whether they are due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation or the broadening of knowledge. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control. Therefore, this report is subject to review and should not be relied upon after a period of three years.

## LIST OF REFERENCES


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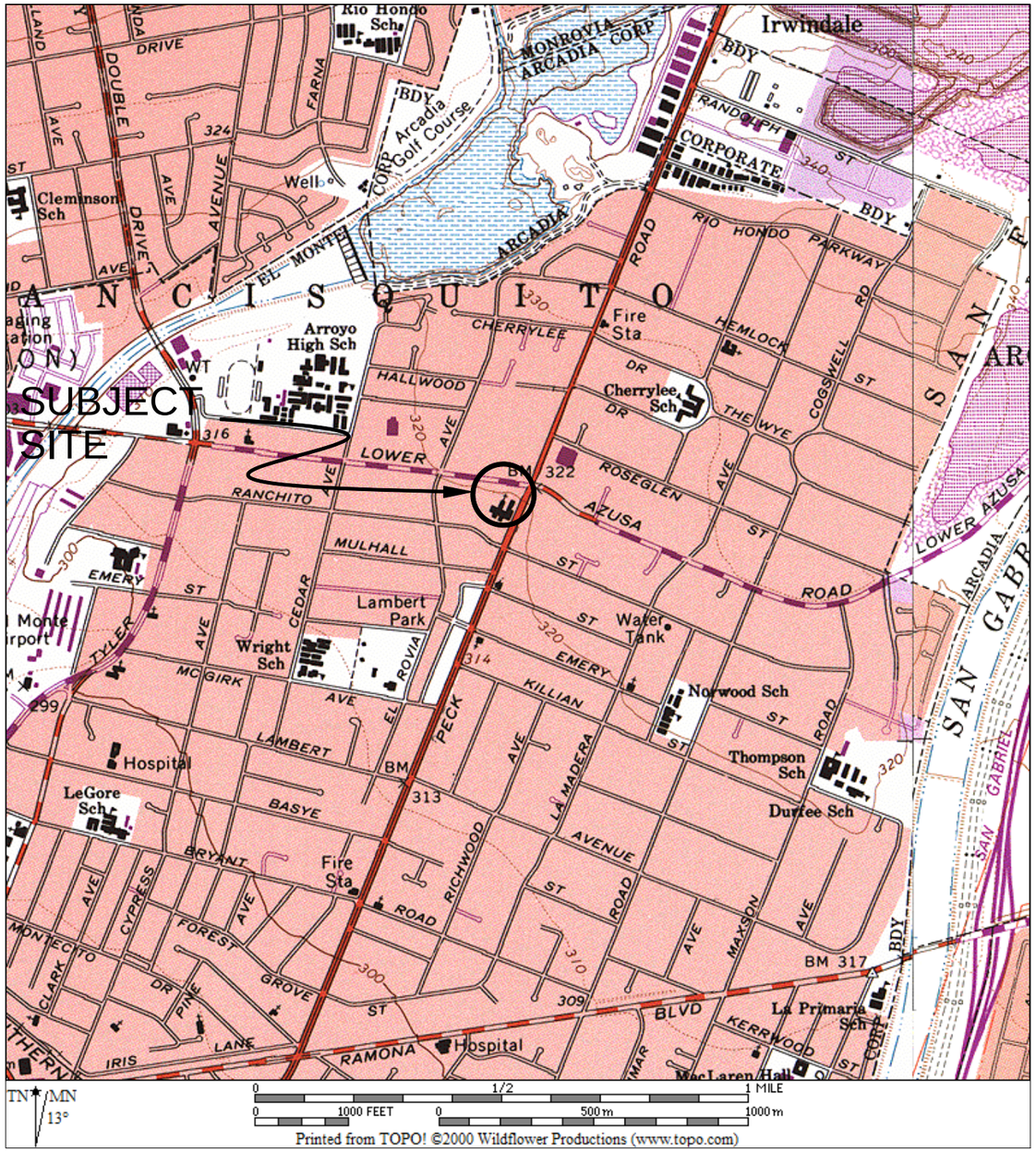


REFERENCE:U.S.G.S. TOPOGRAPHIC MAPS, 7.5 MINUTE SERIES, BEVERLY HILLS, CA QUADRANGLE

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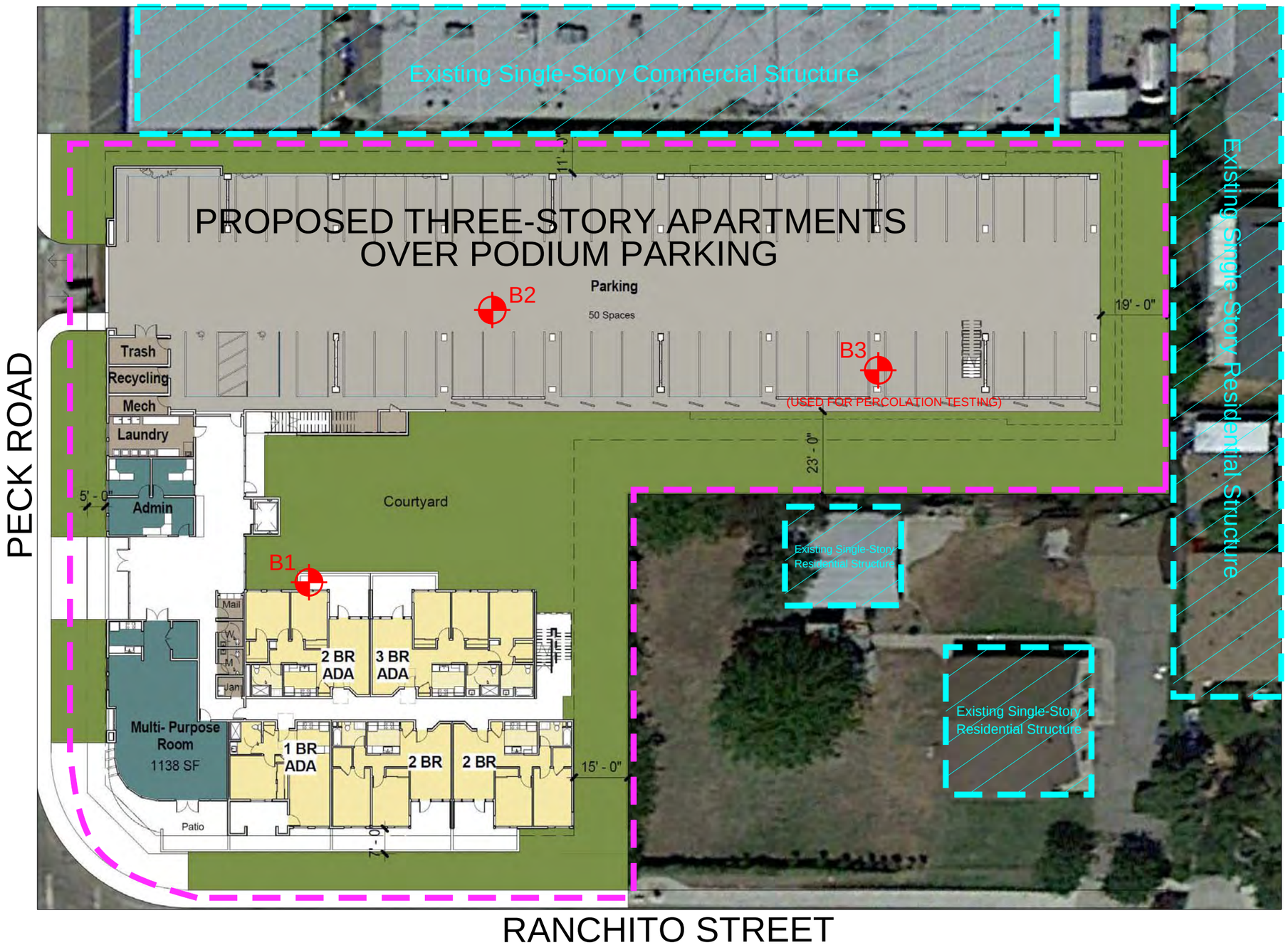
# VICINITY MAP

HOLLYWOOD COMMUNITY HOUSING CORPORATION
4704-4716 PECK ROAD
EL MONTE, CALIFORNIA

| | | |
|---|---|---|
| APRIL 17, 2014 | PROJECT NO. A9120-06-01 | FIG. 1 |




## LEGEND

B3 Approximate Location of Boring

Approximate Limits of Proposed Development

Approximate Limits of Existing Structure

0 30' 60'

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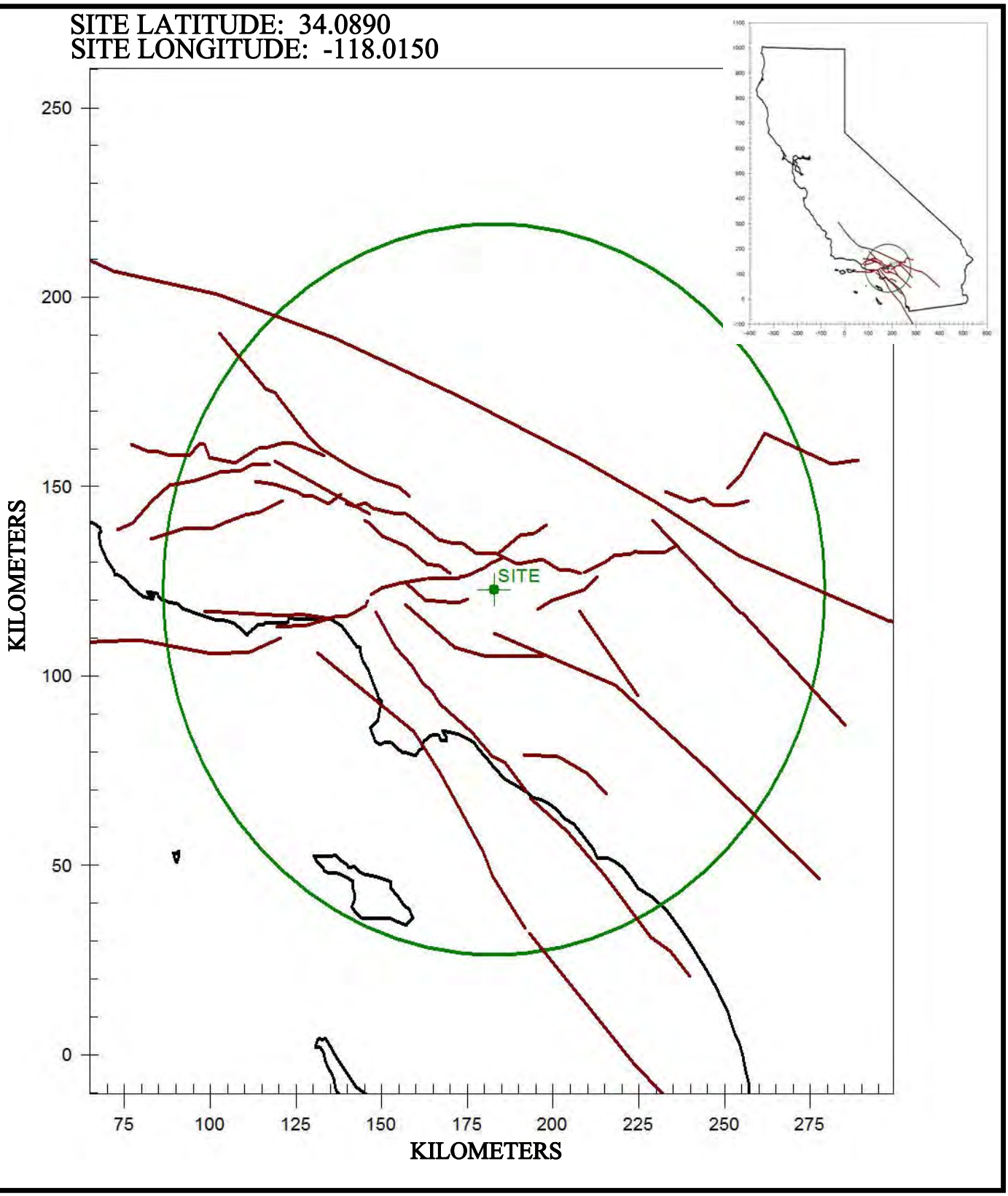
## SITE PLAN

HOLLYWOOD COMMUNITY HOUSING CORPORATION
4704-4716 PECK ROAD
EL MONTE, CALIFORNIA

| APRIL 17, 2014 | PROJECT NO. A9120-06-01 | FIG. 2 |
|---|---|---|

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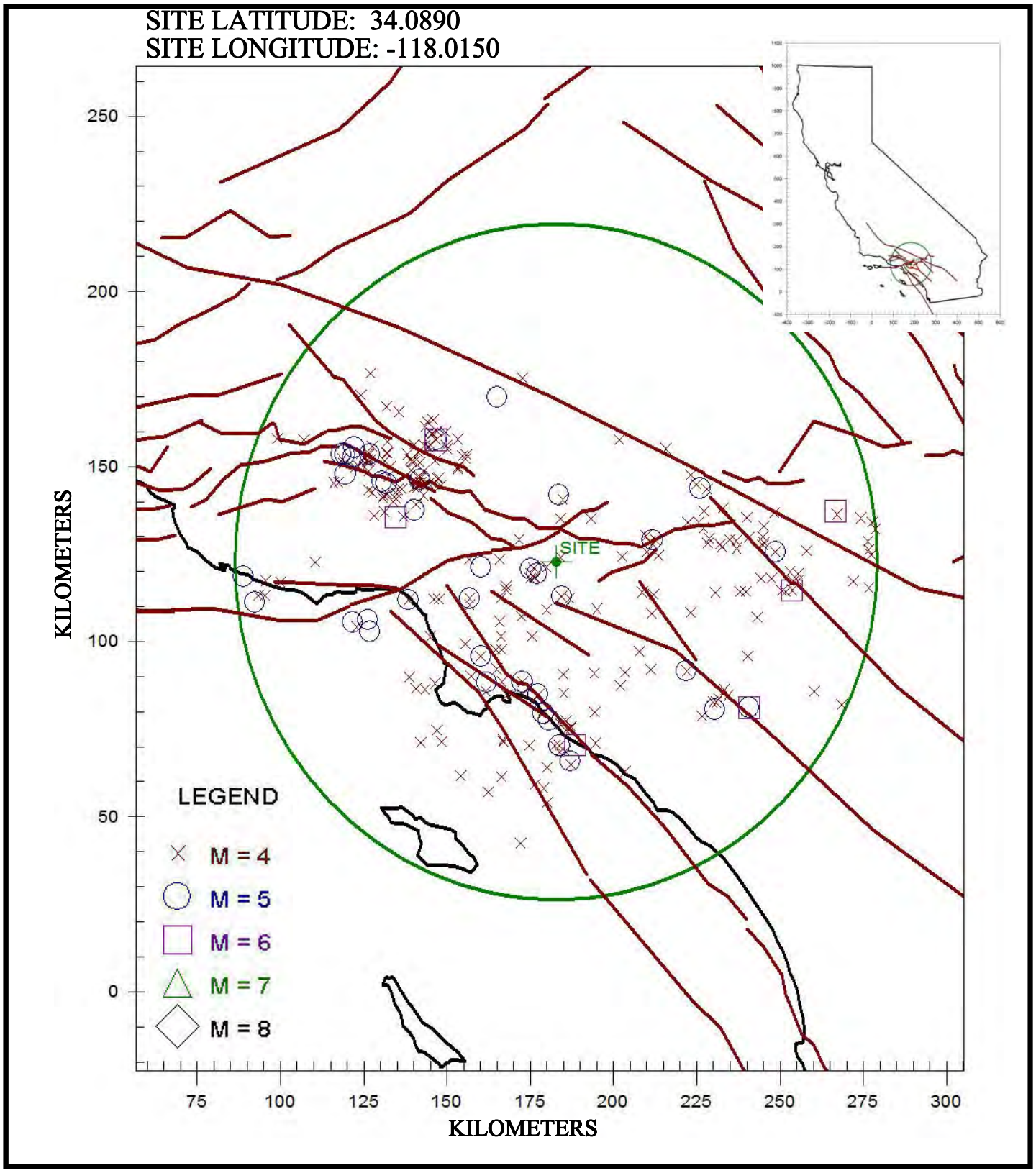
# REGIONAL FAULT MAP

HOLLYWOOD COMMUNITY HOUSING CORPORATION

4704-4716 PECK ROAD

EL MONTE, CALIFORNIA

| | | |
|---|---|---|
| APRIL 17, 2014 | PROJECT NO. A9120-06-01 | FIG. 3 |

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|---|---|---|

# REGIONAL SEISMICITY MAP

HOLLYWOOD COMMUNITY HOUSING CORPORATION

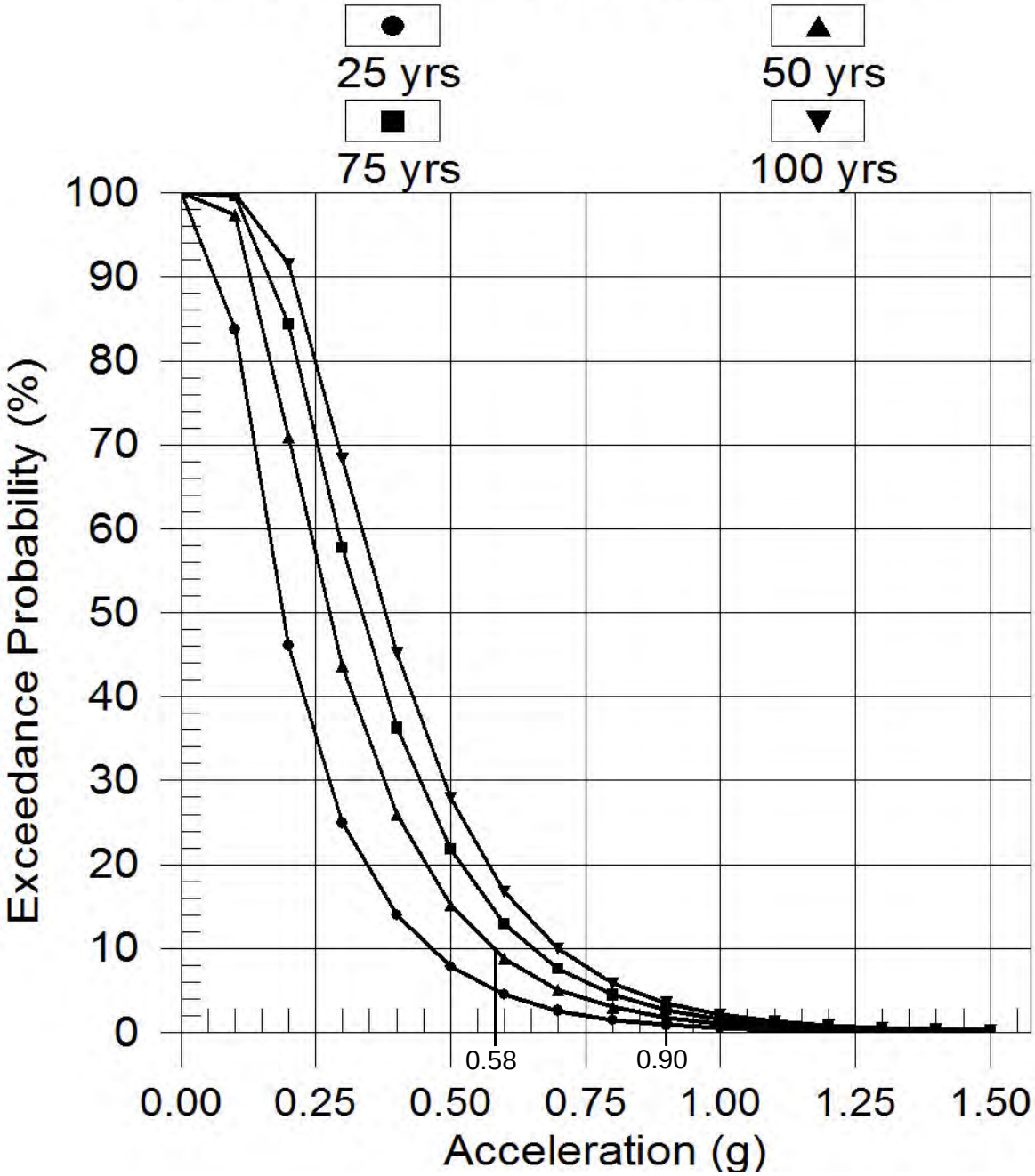
4704-4716 PECK ROAD

EL MONTE, CALIFORNIA

| APRIL 17, 2014 | PROJECT NO. A9120-06-01 | FIG. 4 |
|---|---|---|

# PROBABILITY OF EXCEEDANCE

## SADIGH ET AL. (1997) DEEP SOIL 1





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| | | |
|---|---|---|
| AL | | 8000 |

PROBABILITY OF EXCEEDANCE

HOLLYWOOD COMMUNITY HOUSING CORPORATION

4704-4716 PECK ROAD

EL MONTE, CALIFORNIA

| | | |
|---|---|---|
| APRIL 17, 2014 | PROJECT NO. A9120-06-01 | FIG. 5 |

GEOCON

Client: Hollywood Community Housing Corp
File No. A9120-06-01
Boring 2

# EMPIRICAL ESTIMATION OF LIQUEFACTION POTENTIAL

NCEER (1996) METHOD
By Thomas F. Blake (1994-1996)
LIQ2_30.WQ1

EARTHQUAKE INFORMATION:

| | |
|---|---|
| Earthquake Magnitude: | 6.5 |
| Peak Horiz. Acceleration (g): | 0.62 |
| Calculated Mag.Wtg.Factor: | 0.697 |
| Historic High Groundwater: | 20.0 |
| Groundwater Depth During Exploration | 100.0 |

ENERGY & ROD CORRECTIONS:

| | |
|---|---|
| Energy Correction (CE) for N60: | 1.25 |
| Rod Len.Corr.(CR)(0-no or 1-yes) | 1.0 |
| Bore Dia. Corr. (CB): | 1.00 |
| Sampler Corr. (CS): | 1.20 |
| Use Ksigma (0 or 1): | 1.0 |

LIQUEFACTION CALCULATIONS:

Unit Wt. Water (pcf): 62.4

| Depth to Base (ft) | Total Unit Wt. (pcf) | Water (0 or 1) | FIELD SPT (N) | Depth of SPT (ft) | Liq.Sus. (0 or 1) | -200 (%) | Est. Dr (%) | CN Factor | Corrected (N1)60 | Eff. Unit Wt. (psf) | Resist. CRR | rd Factor | Induced CSR | Liquefac. Safe.Fact. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.0 | 120.0 | 0 | 5.0 | 5.0 | 1 | 83 | 49 | 2.000 | 18.3 | 120.0 | 0.198 | 0.998 | 0.280 | -- |
| 2.0 | 120.0 | 0 | 5.0 | 5.0 | 1 | 83 | 49 | 2.000 | 18.3 | 120.0 | 0.198 | 0.993 | 0.279 | -- |
| 3.0 | 120.0 | 0 | 5.0 | 5.0 | 1 | 83 | 49 | 2.000 | 18.3 | 120.0 | 0.198 | 0.989 | 0.278 | -- |
| 4.0 | 120.0 | 0 | 5.0 | 5.0 | 1 | 83 | 49 | 2.000 | 18.3 | 120.0 | 0.198 | 0.984 | 0.276 | -- |
| 5.0 | 120.0 | 0 | 5.0 | 5.0 | 1 | 83 | 49 | 1.966 | 18.1 | 120.0 | 0.196 | 0.979 | 0.275 | -- |
| 6.0 | 120.0 | 0 | 5.0 | 5.0 | 1 | 83 | 49 | 1.779 | 17.0 | 120.0 | 0.185 | 0.975 | 0.274 | -- |
| 7.0 | 120.0 | 0 | 7.0 | 10.0 | 1 | 81 | 52 | 1.636 | 19.9 | 120.0 | 0.217 | 0.970 | 0.272 | -- |
| 8.0 | 120.0 | 0 | 7.0 | 10.0 | 1 | 81 | 52 | 1.523 | 19.0 | 120.0 | 0.207 | 0.966 | 0.271 | -- |
| 9.0 | 120.0 | 0 | 7.0 | 10.0 | 1 | 81 | 52 | 1.431 | 18.3 | 120.0 | 0.199 | 0.961 | 0.270 | -- |
| 10.0 | 120.0 | 0 | 7.0 | 10.0 | 1 | 81 | 52 | 1.353 | 17.7 | 120.0 | 0.192 | 0.957 | 0.269 | -- |
| 11.0 | 120.0 | 0 | 7.0 | 10.0 | 1 | 81 | 52 | 1.287 | 17.1 | 120.0 | 0.186 | 0.952 | 0.267 | -- |
| 12.0 | 120.0 | 0 | 7.0 | 10.0 | 1 | 81 | 52 | 1.230 | 16.7 | 120.0 | 0.182 | 0.947 | 0.266 | -- |
| 13.0 | 120.0 | 0 | 7.0 | 10.0 | 1 | 81 | 52 | 1.180 | 16.3 | 120.0 | 0.177 | 0.943 | 0.265 | -- |
| 14.0 | 120.0 | 0 | 7.0 | 10.0 | 1 | 17 | 52 | 1.135 | 11.7 | 120.0 | 0.128 | 0.938 | 0.263 | -- |
| 15.0 | 120.0 | 0 | 11.0 | 15.0 | 1 | 17 | 60 | 1.095 | 17.4 | 120.0 | 0.189 | 0.934 | 0.262 | -- |
| 16.0 | 120.0 | 0 | 11.0 | 15.0 | 1 | 17 | 60 | 1.060 | 16.9 | 120.0 | 0.184 | 0.929 | 0.261 | -- |
| 17.5 | 120.0 | 0 | 11.0 | 15.0 | 1 | 17 | 60 | 1.019 | 16.4 | 120.0 | 0.178 | 0.923 | 0.259 | -- |
| 18.0 | 120.0 | 0 | 14.0 | 20.0 | 1 | 61 | 63 | 1.004 | 25.9 | 120.0 | 0.297 | 0.919 | 0.258 | -- |
| 19.0 | 120.0 | 0 | 14.0 | 20.0 | 1 | 61 | 63 | 0.970 | 25.2 | 120.0 | 0.286 | 0.915 | 0.257 | -- |
| 20.0 | 120.0 | 1 | 14.0 | 20.0 | 1 | 61 | 63 | 0.945 | 24.8 | 57.6 | 0.278 | 0.911 | 0.259 | 1.07 |
| 21.0 | 120.0 | 1 | 28.0 | 20.0 | 1 | 61 | 89 | 0.921 | 41.6 | 57.6 | Infin. | 0.906 | 0.265 | Non-Liq. |
| 22.0 | 120.0 | 1 | 28.0 | 20.0 | 1 | 61 | 89 | 0.900 | 40.8 | 57.6 | Infin. | 0.902 | 0.269 | Non-Liq. |
| 23.0 | 120.0 | 1 | 32.0 | 25.0 | 1 | | 92 | 0.879 | 40.3 | 57.6 | Infin. | 0.897 | 0.274 | Non-Liq. |
| 24.0 | 120.0 | 1 | 32.0 | 25.0 | 1 | | 92 | 0.860 | 39.5 | 57.6 | Infin. | 0.893 | 0.278 | Non-Liq. |
| 25.0 | 120.0 | 1 | 32.0 | 25.0 | 1 | | 92 | 0.843 | 38.6 | 57.6 | Infin. | 0.888 | 0.282 | Non-Liq. |
| 26.0 | 120.0 | 1 | 32.0 | 25.0 | 1 | | 92 | 0.826 | 37.9 | 57.6 | Infin. | 0.883 | 0.286 | Non-Liq. |
| 27.0 | 120.0 | 1 | 32.0 | 25.0 | 1 | | 92 | 0.810 | 37.2 | 57.6 | Infin. | 0.879 | 0.289 | Non-Liq. |
| 28.0 | 120.0 | 1 | 32.0 | 25.0 | 1 | | 92 | 0.795 | 36.5 | 57.6 | Infin. | 0.874 | 0.292 | Non-Liq. |
| 29.0 | 120.0 | 1 | 32.0 | 25.0 | 1 | | 92 | 0.781 | 35.8 | 57.6 | Infin. | 0.870 | 0.295 | Non-Liq. |
| 30.0 | 120.0 | 1 | 51.0 | 30.0 | 1 | | 112 | 0.768 | 58.8 | 57.6 | Infin. | 0.865 | 0.298 | Non-Liq. |
| 31.0 | 120.0 | 1 | 51.0 | 30.0 | 1 | | 112 | 0.755 | 57.8 | 57.6 | Infin. | 0.861 | 0.301 | Non-Liq. |
| 32.0 | 120.0 | 1 | 51.0 | 30.0 | 1 | | 112 | 0.743 | 56.9 | 57.6 | Infin. | 0.856 | 0.303 | Non-Liq. |
| 33.0 | 120.0 | 1 | 51.0 | 30.0 | 1 | | 112 | 0.732 | 56.0 | 57.6 | Infin. | 0.851 | 0.305 | Non-Liq. |
| 34.0 | 120.0 | 1 | 51.0 | 30.0 | 1 | | 112 | 0.721 | 55.1 | 57.6 | Infin. | 0.847 | 0.307 | Non-Liq. |
| 35.0 | 120.0 | 1 | 52.0 | 35.0 | 1 | | 110 | 0.710 | 55.4 | 57.6 | Infin. | 0.842 | 0.309 | Non-Liq. |
| 36.0 | 120.0 | 1 | 52.0 | 35.0 | 1 | | 110 | 0.700 | 54.6 | 57.6 | Infin. | 0.838 | 0.310 | Non-Liq. |
| 37.0 | 120.0 | 1 | 52.0 | 35.0 | 1 | | 110 | 0.690 | 53.9 | 57.6 | Infin. | 0.833 | 0.312 | Non-Liq. |
| 38.0 | 120.0 | 1 | 52.0 | 35.0 | 1 | | 110 | 0.681 | 53.1 | 57.6 | Infin. | 0.829 | 0.313 | Non-Liq. |
| 39.0 | 120.0 | 1 | 52.0 | 35.0 | 1 | | 110 | 0.672 | 52.4 | 57.6 | Infin. | 0.824 | 0.314 | Non-Liq. |
| 40.0 | 120.0 | 1 | 71.0 | 40.0 | 1 | | 125 | 0.664 | 70.7 | 57.6 | Infin. | 0.819 | 0.315 | Non-Liq. |
| 41.0 | 120.0 | 1 | 71.0 | 40.0 | 1 | | 125 | 0.655 | 69.8 | 57.6 | Infin. | 0.815 | 0.316 | Non-Liq. |
| 42.0 | 120.0 | 1 | 71.0 | 40.0 | 1 | | 125 | 0.648 | 69.0 | 57.6 | Infin. | 0.810 | 0.317 | Non-Liq. |
| 43.0 | 120.0 | 1 | 71.0 | 40.0 | 1 | | 125 | 0.640 | 68.1 | 57.6 | Infin. | 0.806 | 0.317 | Non-Liq. |
| 44.0 | 120.0 | 1 | 71.0 | 40.0 | 1 | | 125 | 0.632 | 67.4 | 57.6 | Infin. | 0.801 | 0.318 | Non-Liq. |
| 45.0 | 120.0 | 1 | 33.0 | 45.0 | 1 | | 83 | 0.625 | 31.0 | 57.6 | Infin. | 0.797 | 0.319 | Non-Liq. |
| 46.0 | 120.0 | 1 | 33.0 | 45.0 | 1 | | 83 | 0.618 | 30.6 | 57.6 | Infin. | 0.792 | 0.319 | Non-Liq. |
| 47.0 | 120.0 | 1 | 33.0 | 45.0 | 1 | | 83 | 0.612 | 30.3 | 57.6 | Infin. | 0.787 | 0.319 | Non-Liq. |
| 48.0 | 120.0 | 1 | 33.0 | 45.0 | 1 | | 83 | 0.605 | 30.0 | 57.6 | 0.444 | 0.783 | 0.319 | 1.39 |
| 49.0 | 120.0 | 1 | 33.0 | 45.0 | 1 | | 83 | 0.599 | 29.6 | 57.6 | 0.395 | 0.778 | 0.320 | 1.23 |
| 50.0 | 120.0 | 1 | 59.0 | 50.0 | 1 | | 109 | 0.593 | 52.5 | 57.6 | Infin. | 0.774 | 0.320 | Non-Liq. |

GEOCON

Client: Hollywood Community Housing Corp
File No. A9120-06-01
Boring 2

# LIQUEFACTION SETTLEMENT ANALYSIS
# AMERICAN SOCIETY OF CIVIL ENGINEERS

(SATURATED SAND AT INITIAL LIQUEFACTION CONDITION)

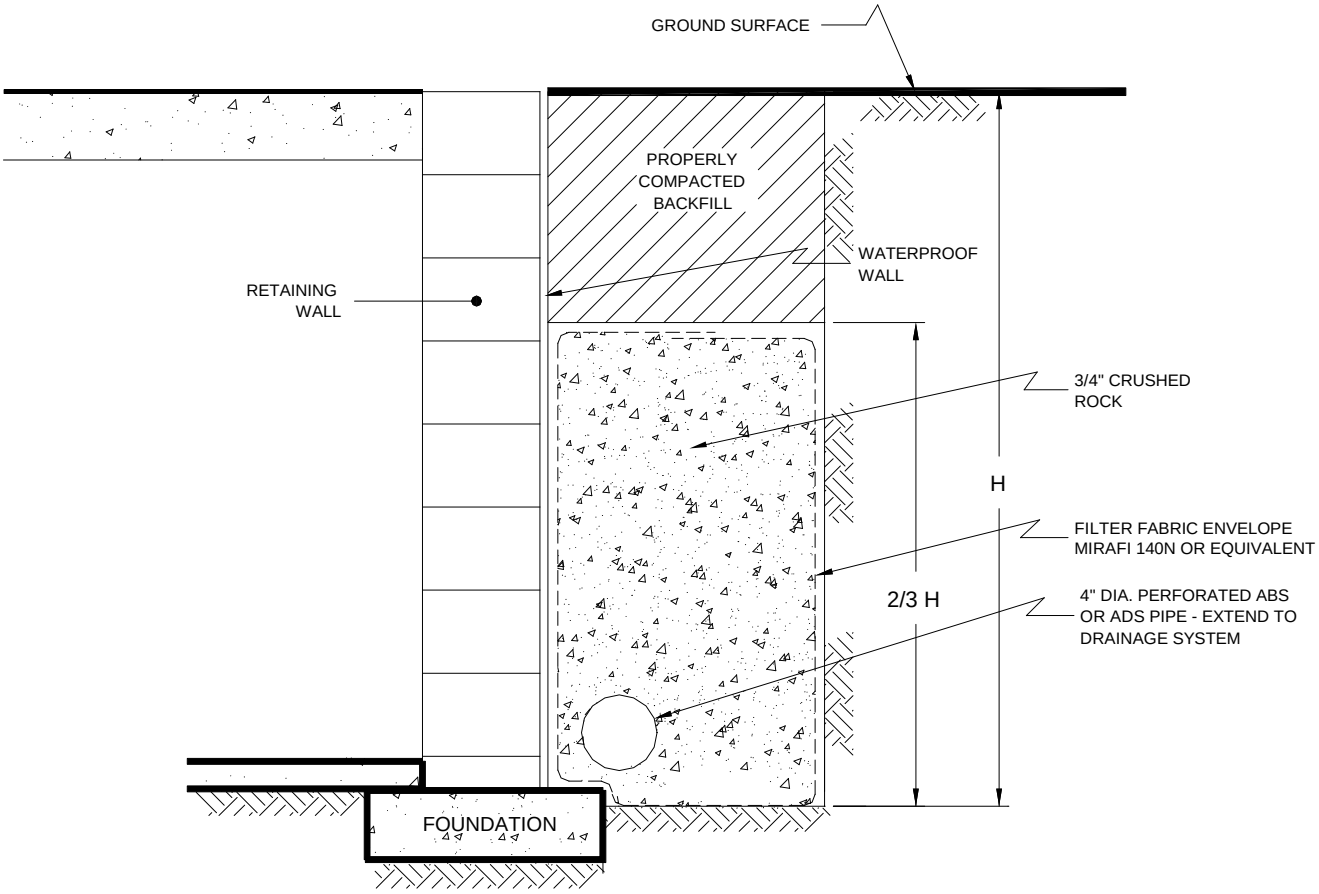
NCEER (1996) METHOD
EARTHQUAKE INFORMATION:

| | |
|---|---|
| Earthquake Magnitude: | 6.5 |
| Peak Horiz. Acceleration (g) | 0.62 |
| Calculated Mag.Wtg.Factor: | 0.697 |
| Historic High Groundwater: | 20.0 |
| Groundwater @ Exploration: | 100.0 |

| DEPTH TO BASE | BLOW COUNT N | WET DENSITY (PCF) | TOTAL STRESS O (TSF) | EFFECT STRESS O' (TSF) | REL. DEN. Dr (%) | ADJUST BLOWS (N1)60 | Tav/O'$_o$ | LIQUEFACTION SAFETY FACTOR | Volumetric Strain [$e_{15}$} (%) | EQ. SETTLE. Pe (in.) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5 | 120 | 0.030 | 0.030 | 49 | 18 | 0.403 | -- | 0.00 | 0.00 |
| 2 | 5 | 120 | 0.090 | 0.090 | 49 | 18 | 0.403 | -- | 0.00 | 0.00 |
| 3 | 5 | 120 | 0.150 | 0.150 | 49 | 18 | 0.403 | -- | 0.00 | 0.00 |
| 4 | 5 | 120 | 0.210 | 0.210 | 49 | 18 | 0.403 | -- | 0.00 | 0.00 |
| 5 | 5 | 120 | 0.270 | 0.270 | 49 | 18 | 0.403 | -- | 0.00 | 0.00 |
| 6 | 5 | 120 | 0.330 | 0.330 | 49 | 17 | 0.403 | -- | 0.00 | 0.00 |
| 7 | 7 | 120 | 0.390 | 0.390 | 52 | 20 | 0.403 | -- | 0.00 | 0.00 |
| 8 | 7 | 120 | 0.450 | 0.450 | 52 | 19 | 0.403 | -- | 0.00 | 0.00 |
| 9 | 7 | 120 | 0.510 | 0.510 | 52 | 18 | 0.403 | -- | 0.00 | 0.00 |
| 10 | 7 | 120 | 0.570 | 0.570 | 52 | 18 | 0.403 | -- | 0.00 | 0.00 |
| 11 | 7 | 120 | 0.630 | 0.630 | 52 | 17 | 0.403 | -- | 0.00 | 0.00 |
| 12 | 7 | 120 | 0.690 | 0.690 | 52 | 17 | 0.403 | -- | 0.00 | 0.00 |
| 13 | 7 | 120 | 0.750 | 0.750 | 52 | 16 | 0.403 | -- | 0.00 | 0.00 |
| 14 | 7 | 120 | 0.810 | 0.810 | 52 | 12 | 0.403 | -- | 0.00 | 0.00 |
| 15 | 11 | 120 | 0.870 | 0.870 | 60 | 17 | 0.403 | -- | 0.00 | 0.00 |
| 16 | 11 | 120 | 0.930 | 0.930 | 60 | 17 | 0.403 | -- | 0.00 | 0.00 |
| 17.5 | 11 | 120 | 1.005 | 1.005 | 60 | 16 | 0.403 | -- | 0.00 | 0.00 |
| 18 | 14 | 120 | 1.035 | 1.035 | 63 | 26 | 0.403 | -- | 0.00 | 0.00 |
| 19 | 14 | 120 | 1.110 | 1.110 | 63 | 25 | 0.403 | -- | 0.00 | 0.00 |
| 20 | 14 | 120 | 1.170 | 1.154 | 63 | 25 | 0.408 | 1.07 | 1.30 | 0.16 |
| 21 | 28 | 120 | 1.230 | 1.183 | 89 | 42 | 0.419 | Non-Liq. | 0.00 | 0.00 |
| 22 | 28 | 120 | 1.290 | 1.212 | 89 | 41 | 0.429 | Non-Liq. | 0.00 | 0.00 |
| 23 | 32 | 120 | 1.350 | 1.241 | 92 | 40 | 0.438 | Non-Liq. | 0.00 | 0.00 |
| 24 | 32 | 120 | 1.410 | 1.270 | 92 | 39 | 0.448 | Non-Liq. | 0.00 | 0.00 |
| 25 | 32 | 120 | 1.470 | 1.298 | 92 | 39 | 0.456 | Non-Liq. | 0.00 | 0.00 |
| 26 | 32 | 120 | 1.530 | 1.327 | 92 | 38 | 0.465 | Non-Liq. | 0.00 | 0.00 |
| 27 | 32 | 120 | 1.590 | 1.356 | 92 | 37 | 0.473 | Non-Liq. | 0.00 | 0.00 |
| 28 | 32 | 120 | 1.650 | 1.385 | 92 | 36 | 0.480 | Non-Liq. | 0.00 | 0.00 |
| 29 | 32 | 120 | 1.710 | 1.414 | 92 | 36 | 0.488 | Non-Liq. | 0.00 | 0.00 |
| 30 | 51 | 120 | 1.770 | 1.442 | 112 | 59 | 0.495 | Non-Liq. | 0.00 | 0.00 |
| 31 | 51 | 120 | 1.830 | 1.471 | 112 | 58 | 0.501 | Non-Liq. | 0.00 | 0.00 |
| 32 | 51 | 120 | 1.890 | 1.500 | 112 | 57 | 0.508 | Non-Liq. | 0.00 | 0.00 |
| 33 | 51 | 120 | 1.950 | 1.529 | 112 | 56 | 0.514 | Non-Liq. | 0.00 | 0.00 |
| 34 | 51 | 120 | 2.010 | 1.558 | 112 | 55 | 0.520 | Non-Liq. | 0.00 | 0.00 |
| 35 | 52 | 120 | 2.070 | 1.586 | 110 | 55 | 0.526 | Non-Liq. | 0.00 | 0.00 |
| 36 | 52 | 120 | 2.130 | 1.615 | 110 | 55 | 0.531 | Non-Liq. | 0.00 | 0.00 |
| 37 | 52 | 120 | 2.190 | 1.644 | 110 | 54 | 0.537 | Non-Liq. | 0.00 | 0.00 |
| 38 | 52 | 120 | 2.250 | 1.673 | 110 | 53 | 0.542 | Non-Liq. | 0.00 | 0.00 |
| 39 | 52 | 120 | 2.310 | 1.702 | 110 | 52 | 0.547 | Non-Liq. | 0.00 | 0.00 |
| 40 | 71 | 120 | 2.370 | 1.730 | 125 | 71 | 0.552 | Non-Liq. | 0.00 | 0.00 |
| 41 | 71 | 120 | 2.430 | 1.759 | 125 | 70 | 0.557 | Non-Liq. | 0.00 | 0.00 |
| 42 | 71 | 120 | 2.490 | 1.788 | 125 | 69 | 0.561 | Non-Liq. | 0.00 | 0.00 |
| 43 | 71 | 120 | 2.550 | 1.817 | 125 | 68 | 0.566 | Non-Liq. | 0.00 | 0.00 |
| 44 | 71 | 120 | 2.610 | 1.846 | 125 | 67 | 0.570 | Non-Liq. | 0.00 | 0.00 |
| 45 | 33 | 120 | 2.670 | 1.874 | 83 | 31 | 0.574 | Non-Liq. | 0.00 | 0.00 |
| 46 | 33 | 120 | 2.730 | 1.903 | 83 | 31 | 0.578 | Non-Liq. | 0.00 | 0.00 |
| 47 | 33 | 120 | 2.790 | 1.932 | 83 | 30 | 0.582 | Non-Liq. | 0.00 | 0.00 |
| 48 | 33 | 120 | 2.850 | 1.961 | 83 | 30 | 0.586 | 1.39 | 0.00 | 0.00 |
| 49 | 33 | 120 | 2.910 | 1.990 | 83 | 30 | 0.589 | 1.23 | 0.75 | 0.09 |
| 50 | 59 | 120 | 2.970 | 2.018 | 109 | 52 | 0.593 | Non-Liq. | 0.00 | 0.00 |

TOTAL SETTLEMENT = 0.2 INCHES

Figure 7




NO SCALE

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| TL | | 8000 |
|---|---|---|

# RETAINING WALL DRAIN DETAIL

HOLLYWOOD COMMUNITY HOUSING CORPORATION

4704-4716 PECK ROAD

EL MONTE, CALIFORNIA

| APRIL 17, 2014 | PROJECT NO. A9120-06-01 | FIG. 8 |
|---|---|---|

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# TABLE 1

## FAULTS WITHIN 60 MILES OF THE SITE

### DETERMINISTIC SITE PARAMETERS

| ABBREVIATED FAULT NAME | APPROXIMATE DISTANCE mi (km) | ESTIMATED MAX. EARTHQUAKE EVENT MAXIMUM EARTHQUAKE MAG.(Mw) | PEAK SITE ACCEL. g | EST. SITE INTENSITY MOD.MERC. |
|---|---|---|---|---|
| RAYMOND | 4.1( 6.6) | 6.5 | 0.705 | XI |
| UPPER ELYSIAN PARK BLIND THRUST | 5.4( 8.7) | 6.4 | 0.583 | X |
| SIERRA MADRE | 5.7( 9.1) | 7.2 | 0.678 | XI |
| CLAMSHELL-SAWPIT | 6.2( 10.0) | 6.5 | 0.563 | X |
| WHITTIER | 6.9( 11.1) | 6.8 | 0.437 | X |
| PUENTE HILLS BLIND THRUST | 7.5( 12.0) | 7.1 | 0.574 | X |
| VERDUGO | 8.3( 13.4) | 6.9 | 0.510 | X |
| SAN JOSE | 8.3( 13.4) | 6.4 | 0.438 | X |
| HOLLYWOOD | 12.5( 20.1) | 6.4 | 0.312 | IX |
| CHINO-CENTRAL AVE. (Elsinore) | 15.3( 24.6) | 6.7 | 0.296 | IX |
| CUCAMONGA | 16.3( 26.3) | 6.9 | 0.301 | IX |
| NEWPORT-INGLEWOOD (L.A.Basin) | 19.4( 31.3) | 7.1 | 0.219 | IX |
| SIERRA MADRE (San Fernando) | 20.6( 33.2) | 6.7 | 0.219 | IX |
| SAN GABRIEL | 21.9( 35.3) | 7.2 | 0.206 | VIII |
| SANTA MONICA | 23.0( 37.0) | 6.6 | 0.185 | VIII |
| NORTHRIDGE (E. Oak Ridge) | 26.2( 42.1) | 7.0 | 0.196 | VIII |
| SAN ANDREAS - 1857 Rupture M-2a | 26.2( 42.2) | 7.8 | 0.243 | IX |
| SAN ANDREAS - Cho-Moj M-1b-1 | 26.2( 42.2) | 7.8 | 0.243 | IX |
| SAN ANDREAS - Mojave M-1c-3 | 26.2( 42.2) | 7.4 | 0.194 | VIII |
| SAN ANDREAS - Whole M-1a | 26.2( 42.2) | 8.0 | 0.269 | IX |
| ELSINORE (GLEN IVY) | 27.0( 43.5) | 6.8 | 0.133 | VIII |
| PALOS VERDES | 27.3( 44.0) | 7.3 | 0.175 | VIII |
| SAN JOAQUIN HILLS | 27.7( 44.5) | 6.6 | 0.149 | VIII |
| MALIBU COAST | 29.9( 48.1) | 6.7 | 0.144 | VIII |
| SAN JACINTO-SAN BERNARDINO | 30.9( 49.8) | 6.7 | 0.107 | VII |
| SANTA SUSANA | 31.9( 51.4) | 6.7 | 0.133 | VIII |
| SAN ANDREAS - SB-Coach. M-1b-2 | 32.7( 52.6) | 7.7 | 0.186 | VIII |
| SAN ANDREAS - San Bernardino M-1 | 32.7( 52.6) | 7.5 | 0.165 | VIII |
| SAN ANDREAS - SB-Coach. M-2b | 32.7( 52.6) | 7.7 | 0.186 | VIII |
| NEWPORT-INGLEWOOD (Offshore) | 34.9( 56.1) | 7.1 | 0.118 | VII |
| CLEGHORN | 35.0( 56.4) | 6.5 | 0.082 | VII |
| HOLSER | 37.8( 60.8) | 6.5 | 0.095 | VII |
| ANACAPA-DUME | 39.5( 63.6) | 7.5 | 0.171 | VIII |
| SIMI-SANTA ROSA | 41.1( 66.1) | 7.0 | 0.115 | VII |
| SAN JACINTO-SAN JACINTO VALLEY | 45.0( 72.4) | 6.9 | 0.075 | VII |
| OAK RIDGE (Onshore) | 45.2( 72.8) | 7.0 | 0.102 | VII |
| NORTH FRONTAL FAULT ZONE (West) | 45.5( 73.2) | 7.2 | 0.117 | VII |
| SAN CAYETANO | 49.0( 78.9) | 7.0 | 0.092 | VII |
| ELSINORE (TEMECULA) | 49.0( 78.9) | 6.8 | 0.063 | VI |
| SAN ANDREAS - Carrizo M-1c-2 | 50.7( 81.6) | 7.4 | 0.092 | VII |
| CORONADO BANK | 56.9( 91.6) | 7.6 | 0.093 | VII |

41 FAULTS FOUND WITHIN THE SPECIFIED SEARCH RADIUS.
THE RAYMOND FAULT IS CLOSEST TO THE SITE.
IT IS ABOUT 4.1 MILES (6.6 km) AWAY.
LARGEST MAXIMUM-EARTHQUAKE SITE ACCELERATION: 0.7048 g

## APPENDIX A

## FIELD INVESTIGATION

The site was explored on March 26, 2014 by excavating three 8-inch diameter borings utilizing a truck-mounted hollow-stem auger drilling machine. The borings were advanced to depths between 20½ and 50½ feet below the existing ground surface. Percolation testing, for the design of a stormwater infiltration system, was performed in boring B3. Representative and relatively undisturbed samples were obtained by driving a 3-inch, O. D., California Modified Sampler into the "undisturbed" soil mass with blows from 140-pound hammer falling 30 inches. The California Modified Sampler was equipped with 1-inch by 2³/₈-inch brass sampler rings to facilitate removal and testing. Standard Penetration Tests (SPTs) were performed in selected borings and bulk samples were also obtained.

The soil conditions encountered in the borings were visually examined, classified and logged in general accordance with the Unified Soil Classification System (USCS). The logs of the borings are presented on Figures A1 through A3. The logs depict the soil and geologic conditions encountered and the depth at which samples were obtained. The approximate locations of the borings are shown on the Site Plan, Figure 2.

PROJECT NO. A9120-06-01

# BORING 1

ELEV. (MSL.) - - DATE COMPLETED **3/26/14**

EQUIPMENT **HOLLOW STEM AUGER** BY: **TL**

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | MATERIAL DESCRIPTION | PENETRATION RESISTANCE (BLOWS/FT)* | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---|---|---|---|---|---|---|---|---|
| 0 | B1@1' | | | | **ARTIFICIAL FILL** Silty Sand, medium dense, slightly moist, brown, fine-grained, trace coarse-grained, trace fine gravel, trace rootlets | 25 | 93.2 | 12.6 |
| 2 | | | | SP-SM | **ALLUVIUM** Sand with Silt, poorly graded, medium dense, slightly moist, yellowish brown, fine-grained, trace silt | | | |
| 4 | B1@4' | | | ML | Silt, firm, slightly moist, pale brown to yellowish brown | 15 | 84.4 | 4.4 |
| 6 | B1@7' | | | SP | Sand, poorly graded, medium dense, slightly moist, light brown, fine-grained, trace silt | 23 | 91.6 | 3.1 |
| 8 | | | | ML | Silt, firm, slightly moist, dark yellowish brown | | | |
| 10 | B1@10' | | | | | 19 | 94.0 | 5.0 |
| 12 | B1@13' | | | SM | Silty Sand, medium dense, slightly moist, light brown, fine-grained | 36 | 107.6 | 2.2 |
| 14 | | | | SP | Sand, poorly graded, medium dense, slightly moist, light brown, fine-grained | | | |
| 16 | B1@17' | | | SP-SM | Sand with Silt, poorly graded, medium dense, slightly moist, dark yellowish brown, fine-grained | 23 | 90.5 | 5.7 |
| 18 | | | | | | | | |
| 20 | B1@20' | | | SP | Sand, poorly graded, medium dense, slightly moist, pale brown, fine-grained | 24 | 93.1 | 7.0 |

Total depth of boring: 20.5 feet.
Fill to 1.5 feet.
No groundwater encountered.
Backfilled with soil cuttings and tamped.
Surface restored.

*Penetration resistance for 140 pound hammer falling 30 inches by auto-hammer.

**Figure A1,**
**Log of Boring 1, Page 1 of 1**

A9120-06-01 BORING LOGS.GPJ

SAMPLE SYMBOLS

... SAMPLING UNSUCCESSFUL
... STANDARD PENETRATION TEST
... DRIVE SAMPLE (UNDISTURBED)
... DISTURBED OR BAG SAMPLE
... CHUNK SAMPLE
... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

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PROJECT NO. A9120-06-01

# BORING 2

ELEV. (MSL.) - - DATE COMPLETED **3/26/14**

EQUIPMENT **HOLLOW STEM AUGER** BY: **TL**

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | MATERIAL DESCRIPTION | PENETRATION RESISTANCE (BLOWS/FT)* | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | **ASPHALT: 2" BASE: 2.5"** | | | |
| | | | | | **ARTIFICIAL FILL** | | | |
| | | | | | Silty Sand, loose, slightly moist, brown, fine-grained, trace fine gravel | | | |
| 2 | B2@2.5' | | | SP-SM | **ALLUVIUM** Sand with Silt, poorly graded, loose, slightly moist, light brown, fine-grained | 9 | 93.1 | 1.4 |
| 4 | | | | | Silt with Sand, soft, slightly moist, yellowish brown, fine-grained | | | |
| | B2@5' | | | | | 5 | --- | 3.5 |
| 6 | | | | | -Sandy Silt, firm, trace rootlets | | | |
| 8 | B2@ 7.5' | | | | | 16 | 86.6 | 3.7 |
| | | | | ML | | | | |
| 10 | B2@10' | | | | | 7 | --- | 5.4 |
| 12 | | | | | | | | |
| | B2@12.5' | | | | -Stiff, pale brown | 25 | 91.9 | 2.2 |
| 14 | | | | | Silty Sand, poorly graded, medium dense, slightly moist, light brown, fine-grained | | | |
| | B2@15' | | | | | 11 | --- | 0.9 |
| 16 | | | | SM | | | | |
| 18 | B6@17.5' | | | | Sandy Silt and Silty Sand, firm to stiff and medium dense, slightly moist, light brown, fine-grained | 30 | 98.5 | 2.0 |
| | | | | ML/SM | | | | |
| 20 | B2@20' | | | | | 14 | --- | 2.6 |
| 22 | | | | | Sand with Gravel, well graded, medium dense, slightly moist, light brown | | | |
| | | | | SW | | | | |
| | B2@22.5' | | | | | 46 | 112.1 | 0.7 |
| 24 | | | | | Sand, poorly graded, dense, slightly moist, pale brown, fine- to coarse-grained, trace fine gravel | | | |
| | B2@25' | | | | | 32 | --- | 0.9 |
| 26 | | | | SP | | | | |
| 28 | | | | | | | | |

**Figure A2,**
**Log of Boring 2, Page 1 of 2**

A9120-06-01 BORING LOGS.GPJ

SAMPLE SYMBOLS

- ... SAMPLING UNSUCCESSFUL
- ... STANDARD PENETRATION TEST
- ... DRIVE SAMPLE (UNDISTURBED)
- ... DISTURBED OR BAG SAMPLE
- ... CHUNK SAMPLE
- ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

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PROJECT NO. A9120-06-01

# BORING 2

ELEV. (MSL.) - - DATE COMPLETED **3/26/14**

EQUIPMENT **HOLLOW STEM AUGER** BY: **TL**

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | MATERIAL DESCRIPTION | PENETRATION RESISTANCE (BLOWS/FT)* | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---|---|---|---|---|---|---|---|---|
| 30 | B2@30' | | | | -Very dense | 51 | --- | 1.0 |
| 32 | B2@32.5' | | | | | 50 (4") | 109.2 | 1.1 |
| 34 | B2@35' | | | | | 52 | --- | 1.8 |
| 36 | | | | | | | | |
| 38 | | | | | | | | |
| 40 | B2@40' | | | SP | -Dense<br>-Trace coarse gravel | 71 | 108.4 | 1.9 |
| 42 | | | | | | | | |
| 44 | B2@45' | | | | -Yellowish brown, fine- to medium-grained | 33 | --- | 3.2 |
| 46 | | | | | Sand with Gravel, poorly graded, very dense, slightly moist, dark yellowish brown, fine- to medium-grained | | | |
| 48 | B2@47.5' | | | | | 50 (6") | 105.6 | 1.7 |
| 50 | B2@50' | | | | | 59 | --- | 2.0 |

Total depth of boring: 50.5 feet.
Fill to 1.5 feet.
No groundwater encountered.
Backfilled with soil cuttings and tamped.
Asphalt patched.

*Penetration resistance for 140 pound hammer falling 30 inches by auto-hammer.

**Figure A2,**
**Log of Boring 2, Page 2 of 2**

A9120-06-01 BORING LOGS.GPJ

SAMPLE SYMBOLS
... SAMPLING UNSUCCESSFUL
... STANDARD PENETRATION TEST
... DRIVE SAMPLE (UNDISTURBED)
... DISTURBED OR BAG SAMPLE
... CHUNK SAMPLE
... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

GEOCON

PROJECT NO. A9120-06-01

# BORING 3

ELEV. (MSL.) - - DATE COMPLETED **3/26/14**

EQUIPMENT **HOLLOW STEM AUGER** BY: **TL**

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | MATERIAL DESCRIPTION | PENETRATION RESISTANCE (BLOWS/FT)* | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | **ARTIFICIAL FILL**<br>Silty Sand, loose, slightly moist, brown, fine-grained, trace rootlets | | | |
| 2 | B3@2' | | | SP-SM | **ALLUVIUM**<br>Sand with Silt, poorly graded, loose, slightly moist, yellowish brown, fine-grained, trace rootlets | 15 | 94.9 | 3.4 |
| 4 | B3@5' | | | ML | Silt, stiff, slightly moist, yellowish brown | 22 | 77.1 | 3.5 |
| 6 | | | | | | | | |
| 8 | B3@8' | | | SM | Silty Sand, medium dense, slightly moist, yellowish brown, fine-grained | 19 | 89.6 | 1.7 |
| 10 | B3@11' | | | ML | Sandy Silt, stiff, slightly moist, yellowish brown, fine-grained | 28 | 82.2 | 3.0 |
| 12 | | | | | | | | |
| 14 | B3@14' | | | SP-SM | Sand with Silt, poorly graded, medium dense, slightly moist, light yellowish brown, fine-grained | 38 | 109.2 | 1.5 |
| 16 | B3@17' | | | ML/SM | Sandy Silt and Silty Sand, stiff to medium dense, slightly moist, yellowish brown, fine-grained with trace medium- to coarse-grained | 37 | 98.7 | 4.6 |
| 18 | | | | | | | | |
| 20 | B3@20' | | | SM | Silty Sand, medium dense, slightly moist, light brown, fine-grained, trace fine gravel | 30 | 99.8 | 3.2 |

Total depth of boring: 20.5 feet.
Fill to 1.5 feet.
No groundwater encountered.
Backfilled with soil cuttings and tamped.
Surface restored.

*Penetration resistance for 140 pound hammer falling 30 inches by auto-hammer.

**Figure A3,**
**Log of Boring 3, Page 1 of 1**

A9120-06-01 BORING LOGS.GPJ

SAMPLE SYMBOLS

... SAMPLING UNSUCCESSFUL
... STANDARD PENETRATION TEST
... DRIVE SAMPLE (UNDISTURBED)
... DISTURBED OR BAG SAMPLE
... CHUNK SAMPLE
... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

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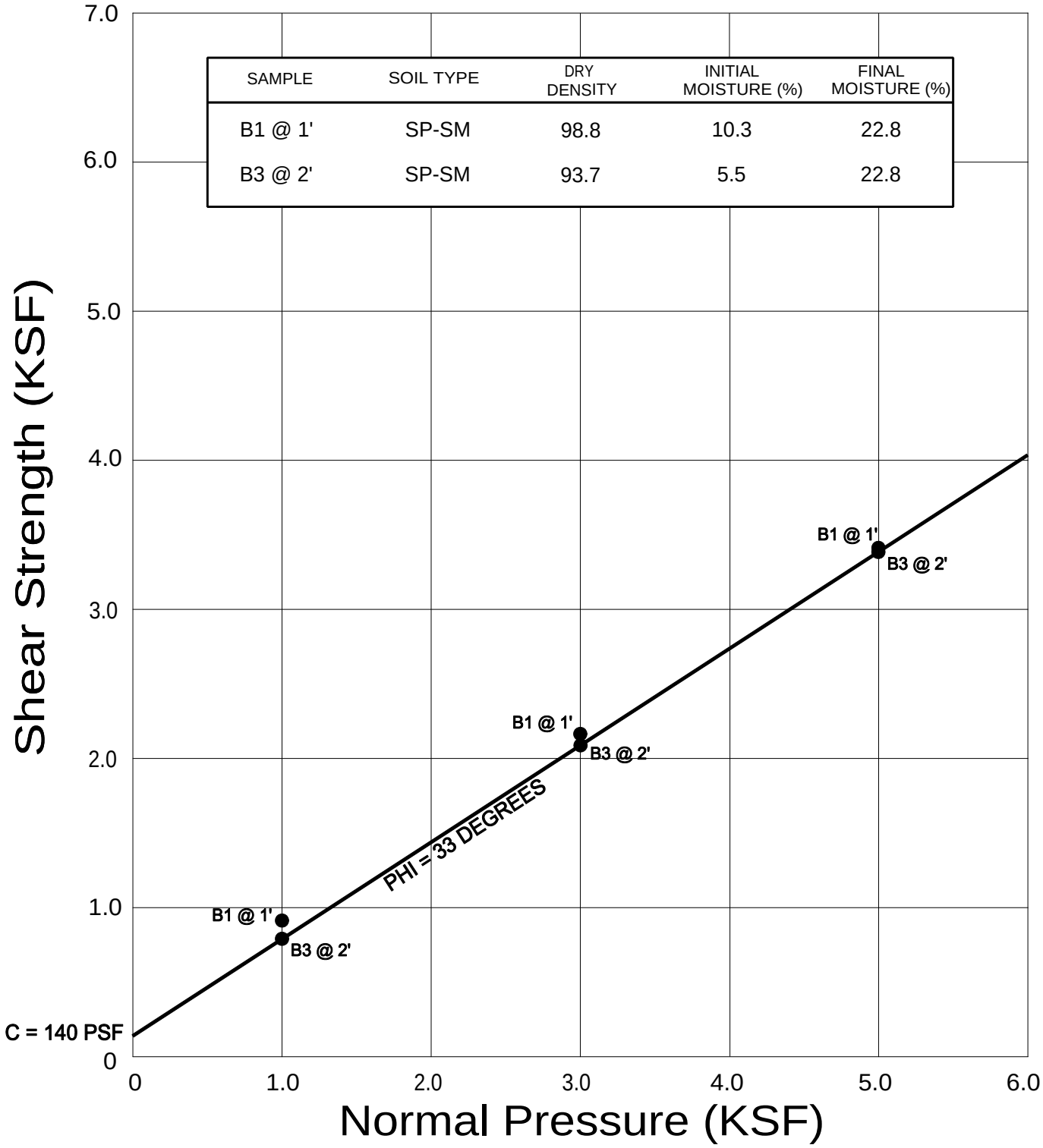
# APPENDIX B

## LABORATORY TESTING

Laboratory tests were performed in accordance with generally accepted test methods of the "American Society for Testing and Materials (ASTM)", or other suggested procedures. Selected samples were tested for direct shear strength, grain size, consolidation, expansion characteristics, moisture density relationships, water-soluble sulfate content, in-place dry density and moisture content. The results of the laboratory tests are summarized in Figures B1 through B7. The in-place dry density and moisture content of the samples tested are presented on the boring logs, Appendix A.




| SAMPLE | SOIL TYPE | DRY DENSITY | INITIAL MOISTURE (%) | FINAL MOISTURE (%) |
|---|---|---|---|---|
| B1 @ 1' | SP-SM | 98.8 | 10.3 | 22.8 |
| B3 @ 2' | SP-SM | 93.7 | 5.5 | 22.8 |

● Direct Shear, Saturated

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|---|---|---|

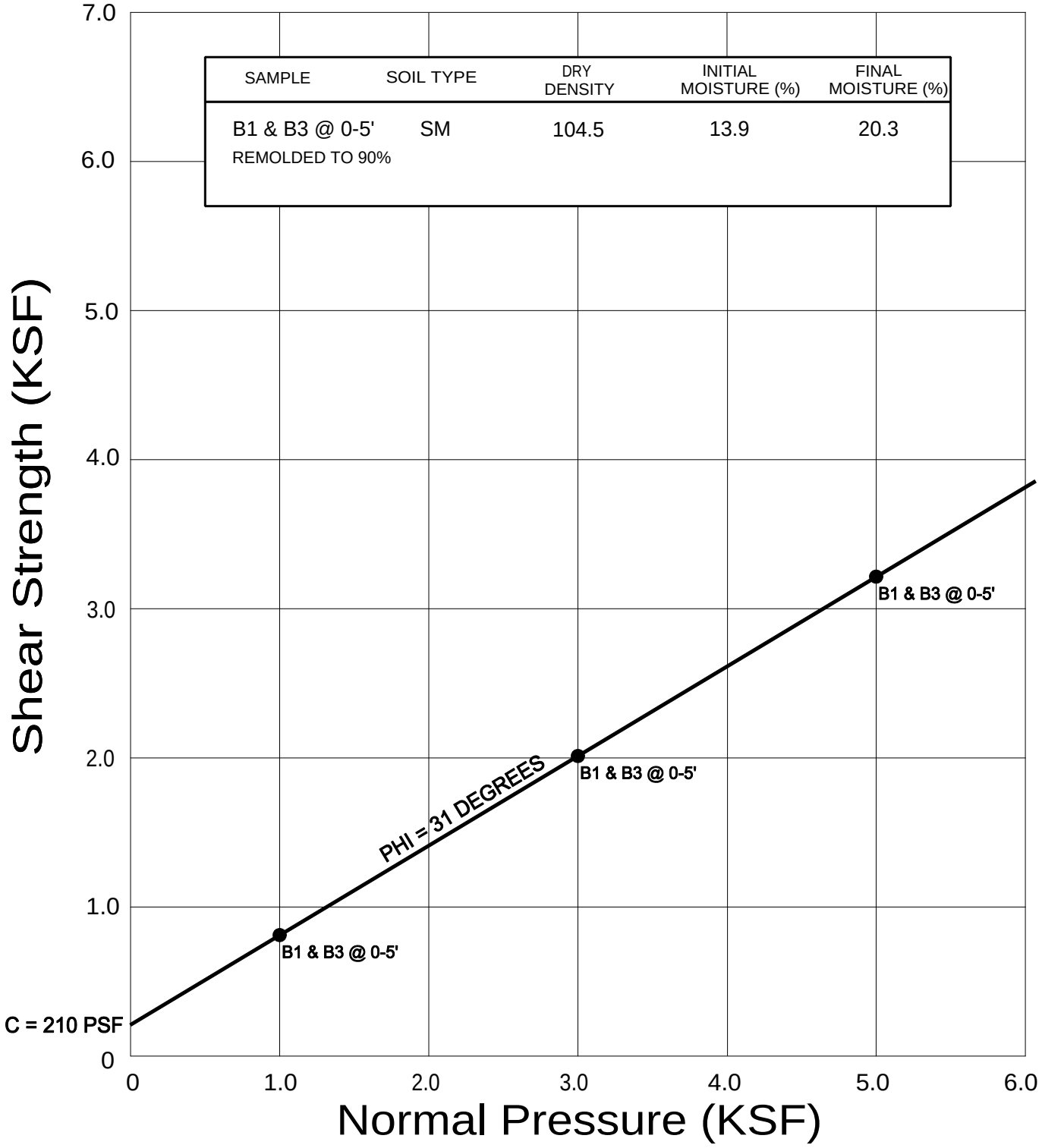
# DIRECT SHEAR TEST RESULTS

HOLLYWOOD COMMUNITY HOUSING CORPORATION

4704-4716 PECK ROAD

EL MONTE, CALIFORNIA

| APRIL 17, 2014 | PROJECT NO. A9120-06-01 | FIG. B1 |
|---|---|---|




● Direct Shear, Saturated

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| TL | | 8000 |
|---|---|---|

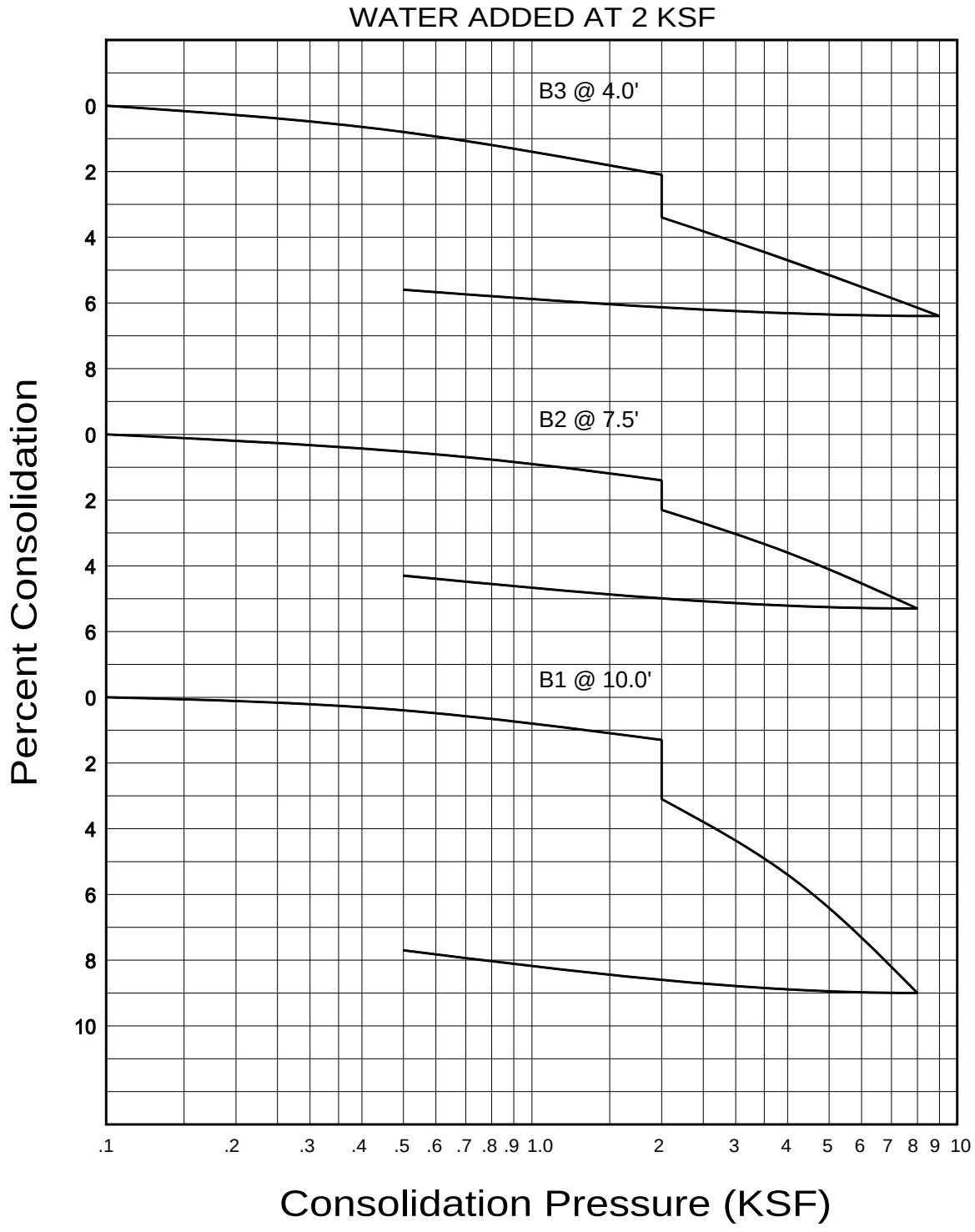
# DIRECT SHEAR TEST RESULTS

HOLLYWOOD COMMUNITY HOUSING CORPORATION

4704-4716 PECK ROAD

EL MONTE, CALIFORNIA

| APRIL 17, 2014 | PROJECT NO. A9120-06-01 | FIG. B2 |
|---|---|---|

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| | | |
|---|---|---|
| TL | | 8000 |

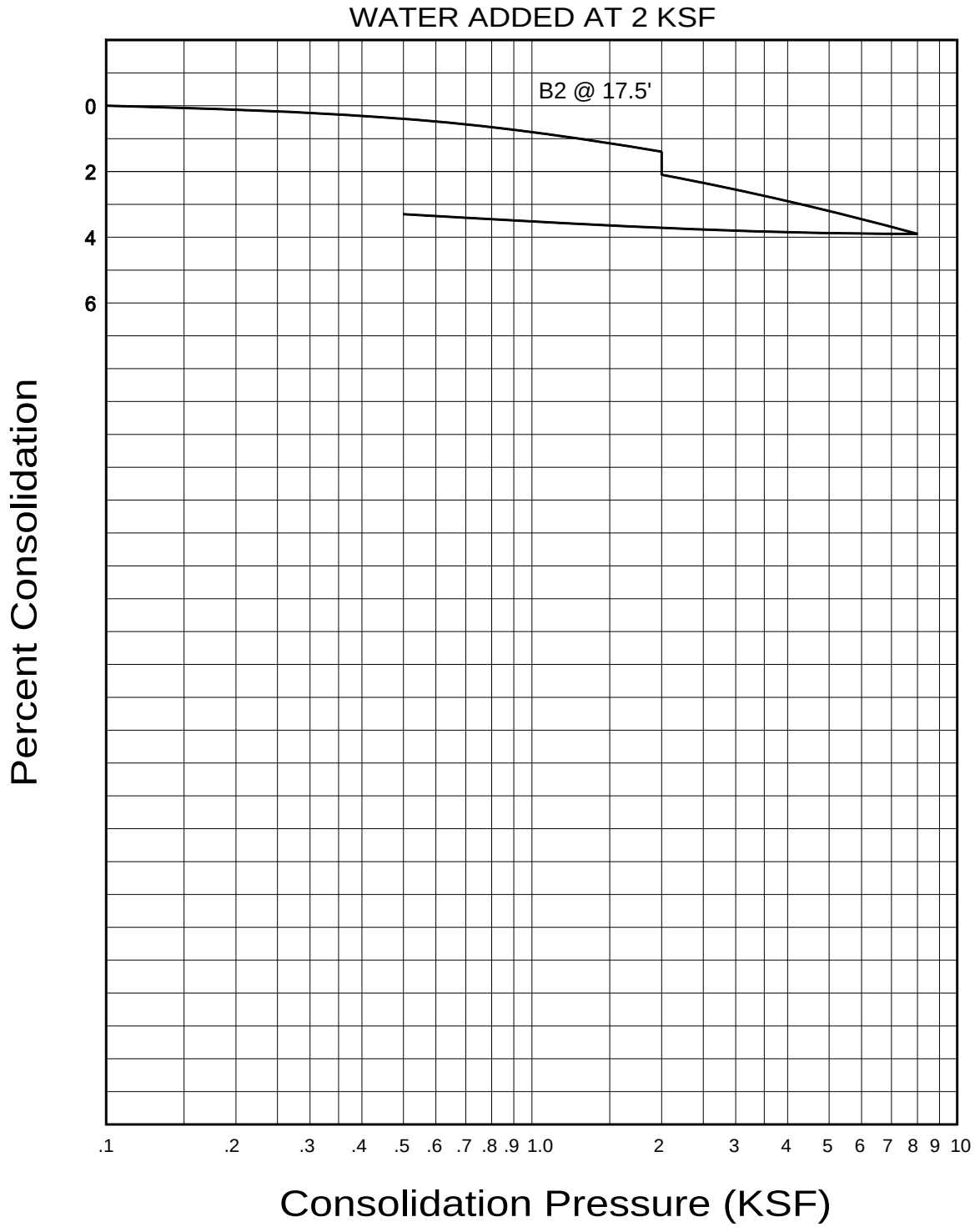
# CONSOLIDATION TEST RESULTS

HOLLYWOOD COMMUNITY HOUSING CORPORATION

4704-4716 PECK ROAD

EL MONTE, CALIFORNIA

| | | |
|---|---|---|
| APRIL 17, 2014 | PROJECT NO. A9120-06-01 | FIG. B3 |

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| | | |
|---|---|---|
| TL | | 8000 |

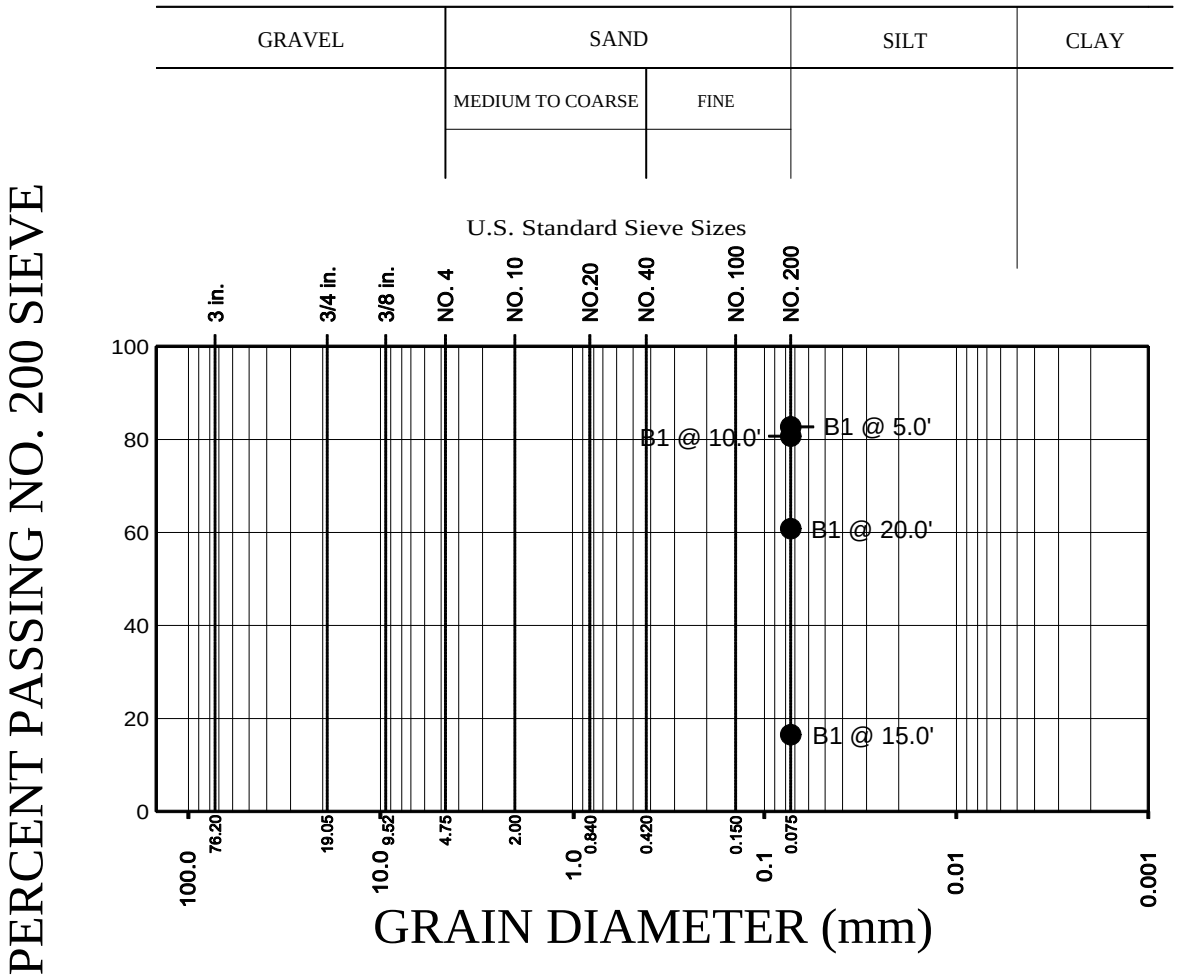
# CONSOLIDATION TEST RESULTS

HOLLYWOOD COMMUNITY HOUSING CORPORATION

4704-4716 PECK ROAD

EL MONTE, CALIFORNIA

| | | |
|---|---|---|
| APRIL 17, 2014 | PROJECT NO. A9120-06-01 | FIG. B4 |




| SAMPLE | PERCENT PASSING NO. 200 SIEVE |
|---|---|
| B2 @ 5' | 82.7 |
| B2 @ 10' | 80.7 |
| B2 @ 15' | 16.5 |
| B2 @ 20' | 60.8 |

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|---|---|---|

GRAIN SIZE ANALYSIS

HOLLYWOOD COMMUNITY HOUSING CORPORATION

4704-4716 PECK ROAD

EL MONTE, CALIFORNIA

| APRIL 17, 2014 | PROJECT NO. A9120-06-01 | FIG. B5 |
|---|---|---|

## SUMMARY OF LABORATORY EXPANSION INDEX TEST RESULTS
## ASTM D 4829-11

| Sample No. | Moisture Content (%) | | Dry Density (pcf) | Expansion Index | *UBC Classification | **CBC Classification |
|---|---|---|---|---|---|---|
| | Before | After | | | | |
| B1 & B3 @ 0-5' | 11.4 | 15.5 | 105.8 | 2 | Very Low | Non-Expansive |

* Reference: 1997 Uniform Building Code, Table 18-I-B.

** Reference: 2013 California Building Code, Section 1803.5.3

## SUMMARY OF LABORATORY MAXIMUM DENSITY AND AND OPTIMUM MOISTURE CONTENT TEST RESULTS
## ASTM D 1557-12

| Sample No. | Soil Description | Maximum Dry Density (pcf) | Optimum Moisture (%) |
|---|---|---|---|
| B1 & B3 @ 0-5' | Light Brown Silty Sand | 117.0 | 13.5 |

GEOCON WEST, INC.
ENVIRONMENTAL GEOTECHNICAL MATERIALS
3303 N. SAN FERNANDO BLVD. - SUITE 100 - BURBANK, CA 91504
PHONE (818) 841-8388 - FAX (818) 841-1704

| TL | | 8000 |
|---|---|---|

LABORATORY TEST RESULTS

HOLLYWOOD COMMUNITY HOUSING CORPORATION

4704-4716 PECK ROAD

EL MONTE, CALIFORNIA

| APRIL 17, 2014 | PROJECT NO. A9120-06-01 | FIG. B6 |
|---|---|---|

## SUMMARY OF LABORATORY POTENTIAL OF HYDROGEN (pH) AND RESISTIVITY TEST RESULTS CALIFORNIA TEST NO. 643

| Sample No. | pH | Resistivity (Ohm Centimeters) |
|---|---|---|
| B1 & B3 @ 0-5' | 7.59 | 7500 (Moderately Corrosive) |

## SUMMARY OF LABORATORY CHLORIDE CONTENT TEST RESULTS EPA NO. 325.3

| Sample No. | Chloride Ion Content (%) |
|---|---|
| B1 & B3 @ 0-5' | 0.004 |

## SUMMARY OF LABORATORY WATER SOLUBLE SULFATE TEST RESULTS CALIFORNIA TEST NO. 417

| Sample No. | Water Soluble Sulfate (% $SO_4$) | Sulfate Exposure* |
|---|---|---|
| B1 & B3 @ 0-5' | 0.002 | Negligible |

* Reference: 2013 California Building Code, Section 1904.3 and ACI 318-08 Section 4.3.

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PHONE (818) 841-8388 - FAX (818) 841-1704

| TL | | 8000 |
|---|---|---|

CORROSIVITY TEST RESULTS

HOLLYWOOD COMMUNITY HOUSING CORPORATION
4704-4716 PECK ROAD
EL MONTE, CALIFORNIA

| APRIL 17, 2014 | PROJECT NO. A9120-06-01 | FIG. B7 |
|---|---|---|

# APPENDIX E: GHG MODELING WORKSHEETS

# El Monte Palo Verde Project

**South Coast AQMD Air District, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Apartments Mid Rise | 49.00 | Dwelling Unit | 1.03 | 44,724.00 | 224 |
| Enclosed Parking with Elevator | 77.00 | Space | 0.00 | 30,800.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 31 |
| **Climate Zone** | 9 | | | **Operational Year** | 2017 |
| **Utility Company** | Southern California Edison | | | | |
| **CO2 Intensity (lb/MWhr)** | 630.89 | **CH4 Intensity (lb/MWhr)** | 0.029 | **N2O Intensity (lb/MWhr)** | 0.006 |

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage and square feet per site plan. Population adjusted upward to reflect assumptions in IS/MND (per local demographics).

Construction Phase - 1.5 year construction schedule anticipated with occupancy by 3/2017.

Grading - export based on 34862 sf bldg. footprint of parking structure to depth of 10 feet (1 level).

Demolition - existing bldgs to be demolished

Woodstoves - no fireplaces or woodstoves are proposed.

Sequestration - Assumes min. of 84 replacement trees required per El Monte Municipal Code.

Construction Off-road Equipment Mitigation - Assumes compliance with Rule 403 (dust suppression)

Mobile Land Use Mitigation - Affordable housing proposed w/Density Bonus Entitlements

Area Mitigation - Low VOC coatings required as mitigation.

Energy Mitigation - Energy Efficiancy to exceed Title 24 per Applicant's LEED goals.

Water Mitigation - Water conservation measures in effect per Applicant's sustainabilty goals.

Waste Mitigation -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblConstructionPhase | NumDays | 10.00 | 48.00 |
| tblConstructionPhase | NumDays | 200.00 | 250.00 |
| tblConstructionPhase | NumDays | 4.00 | 44.00 |
| tblConstructionPhase | NumDays | 10.00 | 15.00 |
| tblConstructionPhase | NumDays | 2.00 | 15.00 |
| tblConstructionPhase | PhaseEndDate | 2/22/2017 | 3/15/2017 |
| tblConstructionPhase | PhaseEndDate | 12/21/2016 | 12/16/2016 |
| tblConstructionPhase | PhaseEndDate | 1/12/2016 | 1/6/2016 |
| tblConstructionPhase | PhaseEndDate | 10/19/2015 | 10/21/2015 |
| tblConstructionPhase | PhaseStartDate | 12/17/2016 | 1/8/2017 |
| tblConstructionPhase | PhaseStartDate | 1/7/2016 | 1/2/2016 |
| tblConstructionPhase | PhaseStartDate | 12/23/2015 | 12/17/2015 |
| tblConstructionPhase | PhaseStartDate | 9/29/2015 | 10/1/2015 |

| | | | |
|---|---|---|---|
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblFireplaces | NumberGas | 41.65 | 0.00 |
| tblFireplaces | NumberNoFireplace | 4.90 | 0.00 |
| tblFireplaces | NumberWood | 2.45 | 0.00 |
| tblGrading | AcresOfGrading | 16.50 | 1.50 |
| tblGrading | AcresOfGrading | 7.50 | 1.00 |
| tblGrading | MaterialExported | 0.00 | 12,912.00 |
| tblGrading | MaterialExported | 0.00 | 500.00 |
| tblLandUse | LandUseSquareFeet | 49,000.00 | 44,724.00 |
| tblLandUse | LotAcreage | 1.29 | 1.03 |
| tblLandUse | LotAcreage | 0.69 | 0.00 |
| tblLandUse | Population | 140.00 | 224.00 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2017 |
| tblSequestration | NumberOfNewTrees | 0.00 | 84.00 |
| tblWoodstoves | NumberCatalytic | 2.45 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 2.45 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2015 | 0.1219 | 1.3417 | 0.9362 | 1.4400e-003 | 0.1619 | 0.0655 | 0.2274 | 0.0821 | 0.0606 | 0.1427 | 0.0000 | 133.7341 | 133.7341 | 0.0210 | 0.0000 | 134.1747 |
| 2016 | 0.4493 | 2.7431 | 2.3718 | 3.8500e-003 | 0.0738 | 0.1747 | 0.2485 | 0.0198 | 0.1683 | 0.1881 | 0.0000 | 321.1790 | 321.1790 | 0.0553 | 0.0000 | 322.3397 |
| 2017 | 0.5406 | 0.0537 | 0.0581 | 1.0000e-004 | 2.6300e-003 | 4.1800e-003 | 6.8100e-003 | 7.0000e-004 | 4.1800e-003 | 4.8800e-003 | 0.0000 | 8.5000 | 8.5000 | 7.7000e-004 | 0.0000 | 8.5162 |
| **Total** | **1.1119** | **4.1385** | **3.3662** | **5.3900e-003** | **0.2384** | **0.2444** | **0.4827** | **0.1026** | **0.2331** | **0.3357** | **0.0000** | **463.4131** | **463.4131** | **0.0770** | **0.0000** | **465.0305** |

### 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 | | | | | |
| 2015 | 0.1219 | 1.3417 | 0.9362 | 1.4400e-003 | 0.0835 | 0.0655 | 0.1490 | 0.0398 | 0.0606 | 0.1004 | 0.0000 | 133.7340 | 133.7340 | 0.0210 | 0.0000 | 134.1747 |
| 2016 | 0.4493 | 2.7431 | 2.3718 | 3.8500e-003 | 0.0738 | 0.1747 | 0.2485 | 0.0198 | 0.1683 | 0.1881 | 0.0000 | 321.1787 | 321.1787 | 0.0553 | 0.0000 | 322.3394 |
| 2017 | 0.5406 | 0.0537 | 0.0581 | 1.0000e-004 | 2.6300e-003 | 4.1800e-003 | 6.8100e-003 | 7.0000e-004 | 4.1800e-003 | 4.8800e-003 | 0.0000 | 8.5000 | 8.5000 | 7.7000e-004 | 0.0000 | 8.5162 |
| **Total** | **1.1119** | **4.1385** | **3.3662** | **5.3900e-003** | **0.1599** | **0.2444** | **0.4043** | **0.0603** | **0.2331** | **0.2934** | **0.0000** | **463.4127** | **463.4127** | **0.0770** | **0.0000** | **465.0302** |

| | ROG | NOx | 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** | **32.91** | **0.00** | **16.25** | **41.22** | **0.00** | **12.60** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

## 2.2 Overall Operational

### Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.3421 | 5.9600e-003 | 0.5114 | 3.0000e-005 | | 2.7800e-003 | 2.7800e-003 | | 2.7800e-003 | 2.7800e-003 | 0.0000 | 0.8273 | 0.8273 | 8.3000e-004 | 0.0000 | 0.8449 |
| Energy | 2.6200e-003 | 0.0224 | 9.5300e-003 | 1.4000e-004 | | 1.8100e-003 | 1.8100e-003 | | 1.8100e-003 | 1.8100e-003 | 0.0000 | 135.0124 | 135.0124 | 5.5100e-003 | 1.5100e-003 | 135.5971 |
| Mobile | 0.2048 | 0.6547 | 2.4477 | 6.1300e-003 | 0.4186 | 9.0000e-003 | 0.4276 | 0.1120 | 8.2800e-003 | 0.1203 | 0.0000 | 473.9818 | 473.9818 | 0.0185 | 0.0000 | 474.3708 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 4.5754 | 0.0000 | 4.5754 | 0.2704 | 0.0000 | 10.2538 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1.0129 | 18.2950 | 19.3078 | 0.1049 | 2.6300e-003 | 22.3255 |
| **Total** | **0.5494** | **0.6830** | **2.9687** | **6.3000e-003** | **0.4186** | **0.0136** | **0.4322** | **0.1120** | **0.0129** | **0.1249** | **5.5883** | **628.1165** | **633.7048** | **0.4001** | **4.1400e-003** | **643.3921** |

## 2.2 Overall Operational

**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 | 0.3421 | 5.9600e-003 | 0.5114 | 3.0000e-005 | | 2.7800e-003 | 2.7800e-003 | | 2.7800e-003 | 2.7800e-003 | 0.0000 | 0.8273 | 0.8273 | 8.3000e-004 | 0.0000 | 0.8449 |
| Energy | 2.1900e-003 | 0.0187 | 7.9600e-003 | 1.2000e-004 | | 1.5100e-003 | 1.5100e-003 | | 1.5100e-003 | 1.5100e-003 | 0.0000 | 114.8505 | 114.8505 | 4.7000e-003 | 1.2800e-003 | 115.3471 |
| Mobile | 0.1940 | 0.5695 | 2.1777 | 5.2300e-003 | 0.3558 | 7.7200e-003 | 0.3636 | 0.0952 | 7.1100e-003 | 0.1023 | 0.0000 | 404.6560 | 404.6560 | 0.0160 | 0.0000 | 404.9913 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 2.2877 | 0.0000 | 2.2877 | 0.1352 | 0.0000 | 5.1269 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.8103 | 14.3057 | 15.1160 | 0.0839 | 2.1000e-003 | 17.5288 |
| **Total** | **0.5382** | **0.5941** | **2.6971** | **5.3800e-003** | **0.3558** | **0.0120** | **0.3678** | **0.0952** | **0.0114** | **0.1066** | **3.0980** | **534.6396** | **537.7375** | **0.2406** | **3.3800e-003** | **543.8389** |

| | ROG | NOx | 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** | **2.04** | **13.01** | **9.15** | **14.60** | **15.00** | **11.63** | **14.90** | **15.00** | **11.42** | **14.64** | **44.56** | **14.88** | **15.14** | **39.87** | **18.36** | **15.47** |

## 2.3 Vegetation

**Vegetation**

| | CO2e |
|---|---|
| Category | MT |
| New Trees | 59.4720 |
| **Total** | **59.4720** |

## 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 | 9/1/2015 | 9/28/2015 | 5 | 20 | |
| 2 | Site Preparation | Site Preparation | 10/1/2015 | 10/21/2015 | 5 | 15 | |
| 3 | Grading | Grading | 10/22/2015 | 12/22/2015 | 5 | 44 | |
| 4 | Paving | Paving | 12/17/2015 | 1/6/2016 | 5 | 15 | |
| 5 | Building Construction | Building Construction | 1/2/2016 | 12/16/2016 | 5 | 250 | |
| 6 | Architectural Coating | Architectural Coating | 1/8/2017 | 3/15/2017 | 5 | 48 | |

**Acres of Grading (Site Preparation Phase): 1**

**Acres of Grading (Grading Phase): 1.5**

**Acres of Paving: 0**

**Residential Indoor: 90,566; Residential Outdoor: 30,189; Non-Residential Indoor: 46,200; Non-Residential Outdoor: 15,400 (Architectural Coating – sqft)**

## OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Paving | Cement and Mortar Mixers | 1 | 6.00 | 9 | 0.56 |
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Cranes | 1 | 6.00 | 226 | 0.29 |
| Building Construction | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Site Preparation | Graders | 1 | 8.00 | 174 | 0.41 |
| Paving | Pavers | 1 | 6.00 | 125 | 0.42 |
| Paving | Rollers | 1 | 7.00 | 80 | 0.38 |
| Demolition | Rubber Tired Dozers | 1 | 8.00 | 255 | 0.40 |
| Grading | Rubber Tired Dozers | 1 | 6.00 | 255 | 0.40 |
| Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Demolition | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Grading | Tractors/Loaders/Backhoes | 1 | 7.00 | 97 | 0.37 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Grading | Graders | 1 | 6.00 | 174 | 0.41 |
| Paving | Paving Equipment | 1 | 8.00 | 130 | 0.36 |
| Site Preparation | Rubber Tired Dozers | 1 | 7.00 | 255 | 0.40 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |

## 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 | 5 | 13.00 | 0.00 | 15.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 3 | 8.00 | 0.00 | 63.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 3 | 8.00 | 0.00 | 1,614.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 7 | 48.00 | 10.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 5 | 13.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 10.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

## 3.2 Demolition - 2015

**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 | | | | | 1.6500e-003 | 0.0000 | 1.6500e-003 | 2.5000e-004 | 0.0000 | 2.5000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0307 | 0.2968 | 0.2206 | 2.4000e-004 | | 0.0187 | 0.0187 | | 0.0175 | 0.0175 | 0.0000 | 22.7618 | 22.7618 | 5.7700e-003 | 0.0000 | 22.8829 |
| **Total** | **0.0307** | **0.2968** | **0.2206** | **2.4000e-004** | **1.6500e-003** | **0.0187** | **0.0203** | **2.5000e-004** | **0.0175** | **0.0177** | **0.0000** | **22.7618** | **22.7618** | **5.7700e-003** | **0.0000** | **22.8829** |

## 3.2 Demolition - 2015

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 1.5000e-004 | 2.4600e-003 | 1.7500e-003 | 1.0000e-005 | 1.3000e-004 | 4.0000e-005 | 1.7000e-004 | 4.0000e-005 | 4.0000e-005 | 7.0000e-005 | 0.0000 | 0.5109 | 0.5109 | 0.0000 | 0.0000 | 0.5109 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 5.8000e-004 | 8.5000e-004 | 8.8300e-003 | 2.0000e-005 | 1.4300e-003 | 1.0000e-005 | 1.4400e-003 | 3.8000e-004 | 1.0000e-005 | 3.9000e-004 | 0.0000 | 1.3841 | 1.3841 | 8.0000e-005 | 0.0000 | 1.3857 |
| **Total** | **7.3000e-004** | **3.3100e-003** | **0.0106** | **3.0000e-005** | **1.5600e-003** | **5.0000e-005** | **1.6100e-003** | **4.2000e-004** | **5.0000e-005** | **4.6000e-004** | **0.0000** | **1.8949** | **1.8949** | **8.0000e-005** | **0.0000** | **1.8966** |

### 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 | | | | | 7.4000e-004 | 0.0000 | 7.4000e-004 | 1.1000e-004 | 0.0000 | 1.1000e-004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0307 | 0.2968 | 0.2206 | 2.4000e-004 | | 0.0187 | 0.0187 | | 0.0175 | 0.0175 | 0.0000 | 22.7618 | 22.7618 | 5.7700e-003 | 0.0000 | 22.8829 |
| **Total** | **0.0307** | **0.2968** | **0.2206** | **2.4000e-004** | **7.4000e-004** | **0.0187** | **0.0194** | **1.1000e-004** | **0.0175** | **0.0176** | **0.0000** | **22.7618** | **22.7618** | **5.7700e-003** | **0.0000** | **22.8829** |

## 3.2 Demolition - 2015

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 1.5000e-004 | 2.4600e-003 | 1.7500e-003 | 1.0000e-005 | 1.3000e-004 | 4.0000e-005 | 1.7000e-004 | 4.0000e-005 | 4.0000e-005 | 7.0000e-005 | 0.0000 | 0.5109 | 0.5109 | 0.0000 | 0.0000 | 0.5109 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 5.8000e-004 | 8.5000e-004 | 8.8300e-003 | 2.0000e-005 | 1.4300e-003 | 1.0000e-005 | 1.4400e-003 | 3.8000e-004 | 1.0000e-005 | 3.9000e-004 | 0.0000 | 1.3841 | 1.3841 | 8.0000e-005 | 0.0000 | 1.3857 |
| **Total** | **7.3000e-004** | **3.3100e-003** | **0.0106** | **3.0000e-005** | **1.5600e-003** | **5.0000e-005** | **1.6100e-003** | **4.2000e-004** | **5.0000e-005** | **4.6000e-004** | **0.0000** | **1.8949** | **1.8949** | **8.0000e-005** | **0.0000** | **1.8966** |

## 3.3 Site Preparation - 2015

**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 | | | | | 0.0401 | 0.0000 | 0.0401 | 0.0218 | 0.0000 | 0.0218 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0190 | 0.2017 | 0.1276 | 1.3000e-004 | | 0.0110 | 0.0110 | | 0.0101 | 0.0101 | 0.0000 | 12.2589 | 12.2589 | 3.6600e-003 | 0.0000 | 12.3357 |
| **Total** | **0.0190** | **0.2017** | **0.1276** | **1.3000e-004** | **0.0401** | **0.0110** | **0.0511** | **0.0218** | **0.0101** | **0.0319** | **0.0000** | **12.2589** | **12.2589** | **3.6600e-003** | **0.0000** | **12.3357** |

## 3.3 Site Preparation - 2015

### 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 | 6.4000e-004 | 0.0103 | 7.3700e-003 | 2.0000e-005 | 5.4000e-004 | 1.7000e-004 | 7.1000e-004 | 1.5000e-004 | 1.6000e-004 | 3.1000e-004 | 0.0000 | 2.1456 | 2.1456 | 2.0000e-005 | 0.0000 | 2.1459 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.7000e-004 | 3.9000e-004 | 4.0800e-003 | 1.0000e-005 | 6.6000e-004 | 1.0000e-005 | 6.6000e-004 | 1.7000e-004 | 1.0000e-005 | 1.8000e-004 | 0.0000 | 0.6388 | 0.6388 | 4.0000e-005 | 0.0000 | 0.6396 |
| **Total** | **9.1000e-004** | **0.0107** | **0.0115** | **3.0000e-005** | **1.2000e-003** | **1.8000e-004** | **1.3700e-003** | **3.2000e-004** | **1.7000e-004** | **4.9000e-004** | **0.0000** | **2.7844** | **2.7844** | **6.0000e-005** | **0.0000** | **2.7855** |

### 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 | | | | | 0.0180 | 0.0000 | 0.0180 | 9.8000e-003 | 0.0000 | 9.8000e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0190 | 0.2017 | 0.1276 | 1.3000e-004 | | 0.0110 | 0.0110 | | 0.0101 | 0.0101 | 0.0000 | 12.2589 | 12.2589 | 3.6600e-003 | 0.0000 | 12.3357 |
| **Total** | **0.0190** | **0.2017** | **0.1276** | **1.3000e-004** | **0.0180** | **0.0110** | **0.0290** | **9.8000e-003** | **0.0101** | **0.0199** | **0.0000** | **12.2589** | **12.2589** | **3.6600e-003** | **0.0000** | **12.3357** |

## 3.3 Site Preparation - 2015

**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 | 6.4000e-004 | 0.0103 | 7.3700e-003 | 2.0000e-005 | 5.4000e-004 | 1.7000e-004 | 7.1000e-004 | 1.5000e-004 | 1.6000e-004 | 3.1000e-004 | 0.0000 | 2.1456 | 2.1456 | 2.0000e-005 | 0.0000 | 2.1459 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.7000e-004 | 3.9000e-004 | 4.0800e-003 | 1.0000e-005 | 6.6000e-004 | 1.0000e-005 | 6.6000e-004 | 1.7000e-004 | 1.0000e-005 | 1.8000e-004 | 0.0000 | 0.6388 | 0.6388 | 4.0000e-005 | 0.0000 | 0.6396 |
| **Total** | **9.1000e-004** | **0.0107** | **0.0115** | **3.0000e-005** | **1.2000e-003** | **1.8000e-004** | **1.3700e-003** | **3.2000e-004** | **1.7000e-004** | **4.9000e-004** | **0.0000** | **2.7844** | **2.7844** | **6.0000e-005** | **0.0000** | **2.7855** |

## 3.4 Grading - 2015

**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 | | | | | 0.1009 | 0.0000 | 0.1009 | 0.0548 | 0.0000 | 0.0548 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0455 | 0.4828 | 0.3100 | 3.1000e-004 | | 0.0263 | 0.0263 | | 0.0242 | 0.0242 | 0.0000 | 29.5339 | 29.5339 | 8.8200e-003 | 0.0000 | 29.7191 |
| **Total** | **0.0455** | **0.4828** | **0.3100** | **3.1000e-004** | **0.1009** | **0.0263** | **0.1272** | **0.0548** | **0.0242** | **0.0790** | **0.0000** | **29.5339** | **29.5339** | **8.8200e-003** | **0.0000** | **29.7191** |

## 3.4 Grading - 2015

### 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 | 0.0163 | 0.2646 | 0.1888 | 6.0000e-004 | 0.0138 | 4.3800e-003 | 0.0182 | 3.7900e-003 | 4.0300e-003 | 7.8200e-003 | 0.0000 | 54.9673 | 54.9673 | 4.3000e-004 | 0.0000 | 54.9764 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 7.9000e-004 | 1.1500e-003 | 0.0120 | 2.0000e-005 | 1.9300e-003 | 2.0000e-005 | 1.9500e-003 | 5.1000e-004 | 2.0000e-005 | 5.3000e-004 | 0.0000 | 1.8738 | 1.8738 | 1.1000e-004 | 0.0000 | 1.8760 |
| **Total** | **0.0171** | **0.2657** | **0.2008** | **6.2000e-004** | **0.0158** | **4.4000e-003** | **0.0202** | **4.3000e-003** | **4.0500e-003** | **8.3500e-003** | **0.0000** | **56.8411** | **56.8411** | **5.4000e-004** | **0.0000** | **56.8524** |

### 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 | | | | | 0.0454 | 0.0000 | 0.0454 | 0.0247 | 0.0000 | 0.0247 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0455 | 0.4828 | 0.3100 | 3.1000e-004 | | 0.0263 | 0.0263 | | 0.0242 | 0.0242 | 0.0000 | 29.5339 | 29.5339 | 8.8200e-003 | 0.0000 | 29.7191 |
| **Total** | **0.0455** | **0.4828** | **0.3100** | **3.1000e-004** | **0.0454** | **0.0263** | **0.0717** | **0.0247** | **0.0242** | **0.0489** | **0.0000** | **29.5339** | **29.5339** | **8.8200e-003** | **0.0000** | **29.7191** |

## 3.4 Grading - 2015

**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 | 0.0163 | 0.2646 | 0.1888 | 6.0000e-004 | 0.0138 | 4.3800e-003 | 0.0182 | 3.7900e-003 | 4.0300e-003 | 7.8200e-003 | 0.0000 | 54.9673 | 54.9673 | 4.3000e-004 | 0.0000 | 54.9764 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 7.9000e-004 | 1.1500e-003 | 0.0120 | 2.0000e-005 | 1.9300e-003 | 2.0000e-005 | 1.9500e-003 | 5.1000e-004 | 2.0000e-005 | 5.3000e-004 | 0.0000 | 1.8738 | 1.8738 | 1.1000e-004 | 0.0000 | 1.8760 |
| **Total** | **0.0171** | **0.2657** | **0.2008** | **6.2000e-004** | **0.0158** | **4.4000e-003** | **0.0202** | **4.3000e-003** | **4.0500e-003** | **8.3500e-003** | **0.0000** | **56.8411** | **56.8411** | **5.4000e-004** | **0.0000** | **56.8524** |

## 3.5 Paving - 2015

**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 | 7.7200e-003 | 0.0803 | 0.0504 | 7.0000e-005 | | 4.9100e-003 | 4.9100e-003 | | 4.5200e-003 | 4.5200e-003 | 0.0000 | 6.8979 | 6.8979 | 2.0200e-003 | 0.0000 | 6.9403 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **7.7200e-003** | **0.0803** | **0.0504** | **7.0000e-005** | | **4.9100e-003** | **4.9100e-003** | | **4.5200e-003** | **4.5200e-003** | **0.0000** | **6.8979** | **6.8979** | **2.0200e-003** | **0.0000** | **6.9403** |

## 3.5 Paving - 2015

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.2000e-004 | 4.7000e-004 | 4.8600e-003 | 1.0000e-005 | 7.8000e-004 | 1.0000e-005 | 7.9000e-004 | 2.1000e-004 | 1.0000e-005 | 2.1000e-004 | 0.0000 | 0.7612 | 0.7612 | 4.0000e-005 | 0.0000 | 0.7621 |
| **Total** | **3.2000e-004** | **4.7000e-004** | **4.8600e-003** | **1.0000e-005** | **7.8000e-004** | **1.0000e-005** | **7.9000e-004** | **2.1000e-004** | **1.0000e-005** | **2.1000e-004** | **0.0000** | **0.7612** | **0.7612** | **4.0000e-005** | **0.0000** | **0.7621** |

### 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 | 7.7200e-003 | 0.0803 | 0.0504 | 7.0000e-005 | | 4.9100e-003 | 4.9100e-003 | | 4.5200e-003 | 4.5200e-003 | 0.0000 | 6.8979 | 6.8979 | 2.0200e-003 | 0.0000 | 6.9403 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **7.7200e-003** | **0.0803** | **0.0504** | **7.0000e-005** | | **4.9100e-003** | **4.9100e-003** | | **4.5200e-003** | **4.5200e-003** | **0.0000** | **6.8979** | **6.8979** | **2.0200e-003** | **0.0000** | **6.9403** |

## 3.5 Paving - 2015

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.2000e-004 | 4.7000e-004 | 4.8600e-003 | 1.0000e-005 | 7.8000e-004 | 1.0000e-005 | 7.9000e-004 | 2.1000e-004 | 1.0000e-005 | 2.1000e-004 | 0.0000 | 0.7612 | 0.7612 | 4.0000e-005 | 0.0000 | 0.7621 |
| **Total** | **3.2000e-004** | **4.7000e-004** | **4.8600e-003** | **1.0000e-005** | **7.8000e-004** | **1.0000e-005** | **7.9000e-004** | **2.1000e-004** | **1.0000e-005** | **2.1000e-004** | **0.0000** | **0.7612** | **0.7612** | **4.0000e-005** | **0.0000** | **0.7621** |

## 3.5 Paving - 2016

**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 | 2.5700e-003 | 0.0264 | 0.0182 | 3.0000e-005 | | 1.6200e-003 | 1.6200e-003 | | 1.4900e-003 | 1.4900e-003 | 0.0000 | 2.4829 | 2.4829 | 7.4000e-004 | 0.0000 | 2.4983 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **2.5700e-003** | **0.0264** | **0.0182** | **3.0000e-005** | | **1.6200e-003** | **1.6200e-003** | | **1.4900e-003** | **1.4900e-003** | **0.0000** | **2.4829** | **2.4829** | **7.4000e-004** | **0.0000** | **2.4983** |

## 3.5 Paving - 2016

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.0000e-004 | 1.5000e-004 | 1.6000e-003 | 0.0000 | 2.9000e-004 | 0.0000 | 2.9000e-004 | 8.0000e-005 | 0.0000 | 8.0000e-005 | 0.0000 | 0.2673 | 0.2673 | 1.0000e-005 | 0.0000 | 0.2676 |
| **Total** | **1.0000e-004** | **1.5000e-004** | **1.6000e-003** | **0.0000** | **2.9000e-004** | **0.0000** | **2.9000e-004** | **8.0000e-005** | **0.0000** | **8.0000e-005** | **0.0000** | **0.2673** | **0.2673** | **1.0000e-005** | **0.0000** | **0.2676** |

### 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 | 2.5700e-003 | 0.0264 | 0.0182 | 3.0000e-005 | | 1.6200e-003 | 1.6200e-003 | | 1.4900e-003 | 1.4900e-003 | 0.0000 | 2.4829 | 2.4829 | 7.4000e-004 | 0.0000 | 2.4983 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **2.5700e-003** | **0.0264** | **0.0182** | **3.0000e-005** | | **1.6200e-003** | **1.6200e-003** | | **1.4900e-003** | **1.4900e-003** | **0.0000** | **2.4829** | **2.4829** | **7.4000e-004** | **0.0000** | **2.4983** |

## 3.5 Paving - 2016

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.0000e-004 | 1.5000e-004 | 1.6000e-003 | 0.0000 | 2.9000e-004 | 0.0000 | 2.9000e-004 | 8.0000e-005 | 0.0000 | 8.0000e-005 | 0.0000 | 0.2673 | 0.2673 | 1.0000e-005 | 0.0000 | 0.2676 |
| **Total** | **1.0000e-004** | **1.5000e-004** | **1.6000e-003** | **0.0000** | **2.9000e-004** | **0.0000** | **2.9000e-004** | **8.0000e-005** | **0.0000** | **8.0000e-005** | **0.0000** | **0.2673** | **0.2673** | **1.0000e-005** | **0.0000** | **0.2676** |

## 3.6 Building Construction - 2016

**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 | 0.4114 | 2.5682 | 1.8384 | 2.7400e-003 | | 0.1707 | 0.1707 | | 0.1647 | 0.1647 | 0.0000 | 232.1195 | 232.1195 | 0.0510 | 0.0000 | 233.1909 |
| **Total** | **0.4114** | **2.5682** | **1.8384** | **2.7400e-003** | | **0.1707** | **0.1707** | | **0.1647** | **0.1647** | **0.0000** | **232.1195** | **232.1195** | **0.0510** | **0.0000** | **233.1909** |

## 3.6 Building Construction - 2016

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0111 | 0.1129 | 0.1455 | 2.7000e-004 | 7.6900e-003 | 1.7900e-003 | 9.4800e-003 | 2.2000e-003 | 1.6400e-003 | 3.8400e-003 | 0.0000 | 24.6370 | 24.6370 | 1.8000e-004 | 0.0000 | 24.6407 |
| Worker | 0.0241 | 0.0354 | 0.3682 | 8.1000e-004 | 0.0658 | 5.6000e-004 | 0.0664 | 0.0175 | 5.2000e-004 | 0.0180 | 0.0000 | 61.6725 | 61.6725 | 3.3200e-003 | 0.0000 | 61.7422 |
| **Total** | **0.0352** | **0.1483** | **0.5136** | **1.0800e-003** | **0.0735** | **2.3500e-003** | **0.0759** | **0.0197** | **2.1600e-003** | **0.0218** | **0.0000** | **86.3095** | **86.3095** | **3.5000e-003** | **0.0000** | **86.3830** |

### 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 | 0.4114 | 2.5682 | 1.8384 | 2.7400e-003 | | 0.1707 | 0.1707 | | 0.1647 | 0.1647 | 0.0000 | 232.1192 | 232.1192 | 0.0510 | 0.0000 | 233.1906 |
| **Total** | **0.4114** | **2.5682** | **1.8384** | **2.7400e-003** | | **0.1707** | **0.1707** | | **0.1647** | **0.1647** | **0.0000** | **232.1192** | **232.1192** | **0.0510** | **0.0000** | **233.1906** |

## 3.6 Building Construction - 2016

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0111 | 0.1129 | 0.1455 | 2.7000e-004 | 7.6900e-003 | 1.7900e-003 | 9.4800e-003 | 2.2000e-003 | 1.6400e-003 | 3.8400e-003 | 0.0000 | 24.6370 | 24.6370 | 1.8000e-004 | 0.0000 | 24.6407 |
| Worker | 0.0241 | 0.0354 | 0.3682 | 8.1000e-004 | 0.0658 | 5.6000e-004 | 0.0664 | 0.0175 | 5.2000e-004 | 0.0180 | 0.0000 | 61.6725 | 61.6725 | 3.3200e-003 | 0.0000 | 61.7422 |
| **Total** | **0.0352** | **0.1483** | **0.5136** | **1.0800e-003** | **0.0735** | **2.3500e-003** | **0.0759** | **0.0197** | **2.1600e-003** | **0.0218** | **0.0000** | **86.3095** | **86.3095** | **3.5000e-003** | **0.0000** | **86.3830** |

## 3.7 Architectural Coating - 2017

**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 | 0.5318 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.9800e-003 | 0.0524 | 0.0448 | 7.0000e-005 | | 4.1600e-003 | 4.1600e-003 | | 4.1600e-003 | 4.1600e-003 | 0.0000 | 6.1278 | 6.1278 | 6.5000e-004 | 0.0000 | 6.1414 |
| **Total** | **0.5398** | **0.0524** | **0.0448** | **7.0000e-005** | | **4.1600e-003** | **4.1600e-003** | | **4.1600e-003** | **4.1600e-003** | **0.0000** | **6.1278** | **6.1278** | **6.5000e-004** | **0.0000** | **6.1414** |

## 3.7 Architectural Coating - 2017

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 8.6000e-004 | 1.2800e-003 | 0.0133 | 3.0000e-005 | 2.6300e-003 | 2.0000e-005 | 2.6500e-003 | 7.0000e-004 | 2.0000e-005 | 7.2000e-004 | 0.0000 | 2.3722 | 2.3722 | 1.2000e-004 | 0.0000 | 2.3748 |
| **Total** | **8.6000e-004** | **1.2800e-003** | **0.0133** | **3.0000e-005** | **2.6300e-003** | **2.0000e-005** | **2.6500e-003** | **7.0000e-004** | **2.0000e-005** | **7.2000e-004** | **0.0000** | **2.3722** | **2.3722** | **1.2000e-004** | **0.0000** | **2.3748** |

### 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 | 0.5318 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.9800e-003 | 0.0524 | 0.0448 | 7.0000e-005 | | 4.1600e-003 | 4.1600e-003 | | 4.1600e-003 | 4.1600e-003 | 0.0000 | 6.1278 | 6.1278 | 6.5000e-004 | 0.0000 | 6.1414 |
| **Total** | **0.5398** | **0.0524** | **0.0448** | **7.0000e-005** | | **4.1600e-003** | **4.1600e-003** | | **4.1600e-003** | **4.1600e-003** | **0.0000** | **6.1278** | **6.1278** | **6.5000e-004** | **0.0000** | **6.1414** |

### 3.7 Architectural Coating - 2017

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 8.6000e-004 | 1.2800e-003 | 0.0133 | 3.0000e-005 | 2.6300e-003 | 2.0000e-005 | 2.6500e-003 | 7.0000e-004 | 2.0000e-005 | 7.2000e-004 | 0.0000 | 2.3722 | 2.3722 | 1.2000e-004 | 0.0000 | 2.3748 |
| **Total** | **8.6000e-004** | **1.2800e-003** | **0.0133** | **3.0000e-005** | **2.6300e-003** | **2.0000e-005** | **2.6500e-003** | **7.0000e-004** | **2.0000e-005** | **7.2000e-004** | **0.0000** | **2.3722** | **2.3722** | **1.2000e-004** | **0.0000** | **2.3748** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

Increase Density

Improve Destination Accessibility

Increase Transit Accessibility

Integrate Below Market Rate Housing

Limit Parking Supply

| | ROG | NOx | CO | SO2 | Fugitive 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 | 0.1940 | 0.5695 | 2.1777 | 5.2300e-003 | 0.3558 | 7.7200e-003 | 0.3636 | 0.0952 | 7.1100e-003 | 0.1023 | 0.0000 | 404.6560 | 404.6560 | 0.0160 | 0.0000 | 404.9913 |
| Unmitigated | 0.2048 | 0.6547 | 2.4477 | 6.1300e-003 | 0.4186 | 9.0000e-003 | 0.4276 | 0.1120 | 8.2800e-003 | 0.1203 | 0.0000 | 473.9818 | 473.9818 | 0.0185 | 0.0000 | 474.3708 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 322.91 | 350.84 | 297.43 | 1,104,629 | 938,934 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| Total | 322.91 | 350.84 | 297.43 | 1,104,629 | 938,934 |

## 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 |
| Apartments Mid Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Enclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.512163 | 0.060173 | 0.180257 | 0.139094 | 0.042244 | 0.006664 | 0.016017 | 0.031880 | 0.001940 | 0.002497 | 0.004356 | 0.000592 | 0.002122 |

## 4.4 Fleet Mix

## 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Install Energy Efficient Appliances

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 93.1993 | 93.1993 | 4.2800e-003 | 8.9000e-004 | 93.5640 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 109.0720 | 109.0720 | 5.0100e-003 | 1.0400e-003 | 109.4988 |
| NaturalGas Mitigated | 2.1900e-003 | 0.0187 | 7.9600e-003 | 1.2000e-004 | | 1.5100e-003 | 1.5100e-003 | | 1.5100e-003 | 1.5100e-003 | 0.0000 | 21.6513 | 21.6513 | 4.1000e-004 | 4.0000e-004 | 21.7830 |
| NaturalGas Unmitigated | 2.6200e-003 | 0.0224 | 9.5300e-003 | 1.4000e-004 | | 1.8100e-003 | 1.8100e-003 | | 1.8100e-003 | 1.8100e-003 | 0.0000 | 25.9404 | 25.9404 | 5.0000e-004 | 4.8000e-004 | 26.0983 |

## 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 | | | | | |
| Enclosed Parking with Elevator | 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 |
| Apartments Mid Rise | 486105 | 2.6200e-003 | 0.0224 | 9.5300e-003 | 1.4000e-004 | | 1.8100e-003 | 1.8100e-003 | | 1.8100e-003 | 1.8100e-003 | 0.0000 | 25.9404 | 25.9404 | 5.0000e-004 | 4.8000e-004 | 26.0983 |
| **Total** | | **2.6200e-003** | **0.0224** | **9.5300e-003** | **1.4000e-004** | | **1.8100e-003** | **1.8100e-003** | | **1.8100e-003** | **1.8100e-003** | **0.0000** | **25.9404** | **25.9404** | **5.0000e-004** | **4.8000e-004** | **26.0983** |

### Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Apartments Mid Rise | 405729 | 2.1900e-003 | 0.0187 | 7.9600e-003 | 1.2000e-004 | | 1.5100e-003 | 1.5100e-003 | | 1.5100e-003 | 1.5100e-003 | 0.0000 | 21.6513 | 21.6513 | 4.1000e-004 | 4.0000e-004 | 21.7830 |
| Enclosed Parking with Elevator | 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 |
| **Total** | | **2.1900e-003** | **0.0187** | **7.9600e-003** | **1.2000e-004** | | **1.5100e-003** | **1.5100e-003** | | **1.5100e-003** | **1.5100e-003** | **0.0000** | **21.6513** | **21.6513** | **4.1000e-004** | **4.0000e-004** | **21.7830** |

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 173556 | 49.6660 | 2.2800e-003 | 4.7000e-004 | 49.8604 |
| Enclosed Parking with Elevator | 207592 | 59.4060 | 2.7300e-003 | 5.6000e-004 | 59.6384 |
| **Total** | | **109.0720** | **5.0100e-003** | **1.0300e-003** | **109.4988** |

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 158438 | 45.3396 | 2.0800e-003 | 4.3000e-004 | 45.5170 |
| Enclosed Parking with Elevator | 167244 | 47.8597 | 2.2000e-003 | 4.6000e-004 | 48.0470 |
| **Total** | | **93.1993** | **4.2800e-003** | **8.9000e-004** | **93.5640** |

# 6.0 Area Detail

## 6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Use Low VOC Cleaning Supplies

| | ROG | NOx | CO | SO2 | Fugitive 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 | 0.3421 | 5.9600e-003 | 0.5114 | 3.0000e-005 | | 2.7800e-003 | 2.7800e-003 | | 2.7800e-003 | 2.7800e-003 | 0.0000 | 0.8273 | 0.8273 | 8.3000e-004 | 0.0000 | 0.8449 |
| Unmitigated | 0.3421 | 5.9600e-003 | 0.5114 | 3.0000e-005 | | 2.7800e-003 | 2.7800e-003 | | 2.7800e-003 | 2.7800e-003 | 0.0000 | 0.8273 | 0.8273 | 8.3000e-004 | 0.0000 | 0.8449 |

## 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 | 0.0532 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.2729 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.0160 | 5.9600e-003 | 0.5114 | 3.0000e-005 | | 2.7800e-003 | 2.7800e-003 | | 2.7800e-003 | 2.7800e-003 | 0.0000 | 0.8273 | 0.8273 | 8.3000e-004 | 0.0000 | 0.8449 |
| **Total** | **0.3421** | **5.9600e-003** | **0.5114** | **3.0000e-005** | | **2.7800e-003** | **2.7800e-003** | | **2.7800e-003** | **2.7800e-003** | **0.0000** | **0.8273** | **0.8273** | **8.3000e-004** | **0.0000** | **0.8449** |

## 6.2 Area by SubCategory

**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 | 0.0532 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.2729 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.0160 | 5.9600e-003 | 0.5114 | 3.0000e-005 | | 2.7800e-003 | 2.7800e-003 | | 2.7800e-003 | 2.7800e-003 | 0.0000 | 0.8273 | 0.8273 | 8.3000e-004 | 0.0000 | 0.8449 |
| **Total** | **0.3421** | **5.9600e-003** | **0.5114** | **3.0000e-005** | | **2.7800e-003** | **2.7800e-003** | | **2.7800e-003** | **2.7800e-003** | **0.0000** | **0.8273** | **0.8273** | **8.3000e-004** | **0.0000** | **0.8449** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| Category | MT/yr | | | |
| Mitigated | 15.1160 | 0.0839 | 2.1000e-003 | 17.5288 |
| Unmitigated | 19.3078 | 0.1049 | 2.6300e-003 | 22.3255 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 3.19255 / 2.01269 | 19.3078 | 0.1049 | 2.6300e-003 | 22.3255 |
| Enclosed Parking with Elevator | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **19.3078** | **0.1049** | **2.6300e-003** | **22.3255** |

### 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 2.55404 / 1.61015 | 15.1160 | 0.0839 | 2.1000e-003 | 17.5288 |
| Enclosed Parking with Elevator | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **15.1160** | **0.0839** | **2.1000e-003** | **17.5288** |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 2.2877 | 0.1352 | 0.0000 | 5.1269 |
| Unmitigated | 4.5754 | 0.2704 | 0.0000 | 10.2538 |

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 22.54 | 4.5754 | 0.2704 | 0.0000 | 10.2538 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **4.5754** | **0.2704** | **0.0000** | **10.2538** |

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 11.27 | 2.2877 | 0.1352 | 0.0000 | 5.1269 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | | **2.2877** | **0.1352** | **0.0000** | **5.1269** |

## 9.0 Operational Offroad

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

## 10.0 Vegetation

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| Category | MT | | | |
| Unmitigated | 59.4720 | 0.0000 | 0.0000 | 59.4720 |

## 10.2 Net New Trees

**Species Class**

| | Number of Trees | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| | | MT | | | |
| Miscellaneous | 84 | 59.4720 | 0.0000 | 0.0000 | 59.4720 |
| **Total** | | **59.4720** | **0.0000** | **0.0000** | **59.4720** |

## APPENDIX F: ENVIRONMENTAL SITE ASSESSMENT

Pacific Environmental Company, Phase One Environmental Site Assessment 4704-4716 Peck Road El Monte, California 91732, dated May 19, 2014.

Pacific Environmental Company, Asbestos and Lead – Based Paint Survey Report 4712-4716 Peck Road El Monte, California 91732, dated March 17, 2014.

Pacific Environmental Company, Asbestos and Lead Abatement Workplan 4712-4716 Peck Road El Monte, California 91732, dated May 20, 2014.

# Phase One Environmental Site Assessment

## 4704-4716 Peck Road
## El Monte, California 91732

Prepared for:

**Hollywood Community Housing Corporation**
5020 Santa Monica Boulevard
Los Angeles, California 90029

Prepared by:

**Pacific Environmental Company**
28202 Cabot Road, Suite 300
Laguna Niguel, California 92677

March 19, 2014

Project Number: 14040

# Phase One Environmental Site Assessment

4704-4716 Peck Road
El Monte, California 91732

## Executive Summary

Pacific Environmental Company (PEC) was contracted to prepare this Phase I Environmental Site Assessment (ESA) for Hollywood Community Housing Corporation in accordance with American Society for Testing and Materials (ASTM) Standard E 1527-13 “Phase I Environmental Site Assessment Process”.

The subject property is located at 4704-4716 Peck Road in the City of El Monte, in the County of Los Angeles, California. The Los Angeles County Assessor identifies the site as assessor parcel numbers 8547-014-010 and 8547-014-11.

The ESA included a visual inspection of the site and surrounding areas; a review of historical records of the site; interviews with persons familiar with the site history; and a search and review of available Federal, state, local, and tribal environmental files and databases. The purpose of this ESA is to identify recognized environmental conditions at the site. Environmental conditions are related to the potential presence of hazardous substances, petroleum products, or their derivatives, as defined in the applicable Federal and State of California environmental laws and regulations, occurring from past and present activities at the site or the surrounding areas.

The site includes two contiguous parcels of land at the northeast intersection of Peck Road and Ranchito Street in the City of El Monte, California. The southern parcel is a vacant, approximately 15,000 square foot lot. The northern parcel is a 30,000 square foot lot that is developed with a tire store and a former dwelling that is leased to an individual that operates a qigong clinic (an ancient Chinese health care system that integrates physical postures, breathing techniques and focused intention).

Historically, the property was in agricultural use until the initial development at the site property occurred in the early 1930s when a dwelling was built on the northern portion of the site. A real estate office was located on the corner portion of the site at Peck Road and Ranchito Street in the 1940s. In 1948, the existing tire store was built and it has been used for a variety of businesses, including retail ice cream sales in the 1940s and 1950s, a drive-in retail store in the 1960s and most recently as a retail tire business from the 1980s to present. A retail nursery operated at the 4704 Peck Road portion of the site from the 1950s through the 1980s. The real estate office was demolished in 1971 and the former nursery building was demolished in the late1980s.

A review of available regulatory database information was conducted for specified federal and state agencies. The subject property is listed in the HUALERS database and the Well Investigation Program (WIP) database.

- The HAULERS listing is due to the transportation of tires to and from the site for the retail tire sales operations at the site. Inclusion on this database does not represent an environmental condition that would warrant further evaluation.
- The Well Investigation Program was developed to locate, assess and remediate sources of solvent contamination impacting drinking water wells. As a part of the statewide monitoring program that was conducted under the direction of the California Department of Health Services, public drinking water wells in the vicinity of the subject property were sampled and results indicated the presence of organic contaminates in many of the surrounding water wells. The subject site is located geographically within the area of concern and the Norwood Nursery (along with several other surrounding businesses) was identified as possibly engaging in practices which might have required the storage and use of chemicals. As a result, the Norwood Nursery was required to complete a questionnaire and be inspected by the Water Board. We reviewed the historical files at the Water Board and based on the Water Board's inspection and information provided by the nursery, the determination was made that and no further action or assessment was warranted. Based on the Water Board's determination, inclusion on this database does not represent an environmental condition that would warrant further evaluation.

Presence of leaking underground storage tanks and other potentially impacted sites identified in the regulatory database review within the specified radius of the subject site are worthy of notice, although they generally do not appear to pose a significant threat to the environmental conditions of the subject site because of their distance and status with the enforcement agencies.

No environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with a property, and this practice recognizes reasonable limits of time and cost.

The survey conducted by PEC to support this ESA, along with interviews, regulatory database reviews, agency file reviews and the site history has not revealed evidence of recognized environmental conditions as defined by the ASTM Standards in connection with the present or historical use of the site property or adjacent properties. As such, PEC does not recommend further environmental assessment of the subject site at this time.

One de minimis condition (a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies) was identified at the site. There are several empty or dried out paint cans being stored on the side of the 4712 Peck Road structure that should be recycled or disposed of at a household hazardous waste roundup center.

Asbestos-containing materials (ACM) and lead-based paints were identified at the property. While the presence of ACM and lead-based paints do not represent a recognized environmental condition, Pacific Environmental recommends that all future renovation, demolition, construction or abatement activities with the potential for disturbing the identified ACM or lead laden materials, be performed by properly trained and qualified personnel. These activities should employ state-of-the-art techniques, and be conducted in accordance with all applicable local, State and Federal laws and regulations.

## Acronyms and Abbreviations

| | |
|---|---|
| AST | Above Ground Storage Tank |
| ASTM | ASTM International, formerly known as the American Society for Testing and Materials |
| AUL | Activity and Use Limitations |
| bgs | Below Ground Surface |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| CERCLIS | Comprehensive Environmental Response, Compensation and Liability Information System |
| CFR | Code of Federal Regulations |
| CORRACTS | Facilities subject to Corrective Action under RCRA |
| CREC | Controlled Recognized Environmental Conditions |
| DOGGR | Division of Oil Gas and Geothermal Resources |
| DTSC | California Department of Toxic Substances Control |
| DWR | California Department of Water Resources |
| EDR | Environmental Data Resources, Inc. |
| EP | United States Environmental Protection Agency. |
| EPCRA | Emergency Planning and Community Right to Know Act |
| ERNS | Emergency response notification system. |
| ESA | Environmental Site Assessment |
| FOIA | U.S. Freedom of Information Act |
| HREC | Historical Recognized Environmental Condition |
| ICs | Institutional Controls. |
| LLP | Landowner Liability Protections under the Brownfields Amendments |
| LUST | Leaking Underground Storage Tank. |
| mg/kg | Milligrams per Kilogram |
| msl | Mean Seal Level |
| NFRAP | Former CERCLIS sites where no further remedial action is planned under CERCLA |
| NPDES | National Pollutant Discharge Elimination System |
| NPL | National Priorities List |
| PEC | Pacific Environmental Company |
| PCB | Polychlorinated Biphenyls |
| PRP | Potentially Responsible Party (pursuant to CERCLA 42 U.S.C. §9607(a)) |
| RCRA | Resource Conservation and Recovery Act (as amended, 42 U.S.C.§§6901 et seq.) |
| REC | Recognized Environmental Conditions |
| RWQCB | Regional Water Quality Control Board |
| SARA | Superfund Amendments and Reauthorization Act |
| SCAWMD | South Coast Air Quality Management District |
| TSDF | Hazardous waste treatment, storage or disposal facility. |
| USGS | United States Geological Survey |
| VEC | Vapor Encroachment Conditions |
| VES | Vapor Encroachment Screening |
| WIP | Well Investigation Program |

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# Phase One Environmental Site Assessment

## 4704-4716 Peck Road
## El Monte, California 91732

## Summary

This Phase One Environmental Site Assessment (ESA) was conducted consistent with the procedures included in American Society for Testing and Materials (ASTM) Standard E 1527-13 “Phase I Environmental Site Assessment Process”. The ESA was conducted under the supervision or responsible charge of Michael J. Lyssy, Registered Environmental Property Assessor. The site reconnaissance was conducted on March 6, 2014.

### Purpose

An ESA is intended for use on a voluntary basis by parties who wish to assess the environmental condition of commercial real estate taking into account commonly known and reasonably ascertainable information. While use of this process is intended to constitute all appropriate inquiries for purposes of the Landowner Liability Protections (LLPs), it is not intended that its use be limited to that purpose. An ESA is intended primarily as an approach to conducting an inquiry designed to identify recognized environmental conditions in connection with a property.

Recognized environmental conditions (RECs) are defined by ASTM as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

RECs include both Controlled Recognized Environmental Conditions (CREC), which are for hazardous substance releases that have been partially addressed through remediation, but where some contamination remains in place under certain risk- based restrictions or conditions (e.g., engineering or institutional controls), and Historical Recognized Environmental Conditions (HREC) where past contamination has been addressed to unrestricted residential standards.

De minimis conditions, a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies, are not recognized environmental conditions.

### Assessment Methodology

There are four components to the process of an ESA: records review; site reconnaissance; interviews; and reporting. This ESA considered the following readily available sources for information concerning environmentally significant current and past uses of the site and the surrounding properties.

- Detailed search and review of available information and records in the possession of the current ownership or records made available by regulatory agencies or other involved Federal agencies. Relevant information and records typically include additional study information (e.g., planning and designs; surveys for asbestos-

containing material [ACM], lead-based paint [LBP], radon, and polychlorinated biphenyls [PCBs]) necessary to determine the environmental condition of the site and surrounding properties.

- Review of reasonably obtainable Federal, state, local, and tribal government records for each adjacent property where there has been a release of any hazardous substance or petroleum product that is likely to cause or contribute to a release or threatened release of any hazardous substance or petroleum product on the site.
- Interviews with the User of this ESA, regulatory personnel and current or former employees involved in operations on the site and surrounding properties.
- A visual site inspection of the subject property, including buildings, structures, equipment, utilities, pipelines, or other improvements, and of properties immediately adjacent to the site, noting sewer lines, runoff patterns, evidence of environmental impacts (e.g., stained soil, dead or stressed vegetation, dead or ill wildlife), and other observations that indicate actual or potential releases of hazardous substances or petroleum products. Site photographs are presented in Appendix C.
- Identification of sources of contamination at the site and on adjacent properties that could migrate to the site.
- A physical inspection of properties adjacent to the site

Existing data on contaminants in the following media were considered in the evaluation: air, soil, groundwater, surface water, soil gas and vapor, leachate, sludge, and sediment. Common sources of contaminants in these media are hazardous materials and waste, lead, solid waste, PCBs, leakage from aboveground storage tanks (ASTs) and underground storage tanks (USTs), ACM, petroleum spills, wastewater treatment and discharge, pesticides, radon, biomedical waste, stationary air sources, radioactive waste, photochemical waste, oil, paints, solvents, and lubricants.

### Data Collection

Data collection involves gathering information from all relevant and reasonably available real property records, facility drawings, maps, and photographs to identify historical land and facility uses that might be primary indicators of potential contamination. Studies and field investigations of past releases are then collected to identify areas where the presence (or absence) of contamination has been confirmed. Other records, audits, and surveys addressing CERCLA-exempt substances, as defined in 42 U.S.C. 9604, are also collected to identify other potential environmental concerns that might affect use of the site. The data collection phase also encompasses visual site inspections and interviews.

During the visual site inspection, the site and adjacent properties were inspected to identify evidence of stressed vegetation, stained soils, unknown soil piles, unusual odors, and other indications that suggest the presence of contamination. Interviews are conducted to determine whether past or current management practices might have contributed to the release or migration of petroleum products or hazardous substances, and to identify other potential environmental concerns not recorded in the documents or identified during the inspection.

The purpose of the record review is to identify the documented environmental condition of the properties related to the ESA. The records search focuses primarily on all relevant and reasonably available records, reports, permits, and maps maintained by the user or owner. Professional judgment was used to determine what data are necessary to establish the environmental condition associated with the site.

### Environmental Regulatory Databases

To support the preparation of this ESA, Environmental Data Resources, Inc. (EDR) conducted a search of available environmental regulatory record databases maintained by the U.S. Government, State of California, local governments,

and Native American Indian tribes. The EDR report lists environmentally regulated and known or suspected contaminated properties identified by EDR as being within a specific area of the site, in accordance with ASTM E1527-13. A summary of the results of this search is provided Records Review section of this report. The EDR report and the findings are provided as Appendix E.

### Personnel Interviews

To support the preparation of this ESA, PEC interviewed personnel with knowledge of the historical environmental conditions and maintenance of the site both formally and informally, and about current and past environmental conditions at the subject property. Topics discussed during these interviews included inquiries regarding past and ongoing remediation activities, environmental permitting activities, and utilities and infrastructure. Information from the interviews is referenced throughout this document.

### Visual Site Inspection

The purpose of the visual site inspection of structures and land areas was to determine whether any potential environmental concerns are present at the site. On March 6, 2014, we visited the site, viewed the property, and did not note any areas of environmental concern. A precursory visual inspection was conducted for materials with any indications of storage or use of hazardous substances, petroleum products, or their derivatives.

The visual site inspection of the associated land focused on inspecting the land surface for pits, disturbed soils, and other visible evidence of possible dumping; stained soils, stressed vegetation, odors, and other evidence of former chemical releases; and building foundations, old roadbeds, and other physical evidence of former land uses that could have been sources of chemical or petroleum contamination. The perimeters of the site were viewed to visually scan the interior landscape and adjacent properties.

### Project Site Summary

The subject property is located at 4704-4716 Peck Road in the City of El Monte, in the County of Los Angeles, California. The Los Angeles County Assessor identifies the site as assessor parcel numbers 8547-014-010 and 8547-014-11.

The site includes two parcels of land at the northeast intersection of Peck Road and Ranchito Street in the City of El Monte, California. The southern parcel is a vacant, approximately 15,000 square foot lot. The northern parcel is developed with a tire store and a former dwelling that is leased to an individual that conducts group meditation, it is a 30,000 square foot lot.

### Opinions

The site visit, a review of available regulatory agency information, historical use, discussions with persons knowledgeable about the subject property, did not produce evidence of recognized environmental conditions associated with the past or present use of the property located at 4704-4716 Peck Road in the City of El Monte, in the County of Los Angeles, California.

### Conclusions

Pacific Environmental Company has performed this assessment in conformance with the scope and limitations of ASTM Practice E 1527-13 on the property located at 4704-4716 Peck Road in the City of El Monte, in the County of Los Angeles, California. Based on the results of our ESA, there is no evidence of recognized environmental conditions at the subject property.

# Introduction

## Purpose

Pacific Environmental Company (PEC) was retained to prepare a Phase One Environmental Site Assessment (ESA) at the property located at 4704-4716 Peck Road in the City of El Monte, in the County of Los Angeles, California (site) in conformance with the scope and limitations of American Society for Testing and Materials (ASTM) Standard E 1527-13 "Phase I Environmental Site Assessment Process".

The primary purpose of this ESA was to assess the potential for recognized environmental conditions on the site property and/or such conditions that might have impacted the site property from adjacent properties. This report is based on a preliminary study of the current and historical use of the subject property and surrounding areas. The assessment included a visual inspection of the subject property and adjacent properties, a review of regulatory agency records, historic record sources, interviews with persons knowledgeable of the site and a review of prior assessment data for the site. Also included in this report are maps, diagrams and photographs pertaining to the site.

## Detailed Scope of Services

This report was prepared generally in accordance with the American Society for Testing Materials Standard E1527-13 Phase I Environmental Site Assessment Process. Our assessment services included, but were not limited to, the following:

- A reconnaissance-level visit to the subject property for evidence of the release(s) of hazardous materials and/or petroleum products and to assess the potential for on-site releases of hazardous materials and/or petroleum products.
- An evaluation of land use in the vicinity of the site.
- A review of regulatory files of reported on- and off-site release cases.
- Interviews regarding the site and site history.
- Report development including summary of conclusions and recommendations.

## Significant Assumptions

PEC assumes that the purpose of this assessment is to provide appropriate inquiry into the previous ownership and use of the site consistent with good commercial and customary business practice in an effort to identify environmental risk associated with the site. PEC also assumes that the information provided by the site owner, the regulatory database provider, and the regulatory agencies is true and reliable.

## Limitations and Exceptions of Assessment

The scope of work for this assessment did not include testing of electrical equipment for the potential presence of PCBs or collection of environmental samples. The scope of work did not include an assessment of natural hazards such as naturally occurring asbestos, radon gas or methane gas, an assessment for the potential release of radionuclides, an assessment of non-chemical hazards such as the potential for damage from earthquakes or floods, or an assessment of the presence of endangered species or wildlife habitats. This Phase One Environmental Site Assessment also did not include an extensive assessment of the environmental compliance status of the site or a health-based risk assessment.

ASTM E 1527-13 acknowledges that "No environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property. Performance of this practice is intended

to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions in connection with a property, and this practice recognizes reasonable limits of time and cost."

All appropriate inquiries does not mean an exhaustive assessment of a property. There is a point at which the cost of information obtained or the time required to gather it outweighs the usefulness of the information and, in fact, may be a material detriment to the orderly completion of transactions. One of the purposes of this practice is to identify a balance between the competing goals of limiting the costs and time demands inherent in performing an environmental site assessment and the reduction of uncertainty about unknown conditions resulting from additional information.

### Special Terms and Conditions

This Phase One Site Assessment is not intended to identify all hazards or unsafe conditions or imply that others do not exist.

PEC has performed this assessment in a professional manner using the degree of skill and care exercised for similar projects under similar conditions by reputable and competent environmental consultants. PEC shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld or not fully disclosed at the time that the assessment was conducted.

Pacific Environmental Company did not identify any significant data gaps, as defined by ASTM, that affected the ability to identify recognized environmental conditions in connection with the property.

### User Reliance

This document was prepared for the sole use of Hollywood Community Housing Corporation, their advisors and their successors and assignees, and may be relied upon by such successor(s) or assignee(s) and lenders and investors. No other party should rely on the information contained herein without prior written consent of Hollywood Community Housing Corporation and PEC. Our professional judgment to assess the potential for contamination is based on limited data; no other warranty is given or implied by this report.

## User Provided Information

### Title Records

Pacific Environmental Company was not provided with a copy of the Title Insurance Policy or Preliminary Title Report for the property. According to the County Assessor, the deed for both parcels was recorded on December 18, 2006.

### Environmental Liens or Activity and Use Limitations

Pursuant to the ASTM standard, if the User has actual knowledge of environmental cleanup liens or activity and use limitations encumbering the subject property or in connection with the subject property, the User should provide that information to the Environmental Professional. The User was not aware of environmental liens associated with the subject property. An environmental lien search was not requested as a part of this ESA; however, based on our review of the Department of Toxic Substances Control (DTSC) EnviroStor Database and discussions regarding the title history, no environmental liens have been identified.

### Specialized Knowledge or Experience of the User

The user was not aware of any specialized knowledge regarding the environmental conditions of the subject site.

### Actual Knowledge or Experience of the User

The User has no knowledge of any environmental issues associated with the subject property.

### Commonly Known or Reasonably Ascertainable Information

No commonly known or reasonably ascertainable information regarding the environmental conditions of the subject site was identified by the User for this assessment.

### Reason for Significantly Lower Purchase Price

There does not appear to be a reduction in valuation for environmental issues associated with the subject property.

### Degree of Obviousness

Per the ASTM Standard, the User must consider the degree of obviousness of the presence or likely presence of releases or threatened releases at the property and the ability to detect releases or threatened releases by appropriate investigation. Based on our discussions with the User, along with a review of reports to regulatory agencies, Hollywood Community Housing Corporation has no reason to suspect releases on site that would have had any effect on the environmental conditions of the site.

### Owner, Property Manager, and Occupant Information

No negative information was reported regarding the environmental conditions of the subject property by the owner. The owner provided the User with a copy of a *Phase I Environmental Assessment Report* that was prepared for Coldwell Banker Commercial by ACS Associates (File No. 101413) dated October 14, 2013. ACS Associates concluded that "*There appears to be no significant environmental problems or concerns caused by the practices of the SITE and its immediate neighbors, based on the results of this investigation. No additional environmental investigation is recommended at present*."

## Reason for Performing Phase 1

The objective of this assessment was to provide an independent professional opinion regarding recognized environmental conditions, if any, associated with the site and/or such conditions that might have impacted the site property from adjacent properties.

## Records Review

### Standard Environmental Records Sources

PEC has reviewed federal, state, and local database records for the site and surrounding properties. Records provide information on whether hazardous substances, wastes or petroleum products have been improperly handled, stored, or disposed of on or adjacent to the site.

The federal and state records review was accomplished through a computer database search of facilities, which appear on a series of government lists. The database search for the site and surrounding properties was performed for PEC by Environmental Data Resources, Inc. (EDR) of Shelton, Connecticut. A copy of EDR's report dated March 3, 2014, is included in Appendix E of this Report. The databases were searched for properties with reported environmental issues within radii specified by ASTM Standard E1527-13, either by using geocoding information that identified the coordinates of the properties in the databases or by checking the street addresses of practically reviewable non-geocoded "orphan" properties within the same zip code. Facilities which are located beyond the specified search radii were not discussed as they are not considered potential environmental concerns due to their distances. The database report identified several "orphan sites." Orphan sites are those facilities which could not be mapped or geocoded due to inadequate address information. PEC attempted to locate these facilities via vehicular reconnaissance and interviews with personnel familiar with the area.

The subject site was identified in the HAULERS databases as a result of Carillo Tire & Wheels transporting tires to and from the property for their operations. Inclusion in this database does not represent an environmental condition for the subject property.

The former Norwood Nursery operations on the southern portion of the site is also listed in the Well Investigation Program database as a result of an area wide remedial investigation directed by the Los Angeles Department of Water and Power between 1987 and 1992 for the USEPA to identify possible responsible parties associated with groundwater contamination in the Basin and it was deemed that their operations had not contributed to groundwater contamination. In a letter from the Water Board to Norwood Nursery dated April 11, 1988 (included in Appendix D) the Water Board made the determination that the Norwood Nursery operations did not require further assessment or evaluation and that nor further action was required on their part.

### Federal Regulatory Agency Records Review

There were no listings identified for the following federal databases that were searched per the ASTM Standard:

- National Priority List Sites
- Proposed National Priority List Sites
- Federal CERCLIS List Sites
- Federal CERCLIS CORRACTS List Sites
- Federal CERCLIS NFRAP Facility List Sites
- Federal Superfund Liens
- National Priority List Deletions
- Federal Facility Site Information listing
- RCRA - Treatment, Storage and Disposal Facilities
- RCRA – Large Quantity Generators
- RCRA Corrective Action Activity List Sites
- ERNS Emergency Response Notification System
- US Brownfields

### Resource Conservation and Recovery Information System (RCRIS)

RCRA hazardous waste generators are identified as Large Quantity Generators (LQGs), Small Quantity Generators (SQGs), or Conditionally Exempt Small Quantity Generators (CESQG). RCRA SQGs are identified as those facilities that generate less than 1,000 kilograms of non-acutely hazardous waste monthly.

According to the RCRIS facility list, there are one (1) Large Quantity RCRA Generator and three (3) Small Quantity RCRA Generators within one half of a mile from the site and none of which are adjacent to the site. The listed facilities include; CVS Pharmacy No. 5834, Boulevard Cleaners, Merrill Cleaners and Carl's Auto Electric. None of these sites are adjacent to the subject property and there are no open violations related to their operations detailed. These generator sites are not expected to have an impact on the environmental conditions of the subject property.

No other facilities were identified during the federal regulatory agency records review as being located within the specified search radii from the Site with the potential to impact the Site.

### State Regulatory Agency Records Review

There were no listings identified for the following state databases that were searched per the ASTM Standard:

- RESPONSE (State equivalent to the NPL)
- Solid Waste/Disposal Facilities
- State and Tribal Underground Storage Tank List within 0.25 miles
- State and Tribal Above Ground Storage Tank List within 0.25 miles
- Voluntary Cleanup Program Files

Mapped sites that were identified within the defined radius include the following:

### ENVIROSTOR

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The databases 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. The following table presents our review comments for the listed site:

| **ENVIROSTOR Sites** | | |
|---|---|---|
| Name/Address | Distance/Direction/Gradient | Comments |
| Kardashian and Max Goldring | 0.909 miles/NE/Higher-Cross | There was a swine farm and associated garbage pit located at the site during the 1940s to 1960's. Also Kardashians operated a refuse hauling business in California. It is suspected to be a potential waste problem at the site. No sampling was conducted at the site. Because of the above a low priority PEA is required at the site to identify any contamination at the site. Given this properties location relative to the subject site, it is not expected to impact the conditions of the site. |

### Leaking Underground Storage Tanks (LUSTs) / Leaking Underground Fuel Tanks (LUFT)

The California Regional Water Quality Control Board compiles lists of all leaks of hazardous substances from underground storage tanks.

According to the state LUST/LUFT facility list, three (3) LUST facilities at two (2) addresses are located within a one-half mile radius of the site.

The Wortman Oil #7 case at 4732 N. Peck Road is an old case as a result of the 1996 removal of underground storage tanks from a Mobil branded gas station. The old USTs were removed and limited soil contamination was identified, however the lab data suggested rapid attenuation to 18 feet bgs. While the consultant on the project (Atlas Engineering) recommended closure with no further action, the Public Works Department requested further assessment. A 1997 workplan was rejected due to the request for five borings as opposed to the proposed three. The case sat dormant until recently when the RWQCB took over management of the file and is requiring the additional assessment. The assessment work is due later this year. Based on our review of the prior analytical data, which suggests that only shallow soils have been impacted, along with the reported southwesterly direction of regional groundwater, this property is not expected to have any impact on the environmental conditions of the subject property.

The Exxon station at 4801 Peck Road is listed with a case closed status. Based on the “case closed” status with the regulatory agencies, it is not expected to have an impact on the environmental conditions of the subject property.

### Spills, Leaks, Investigations and Cleanup Sites (SLIC)

The California Regional Water Quality Control Board compiles lists of all spills, leaks, investigations and cleanups. There is one site, Merrill Cleaners at 4727 N. Peck Road, north of the site, on this database. The SLIC case file indicates that a spill occurred in 1994 but that further assessment is still pending. This location is not expected to have an impact on the conditions of the subject property given it’s location relative to the site and the reported depth of groundwater in the vicinity of the property.

### Local Lists of Underground Storage Tanks (USTs)

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, and local oversight agencies.

There are three (3) registered UST sites within one quarter of a mile of the site, none of which are adjacent to the property. None of these three sites are expected to have any impact on the environmental conditions of the site.

## Non ASTM/AAI Regulatory Agency Records Review

### Local Lists of Underground Storage Tanks (USTs)

There are several sites listed in the FID UST, HIST UST and SWEEPS UST databases. Listing on these databases is primarily for inventory and tracking purposes and is not necessarily indicative of an environmental concern at the site. There are no indications of any leaks associated with the tanks at these sites and none are immediately adjacent to the subject property. Therefore, they are not anticipated to be a concern to the subject property.

### Well Investigation Program

The Well Investigation Program was developed to locate, assess and remediate sources of solvent contamination impacting drinking water wells. As a part of the statewide monitoring program that was conducted under the direction of

the California Department of Health Services, public drinking water wells in the vicinity of the subject property were sampled and results indicated the presence of organic contaminates in many of the surrounding water wells. The subject site is located geographically within the area of concern and the Norwood Nursery (along with several other surrounding businesses) was identified as possibly engaging in practices which might have required the storage and use of chemicals. As a result, the Norwood Nursery was required to complete a questionnaire and be inspected by the Water Board. We reviewed the historical files at the Water Board and based on the Water Board's inspection and information provided by the nursery, the determination was made that and no further action or assessment was warranted. Based on the Water Board's determination, inclusion on this database does not represent an environmental condition that would warrant further evaluation.

### EDR 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. There are none (9) listings in the vicinity of the site, although none are adjacent or at the site. These historic listings are not suspected to have had an impact on the environmental conditions of the subject property.

### EDR 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. There are five (5) properties included on this list, none of which are located at or adjacent to the site. There are no records of spills for any of these sites and they are not expected to have had an impact on the environmental conditions of the subject site.

The remaining facilities listed on the EDR report either have a case-closed status, are located cross- or down-gradient from the site in relation to the reported groundwater flow direction, have an impacted area confined to the surrounding soil only, or are located at such a distance as to not pose an environmental concern to the site.

### Additional Environmental Record Sources

Several additional databases were researched and reviewed in determining the presence of recognized environmental conditions on the subject site.

County of Los Angeles, Department of Public Works
Environmental Programs Division

Pacific Environmental Company contacted the Los Angeles County Department of Public Works to determine if any permits, notices to comply or notices of violations were issued to the subject site. There were no records for the subject site on file.

South Coast Air Quality Management District (SCAQMD)
Records Request Unit

Pacific Environmental Company researched the SCAQMD FIND database to determine if any permits, notices to comply or notices of violations were issued to the subject site. There were no records for the subject site on file.

State of California
Department of Toxic Substances Control

Pacific Environmental Company contacted the State of California Department of Toxic Substances Control to determine if any records exist relating to the subject site. There were no records for the subject site on file.

County of Los Angeles Fire Department
Site Mitigation Unit

Pacific Environmental Company contacted the County of Los Angeles Fire Department to determine if any underground storage tanks or other environmental conditions have existed or been removed from any of the addresses associated with the subject property. There were no records for the subject site on file.

County of Los Angeles
Department of Public Health

Pacific Environmental Company contacted the Los Angeles County Department of Public Health to determine if any records exist relating to the subject site. There were no records for the subject site on file.

Los Angeles Regional Water Quality Control Board (LARWQCB)

Pacific Environmental Company reviewed the records maintained by the RWQCB for the subject site to determine if any enforcement action has every taken place at the subject site. We also reviewed the Geotracker website that is maintained by the RWQCB. There were no records for the site on file.

State of California, Department of Conservation
Division of Oil, Gas & Geothermal Resources (DOGGR)

A review of the DOGGR maps did not indicate oil or gas exploration or production wells at the site. There are no wells in the immediate vicinity of the site.

## Vapor Encroachment Screening

Tier 1 vapor encroachment screening at the Site was conducted in conformance with the scope and limitations of ASTM Practice E 2600-10. Vapor intrusion and/or vapor encroachment from subsurface sources onto parcels of real estate and the resulting concerns with health hazards and potential liabilities have become an increasingly significant issue within the environmental consulting industry. Vapor encroachment is the migration of volatile chemicals from the subsurface into overlying buildings. Volatile chemicals may include volatile organic compounds, select semivolatile organic compounds, and some inorganic analytes, such as elemental mercury and hydrogen sulfide. ASTM defines a vapor encroachment condition (VEC) as the presence or likely presence of vapors from chemicals of concern (COC) in the subsurface of a property caused by the release of vapors on or near the property.

The ASTM Standard features a two-tiered approach to vapor encroachment screening. Information collected during Tier 1 vapor encroachment screening is similar to that collected during a Phase I ESA investigation and includes such information as:

- Federal, state, local, and tribal government records;
- Chemical use records and prior use records of the property and the area of concern;

- Soil, geological, and contaminant characteristics;
- Contaminant plume migration and possible pathways;
- Groundwater depth and flow; and
- Property information data.

If a VEC cannot be ruled out by Tier 1 screening, the user may proceed to the Tier 2 process. Tier 2 requires a more refined screening that uses numeric data gained through evaluation of existing files and documents or collected by sampling the soil, soil gas, and/or groundwater of the property.

As stated in the guide, the use of E 2600 is voluntary and does not alter U.S. EPA's All Appropriate Inquiry requirements, nor does it necessarily address requirements of federal, state, or local laws with respect to vapor intrusion. ASTM states that E 2600 is not to be a replacement for Practice E 1527 and that the VES can be performed independently of or in conjunction with Practice E 1527.

To evaluate the potential for vapor encroachment conditions, we utilized EDR's VEC Application. The EDR VEC App™ streamlines the data review process through an integrated data interface, which includes:

- Current environmental records with full details
- USGS contour lines and a geo-referenced current USGS topographic map
- Sanborn Maps that are geo-referenced
- USDA soils data for quick access to soil type.
- A current aerial photo for accurate distance measurements
- EDR's exclusive aquiflow data for groundwater depth and direction
- EDR's proprietary gas station/dry cleaner data to identify historical environmental concerns

The results of our analysis indicate that Vapor Encroachment Conditions are not suspected for this property. Properties in the vicinity of the site with the potential to impact vapor conditions of the subject site have been evaluated and they are not expected to have an impact on the conditions of the site.

### Physical Setting Sources

A United States Geological Survey (USGS) 7.5 Minute Topographical Map (El Monte Quadrangle) of the subject property and surrounding area is included in the appendices of the report. The Division of Mines and Geology Geographic Map of California, Los Angeles Sheet also was used in determining the physical setting characteristics of the subject site. The subject site is located at an approximate elevation 322 feet above mean sea level in the San Gabriel Valley just northeast of Whittier Narrows in Los Angeles County. The San Gabriel Mountains are located to the north, the Whittier narrows area to the south, the Puente Hills to southeast and the Repetto Hills to the southwest. Pleistocene age sediments of the Lakewood Formation are described as marine and continental gravel, sand, sandy silt, silt and clay with shale pebbles. The recent Alluvium is described as gravel, sands, silt and clay.

Hydrologically, the site is located within the San Gabriel Groundwater Basin where the Gaspur and Gardena Aquifers are the shallowest aquifers utilized in the Lakewood Formation. Other deeper aquifers located in the deeper San Pedro Formation are the Jefferson, Lynwood and the Silverado Aquifers. The subject site is situated approximately 320 feet above Mean Sea Level. Based on a verbal communication with a representative of the Los Angeles County Department of Public Works, well number 2991-T located two blocks east of the site on Ranchito Street and La Madera Avenue has

a static water elevation of 76.50 feet below ground surface elevation. The direction of flow is estimated to be southwest, based upon surface topography in the area of the site.

### Historical Use Information on the Property

Pacific Environmental reviewed historical and adjacent property use to assess whether tenants of the property or adjacent sites may have conducted activities that could pose environmental concerns to the subject site. Our review included historical building permits on file at the City of Los Angeles, aerial photographs, historical Sanborn Fire Insurance Maps, historic phone directory records and historic topographic maps for this assessment.

Sanborn Fire Insurance Maps

Sanborn coverage is not available for the subject property.

City Directory Abstract

Some forms of City Directories have been published for major cities and towns across the United States since the 18th century. Originally, the Directories published in the 20th century also included a street index. For each street address, the Directory listed—and, in some cases, still lists—the name of the resident or business operating from this address during a given year. City Directories are a valuable source of historical information with regard to site tenancy and use.

EDR provided a City Directory Abstract and PEC reviewed Directories from the period from 1920 to 2013. The details of our review of the historical directories is as follows:

4704 Peck Road: Norwood Nursery 1957-1985

4710 Peck Road: Hart Geo RE EST (Real Estate)
Teeple RE (Likely meant to be Peoples Real Estate) 1960-1966

4716 Peck Road: Louis Peoples 1957-1960
Milkmaid Frostie 1960
Trade Winds Drive-In 1966
Pacos Tires & Wheels, Si Monte Mobile Electronics 1985
Nelson Glass & Screens 1985
Carillo Tires 2006-2013

There were no uses identified in the Directory listings which are indicative of uses that would have impaired the environmental conditions at the site.

Historic Building Permits

We researched historical building permits on file at the City of El Monte Department of Building and Safety. Based on the review of the building permits, the initial development at the site property occurred in the early 1930s when dwellings were built at the site. A real estate office was located on the corner portion of the site at Peck Road and Ranchito Street in the 1940s. In 1948, the existing tire store was built and it has been used for a variety of businesses, including retail ice cream sales in the 1940s and 1950s, a drive in retail store in the 1960s and most recently as a retail tire business from the 1980s to present. A retail nursery operated at the 4704 Peck Road portion of the site from the 1950s through the 1980s.

Aerial Photographs

Aerial photographs from 1928, 1938, 1949, 1952, 1954, 1965, 1972, 1981, 1989, 1994, 2005, 2009, 2010 and 2012 were reviewed for this assessment. In the 1928 aerial, the site and all of the surrounding properties were in agricultural

use. By 1938, there were several improvements at the site, which appear to be dwellings and similar sized buildings at the site. The development in the vicinity of the site with retail uses along Peck Road and residential dwellings on the surrounding streets was under way. There were no significant changes noted on the subsequent photos and there were no indications of any operations at the site, which would have had an impact on the environmental conditions of the property.

Historical Topographical Maps

Historical Topographical Maps for the site, El Monte quadrangle from 1953 to present, Los Angeles and Vicinity East 3 of 4 in 1953, Southern California Sheet 1 in 1901, Los Angeles Sheet in 1900, and Pasadena 1896-1900 were available for our review. There were no indications of environmental concerns on any of the maps reviewed for the site.

### Historical Use Information on Adjoining Properties

On the parcel north of the site, there is a retail strip center that was built in two phases in 1948 and 1960. Prior to the commercial development at the site, it appears that there were dwellings present in the 1930s.

South of the site, there are two small single-family dwellings that were built as the first improvements at the properties along the north side of Ranchito Street. On the south side of Ranchito Street, there is a batting cage business that occupies the commercial building that was built in 1952 at the southeast corner of Peck Road and Ranchito Street. There are dwellings east of the batting cages that were also the first improvements on the property in the 1930s.

East of the site, there are several dwellings that were developed between the 1930s and 1960s.

West of the site, the retail uses along the west side of Peck Road were developed beginning in the 1930s through the 1960s.

## Site Reconnaissance

### Methodology and Limiting Conditions

The objective of the site reconnaissance was to obtain information indicating the likelihood of identifying recognized environmental conditions in connection with the property. Pacific Environmental Company personnel conducted a visit to the subject property and the surrounding areas on March 6, 2014, the weather was clear with no adverse conditions during the visit. There were no access restrictions to the property or limitations by physical obstructions or constraints. The property was visually inspected from all adjacent thoroughfares.

### General Site Setting

The subject site is located in the City of El Monte, which is situated east of Los Angeles in Los Angeles County. Peck Road is a major north-south thoroughfare through El Monte and there are commercial and retail uses all along Peck road in the vicinity of the site. The secondary streets are generally developed with dwellings.

### Current and Past Use of the Site Property

Currently, the north parcel at 4716 Peck Road is developed with a retail tire store with frontage and access along Peck Road. Behind the tire store to the east, there is a dwelling that is addressed as 4712 Peck Road with access via a driveway on the north side of the tire store. The occupant in the dwelling operates a qigong clinic (an ancient Chinese health care system that integrates physical postures, breathing techniques and focused intention) in the building.

The southwestern parcel of the site at 4704 Peck Road is currently vacant and fenced.

### Current and Past Use of Adjacent Properties and Surrounding Areas

The property north of the site has been in retail use since the 1940s. Prior to the retail development there were dwellings at the site. Farther north there is an active gas station.

The dwellings along the southern border of the site were the first improvements on their parcels in the 1930s. The batting cage operations that occupy the property south of the site at the southeast intersection of Peck Road and Ranchito Street operate out of a building that was developed for commercial use in the 1950s.

The dwellings east of the site were developed in the mid 1960s and all known uses have been residential in nature.

The retail uses along the west side of Peck Road were developed beginning in the 1930s through the 1960s. Current occupants include restaurants, a meat market, a tax preparation office, and a flooring retailer. Farther north there is a drycleaner and Wesleyan Church.

### Geologic, Hydrogeologic, Hydrologic and Topographic Conditions

Regionally, the ground slopes gently to the southwest. Groundwater in the vicinity is reportedly at a depth of approximately seventy to eighty feet below ground surface. There are no ponds or surface waters located on any portion of the site.

### General Descriptions of Structures and Roads

The dwelling at 4712 Peck Road is a single-story, wood-framed structure built over a raised foundation. The building was built in the 1930s and comprises approximately 1,250 square feet. Interior finishes include wood walls and the floors are covered with engineered wood floorings and ceramic tile. The exterior walls are finished with wood siding and the roof is covered with a pitched composite shingle roofing system. Access to the former dwelling which is operated as a qigong clinic is via a driveway located along the northern portion of the site.

The building at 4716 Peck Road is a single-story, wood-framed structure built over a concrete slab on grade. The building was built in the 1940s and it comprises approximately 2,100 square feet. Interior finishes include wood, drywall and plaster wall systems. Floors are concrete and vinyl flooring. The exterior is stucco and wood.

There are no current activities at the site property that are expected to have an impact on the site's environmental condition.

### Potable Water Supply

The San Gabriel Valley Water District provides potable water service to the site.

### Sewage Disposal System

The City of El Monte provides sewer service to the site.

### Interior Observations

The interior of the tire store is typical for a tire installation business. Most of the tools are air driven or hand tools and there were no indications of hazardous materials use associated with their operations.

In the former residence, the clinic type use involves meditation and martial arts. There were no indications of any activities that would have an impact on the environmental conditions of the property.

### Exterior Observations

There were no indications of solid waste disposal, excessive staining or stressed vegetation that would indicate environmental concerns for the subject property. There are several empty or dried out paint cans being stored on the side of the 4712 Peck Road structure that should be recycled or disposed of at a household hazardous waste roundup.

No hazardous substances or petroleum products in connection with identified uses of the site were identified. There were no indications of storage tanks, odors, pools of liquids, drums, hazardous substances, petroleum product containers, unidentified substance containers or PCBs identified during our site inspection other than the paint cans.

Electrical transformers and fluorescent lighting fixtures with ballast's manufactured prior to 1978 often utilized PCB-containing dielectric cooling fluids. PCB's are toxic environmental contaminants commonly associated with fluids in electrical equipment, including transformers and capacitors. Fluorescent lighting capacitors which do not contain PCB dielectric cooling fluids are generally identified by a label bearing the words "No PCB's". There are transformers located in the vicinity the property. The transformers are the property of the SCE and they would be responsible with any cleanup associated with their transformers. There were no indications of leaking or staining noted during our physical inspection.

### Conditions of Adjoining Properties

There were no obvious indications that any of the surrounding property use is impacting the environmental conditions of the site property.

## Interviews

### Interviews with the Owner

Howard Rotter is part of the current ownership group and he provided us with an assessment that was performed last October in which he had completed an ESA questionnaire. He was not aware of any pending, threatened, or past litigation relevant to hazardous substances of petroleum products in, on or from the property; any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the property; and any notices from any governmental entity regarding any possible violation or environmental laws or possible liability relating to hazardous substances or petroleum products.

### Interviews with Site Manager

We did discuss the site use with the manager of the tire shop and he was not aware of any past or present use that would have had any impact on the environmental conditions of the subject property. While the tenant at 4712 Peck Road was at the property with clients during our inspection, he was not available to be interviewed.

### Interviews with Occupants

There were no occupants available to be interviewed for this assessment.

### Interviews with Local Government Officials

We discussed the site with Phong Phan of the Los Angeles County Department of Public Health. Ms. Phan indicated that their department had no records with regards to environmental conditions of the site.

Building Department, Planning Department, and County Public Works were interviewed to establish the historical use of the site. The results of the interviews were consistent with the reported uses described herein.

### Interviews with Others

No one else was interviewed for this assessment.

## Evaluation

### Findings

Based on our assessment services, we have not identified any known or suspect recognized environmental conditions, controlled recognized environmental conditions or historical recognized environmental conditions, at the subject property.

One de minimis condition (a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies) was identified at the site. There are several empty or dried out paint cans being stored on the side of the 4712 Peck Road structure that should be recycled or disposed of at a household hazardous waste roundup.

Asbestos-containing materials (ACM) and lead-based paints were identified at the property. While the presence of ACM and lead-based paints do not represent a REC, Pacific Environmental recommends that all future renovation, demolition, construction or abatement activities with the potential for disturbing the identified ACM or lead laden materials, be performed by properly trained and qualified personnel. These activities should employ state-of-the-art techniques, and be conducted in accordance with all applicable local, State and Federal laws and regulations.

### Opinion

The site visit, a review of available regulatory agency information, historical use, discussions with persons knowledgeable about the subject property, did not produce evidence of recognized environmental conditions associated with the past or present use of the property located at 4704-4716 Peck Road in the City of El Monte, in the County of Los Angeles, California.

### Additional Investigations

No additional investigations are recommended for this property.

### Data Gaps

Pacific Environmental Company did not identify any significant data gaps, as defined by ASTM, that affected the ability to identify recognized environmental conditions in connection with the property.

### Conclusions

Pacific Environmental Company has performed this assessment in conformance with the scope and limitations of ASTM Practice E 1527 of the property located at 4704-4716 Peck Road in the City of El Monte, in the County of Los Angeles, California. Any exceptions to, or deletions from, this practice are described within this report. This assessment has revealed no evidence of recognized environmental conditions in connection with the property.

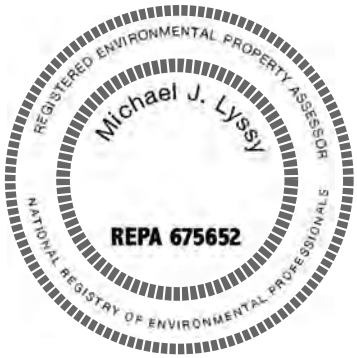
### Additional Investigations

No additional services were planned or performed for this assessment.

## Signature of Environmental Professional

The conclusions and recommendations presented herein are based upon the agreed scope of work outlined in this report. Pacific Environmental Company makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others. The services performed by Pacific Environmental Company have been conducted in a manner consistent with the level of care ordinarily exercised by members of our profession currently practicing under similar conditions. No other warranty, expressed or implied, is made.

Michael J. Lyssy
Registered Environmental Property Assessor
REPA 675652




## Qualifications of Environmental Professional

Michael Lyssy is a Registered Environmental Assessor (REA 1 No. 07069) with the State of California. Mr. Lyssy is also a California Department of Safety and Health Certified Asbestos Consultant (CAC 94-1311). He earned his Bachelors Degree in 1988 from Texas A&M University and has been in the environmental consulting field since 1990.

For the past twenty years, Mr. Lyssy has been conducting environmental assessments for developers, law firms, financial institutions and municipalities. Mr. Lyssy founded Pacific Environmental Company in April of 1993 and is responsible for supervising all operations and activities of the company. He is involved with projects from their inception through their completion, including the proposal, negotiations, contract administration, coordination, specification writing, project management and report preparation stages. Mr. Lyssy has meet the requirements of the National Registry of Environmental Professionals to be certified as a Registered Environmental Property Assessor (REPA 675652).

## Statements of Environmental Professional – As Required By 40 CFR 312.21(D)

"I declare that, to the best of my professional knowledge and belief, I meet the definition of an Environmental Professional as defined in §312.10 of 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 property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312."

## Non Scope Services

The objective of Practice E1527 is to help users qualify for one of the CERCLA Landowner Liability Protections. Users should be aware that there are other federal, state, and local environmental laws and regulations that can impose liabilities and obligations on owners and operators of real property that are outside the scope of ASTM E1527-13. The following non scope services were evaluated in conjunction with this ESA.

### Asbestos-Containing Building Materials and Lead-Based Paint (LBP)

Asbestos is the generic term used to describe a group of naturally occurring silicate minerals that have the ability to separate into small, fine fibers. The most widely used types of asbestos are chrysotile and amosite. Other types include crocidolite, tremolite, anthophyllite, and actinolite. Exposure to these fibers has been linked to a number of health problems, including asbestosis, mesothelioma, and lung cancer.

Asbestos is regulated by USEPA under the Clean Air Act, TSCA, and CERCLA. USEPA has established that any material containing more than 1 percent asbestos by weight is considered an ACM. Friable ACM is any material containing more than 1 percent asbestos, and that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. Nonfriable ACM is any ACM that does not meet the criteria for friable ACM.

USEPA and the Occupational Safety and Health Administration regulate the remediation of ACM. Emissions of asbestos fibers to ambient air are regulated by Section 112 of the Clean Air Act (42 U.S.C. 7401–7671g), as promulgated by 40 CFR 61, Subpart M (National Emissions Standards for Hazardous Air Pollutants).

USEPA banned the manufacture, installation, and processing of spray-on ACM insulation and fireproofing in 1972. The application of spray-on ACM for fireproofing and insulation was banned by USEPA in 1973. USEPA banned molded and wet-applied asbestos in 1975, and ACM in mechanical system insulation (e.g., pipe and elbow pipe insulation and boiler insulation) were banned in 1976. ACM in acoustical and decorative applications were banned by USEPA in 1978. The three-staged phase-out of nonfriable ACM in construction materials started in 1989, but much of the rule was remanded in 1991.

Lead is a heavy, ductile metal commonly found simply as metallic lead or in association with organic compounds, oxides, and salts. It was commonly used in house paint for several years. The Federal government banned the use of most LBP in 1978. Therefore, it is assumed that all structures constructed prior to 1978 could contain LBP. Federal agencies are required to comply with applicable Federal, state, and local laws relating to LBP activities and hazards.

Pacific Environmental Company was retained to perform survey services to identify the extent of asbestos-containing building materials (ACM) and lead-based paints (LBP) at the subject property in conjunction with this ESA.

A total of twenty-eight (28) bulk samples (which were separated into thirty-four layers) were collected and analyzed by Polarized Light Microscopy with dispersion staining per EPA protocols. Based on our assessment services, the following materials were confirmed to contain greater than one percent (1%) asbestos, and are therefore classified as ACM.

| Summary of Asbestos-Containing Materials | | |
|---|---|---|
| **Material** | **Location** | **Est. Qty.** |
| **4712 Peck Road** | | |
| Transite Vent Pipe | Vent Flue | 16 LF |
| **4716 Peck Road** | | |
| Ducting Mastic | Roof Ducts | 10 SF |
| Gray Roof Penetration Mastic | Roof Penetrations | 80 SF |

Throughout the project areas, the following tested surfaces indicated the presence of LBP at or above the action level:

**Exterior**: 4712 Peck Road: Exterior Walls and Trim

4716 Peck Road: Exterior Walls and Trim

Based on our observations and the data collected for this inspection, there are ACMs that will have to be removed to facilitate future demolition activities. Defective lead-based paints are also present at the site. The defective lead-based paint must be stabilized by lead trained personnel in accordance with all applicable federal, state and local regulations using California certified workers and supervisors in accordance with the State of California lead abatement regulations prior to demolition.

Asbestos and Lead must be handled in strict accordance with the various federal, state, and local regulations. Failure to abide by these regulations can result in penalties to both the contractor as well as the owner.

### Radon

Radon is a radioactive gas that is found in certain geologic environments and is formed by the natural breakdown of radium, which is found in the earth's crust. A radon survey was not included within the scope of this investigation; however, the State of California Department of Health Services (DHS) conducted a statewide radon survey during 1990-1991, which entailed testing of radon in homes in designated geographic areas. Radon detection devices were placed in homes throughout the study region to determine geographic regions with elevated radon concentrations, The U.S. EPA has set the safety standard for radon gas in homes to be 4 pico Curies per liter (pCi/l). According to the DHS radon survey, and current correspondence with the DHS, radon concentrations in residences in the geographic region of the subject site average below 4 pCi/l, therefore, radon is not anticipated to adversely impact the subject site. Radon is not anticipated to adversely impact the subject site; however, a site-specific radon test would need to be conducted in order to provide site-specific radon level information.

### Wetlands

Based on the current field reconnaissance and the site history research, no wetlands appear to exist on the subject property.

### Mold

Molds are organisms that belong to the Fungi Kingdom. Molds are present virtually everywhere in the outdoor and indoor environments. Molds lack chlorophyll and must survive by digesting organic materials for food such as some types of building materials. To grow, molds require a food source and moisture. Molds can produce

toxic substances called mycotoxins that may result in human health effects. Some compounds produced by molds are volatile and are released directly into the air. These are known as microbial volatile organic compounds (mVOCs). In addition, spores may contain allergens that can remain allergenic for years even if the mold is dead.

Fungal growth requires moisture, a food source, and fungal spores. The visual assessment is considered the most important part of any mold inspection. During our site visit, there were no indications of historic water damage or visible mold growth, which would warrant further evaluation.

## References

California Department of Conservation
Division of Mines and Geology
1416 Ninth Street, Room 1341
Sacramento, California 95814

California Environmental Protection Agency
Department of Toxic Substance Control

City of El Monte
Department of Building and Safety

County of Los Angeles, Department of Public Works
Environmental Programs Division
Alhambra, California

County of Los Angeles
Office of the Assessor
Fire Department

Department of Toxic Substances Control
Cypress, California

Environmental Records Search, Aerial Photography, Historic Phone Directory Listings
Environmental Data Resources, Inc.
Southport, Connecticut 06890

Sanborn Fire Insurance Maps
Environmental Risk Information & Imaging Services
505 Huntmar Park Drive, Suite 200
Herndon, Virginia 20170

Sherman Library & Gardens
Historic Phone Directory Collection
Corona del Mar, California

United States Geological Survey
Topographic Map - 7.5 minute series

United States Geological Survey
Denver, Colorado

*Phase 1 Environmental Site Assessment Report*, ACS Associates (File No. 101413) October 14, 2013

## Appendices

Appendix A - Site Location Plan: A map is included to identify the location of the subject property.

Appendix B - Site Plan: A site plan/aerial photograph of the subject property is included in the appendices of this report. The site plan shows the general location of the subject site and other items of interest that were identified in the description of the site.

Appendix C - Site Photographs: Photographs of the subject property and surrounding neighborhood are attached to this report. These photographs were taken at the time of the site inspection.

Appendix D - Historical Research Documentation: Documentation supporting the research performed for this assessment is included in the appendices of this report.

Appendix E - Regulatory Records Documentation: Government records were obtained in a government database search performed by Environmental Data Resources, Inc., which is included in the appendices of this report. Records were verified by the appropriate agencies.

Appendix F - Interview Documentation

Appendix G - Special Contractual Conditions between User and Environmental Professional are detailed.

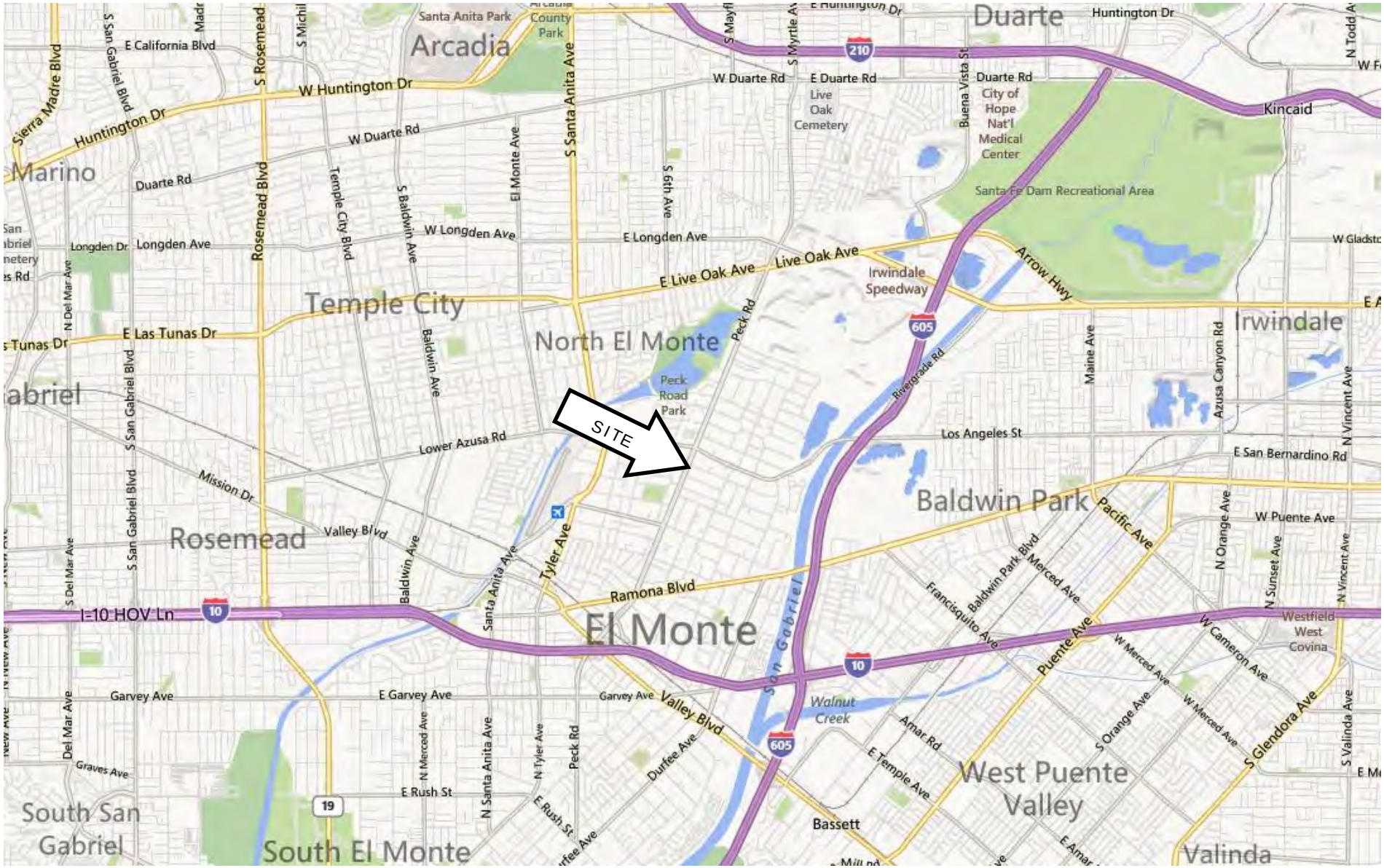
Appendix H - Qualification(s) of the Environmental Professional(s) are included.

# Appendices

Appendix A Figure 1-Site Location Plan
Appendix B Figure 2-Aerial Photograph/Site Plan
Appendix C Site Photographs
Appendix D Historical Research Documentation
Appendix E Regulatory Records Documentation
Appendix F Interview Documentation
Appendix G Special Contractual Conditions between User and Environmental Professional
Appendix H Qualification(s) of the Environmental Professional(s)

# Appendix A

Figure 1-Site Location Plan




NORTH

| DATE PREPARED: March 17, 2014 | PREPARED BY: ML | DRAWING TITLE: Site Location Plan 4704-4716 Peck Road El Monte, California |
|---|---|---|
| REVISION: | SOURCE: bingmaps.com | |
| PROJECT NO: 14040 | PHOTO YEAR: | |
| PROJECT NAME: Phase One Environmental Site Assessment | | CLIENT: **HOLLYWOOD COMMUNITY HOUSING CORP.** |

FIGURE NO. 1

# Appendix B

Figure 2-Aerial Photograph/Site Plan

NORTH

| DATE PREPARED: March 17, 2014 | PREPARED BY: ML | DRAWING TITLE: Site Plan/Aerial Photograph 4704-4716 Peck Road El Monte, California |
|---|---|---|
| REVISION: | SOURCE: bingmaps.com | |
| PROJECT NO: 14040 | PHOTO YEAR: | |
| PROJECT NAME: Phase One Environmental Site Assessment | | CLIENT: **HOLLYWOOD COMMUNITY HOUSING CORP.** |

FIGURE NO. 2

# Appendix C

Site Photographs

Northern view of dwelling at 4712 Peck Road.

Southeast view of the vacant, southern portion of the site.

Paint Cans stored on the southwest side of the dwelling

Close up of the defective LBP on the siding of the dwelling.

South elevation of the dwelling at 4712 Peck Road.

Yard of the dwelling at 4712 Peck Road.

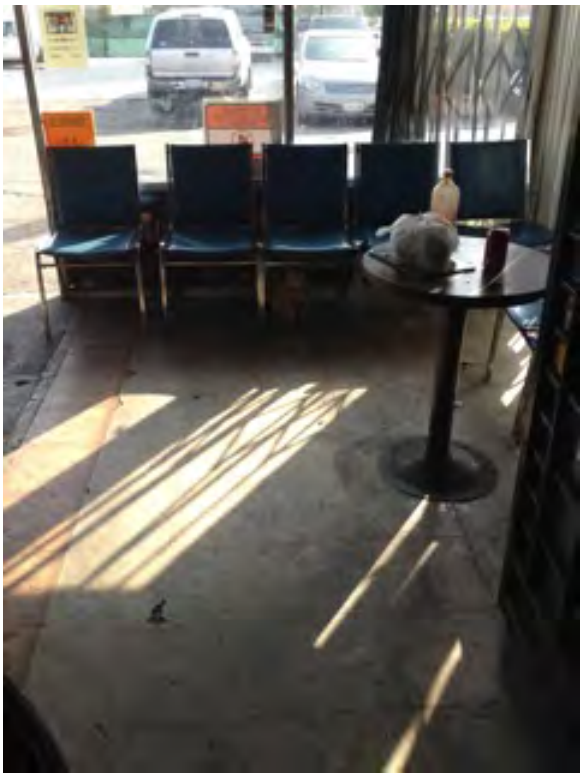
Tire storage behind tire store at 4716 Peck Road.

East yard at 4712 Peck Road.

Shop area inside 4716 Peck Road.

North view of tire store at 4716 Peck Road.

Garage area inside of 4716 Peck Road.



Lobby of tire store at 4716 Peck Road.

Office of tire store at 4716 Peck Road.

Roof of tire store at 4716 Peck Road.

Mobile Station north of the subject property.

Strip mall west of the subject property across Peck Road.

Strip mall adjacent to the north of the site.

Northern view of the east side of Peck Road from the site.

Cleaners and Church northwest of the site.

Eastern view of the southwestern portion of the site.

Northeast view from the west portion of the site towards the adjacent retail.

Northeast view from the southern portion of the site.

Western view from the southern portion of the site.

Western view from the site.

Northern view from the southern portion of the site.

Batting cages south of the site looking south.

# Appendix D

Historical Research Documentation

INQUIRY #: 3868742.8
YEAR: 1928
= 500'
N
EDR

INQUIRY #: 3868742.8
YEAR: 1938
= 500'
N
EDR

INQUIRY #: 3868742.8
YEAR: 1948
= 500'
N
EDR

INQUIRY #: 3868742.8
YEAR: 1952
= 500'
N
EDR

INQUIRY #: 3868742.8
YEAR: 1954
= 500'
N
EDR

INQUIRY #: 3868742.8
YEAR: 1964
= 500'
N
EDR

INQUIRY #: 3868742.8
YEAR: 1972
= 500'
N
EDR

INQUIRY #: 3868742.8
YEAR: 1981
= 500'
N
EDR

INQUIRY #: 3868742.8
YEAR: 1989
= 500'
N
EDR

INQUIRY #: 3868742.8
YEAR: 1994
= 500'
N
EDR

INQUIRY #: 3868742.8
YEAR: 2005
= 500'
N
EDR

INQUIRY #: 3868742.8
YEAR: 2009
= 500'
N
EDR

**HCHCELMONTE**
4716 Peck Road
El Monte, CA 91732

Inquiry Number: 3868742.3
February 28, 2014

# Certified Sanborn® Map Report

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

# Certified Sanborn® Map Report

2/28/14

| **Site Name:** | **Client Name:** |
|---|---|
| HCHCELMONTE | Pacific Environmental Company |
| 4716 Peck Road | 28202 Cabot Road |
| El Monte, CA 91732 | LAGUNA NIGUEL, CA 92677 |
| EDR Inquiry # 3868742.3 | Contact: Mike Lyssy |

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Pacific Environmental Company were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

## *Certified Sanborn Results:*

| | |
|---|---|
| **Site Name:** | HCHCELMONTE |
| **Address:** | 4716 Peck Road |
| **City, State, Zip:** | El Monte, CA 91732 |
| **Cross Street:** | |
| **P.O. #** | NA |
| **Project:** | HCHCELMONTE |
| **Certification #** | 9383-40F3-9E16 |

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 # 9383-40F3-9E16

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

*The Sanborn Library LLC Since 1866™*

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95-3 25M SETS 8-45

# DEPARTMENT OF BUILDING AND SAFETY
## COUNTY OF LOS ANGELES
WM. J. FOX, CHIEF ENGINEER

# APPLICATION FOR PERMIT
# BUILDING 1

## FOR APPLICANT TO FILL IN

BUILDING ADDRESS: 1310 N. Peck
LOCALITY: El Monte
NEAREST CROSS ST.: E. Ramona
OWNER: Geo. E. Brandon
MAIL ADDRESS: 142 E. Tarvey
CITY: El Monte TEL. NO.
ARCHITECT OR ENGINEER TEL. NO.
ADDRESS
CONTRACTOR: Owner TEL. NO.
ADDRESS
LEGAL DESCRIPTION: LOT NO. 23 BLOCK
TRACT: 9360
SIZE OF LOT NO. OF BLDGS. NOW ON LOT: 1
USE OF EXISTING BLDG.: Res. NO. OF FAMILIES: 1 NO. OF ROOMS: 6

## DESCRIPTION OF WORK

| | | | | | |
|---|---|---|---|---|---|
| NEW | | ALTERATION | | ADDITION | |
| REPAIR | | MOVING | ✓ | DEMOLISH | |

SQ. FT. SIZE: 11 X 20 NO. OF ROOMS: 2 STORIES: 1
WALL COVERING: wood ROOF COVERING: Comp.
USE OF NEW BUILDING: Real Estate Office
Move from Rear to Front.

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION.

SIGNATURE OF OWNER
AUTHORIZED AGT. George D. Brandon

$ 900
VALUATION

P. C. $
FEE
$ 1.00
FEE

## FOR OFFICE USE ONLY

| DISTRICT NO. | PLAN CK. NO. | PERMIT NO. |
|---|---|---|
| 2 | — | 37775 |
| RECEIVED BY: Smith | DATE OF APPL.: 11-5-45 | DATE ISSUED: 11-5-45 |

BUILDING ADDRESS: ~~1310~~ N. Peck
LOCALITY: El Monte
NEAREST CROSS ST.: E. Ramona
FIRE ZONE: — NO. OF PLANS: — TYPE: V GROUP: F
BLDG. SETBACK LINE: — ORD. NO.
APPROVED BY: — DATE
USE ZONE: 1 APPROVED BY DATE

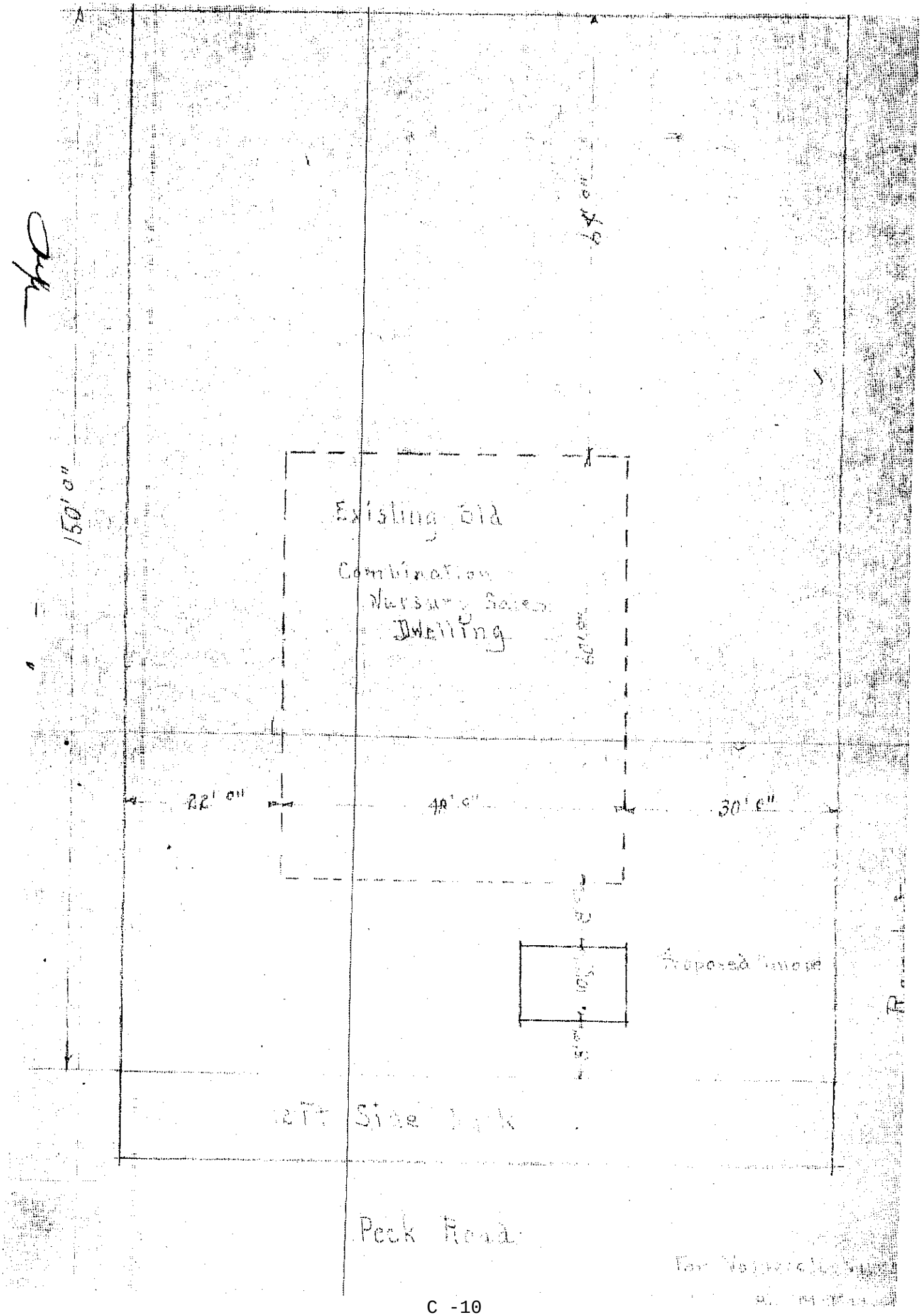
## CORRECTIONS

Change to 1308 N Peck
1308 — 5/28/48 2 units
N. Peck

ORIGINAL

## APPROVALS

| | INSPECTOR | DATE |
|---|---|---|
| FOUNDATION: LOCATION, FORMS, MATERIALS | | |
| FRAME: FIRE STOPS, BRACING, BOLTS | | |
| LATH, INT.: | | |
| LATH, EXT.: | | |
| PLASTER, INT. | | |
| PLASTER, EXT. | | |
| FINAL | Nelson | 12/14/48 |


150' 0"
Existing Old
Combination
Nursery School
Dwelling
22' 0"
40' 0"
30' 6"
Proposed house
Peck Road

# CERTIFICATE OF OCCUPANCY

№ 2852

City of El Monte
BUILDING DEPARTMENT & FIRE DEPARTMENT
11333 East Valley Blvd., El Monte • Phone 444-9211
Building Department Ext. 57 — Fire Department Ext. 71

Jan 10 1967

THIS IS TO CERTIFY that the premises and/or structures located at 4764 Peck Road

El Monte, California, have been inspected and that same complies as of the date hereof, with the regulations of the City of El Monte and provided that the occupant complies with all the ordinances and regulations of the City of El Monte, may be

occupied by Desert Nursery - Retail Nursery

for the purpose of Garden Supplies - plants

Mailing Address

Phone No. Business: 444-9286 Residence:

Permit Fee: Free

Receipt No.:

NON CONFORMING BUILD

Type of Occupancy I-5 Change of Owner ☐

Building Type No. II NC Change of Business ☐

Fire District No. II New Building ☐

Zone C-3 Annex ☒

☐

Wm Bruce
Building Inspector

APPROVED
1/6/67
CITY OF EL MONTE
M. R. Worthington

The permit not valid unless signed by authorized members of the Building and Fire Departments of the City of El Monte.

A L Hanson
Fire Inspector

**NOTE:** Preserve this certificate for inspection whenever called upon by proper authorities to produce same. This certificate is not transferable, and must be renewed upon any change of use of occupancy.

OFFICE COPY

Form 142-8

of Occupancy

DATE 1-9-67

ADDRESS 4704 Peck Rd

PHONE NO. 444-9086

NAME OF COMPANY Norwood Nursery

NAME OF APPLICANT Robert J Trainor

MAIL ADDRESS

same

RESIDENTIAL PHONE NO. ---

DESCRIBE TYPE OF BUSINESS

Plants - Garden Supplies

(closed Thursdays)

| CHECK FOR: | | (APPROVAL DATE) |
|---|---|---|
| TYPE OF OCCUPANCY: | I-J | 1-10-67 |
| BUILDING TYPE: | V N.C | " |
| ZONING: | C-3 | " |
| FIRE DIST.: | II | " |
| PARKING: | STREET | " |
| ELECTRICAL: | OK | " |
| PLUMBING: | OK | " |
| HEALTH DEPT: | | |
| FIRE DEPT: | | |

READY TO INSPECT

CORRECTIONS

APPROVED FOR OCCUPANCY PERMIT

NO. 22552

DATE

142-12

76A638A CE #803 - 7-56

# APPLICATION FOR BUILDING PERMIT

1

**BUILDING AND SAFETY DIVISION**
Department of County Engineer
County of Los Angeles
JOHN A. LAMBIE, COUNTY ENGINEER
CASSATT D. GRIFFIN, SUP'T OF BUILDING

BUILDING ADDRESS 4704 Peck Rd
LOCALITY El Monte
NEAREST CROSS ST. Ramona

DISTRICT NO. 2 | GROUP G | TYPE | CONST. V | SEWER | MAP BK | PG

## FOR APPLICANT TO FILL IN

BUILDING ADDRESS
LOT NO. Westerly 100' of 124 BLOCK
TRACT 8268
SIZE OF LOT 100 x 150 NO. OF BLDGS. NOW ON LOT 1
USE OF EXISTING BLDG. Residence + Garage
OWNER Norwich Nursery
MAIL ADDRESS 4704 Peck Rd
CITY L.A. County TEL. NO.
ARCHITECT OR ENGINEER TEL. NO.
ADDRESS
CONTRACTOR Owner TEL. NO.
ADDRESS Same

STATISTICAL CLASSIFICATION
CLASS. NO. DWELL. UNITS
MAP NUMBER 2104 STATE HWY YES NO
USE ZONE C-4 SPECIAL CONDITIONS 1494 50' ℄ Peck Rd

| BUILDING SETBACK | YARD | HWY | STREET NAME | EXIST. WIDTH |
|---|---|---|---|---|
| FRONT P. L. | 0 + 0 | | Peck | 100' |
| SIDE P. L. | 0 | | Ramona | 60' |

## DESCRIPTION OF WORK

NEW ADD ALTER REPAIR DEMOLISH
SQ. FT. SIZE 10 x 15 NO. OF STORIES NO. OF FAMILIES
USE OF STRUCTURE
Storage
SIGNATURE OF APPLICANT M. J. Moore
ADDRESS 4404 Tweedwell Rd

$ 170.00 VALUATION
P. C. $ N/C FEE
$ 2.00 FEE

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION.
SIGNATURE OF PERMITTEE M. J. Moore
ADDRESS Norwich Nursery

## INSPECTION RECORD

| | | |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | APPROVALS | |

| | DATE | INSPECTOR'S SIGNATURE |
|---|---|---|
| FOUNDATION: LOCATION FORMS, MATERIALS | | |
| FRAME: FIRE STOPS, BRACING, BOLTS | | |
| FURNACE: LOCATION, GAS VENT, DUCTS | | |
| LATH, INT. | | |
| LATH, EXT. | | |
| HOUSE NUMBER CORRECT AND POSTED | | |
| FINAL | | |

JOHN A. LAMBIE, COUNTY ENGINEER. CLYDE N. DIRLAM, PRINCIPAL STRUCTURAL ENGINEER

PLAN CHECK VALIDATION CK. M.O. CASH PERMIT VALIDATION CK. M.O. CASH

0990 AUG 29 0 0991 AUG 29 1 2.00

# APPLICATION FOR BUILDING PERMIT

**CITY OF EL MONTE, CALIFORNIA** — **BUILDING DEPARTMENT**

**11333 East Valley Boulevard • 444-9211 Ext. 57 or 58**

APPROVED CITY OF EL MONTE BUILDING DEPARTMENT

(THIS PERMIT NOT VALID UNTIL STAMPED "APPROVED" BY BUILDING DEPT. AND ALL FEES PAID AND REQUIRED DEPOSITS MADE)

**PERMIT NUMBER:** 11236

**THIS PERMIT NUMBER REQUIRED WHEN REQUESTING INSPECTION**

## FOR APPLICANT TO FILL IN

BUILDING ADDRESS: 4710 North Peck Road

LOT NO.: 23 TRACT NO.: 9360 BLOCK:

SIZE OF LOT: NO. OF BUILDINGS NOW ON LOT:

USE OF EXISTING BLDG.: Real Estate Office

OWNER: George D. Brando

MAIL ADDRESS: 1403 W. Francisquito Avenue

CITY: West Covina TEL. NO.:

ARCHITECT OR ENGINEER: TEL. NO.:

ADDRESS:

CONTRACTOR: (City of El Monte)

ADDRESS:

CITY: TEL. NO.:

STATE LICENSE NO.:

BUILDING ADDRESS: 4710 North Peck Road

NEAREST CROSS ST.: Ranchito MAP NUMBER: 72

| FIRE ZONE | GROUP | TYPE CONST. | SEWER MAP BK | PG |
|---|---|---|---|---|
| II | | | | |

| USE ZONE | | |
|---|---|---|
| C-3 | FRONT YARD SET BACK | |
| | SIDE YARD SET BACK | |
| | REAR YARD SET BACK | |

SPECIAL CONDITIONS
(1) Install or guarantee curbs and gutters, sidewalks, driveway approaches and street trees on all street frontages.

DEMOLISHED UNDER CONDEMNATION

## DESCRIPTION OF WORK

NEW: ADD.: ALTER.: REPAIR: DEMOLISH: X

SQ. FT.: 130 NO. STORIES: 1 NO. OF FAMILIES: -

USE OF PROPOSED STRUCTURE: Demolish Real Estate Office

SIGNATURE OF APPLICANT: City of El Monte

ADDRESS:

## ASSESSOR'S INFORMATION

M.B.: 8547 PAGE: 14 PAR NO.: 11

## CONSTRUCTION LENDER

NAME:

BRANCH:

ADDRESS:

$ ---------

VALUATION

P.C. FEE $ —

PERMIT FEE $ —

BUS. LIC. FEE $ —

TOTAL $ NO FEE

I hereby acknowledge that I have read this application and state that the above is correct and agree to comply with all City Ordinances and State Laws regulating building construction.

SIGNATURE OF PERMITTEE: City of El Monte

ADDRESS:

## APPROVALS

| | DATE | INSPECTOR'S SIGNATURE |
|---|---|---|
| FOUNDATION, LOCATION FORMS, MATERIALS | | |
| ROOFING OR DIAPHRAGM | | |
| FRAME, FIRE STOPS BRACING, BOLTS | | |
| FURNACE, LOCATION GAS VENT, DUCTS | | |
| LATH, INT. | | |
| LATH, EXT. | | |
| HOUSE NUMBER CORRECT AND POSTED | | |
| FINAL | 6/23/71 | [illegible] |

**FEE PAYMENT VALIDATION**

1. OFFICE COPY

DEPARTMENT OF BUILDING AND SAFETY
COUNTY OF LOS ANGELES
WM. J. FOX, CHIEF ENGINEER

# BUILDING APPLICATION

1

## FOR APPLICANT TO FILL IN

BUILDING ADDRESS: 4716 N Peck Rd
LOCALITY: El Monte
NEAREST CROSS ST.: Ramblet - Lower Avenue
OWNER: Clara E. Alderson
MAIL ADDRESS: 4716 N Peck Rd
CITY: El Monte TEL. NO.: Fo 3-7527
ARCHITECT OR ENGINEER: TEL. NO.:
ADDRESS:
CONTRACTOR: TEL. NO.:
ADDRESS:
LEGAL DESCRIPTION: LOT NO. 23 BLOCK:
TRACT: 9366
SIZE OF LOT: 100 x 300 NO. OF BLDGS. NOW ON LOT: 2
USE OF EXISTIN BLDG.: Res & ice cream stand NO. OF FAMILIES:

## DESCRIPTION OF WORK

NEW: ALTERATION: ADDITION:
REPAIR: DEMOLITION:
SQ. FT. SIZE: 600 NO. OF ROOMS: 2 STORIES: 1
EXT. WALL COVERING: Stucco ROOF COVERING: Comp.
USE OF STRUCTURE:

INSPECTION FOR OCCUPANCY AS: El Retail Sales of Ice Cream Products

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE INFORMATION GIVEN IS CORRECT.
I AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION.

SIGNATURE OF PERMITTEE: Clara E. Alderson
ADDRESS: 4716 N Peck
AUTHORIZED AGT.:

$ VALUATION: Occupancy
P. C. $ FEE:
$ FEE: 1.00

76A638A DBS 3 7-51

## FOR OFFICE USE ONLY

DISTRICT NO.: 2
~~PLAN CH.~~ OR REC. NO.: 47441-F
PERMIT NO.:
RECEIVED BY: RMS
DATE OF APPL.: 1/31/52
DATE ISSUED:
BUILDING ADDRESS: 4716 N Peck Rd
LOCALITY: El Monte
NEAREST CROSS ST.: Rancho
FIRE ZONE: NO. OF PLANS: TYPE: I GROUP: F
BLDG. SETBACK LINE: 50' E. Peck ORD. NO.: 1494
USE ZONE: C-1 APPROVED BY: - DATE:
HOUSE NUMBERING
MAP NUMBER: 2104 NO. ASSIGNED BY:

## CORRECTIONS

NOT OPEN BEFORE 11:AM

3/20/52
Outside fiberglass awning removed but the inside wiring of lamp etc. has not been taken care of yet. Brandon said that Bandlet was supposed to have done it this week.

4-3-52 - on job w. A Phillips of Co, McKinnon of Brown's off. dump

## APPROVALS

| | INSPECTOR'S SIGNATURE | DATE |
|---|---|---|
| FOUNDATION: LOCATION FORMS, MATERIALS | | |
| FRAME: FIRE STOPS, BRACING, BOLTS | | |
| FURNACE: LOCATION, GAS VENT, DUCTS | | |
| LATH, INT. | | |
| LATH, EXT. | | |
| PLASTER, INT. | | |
| PLASTER, EXT. | | |
| HOUSE NUMBER CORRECT AND POSTED | | |
| FINAL | | |

Work Completed 4/9/52
To issue license

ORIGINAL

County of Los Angeles
Department of Building and Safety
[illegible]
Puente FLeetwood 61281

February 14, 1952

Retail Ice Cream Store
4716 No. Peck Road
El Monte, California

Mrs. Clara E. Alderson, Applicant

An inspection of the above premises was made as per Occupancy Inspection Receipt No. A 47441 F of January 31, 1952 and it was found that the following corrections must be made before the Division of Building & Safety, Department of County Engineer, County of Los Angeles can approve its usage as a retail ice cream sto e:

1. Remove all cord and open wiring in or on the building. Any of this wiring you desire to retain is to be installed in a metal protected wiring system and the receptacles for portable appliances must be adjacent to the appliances so that extension cords are not necessary.

2. The festoon lighting running across the premises is to be raised to a minimum height of 16 feet above the ground and that portion attached to the building or the sign is to be replaced by a metal protected raintight wiring system.

3. All wiring is to be done by or under the supervision of an electrician holding a valid Los Angeles County license who also must obtain the electrical permit for the work done.

If any further information or details are desired you can contact me at FLeetwood 6-1281 or at the Puente District Office of the Division of Building & Safety, Department of County Engineer, County of Los Angeles, 15724 E. Abbey St., Puente. Please notify this office when the above corrections have been made.

H. M. Flick,
District Engineer

HMF:im

Occupancy Inspection Date 2-7-52

Job Address 4716 N. Peck Rd
Name Clara E Alderson
Type of Occupancy Ice cream retail sales

Structure Zone
Use Group Type Constr.
Fire Resistive Height (stories)
Building Area Public Area
Dancing Area Dining Area
Occupant Load Occ. Sign
Property Line Clearance ok Occupancy
Hazards
Non-Conforming Additions
PARKING
Use of Adjacent Bldgs.
Dist. between Adjacent Bldgs.

Ventilation

Exit Facilities
Type Number and size
Hardware
Landings Ramp or stair
Type exit sign

Basement Protections

Heating
Type Location

Wet Standpipes

Electrical
Wiring method Fusing
Cord wiring - all over place - front room - wall in dining & front bedroom
Other electrical hazards - pedestal light on front of bldg & wires to driveways at too low height.

Plumbing
Apparent violations
Gas vents OK Gas shut-off Valves Signs

Proposed Work

Alterations

Additional Equipment

New Buildings

Corrections

Inspected by [illegible]

DEPARTMENT OF -
COUNTY OF LOS A...

WM. J. FOX, CHIEF ENGINEER

APR 20 1948

# APPLICATION FOR PERMIT
# BUILDING

1

## FOR APPLICANT TO FILL IN

BUILDING ADDRESS: 1310 No. Peck Rd.
LOCALITY: El Monte
NEAREST CROSS ST.: Lower Azusa Rd.
OWNER: Geo. D. Brandon
MAIL ADDRESS: 1310 No. Peck Rd.
CITY: El Monte TEL. NO.
~~ARCHITECT OR ENGINEER~~: J.C. Coon TEL. NO.
ADDRESS: 1320 N. Peck Rd.
CONTRACTOR TEL. NO.
ADDRESS

LEGAL DESCRIPTION | LOT NO. 23 | BLOCK
TRACT 9360
SIZE OF LOT 100 X 300 | NO. OF BLDGS. NOW ON LOT 2
USE OF EXISTING BLDG. Res. & R.E. | NO. OF FAMILIES 1 | NO. OF ROOMS 6

## DESCRIPTION OF WORK

NEW X | ALTERATION | ADDITION
REPAIR | MOVING | DEMOLISH
SQ. FT. SIZE 600 | NO. OF ROOMS 2 | STORIES 1
WALL COVERING Stucco | ROOF COVERING Hot Roof
USE OF NEW BUILDING Retail Sales of Ice cream Products

I HEREBY ACKNOWLEDGE THAT I HAVE READ THIS APPLICATION AND STATE THAT THE ABOVE IS CORRECT AND AGREE TO COMPLY WITH ALL COUNTY ORDINANCES AND STATE LAWS REGULATING BUILDING CONSTRUCTION.

SIGNATURE OF PERMITTEE Geo. D. Brandon
AUTHORIZED AGT.

DBS-3 50M SETS 7-47 $
VALUATION 2400.00

P. C. $ 4.00
FEE
$ 8.00
FEE

## FOR OFFICE USE ONLY

DISTRICT NO. C | PLAN CK. NO. 79385 | PERMIT NO. 11113
RECEIVED BY | DATE OF APPL. 4-26-48 | DATE ISSUED 5-4-48
BUILDING ADDRESS 1310 N. Peck Rd
LOCALITY El Monte
NEAREST CROSS ST. Azusa
FIRE ZONE | NO. OF PLANS | TYPE V | GROUP F
BLDG. SETBACK LINE 20 FPL | ORD. NO. C-1
APPROVED BY 70' & Peck | DATE
USE ZONE C-1 | APPROVED BY | DATE
R-2

## CORRECTIONS

To be built on C-1 portion only
1308 N. Peck

ORIGINAL

NOTIFY

## APPROVALS

| | INSPECTOR | DATE |
|---|---|---|
| FOUNDATION: LOCATION FORMS, MATERIALS | [illegible] | [illegible] |
| FRAME: FIRE STOPS, BRACING, BOLTS | | [illegible] |
| LATH, INT.: | Wood | " |
| LATH, EXT.: | " | " |
| PLASTER, INT. | | |
| PLASTER, EXT. | | |
| FINAL | Wood | 11/8/48 |

Job No. 2-1065

Permit No. 43653

Date Issued 12-28-33

District No. 2

Job Address PECK ROAD

Locality EL MONTE

Nearest Cross St. RANCHITO

**BUILDING SET BACK LINE**

I agree to locate this building not less than ..... feet from the ....., nor less than ..... ft. from the ..... line of ..... as provided by Ordinance No. ..... dedication in Tract No. ..... County of Los Angeles recorded in book ....., page ....., Maps, Records of L. A. Co.

OWNER OR AUTHORIZED AGENT

# APPLICATION FOR PERMIT
# BUILDING

## THE BUILDING BUREAU OF THE REGIONAL PLANNING COMMISSION
## COUNTY OF LOS ANGELES

LOT NO. PARCEL # 23

BLK. NO.

TRACT 9360

SIZE OF LOT 100' X 300'

SIZE OF BUILDING 24' X 30'

STORIES 1

NO. OF FAMILIES 1

BLDG. ZONE M-3

FIRE DISTRICT

TYPE I II III IV (V) X

USE (I) RESIDENCE

OWNER
NAME S.J. BALLARD
ADDRESS PECK ROAD-
CITY EL MONTE TEL.

ARCHITECT OR ENGINEER
NAME
ADDRESS (OWNER)
CITY TEL.
LICENSE NO.

CONTRACTOR
NAME
ADDRESS (OWNER)
CITY TEL.
LICENSE NO.

PLANS FILED 12-28-33

APPLICATION REC'D BY Paige

DATE 12-28-33

DESCRIPTION OF WORK

NEW RESIDENCE

SINGLE FAMILY

**SPECIFICATIONS**

| | EXTERIOR | PIERS |
|---|---|---|
| FOUNDATION | | |
| MATERIAL | | |
| THICKNESS TOP BOTTOM | | |
| HT. ABOVE GRADE | | |
| DEPTH IN GROUND | | |

(CODE)

**SUPERSTRUCTURE**

| | SIZE | O. C. | SPAN |
|---|---|---|---|
| R. W. PLATES | | | |
| GIRDERS | | | |
| JOISTS-FLOOR | | | |
| JOISTS-CEILING | | | |
| BEARING WALLS | | | |
| PARTITIONS | | | |
| ROOF-RAFTERS | | | |

(CODE)

(SEE DRAWINGS)

**COVERING**

Wall 1X12"-BOARDS

Roof R.W. SHINGLES

**NATURE OF JOB**

NEW ✓ REPAIR

ADDITION MOVING

ALTERATION DEMOLISH

VALUATION $ 2000

FEE $ 4.00

I hereby state that the above is correct and all County ordinances and State laws governing building construction will be complied with.

Sign Sam Ballard

OWNER OR AUTHORIZED AGENT

FACILITY TRACKING SYSTEM - DATE ENTRY FORM

PRINT DATE 08/22/89
REVIEWED _____
DATE __/__/__

FACILITY: NORWOOD NURSERY

| | NUMBER | SUBNUMBER | STREET |
|---|---|---|---|
| ADDRESS : | 4704 | ___ | PECK ROAD |

CITY : EL MONTE ZIP : 91732
SITE # : PSD01714 OPERABLE UNIT : _____
FILE # : 106.1265

QUESTIONNAIRE : MAILED : 11/30/87
DUE : __/__/__ STATUS : R
RECEIVED : 03/07/88

INSPECTION : 03/22/88
PRIORITY : 4
STAFF : KLE

---

| WORKPLAN | | PHASE I | | RESULTS | |
|---|---|---|---|---|---|
| POTENTIAL N | EXTENSION _ | DUE | __/__/__ | REVIEWED | __/__/__ |
| REQUIRED __/__/__ | RECEIVED __/__/__ | EXTENSION _ | | DISCHARGE CONFIRM | |
| DUE __/__/__ | APPROVED __/__/__ | RECEIVED | __/__/__ | (GW,SW,S,B) | ___ |

| WORKPLAN | | PHASE II | | RESULTS | |
|---|---|---|---|---|---|
| REQUIRED __/__/__ | RECEIVED __/__/__ | DUE | __/__/__ | REVIEWED | __/__/__ |
| DUE __/__/__ | | EXTENSION _ | | CONTAMINATION | |
| EXTENSION _ | APPROVED __/__/__ | RECEIVED | __/__/__ | OFF-SITE(Y/N) | _ |

| WORKPLAN | | PHASE III | | RESULTS | |
|---|---|---|---|---|---|
| REQUIRED __/__/__ | RECEIVED __/__/__ | DUE | __/__/__ | REVIEWED | __/__/__ |
| DUE __/__/__ | | EXTENSION _ | | RP CONFIRMED | _ |
| EXTENSION _ | APPROVED __/__/__ | RECEIVED | __/__/__ | DATE | __/__/__ |

---

ENFORCEMENT SUMMARY

LETTERS SENT (NO.): 0 DATE OF LAST LETTER: __/__/__
RESPONSE DUE DATE : __/__/__ ENFORCEMENT ACTION DATE: __/__/__

CAO NO.: _____ WDR NO.: _____ CDO NO.: _____ ACL NO.: _____

REFERRAL? (Y/N): _ TO (AG,DA): _____ DATE : __/__/__

COMMENTS

_____
_____
_____

FINAL STATUS
_____
DATE
__/__/__

REFERRED TO ANOTHER AGENCY(Y/N)? _ AGENCY: _____ DATE : __/__/__

Ref 2.2.2

POTENTIAL SOURCE CHEMICAL USE

Site No. : PSN017 14

DWR Well No.: _____

Case No.: _____ (of nearby polluted well)

Chemical Name: INSECTICIDES

STORET Code: _____

Chemical State (S=Solid, L=Liquid G=Gas): _____

NON-WASTE:

Storage Method (UT,AGT,BAR,PIT,OTH): OTH

Quantity Stored (1000's Gallons): _____ . _____

WASTE:

Storage Method (UT,AGT,BAR,PIT,OTH): _____

Quantity Stored (1000's Gallons): _____ . _____

On-Site Disposal? (y/n): _____

Disposal Method (S,H,OS) : _____

On-Site Treatment? (y/n): _____

Treatment Method: _____

Ref 2.2.2

POTENTIAL SOURCE CHEMICAL USE

Site No. : PSN017 14

DWR Well No.: _____

Case No.: _____ (of nearby polluted well)

Chemical Name: HERBICIDE

STORET Code: _____

Chemical State (S=Solid, L=Liquid G=Gas): _____

NON-WASTE:

Storage Method (UT,AGT,BAR,PIT,OTH): OTH

Quantity Stored (1000's Gallons): _____ . _____

WASTE:

Storage Method (UT,AGT,BAR,PIT,OTH): _____

Quantity Stored (1000's Gallons): _____ . _____

On-Site Disposal? (y/n): _____

Disposal Method (S,H,OS) : _____

On-Site Treatment? (y/n): _____

Treatment Method: _____

Ref 2.2.2

POTENTIAL SOURCE CHEMICAL USE

Site No. : PSN01714

DWR Well No.: _____

Case No.: _____ (of nearby polluted well)

Chemical Name: FERTILIZER

STORET Code: _____

Chemical State (S=Solid, L=Liquid G=Gas): _____

NON-WASTE:

Storage Method (UT,AGT,BAR,PIT,OTH): OTH

Quantity Stored (1000's Gallons): _____.___

WASTE:

Storage Method (UT,AGT,BAR,PIT,OTH): _____

Quantity Stored (1000's Gallons): _____.___

On-Site Disposal? (y/n): _____

Disposal Method (S,H,OS) : _____

On-Site Treatment? (y/n): _____

Treatment Method: _____

STATE OF CALIFORNIA

GEORGE DEUKMEJIAN, *Governor*

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—
LOS ANGELES REGION

107 SOUTH BROADWAY, SUITE 4027
LOS ANGELES, CALIFORNIA 90012–4596
(213) 620-4460

April 11, 1988

ROBERT TRAINOR
NORWOOD NURSERY
4704 PECK ROAD
EL MONTE, CA 91732

SITE INSPECTION (FILE NO. 103.1265)

Recently, your facility was inspected by members of this Board's staff. The inspection focused mainly on past and present methods for handling of chemicals and wastes at your facility.

Based on the information presented to us, we have determined that no further action on your part is required at this time with respect to the AB 1803 program. However, you are requested to notify this board of any change in your operation including storage and handling of chemicals or processing and disposal of waste. It should be noted that this letter in no way releases you from any chemical and/or waste handling requirements of this or any other agency.

Please call Keith L. Elliott at (213) 620-3789 if you have any questions.

ROY R. SAKAIDA
Senior Water Resource
Control Engineer

Norwood Nursery
4704 N. Peck Road
El Monte, CA 91731

CONTACT: Robert Trainor
INSPECTOR: KEITH L. ELLIOTT

DATE OF INSPECTION: March 22, 1988
DATE OF REPORT: April 11, 1988

FILE NUMBER 103.1265

This is a retail Nursery. There were minor amounts of insecticide, herbicide, and fertilizers at the facility. These chemicals are stored inside on concrete.

RECOMMENDATION: ~~NPA-~~4

J3 R

1-14
103,1265

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD**
**LOS ANGELES REGION**

**CHEMICAL STORAGE AND USE QUESTIONNAIRE**

RECEIVED
88 MAR -7 PM 4:
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD LOS ANGELES REGION

I. COMPANY NAME: NORWOOD NURSERY

II. FACILITY ADDRESS: 4704 PECK RD, EL MONTE 91732

III. FACILITY INFORMATION

A. STANDARD INDUSTRIAL CLASSIFICATION CODE(SIC): RETAIL NURSERY

B. GENERATOR NUMBER(EPA/STATE): _____

C. BRIEF DESCRIPTION OF OPERATIONS: RETAIL SALE OF PLANTS & SUPPLIES

D. SEWER SYSTEM: INDUSTRIAL_____ MUNICIPAL ✓

SEPTIC TANK_____ CESS POOL_____

OTHER(specify) _____

WAS A DIFFERENT SEWER SYSTEM USED IN THE PAST? _____YES ✓ NO

IF YES SPECIFY TYPE _____

DATE CONVERTED _____

E. HISTORY: DATE OPERATIONS BEGAN: MAR, 1957

PRIOR OWNERS: None

IV. CHEMICAL STORAGE AND USE AT THE SITE. Complete sections A-G(page 2) for all chemicals in current use or that have been used in the past, use additional sheets if necessary.

A. CHEMICAL NAME:_____ B. COMMON/TRADE NAME:_____

C. METHOD OF STORAGE: UNDERGROUND TANK___ ABOVE GROUND TANK___
BARRELS___ OTHER(specify)_____

D. QUANTITY STORED: No Chemicals used
Retail Seller Only

E. WASTE DISPOSAL METHOD: SEWERED___ HAULED___ ONSITE DISPOSAL___

F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES___ NO___
If yes, method of treatment:_____

G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES___ NO___

A. CHEMICAL NAME:_____ B. COMMON/TRADE NAME:_____

C. METHOD OF STORAGE: UNDERGROUND TANK___ ABOVE GROUND TANK___
BARRELS___ OTHER(specify)_____

D. QUANTITY STORED:_____

E. WASTE DISPOSAL METHOD: SEWERED___ HAULED___ ONSITE DISPOSAL___

F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES___ NO___
If yes, method of treatment:_____

G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES___ NO___

A. CHEMICAL NAME:_____ B. COMMON/TRADE NAME:_____

C. METHOD OF STORAGE: UNDERGROUND TANK___ ABOVE GROUND TANK___
BARRELS___ OTHER(specify)_____

D. QUANTITY STORED:_____

E. WASTE DISPOSAL METHOD: SEWERED___ HAULED___ ONSITE DISPOSAL___

F. IS THE WASTE TREATED PRIOR TO DISPOSAL: YES___ NO___
If yes, method of treatment:_____

G. IS THE WASTE STORED PRIOR TO DISPOSAL: YES___ NO___

V. THIS QUESTIONNAIRE SHALL BE SIGNED BELOW AS FOLLOWS:

A. In the case of corporations, by a principal executive officer at the level of vice-president or his duly authorized representative if such representative is responsible for the overall operation of the facility, or

B. In the case of a partnership, by a general partner, or

C. In the case of a sole proprietorship, by the proprietor, or

D. In the case of a municipal, State, or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.

This questionnaire has been completed under penalty of perjury and, to the best of my knowledge, is true and correct.

Signature: Robert J Trainer Date: Feb 22-88

Printed Name: ROBERT J. TRAINER

Title: Co-owner Phone: 818-444-9086

Contact Name: Same as above

Title: Phone: 818-444-9086

STATE OF CALIFORNIA

GEORGE DEUKMEJIAN, *Governor*

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD—
LOS ANGELES REGION

107 SOUTH BROADWAY, SUITE 4027
LOS ANGELES, CALIFORNIA 90012–4596
(213) 620-4460

The California Regional Water Quality Control Board, Los Angeles Region, is the public agency with primary responsibility for the protection of ground and surface water quality for all beneficial uses within Los Angeles and Ventura counties.

As part of the statewide monitoring program (AB1803) being conducted under the direction of the California Department of Health Services, public drinking-water wells in your area have been sampled. The results of the sampling indicate the presence of organic contaminants in many of these wells.

Your facility is geographically within an area of concern and may be engaged in practices which might require the storage and use of chemicals. Therefore, pursuant to Section 13267(b) of the California Water Code, you are requested to complete the attached questionnaire to provide information on past or present chemical storage or use at your facility. Please return the completed questionnaire to the Regional Board by January 8, 1988. The return of this questionnaire, properly signed, is required even if no chemicals are stored or used at your facility. If you are new owners, complete the questionnaire to the best of your ability and provide available data concerning the past owners including contact and phone number.

If your facility is currently conducting or has conducted an investigation associated with soil or ground water contamination, please include a copy of the findings or relevant information along with the questionnaire.

If you have any questions, please call Keith L. Elliott at (213) 620-3789.

Roy Sakaida
Senior Water Resource
Control Engineer

Enclosures

# Appendix E

Regulatory Records Documentation

**HCHCELMONTE**
4716 Peck Road
El Monte, CA 91732

Inquiry Number: 3868742.2s
March 03, 2014

# The EDR Radius Map™ Report with GeoCheck®

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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## GEOCHECK ADDENDUM

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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) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

## TARGET PROPERTY INFORMATION

### ADDRESS

4716 PECK ROAD
EL MONTE, CA 91732

### COORDINATES

| | |
|---|---|
| Latitude (North): | 34.0892000 - 34˚ 5' 21.12'' |
| Longitude (West): | 118.0148000 - 118˚ 0' 53.28'' |
| Universal Tranverse Mercator: | Zone 11 |
| UTM X (Meters): | 406379.5 |
| UTM Y (Meters): | 3772316.2 |
| Elevation: | 322 ft. above sea level |

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

| | |
|---|---|
| Target Property Map: | 34118-A1 EL MONTE, CA |
| Most Recent Revision: | 1994 |
| East Map: | 34117-A8 BALDWIN PARK, CA |
| Most Recent Revision: | 1981 |

### AERIAL PHOTOGRAPHY IN THIS REPORT

| | |
|---|---|
| Photo Year: | 2012 |
| Source: | USDA |

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

| Site | Database(s) | EPA ID |
|---|---|---|
| CARILLO TIRE & WHEELS<br>4716 PECK RD<br>EL MONTE, CA 91732 | HAULERS | N/A |

# EXECUTIVE SUMMARY

**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***

CERCLIS ..... Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY ..... Federal Facility Site Information listing

***Federal CERCLIS NFRAP site List***

CERC-NFRAP ..... CERCLIS No Further Remedial Action Planned

***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-CESQG ..... RCRA - Conditionally Exempt Small Quantity Generator

***Federal institutional controls / engineering controls registries***

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

***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

# EXECUTIVE SUMMARY

***State and tribal leaking storage tank lists***

INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land

***State and tribal registered storage tank lists***

AST ..... Aboveground Petroleum Storage Tank Facilities
INDIAN UST ..... Underground Storage Tanks on Indian Land
FEMA UST ..... Underground Storage Tank Listing

***State and tribal voluntary cleanup sites***

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

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Brownfield lists***

US BROWNFIELDS ..... A Listing of Brownfields Sites

***Local Lists of Landfill / Solid Waste Disposal Sites***

DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations
ODI ..... Open Dump Inventory
WMUDS/SWAT ..... Waste Management Unit Database
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands

***Local Lists of Hazardous waste / Contaminated Sites***

US CDL ..... Clandestine Drug Labs
HIST Cal-Sites ..... Historical Calsites Database
SCH ..... School Property Evaluation Program
Toxic Pits ..... Toxic Pits Cleanup Act Sites
AOCONCERN ..... San Gabriel Valley Areas of Concern
CDL ..... Clandestine Drug Labs
US HIST CDL ..... National Clandestine Laboratory Register

***Local Land Records***

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

***Records of Emergency Release Reports***

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

***Other Ascertainable Records***

RCRA NonGen / NLR ..... RCRA - Non Generators

# EXECUTIVE SUMMARY

| | |
|---|---|
| DOT OPS | Incident and Accident Data |
| DOD | Department of Defense Sites |
| FUDS | Formerly Used Defense Sites |
| CONSENT | Superfund (CERCLA) Consent Decrees |
| ROD | Records Of Decision |
| UMTRA | Uranium Mill Tailings Sites |
| US MINES | Mines Master Index File |
| TRIS | Toxic Chemical Release Inventory System |
| TSCA | Toxic Substances Control Act |
| FTTS | FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) |
| HIST FTTS | FIFRA/TSCA Tracking System Administrative Case Listing |
| SSTS | Section 7 Tracking Systems |
| ICIS | Integrated Compliance Information System |
| PADS | PCB Activity Database System |
| MLTS | Material Licensing Tracking System |
| RADINFO | Radiation Information Database |
| FINDS | Facility Index System/Facility Registry System |
| RAATS | RCRA Administrative Action Tracking System |
| RMP | Risk Management Plans |
| CA BOND EXP. PLAN | Bond Expenditure Plan |
| NPDES | NPDES Permits Listing |
| UIC | UIC Listing |
| Cortese | "Cortese" Hazardous Waste & Substances Sites List |
| CUPA Listings | CUPA Resources List |
| LA Co. Site Mitigation | Site Mitigation List |
| LOS ANGELES CO. HMS | HMS: Street Number List |
| ENF | Enforcement Action Listing |
| HAZNET | Facility and Manifest Data |
| EMI | Emissions Inventory Data |
| INDIAN RESERV | Indian Reservations |
| SCRD DRYCLEANERS | State Coalition for Remediation of Drycleaners Listing |
| LEAD SMELTERS | Lead Smelter Sites |
| EPA WATCH LIST | EPA WATCH LIST |
| 2020 COR ACTION | 2020 Corrective Action Program List |
| PROC | Certified Processors Database |
| Financial Assurance | Financial Assurance Information Listing |
| US FIN ASSUR | Financial Assurance Information |
| HWP | EnviroStor Permitted Facilities Listing |
| US AIRS | Aerometric Information Retrieval System Facility Subsystem |
| WDS | Waste Discharge System |
| PRP | Potentially Responsible Parties |
| COAL ASH EPA | Coal Combustion Residues Surface Impoundments List |
| PCB TRANSFORMER | PCB Transformer Registration Database |
| MWMP | Medical Waste Management Program Listing |
| COAL ASH DOE | Steam-Electric Plant Operation Data |
| HWT | Registered Hazardous Waste Transporter Database |

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

| | |
|---|---|
| EDR MGP | EDR Proprietary Manufactured Gas Plants |

**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 09/10/2013 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| CVS PHARMACY NO 5834 | 11574 LOWER AZUSA RD | NNW 0 - 1/8 (0.105 mi.) | 23 | 28 |

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 09/10/2013 has revealed that there are 3 RCRA-SQG sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***BOULEVARD CLEANERS*** | ***4790 N PECK RD*** | ***N 0 - 1/8 (0.089 mi.)*** | ***C21*** | ***24*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***MERRILL CLEANERS*** | ***4727 PECK AVE*** | ***NW 0 - 1/8 (0.016 mi.)*** | ***A12*** | ***17*** |
| ***CARLS AUTO ELECTRIC*** | ***4564 N PECK RD*** | ***SSW 0 - 1/8 (0.124 mi.)*** | ***E33*** | ***38*** |

# EXECUTIVE SUMMARY

***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 11/06/2013 has revealed that there is 1 ENVIROSTOR site within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| KARDASHIAN AND MAX GOLDRING<br>Status: Refer: Other Agency | INTERSECTION OF KARDASH | NE 1/2 - 1 (0.909 mi.) | 49 | 47 |

***State and tribal leaking storage tank lists***

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 12/16/2013 has revealed that there are 3 LUST sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***WORTMANN OIL #7*** | ***4732 PECK RD N*** | ***NNW 0 - 1/8 (0.008 mi.)*** | ***A5*** | ***9*** |
| ***WORTMANN OIL #7***<br>Status: Open - Site Assessment | ***4732 N PECK RD*** | ***NNW 0 - 1/8 (0.008 mi.)*** | ***A7*** | ***11*** |
| ***EXXON #7-3793 (FORMER D&H SUP)***<br>Status: Completed - Case Closed | ***4801 PECK RD N*** | ***N 0 - 1/8 (0.111 mi.)*** | ***D28*** | ***33*** |

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 12/16/2013 has revealed that there is 1 SLIC site within approximately 0.5 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***MERRILL CLEANERS***<br>Facility Status: Open - Site Assessment | ***4727 N PECK RD*** | ***NW 0 - 1/8 (0.015 mi.)*** | ***A10*** | ***16*** |

# EXECUTIVE SUMMARY

***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, and dated 12/16/2013 has revealed that there are 3 UST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***WORTMANN OIL CO*** | ***4732 PECK RD*** | ***NNW 0 - 1/8 (0.008 mi.)*** | ***A6*** | ***10*** |
| D&H SUPER SERVICE | 4801 PECK RD | N 0 - 1/8 (0.111 mi.) | D30 | 36 |
| SBA PROPERTIES LLC NO 1 | 4802 PECK RD | NNE 0 - 1/8 (0.121 mi.) | D31 | 36 |

**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 12/16/2013 has revealed that there is 1 SWRCY site within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| GINAS RECYCLING CENTER | 4840 PECK RD | NNE 1/8 - 1/4 (0.144 mi.) | F36 | 42 |

***Local Lists of Registered Storage Tanks***

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

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 2 CA FID UST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***WORTMANN OIL #7*** | ***4732 N PECK RD*** | ***NNW 0 - 1/8 (0.008 mi.)*** | ***A7*** | ***11*** |
| ***EXXON CO USA SS#73793*** | ***4801 N PECK RD*** | ***N 0 - 1/8 (0.108 mi.)*** | ***C24*** | ***30*** |

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 4 HIST UST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***WORTMANN OIL CO*** | ***4732 PECK RD*** | ***NNW 0 - 1/8 (0.008 mi.)*** | ***A6*** | ***10*** |
| EXXON SERVICE STATION | 4801 PECK RD | N 0 - 1/8 (0.111 mi.) | D29 | 35 |
| ***UNION OIL SERVICE STATION LEAS*** | ***4802 PECK RD*** | ***NNE 0 - 1/8 (0.121 mi.)*** | ***D32*** | ***37*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***STATION 080*** | ***4625 PECK RD*** | ***SW 0 - 1/8 (0.047 mi.)*** | ***B15*** | ***20*** |

# EXECUTIVE SUMMARY

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

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 4 SWEEPS UST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***WORTMANN OIL #7*** | ***4732 N PECK RD*** | ***NNW 0 - 1/8 (0.008 mi.)*** | ***A7*** | ***11*** |
| ***EXXON CO USA SS#73793*** | ***4801 N PECK RD*** | ***N 0 - 1/8 (0.108 mi.)*** | ***C24*** | ***30*** |
| ***UNION OIL SERVICE STATION LEAS*** | ***4802 PECK RD*** | ***NNE 0 - 1/8 (0.121 mi.)*** | ***D32*** | ***37*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***CALIFORNIA TARGET ENT #080*** | ***4625 N PECK RD*** | ***SW 0 - 1/8 (0.047 mi.)*** | ***B14*** | ***19*** |

***Other Ascertainable Records***

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

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 2 HIST CORTESE sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***WORTMANN OIL #7*** | ***4732 PECK RD N*** | ***NNW 0 - 1/8 (0.008 mi.)*** | ***A5*** | ***9*** |
| ***EXXON #7-3793 (FORMER D&H SUP)*** | ***4801 PECK RD N*** | ***N 0 - 1/8 (0.111 mi.)*** | ***D28*** | ***33*** |

Notify 65: 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.

A review of the Notify 65 list, as provided by EDR, and dated 10/21/1993 has revealed that there are 5 Notify 65 sites within approximately 1 mile of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| HEMLOCK MUTUAL WATER CO | 11829 E. HEMLOCK | NE 1/2 - 1 (0.570 mi.) | I45 | 46 |
| HEMLOCK MUTUAL WATER CO | 11829 E. HEMLOCK ST | NE 1/2 - 1 (0.573 mi.) | I46 | 46 |
| HEMLOCK MUTUAL WATER CO. | 11829 E. HEMLOCK ST | NE 1/2 - 1 (0.573 mi.) | I47 | 46 |
| HEMLOCK MUTUAL WATER CO | 11829 E HEMLOCK ST | NE 1/2 - 1 (0.573 mi.) | I48 | 46 |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| PECK & 4TH GROVE AVE | | SSW 1/2 - 1 (0.968 mi.) | 50 | 48 |

# EXECUTIVE SUMMARY

DRYCLEANERS: 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 cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, and dated 09/10/2013 has revealed that there is 1 DRYCLEANERS site within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***BOULEVARD CLEANERS*** | ***4790 N PECK RD*** | ***N 0 - 1/8 (0.089 mi.)*** | ***C21*** | ***24*** |

WIP: Well Investigation Program case in the San Gabriel and San Fernando Valley area.

A review of the WIP list, as provided by EDR, and dated 07/03/2009 has revealed that there are 15 WIP sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ABC CLEANERS<br>Facility Status: Historical | 4728 PECK RD | NNW 0 - 1/8 (0.005 mi.) | A3 | 8 |
| DON ROSE ELECTRONICS<br>Facility Status: Historical | 4728 PECK RD | NNW 0 - 1/8 (0.005 mi.) | A4 | 9 |
| ***WORTMANN OIL CO***<br>Facility Status: Historical | ***4732 PECK RD*** | ***NNW 0 - 1/8 (0.008 mi.)*** | ***A6*** | ***10*** |
| BOULEVARD CLEANERS<br>Facility Status: Historical | 4739 PECK RD | NNW 0 - 1/8 (0.020 mi.) | A13 | 18 |
| STANDARD SERV STA | 4766 PECK RD | N 0 - 1/8 (0.055 mi.) | C18 | 22 |
| MCMILLEN'S NO. PECK SPEED WASH<br>Facility Status: Historical | 4851 PECK RD | NNE 1/8 - 1/4 (0.165 mi.) | F39 | 43 |
| GENE'S AUTO SERVICE<br>Facility Status: Historical | 4918 PECK RD | NNE 1/8 - 1/4 (0.222 mi.) | G40 | 44 |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| NORWOOD NURSERY<br>Facility Status: Historical | 4704 PECK RD | WSW 0 - 1/8 (0.005 mi.) | A2 | 8 |
| ***MERRILL CLEANERS***<br>Facility Status: Backlog | ***4727 N PECK RD*** | ***NW 0 - 1/8 (0.015 mi.)*** | ***A10*** | ***16*** |
| NORWOOD VILLAGE MAIL BOX<br>Facility Status: Historical | 4707 PECK RD | W 0 - 1/8 (0.016 mi.) | A11 | 17 |
| ***STATION 080*** | ***4625 PECK RD*** | ***SW 0 - 1/8 (0.047 mi.)*** | ***B15*** | ***20*** |
| JACK'S AUTO REPAIR<br>Facility Status: Historical | 4572 PECK RD | SSW 0 - 1/8 (0.110 mi.) | E26 | 32 |
| PECK RD AUTO SERVICE<br>Facility Status: Historical | 4564 N PECK RD | SSW 0 - 1/8 (0.124 mi.) | E34 | 41 |
| M&T BODY SHOP<br>Facility Status: Historical | 4508 PECK RD | SSW 1/8 - 1/4 (0.237 mi.) | H43 | 45 |
| RALPH'S RODENT CONTROL<br>Facility Status: Historical | 11726 EMERY ST | SSE 1/8 - 1/4 (0.241 mi.) | 44 | 45 |

# EXECUTIVE SUMMARY

## EDR HIGH RISK HISTORICAL RECORDS

### *EDR Exclusive Records*

EDR US Hist Auto Stat: 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.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 9 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| Not reported | 4801 PECK RD | N 0 - 1/8 (0.111 mi.) | D27 | 32 |
| Not reported | 11731 RANCHITO ST | ESE 1/8 - 1/4 (0.148 mi.) | 38 | 43 |
| Not reported | 4918 PECK RD | NNE 1/8 - 1/4 (0.222 mi.) | G41 | 44 |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| Not reported | 4723 PECK RD | NW 0 - 1/8 (0.015 mi.) | A8 | 14 |
| Not reported | 4625 PECK RD | SW 0 - 1/8 (0.048 mi.) | B16 | 21 |
| Not reported | 4623 PECK RD | SW 0 - 1/8 (0.048 mi.) | B17 | 22 |
| Not reported | 4572 PECK RD | SSW 0 - 1/8 (0.110 mi.) | E25 | 32 |
| Not reported | 4564 PECK RD | SSW 0 - 1/8 (0.124 mi.) | E35 | 41 |
| Not reported | 4508 PECK RD | SSW 1/8 - 1/4 (0.237 mi.) | H42 | 45 |

EDR US Hist 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.

A review of the EDR US Hist Cleaners list, as provided by EDR, has revealed that there are 5 EDR US Hist Cleaners sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| Not reported | 4774 PECK RD | N 0 - 1/8 (0.066 mi.) | C19 | 23 |
| Not reported | 4790 PECK RD | N 0 - 1/8 (0.089 mi.) | C20 | 23 |
| CASA BLANCA CLEANERS & MAIL CE | 11629 LOWER AZUSA RD | NNE 0 - 1/8 (0.099 mi.) | D22 | 27 |

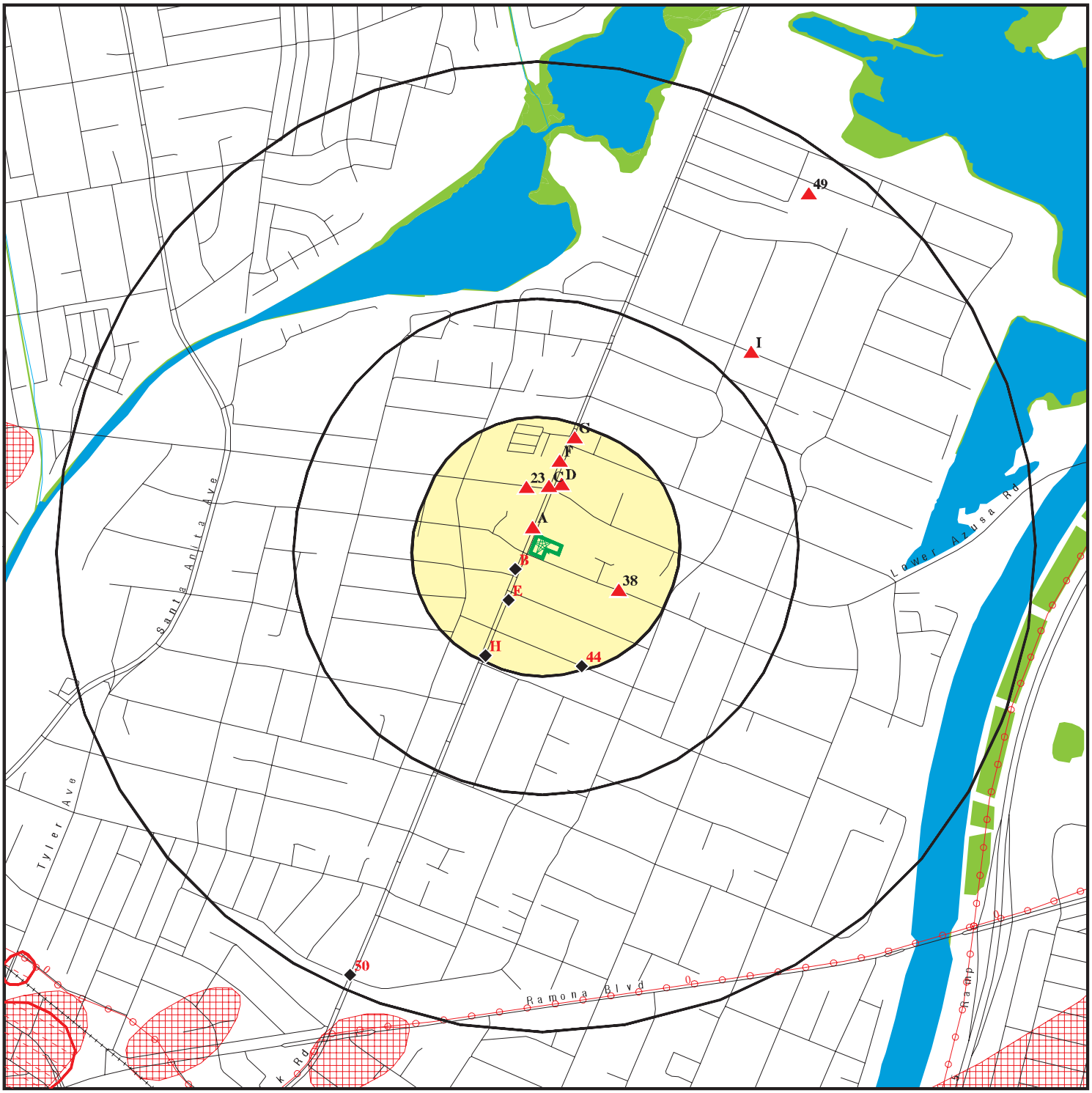
| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| Not reported | 4727 PECK RD | NW 0 - 1/8 (0.015 mi.) | A9 | 15 |
| Not reported | 4553 PECK RD | SW 1/8 - 1/4 (0.145 mi.) | E37 | 42 |

# EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 9 records.

| Site Name | Database(s) |
|---|---|
| SAN GABRIEL GROUNDWATER B | HIST CORTESE |
| HAROLD E. SIMPSON COMPANY | SWF/LF, LDS |
| EL MONTE FIRE STATION # 02 | SWEEPS UST |
| CE ADAMS | SWF/LF |
| GOLDRING DUMP LANDFILL | SWF/LF |
| CALIFORNIA TRANSPORTATION | RCRA-SQG, FINDS |
| THE GARRETT GROUP LLC | RCRA-SQG, FINDS |
| VOT SYSTEMS | WIP |
| SLS & N, INC. | US MINES |

# OVERVIEW MAP - 3868742.2s




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

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

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: HCHCELMONTE<br>ADDRESS: 4716 Peck Road<br>El Monte CA 91732<br>LAT/LONG: 34.0892 / 118.0148 | CLIENT: Pacific Environmental Company<br>CONTACT: Mike Lyssy<br>INQUIRY #: 3868742.2s<br>DATE: March 03, 2014 9:40 am |

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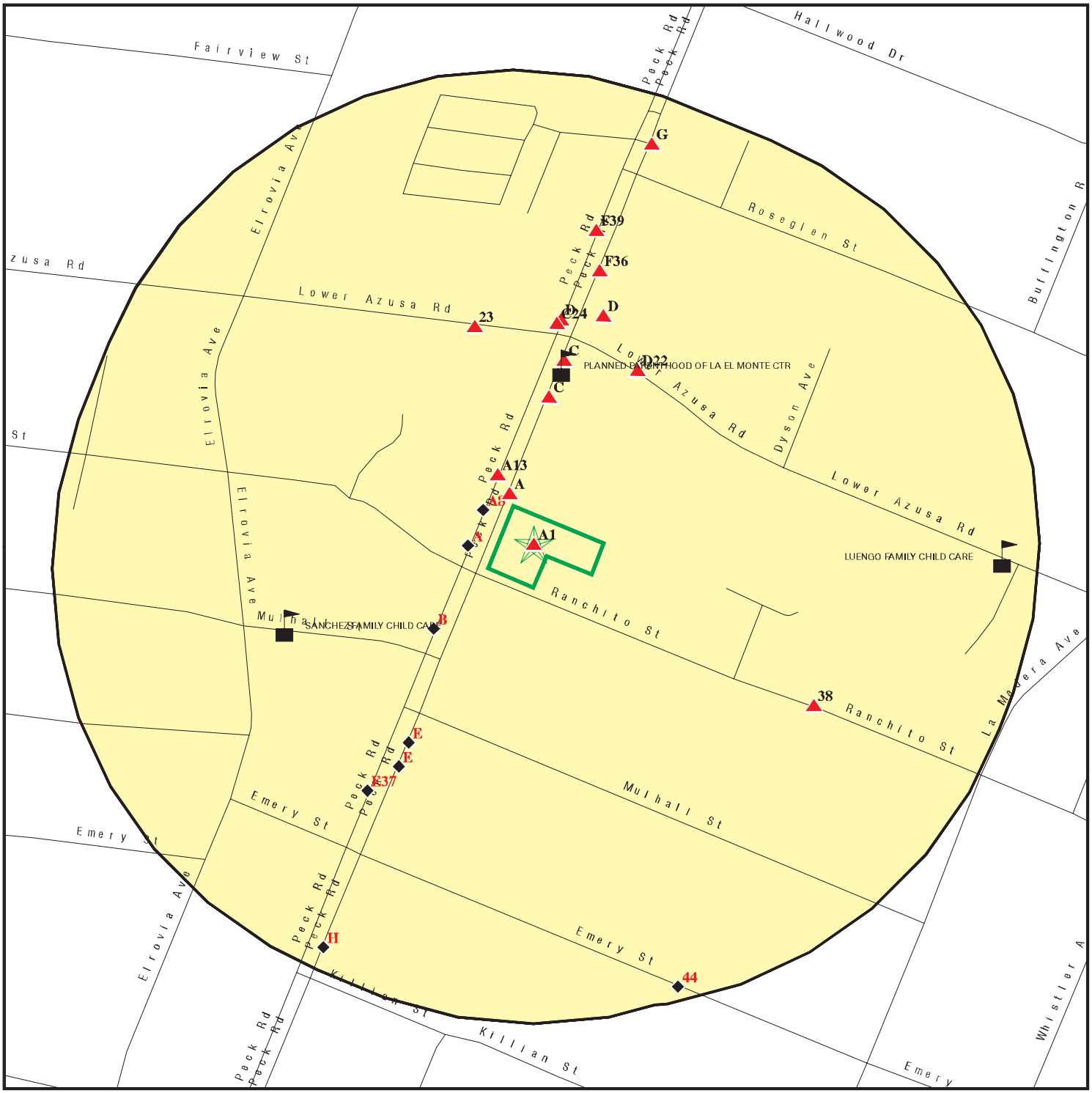
# DETAIL MAP - 3868742.2s




Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

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: HCHCELMONTE | CLIENT: Pacific Environmental Company |
| ADDRESS: 4716 Peck Road | CONTACT: Mike Lyssy |
| El Monte CA 91732 | INQUIRY #: 3868742.2s |
| LAT/LONG: 34.0892 / 118.0148 | DATE: March 03, 2014 9:41 am |

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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 | TP | | NR | NR | NR | NR | NR | 0 |
| ***Federal Delisted NPL site list*** | | | | | | | | |
| Delisted NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal CERCLIS list*** | | | | | | | | |
| CERCLIS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| FEDERAL FACILITY | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal CERCLIS NFRAP site List*** | | | | | | | | |
| CERC-NFRAP | 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 | | 3 | 0 | NR | NR | NR | 3 |
| RCRA-CESQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ***Federal institutional controls / engineering controls registries*** | | | | | | | | |
| US ENG CONTROLS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US INST CONTROL | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| LUCIS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal ERNS list*** | | | | | | | | |
| ERNS | TP | | NR | NR | NR | NR | NR | 0 |
| ***State- and tribal - equivalent NPL*** | | | | | | | | |
| RESPONSE | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***State- and tribal - equivalent CERCLIS*** | | | | | | | | |
| ENVIROSTOR | 1.000 | | 0 | 0 | 0 | 1 | NR | 1 |
| ***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 | | 3 | 0 | 0 | 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 |
|---|---|---|---|---|---|---|---|---|
| SLIC | 0.500 | | 1 | 0 | 0 | NR | NR | 1 |
| INDIAN LUST | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***State and tribal registered storage tank lists*** | | | | | | | | |
| UST | 0.250 | | 3 | 0 | NR | NR | NR | 3 |
| AST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| INDIAN UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| FEMA UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ***State and tribal voluntary cleanup sites*** | | | | | | | | |
| VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| INDIAN VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| **ADDITIONAL ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Local Brownfield lists*** | | | | | | | | |
| US BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Landfill / Solid Waste Disposal Sites*** | | | | | | | | |
| DEBRIS REGION 9 | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| WMUDS/SWAT | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| SWRCY | 0.500 | | 0 | 1 | 0 | NR | NR | 1 |
| HAULERS | TP | 1 | NR | NR | NR | NR | NR | 1 |
| INDIAN ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Hazardous waste / Contaminated Sites*** | | | | | | | | |
| US CDL | TP | | NR | 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 |
| Toxic Pits | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| AOCONCERN | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| CDL | TP | | NR | NR | NR | NR | NR | 0 |
| US HIST CDL | TP | | NR | NR | NR | NR | NR | 0 |
| ***Local Lists of Registered Storage Tanks*** | | | | | | | | |
| CA FID UST | 0.250 | | 2 | 0 | NR | NR | NR | 2 |
| HIST UST | 0.250 | | 4 | 0 | NR | NR | NR | 4 |
| SWEEPS UST | 0.250 | | 4 | 0 | NR | NR | NR | 4 |
| ***Local Land Records*** | | | | | | | | |
| LIENS 2 | TP | | NR | NR | NR | NR | NR | 0 |
| LIENS | TP | | NR | NR | NR | NR | NR | 0 |
| DEED | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Records of Emergency Release Reports*** | | | | | | | | |
| HMIRS | TP | | NR | NR | NR | NR | NR | 0 |
| CHMIRS | TP | | NR | 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 |
|---|---|---|---|---|---|---|---|---|
| LDS | TP | | NR | NR | NR | NR | NR | 0 |
| MCS | TP | | NR | NR | NR | NR | NR | 0 |
| SPILLS 90 | TP | | NR | NR | NR | NR | NR | 0 |
| ***Other Ascertainable Records*** | | | | | | | | |
| RCRA NonGen / NLR | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| DOT OPS | TP | | NR | NR | NR | NR | NR | 0 |
| DOD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| FUDS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| CONSENT | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ROD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| UMTRA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US MINES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| TRIS | TP | | NR | NR | NR | NR | NR | 0 |
| TSCA | TP | | NR | NR | NR | NR | NR | 0 |
| FTTS | TP | | NR | NR | NR | NR | NR | 0 |
| HIST FTTS | TP | | NR | NR | NR | NR | NR | 0 |
| SSTS | TP | | NR | NR | NR | NR | NR | 0 |
| ICIS | TP | | NR | NR | NR | NR | NR | 0 |
| PADS | TP | | NR | NR | NR | NR | NR | 0 |
| MLTS | TP | | NR | NR | NR | NR | NR | 0 |
| RADINFO | TP | | NR | NR | NR | NR | NR | 0 |
| FINDS | TP | | NR | NR | NR | NR | NR | 0 |
| RAATS | TP | | NR | NR | NR | NR | NR | 0 |
| RMP | TP | | NR | NR | NR | NR | NR | 0 |
| CA BOND EXP. PLAN | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| NPDES | TP | | NR | NR | NR | NR | NR | 0 |
| UIC | TP | | NR | NR | NR | NR | NR | 0 |
| Cortese | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| HIST CORTESE | 0.500 | | 2 | 0 | 0 | NR | NR | 2 |
| CUPA Listings | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| Notify 65 | 1.000 | | 0 | 0 | 0 | 5 | NR | 5 |
| LA Co. Site Mitigation | TP | | NR | NR | NR | NR | NR | 0 |
| DRYCLEANERS | 0.250 | | 1 | 0 | NR | NR | NR | 1 |
| LOS ANGELES CO. HMS | TP | | NR | NR | NR | NR | NR | 0 |
| WIP | 0.250 | | 11 | 4 | NR | NR | NR | 15 |
| ENF | TP | | NR | NR | NR | NR | NR | 0 |
| HAZNET | TP | | NR | NR | NR | NR | NR | 0 |
| EMI | TP | | NR | NR | NR | NR | NR | 0 |
| INDIAN RESERV | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| SCRD DRYCLEANERS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| LEAD SMELTERS | TP | | NR | NR | NR | NR | NR | 0 |
| EPA WATCH LIST | TP | | NR | NR | NR | NR | NR | 0 |
| 2020 COR ACTION | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| PROC | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| Financial Assurance | TP | | NR | NR | NR | NR | NR | 0 |
| US FIN ASSUR | TP | | NR | NR | NR | NR | NR | 0 |
| HWP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| US AIRS | TP | | NR | NR | NR | NR | NR | 0 |
| WDS | TP | | NR | NR | NR | NR | NR | 0 |
| PRP | TP | | NR | 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 |
|---|---|---|---|---|---|---|---|---|
| COAL ASH EPA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| PCB TRANSFORMER | TP | | NR | NR | NR | NR | NR | 0 |
| MWMP | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| COAL ASH DOE | TP | | NR | NR | NR | NR | NR | 0 |
| HWT | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| **EDR HIGH RISK HISTORICAL RECORDS** | | | | | | | | |
| ***EDR Exclusive Records*** | | | | | | | | |
| EDR MGP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| EDR US Hist Auto Stat | 0.250 | | 6 | 3 | NR | NR | NR | 9 |
| EDR US Hist Cleaners | 0.250 | | 4 | 1 | NR | NR | NR | 5 |
| **EDR RECOVERED GOVERNMENT ARCHIVES** | | | | | | | | |
| ***Exclusive Recovered Govt. Archives*** | | | | | | | | |
| RGA LF | TP | | NR | NR | NR | NR | NR | 0 |
| RGA LUST | TP | | NR | NR | NR | NR | NR | 0 |

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

**A1**
**Target**
**Property**

**CARILLO TIRE & WHEELS**
**4716 PECK RD**
**EL MONTE, CA 91732**

**HAULERS** **S109849853**
**N/A**

**Site 1 of 13 in cluster A**

**Actual:**
**322 ft.**

HAULERS:

| | |
|---|---|
| Facility ID: | 1573961 |
| Facility Phone: | (626) 442-4355 |
| Business Email Address: | sergioc31@live.com |
| Contact Person: | Sergio Cardenas |
| Mailing Address: | 4716 Peck Rd |
| Mailing City: | El Monte |
| Mailing State: | CA |
| Mailing Zip: | 91732 |
| Mailing County: | Los Angeles |
| Mailing Phone: | (626) 442-4355 |
| Current Role: | Generator, Hauler, End Use |
| Current Role Status: | Yes, Registered, Yes |
| Waste Tire Permit Summary: | No Permit record for this business. |

---

**A2**
**WSW**
**< 1/8**
**0.005 mi.**
**25 ft.**

**NORWOOD NURSERY**
**4704 PECK RD**
**EL MONTE, CA 91732**

**WIP** **S106765062**
**N/A**

**Site 2 of 13 in cluster A**

**Relative:**
**Lower**

**Actual:**
**321 ft.**

WIP:

| | |
|---|---|
| Region: | 4 |
| File Number: | 106.1265 |
| **File Status:** | **Historical** |
| Staff: | KELLIOTT |
| Facility Suite: | Not reported |

---

**A3**
**NNW**
**< 1/8**
**0.005 mi.**
**25 ft.**

**ABC CLEANERS**
**4728 PECK RD**
**EL MONTE, CA 91732**

**WIP** **S106765004**
**N/A**

**Site 3 of 13 in cluster A**

**Relative:**
**Higher**

**Actual:**
**322 ft.**

WIP:

| | |
|---|---|
| Region: | 4 |
| File Number: | 106.0009 |
| **File Status:** | **Historical** |
| Staff: | PBC |
| Facility Suite: | Not reported |

**A4 NNW < 1/8 0.005 mi. 25 ft.** | **DON ROSE ELECTRONICS** | **WIP** | **S106765070**
**4728 PECK RD** | **N/A**
**EL MONTE, CA 91732**

**Site 4 of 13 in cluster A**

**Relative: Higher**

**Actual: 322 ft.**

WIP:

| | |
|---|---|
| Region: | 4 |
| File Number: | 106.1462 |
| **File Status:** | **Historical** |
| Staff: | CCC |
| Facility Suite: | A |

---

**A5 NNW < 1/8 0.008 mi. 40 ft.** | **WORTMANN OIL #7** | **HIST CORTESE** | **S102769647**
**4732 PECK RD N** | **LUST** | **N/A**
**EL MONTE, CA 91732**

**Site 5 of 13 in cluster A**

**Relative: Higher**

**Actual: 322 ft.**

HIST CORTESE:

| | |
|---|---|
| Region: | CORTESE |
| Facility County Code: | 19 |
| Reg By: | LTNKA |
| Reg Id: | R-09183 |

LUST REG 4:

| | |
|---|---|
| Region: | 4 |
| Regional Board: | 04 |
| County: | Los Angeles |
| Facility Id: | R-09183 |
| Status: | Preliminary site assessment workplan submitted |
| Substance: | Gasoline |
| Substance Quantity: | Not reported |
| Local Case No: | Not reported |
| Case Type: | Soil |
| Abatement Method Used at the Site: | Not reported |
| Global ID: | T0603704787 |
| W Global ID: | Not reported |
| Staff: | UNK |
| Local Agency: | 19000 |
| Cross Street: | AZUSA RD |
| Enforcement Type: | Not reported |
| Date Leak Discovered: | 8/1/1996 |
| Date Leak First Reported: | 8/1/1996 |
| Date Leak Record Entered: | 9/11/1997 |
| Date Confirmation Began: | Not reported |
| Date Leak Stopped: | 8/1/1996 |
| Date Case Last Changed on Database: | 8/29/1997 |
| Date the Case was Closed: | Not reported |
| How Leak Discovered: | Tank Closure |
| How Leak Stopped: | Not reported |
| Cause of Leak: | UNK |
| Leak Source: | UNK |
| Operator: | Not reported |
| Water System: | Not reported |
| Well Name: | Not reported |
| Approx. Dist To Production Well (ft): | 1863.8685608409116410261339665 |
| Source of Cleanup Funding: | UNK |
| Preliminary Site Assessment Workplan Submitted: | 8/29/1997 |

**WORTMANN OIL #7 (Continued)** **S102769647**

| | |
|---|---|
| Preliminary Site Assessment Began: | Not reported |
| Pollution Characterization Began: | Not reported |
| Remediation Plan Submitted: | Not reported |
| Remedial Action Underway: | Not reported |
| Post Remedial Action Monitoring Began: | Not reported |
| Enforcement Action Date: | Not reported |
| Historical Max MTBE Date: | Not reported |
| Hist Max MTBE Conc in Groundwater: | Not reported |
| Hist Max MTBE Conc in Soil: | Not reported |
| Significant Interim Remedial Action Taken: | Not reported |
| GW Qualifier: | Not reported |
| Soil Qualifier: | Not reported |
| Organization: | Not reported |
| Owner Contact: | Not reported |
| Responsible Party: | WORTMANN OIL COMPANY |
| RP Address: | 3044 FOOTHILL BLVD., LA CRESCENTA, CA 91214 |
| Program: | LUST |
| Lat/Long: | 34.0896757 / -1 |
| Local Agency Staff: | Not reported |
| Beneficial Use: | Not reported |
| Priority: | Not reported |
| Cleanup Fund Id: | Not reported |
| Suspended: | Not reported |
| Assigned Name: | Not reported |
| Summary: | SITE CURRENTLY UTILIZED AS A RETAIL GASOLINE STATION. |

---

**A6** **WORTMANN OIL CO** **UST** **U001569427**
**NNW** **4732 PECK RD** **HIST UST** **N/A**
**< 1/8** **EL MONTE, CA 91732** **WIP**
**0.008 mi.**
**40 ft.** **Site 6 of 13 in cluster A**

**Relative:**
**Higher**

**Actual:**
**322 ft.**

UST:

| | |
|---|---|
| Facility ID: | 9183 |
| Latitude: | 34.08971 |
| Longitude: | -118.01504 |
| Permitting Agency | LOS ANGELES COUNTY |

HIST UST:

| | |
|---|---|
| Region: | STATE |
| Facility ID: | 00000005176 |
| Facility Type: | Gas Station |
| Other Type: | Not reported |
| Total Tanks: | 0004 |
| Contact Name: | JOHN D WORTMANN |
| Telephone: | 8182481339 |
| Owner Name: | WORTMANN OIL COMPANY |
| Owner Address: | 3044 FOOTHILL BLVD. |
| Owner City,St,Zip: | LA CRESCENTA, CA 91214 |
| | |
| Tank Num: | 001 |
| Container Num: | 1 |
| Year Installed: | Not reported |
| Tank Capacity: | 00010000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | UNLEADED |
| Tank Construction: | Not reported |

**WORTMANN OIL CO (Continued)** **U001569427**

Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 3
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 4
Year Installed: Not reported
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: Not reported
Leak Detection: Stock Inventor

WIP:
Region: 4
File Number: 106.5994
**File Status: Historical**
Staff: RSK
Facility Suite: Not reported

Region: 4
File Number: 106.0315
**File Status: Historical**
Staff: CRS
Facility Suite: Not reported

---

**A7** **WORTMANN OIL #7** **LUST** **S101587076**
**NNW** **4732 N PECK RD** **CA FID UST** **N/A**
**< 1/8** **EL MONTE, CA 91732** **SWEEPS UST**
**0.008 mi.** **LOS ANGELES CO. HMS**
**40 ft.** **Site 7 of 13 in cluster A**

**Relative: Higher**

**Actual: 322 ft.**

LUST:
Region: STATE
Global Id: T0603704787
Latitude: 34.0896757
Longitude: -118.0149806
Case Type: LUST Cleanup Site
Status: Open - Site Assessment
Status Date: 08/29/1997
Lead Agency: SWRCB

**WORTMANN OIL #7 (Continued)** **S101587076**

| | |
|---|---|
| Case Worker: | MC |
| Local Agency: | LOS ANGELES COUNTY |
| RB Case Number: | R-09183 |
| LOC Case Number: | TT009376-009183 |
| File Location: | Not reported |
| Potential Media Affect: | Soil |
| Potential Contaminants of Concern: | Gasoline |
| Site History: | Not reported |

Click here to access the California GeoTracker records for this facility:

Contact:

| | |
|---|---|
| Global Id: | T0603704787 |
| Contact Type: | Regional Board Caseworker |
| Contact Name: | YUE RONG |
| Organization Name: | LOS ANGELES RWQCB (REGION 4) |
| Address: | 320 W. 4TH ST., SUITE 200 |
| City: | Los Angeles |
| Email: | yrong@waterboards.ca.gov |
| Phone Number: | Not reported |

| | |
|---|---|
| Global Id: | T0603704787 |
| Contact Type: | Local Agency Caseworker |
| Contact Name: | JOHN AWUJO |
| Organization Name: | LOS ANGELES COUNTY |
| Address: | 900 S FREMONT AVE |
| City: | ALHAMBRA |
| Email: | jawujo@dpw.lacounty.gov |
| Phone Number: | 6264583507 |

| | |
|---|---|
| Global Id: | T0603704787 |
| Contact Type: | Regional Board Caseworker |
| Contact Name: | MATTHEW COHEN |
| Organization Name: | SWRCB |
| Address: | 1001 I Street |
| City: | SACRAMENTO |
| Email: | mcohen@waterboards.ca.gov |
| Phone Number: | 9163415751 |

Status History:

| | |
|---|---|
| Global Id: | T0603704787 |
| Status: | Open - Case Begin Date |
| Status Date: | 08/01/1996 |

| | |
|---|---|
| Global Id: | T0603704787 |
| Status: | Open - Site Assessment |
| Status Date: | 08/29/1997 |

Regulatory Activities:

| | |
|---|---|
| Global Id: | T0603704787 |
| Action Type: | RESPONSE |
| Date: | 10/28/1996 |
| Action: | Tank Removal Report / UST Sampling Report |

| | |
|---|---|
| Global Id: | T0603704787 |
| Action Type: | Other |
| Date: | 01/01/1950 |

**WORTMANN OIL #7 (Continued)** **S101587076**

Action: Leak Stopped

Global Id: T0603704787
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0603704787
Action Type: ENFORCEMENT
Date: 09/25/1997
Action: Staff Letter

Global Id: T0603704787
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

CA FID UST:
Facility ID: 19054821
Regulated By: UTNKA
Regulated ID: 00005176
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 8180000000
Mail To: Not reported
Mailing Address: 3044 W FOOTHILL BLVD
Mailing Address 2: Not reported
Mailing City,St,Zip: EL MONTE
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

SWEEPS UST:
Status: Active
Comp Number: 9183
Number: 9
Board Of Equalization: 44-008340
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Tank Status: A
Owner Tank Id: Not reported
Swrcb Tank Id: 19-000-009183-000001
Actv Date: 06-30-89
Capacity: Not reported
Tank Use: UNKNOWN
Stg: W
Content: Not reported
Number Of Tanks: 3

Status: Active

**WORTMANN OIL #7 (Continued)** **S101587076**

Comp Number: 9183
Number: 9
Board Of Equalization: 44-008340
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Tank Status: A
Owner Tank Id: Not reported
Swrcb Tank Id: 19-000-009183-000002
Actv Date: 06-30-89
Capacity: Not reported
Tank Use: UNKNOWN
Stg: W
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 9183
Number: 9
Board Of Equalization: 44-008340
Referral Date: 06-30-89
Action Date: Not reported
Created Date: 06-30-89
Tank Status: A
Owner Tank Id: Not reported
Swrcb Tank Id: 19-000-009183-000003
Actv Date: 06-30-89
Capacity: Not reported
Tank Use: UNKNOWN
Stg: W
Content: Not reported
Number Of Tanks: Not reported

LOS ANGELES CO. HMS:
Region: LA
Facility Id: 009376-009183
Facility Type: T0
Facility Status: Permit
Area: 3C
Permit Number: 00000167T
Permit Status: Permit

---

**A8** **EDR US Hist Auto Stat** **1015511496**
**NW** **4723 PECK RD** **N/A**
**< 1/8** **EL MONTE, CA 91732**
**0.015 mi.**
**81 ft.** **Site 8 of 13 in cluster A**

**Relative:**
**Lower**

**Actual:**
**321 ft.**

EDR Historical Auto Stations:
Name: RUDYS AUTO REPAIR
Year: 2001
Address: 4723 PECK RD

Name: RUDYS AUTO REPAIR
Year: 2002
Address: 4723 PECK RD

**(Continued)** **1015511496**

Name: RUDYS AUTO REPAIR
Year: 2003
Address: 4723 PECK RD

Name: UNIQUE AUTO CENTER
Year: 2005
Address: 4723 PECK RD

Name: UNIQUE AUTO CENTER
Year: 2006
Address: 4723 PECK RD

Name: UNIQUE AUTO CENTER
Year: 2007
Address: 4723 PECK RD

Name: UNIQUE AUTO CENTER
Year: 2008
Address: 4723 PECK RD

Name: UNIQUE AUTO CENTER
Year: 2009
Address: 4723 PECK RD

Name: UNIQUE AUTO CTR
Year: 2010
Address: 4723 PECK RD

Name: UNIQUE AUTO CENTER
Year: 2011
Address: 4723 PECK RD

Name: UNIQUE AUTO CENTER
Year: 2012
Address: 4723 PECK RD

---

**A9** **EDR US Hist Cleaners** **1015065270**
**NW** **4727 PECK RD** **N/A**
**< 1/8** **EL MONTE, CA 91732**
**0.015 mi.**
**81 ft.** **Site 9 of 13 in cluster A**

**Relative:**
**Lower**

**Actual:**
**321 ft.**

EDR Historical Cleaners:
Name: MERRILL CLEANERS
Year: 2007
Address: 4727 PECK RD

Name: MERRILLS CLEANERS
Year: 2008
Address: 4727 PECK RD

Name: MERRILLS CLEANERS
Year: 2009
Address: 4727 PECK RD

**A10 NW < 1/8 0.015 mi. 81 ft.** | **MERRILL CLEANERS**
**4727 N PECK RD**
**EL MONTE, CA 91732**

**Site 10 of 13 in cluster A**

**SLIC** **S106835494**
**WIP** **N/A**
**EMI**

**Relative: Lower**

**Actual: 321 ft.**

SLIC:

| | |
|---|---|
| Region: | STATE |
| **Facility Status:** | **Open - Site Assessment** |
| Status Date: | 01/24/1994 |
| Global Id: | SL603798685 |
| Lead Agency: | LOS ANGELES RWQCB (REGION 4) |
| Lead Agency Case Number: | Not reported |
| Latitude: | 34.09099 |
| Longitude: | -118.013749 |
| Case Type: | Cleanup Program Site |
| Case Worker: | Not reported |
| Local Agency: | Not reported |
| RB Case Number: | 106.0231 |
| File Location: | Not reported |
| Potential Media Affected: | Aquifer used for drinking water supply |
| Potential Contaminants of Concern: | Not reported |
| Site History: | Not reported |

Click here to access the California GeoTracker records for this facility:

WIP:

| | |
|---|---|
| Region: | 4 |
| File Number: | 106.0231 |
| **File Status:** | **Backlog** |
| Staff: | UNIDENTIFIED |
| Facility Suite: | Not reported |

EMI:

| | |
|---|---|
| Year: | 1990 |
| County Code: | 19 |
| Air Basin: | SC |
| Facility ID: | 5505 |
| Air District Name: | SC |
| SIC Code: | 7216 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 2 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers & Smllr Tons/Yr: | 0 |

**A11**
**West**
**< 1/8**
**0.016 mi.**
**83 ft.**

**NORWOOD VILLAGE MAIL BOX** — **WIP** — **S106765063**
**4707 PECK RD** — **N/A**
**EL MONTE, CA 91732**

**Site 11 of 13 in cluster A**

**Relative:**
**Lower**

**Actual:**
**321 ft.**

WIP:

| | |
|---|---|
| Region: | 4 |
| File Number: | 106.1266 |
| **File Status:** | **Historical** |
| Staff: | KELLIOTT |
| Facility Suite: | Not reported |

---

**A12**
**NW**
**< 1/8**
**0.016 mi.**
**83 ft.**

**MERRILL CLEANERS** — **RCRA-SQG** — **1000361992**
**4727 PECK AVE** — **FINDS** — **CAD981965973**
**EL MONTE, CA**

**Site 12 of 13 in cluster A**

**Relative:**
**Lower**

**Actual:**
**321 ft.**

RCRA-SQG:

| | |
|---|---|
| Date form received by agency: | 09/01/1996 |
| Facility name: | MERRILL CLEANERS |
| Facility address: | 4727 PECK AVE<br>EL MONTE, CA 91731 |
| EPA ID: | CAD981965973 |
| Contact: | Not reported |
| Contact address: | Not reported<br>Not reported |
| Contact country: | Not reported |
| Contact telephone: | Not reported |
| Contact email: | Not reported |
| EPA Region: | 09 |
| Classification: | Small Small Quantity Generator |
| Description: | Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time |

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | SAM TASMAJIAN |
| Owner/operator address: | NOT REQUIRED<br>NOT REQUIRED, ME 99999 |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | (415) 555-1212 |
| Legal status: | Private |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

| | |
|---|---|
| Owner/operator name: | NOT REQUIRED |
| Owner/operator address: | NOT REQUIRED<br>NOT REQUIRED, ME 99999 |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | (415) 555-1212 |
| Legal status: | Private |
| Owner/Operator Type: | Operator |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

**MERRILL CLEANERS (Continued)** **1000361992**

Handler Activities Summary:

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

Historical Generators:

| | |
|---|---|
| Date form received by agency: | 01/26/1986 |
| Facility name: | MERRILL CLEANERS |
| Classification: | Large Quantity Generator |
| Violation Status: | No violations found |

FINDS:

Registry ID: 110002758132

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.

---

**A13** **BOULEVARD CLEANERS** **WIP** **S106765009**
**NNW** **4739 PECK RD** **N/A**
**< 1/8** **EL MONTE, CA 91732**
**0.020 mi.**
**107 ft.** **Site 13 of 13 in cluster A**

**Relative:**
**Higher**

**Actual:**
**322 ft.**

WIP:

| | |
|---|---|
| Region: | 4 |
| File Number: | 106.0054 |
| **File Status:** | **Historical** |
| Staff: | MSMYTHE |
| Facility Suite: | Not reported |

**B14 SW < 1/8 0.047 mi. 246 ft.** | **CALIFORNIA TARGET ENT #080**
**4625 N PECK RD**
**EL MONTE, CA**

**Site 1 of 4 in cluster B**

**SWEEPS UST** | **S102059828**
**LOS ANGELES CO. HMS** | **N/A**

**Relative: Lower**

**Actual: 321 ft.**

SWEEPS UST:

| | |
|---|---|
| Status: | Active |
| Comp Number: | 13858 |
| Number: | 9 |
| Board Of Equalization: | 44-010268 |
| Referral Date: | 06-30-89 |
| Action Date: | Not reported |
| Created Date: | 06-30-89 |
| Tank Status: | A |
| Owner Tank Id: | Not reported |
| Swrcb Tank Id: | 19-000-013858-000001 |
| Actv Date: | 06-30-89 |
| Capacity: | Not reported |
| Tank Use: | UNKNOWN |
| Stg: | W |
| Content: | Not reported |
| Number Of Tanks: | 4 |

| | |
|---|---|
| Status: | Active |
| Comp Number: | 13858 |
| Number: | 9 |
| Board Of Equalization: | 44-010268 |
| Referral Date: | 06-30-89 |
| Action Date: | Not reported |
| Created Date: | 06-30-89 |
| Tank Status: | A |
| Owner Tank Id: | Not reported |
| Swrcb Tank Id: | 19-000-013858-000002 |
| Actv Date: | 06-30-89 |
| Capacity: | Not reported |
| Tank Use: | UNKNOWN |
| Stg: | Not reported |
| Content: | Not reported |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Status: | Active |
| Comp Number: | 13858 |
| Number: | 9 |
| Board Of Equalization: | 44-010268 |
| Referral Date: | 06-30-89 |
| Action Date: | Not reported |
| Created Date: | 06-30-89 |
| Tank Status: | A |
| Owner Tank Id: | Not reported |
| Swrcb Tank Id: | 19-000-013858-000003 |
| Actv Date: | 06-30-89 |
| Capacity: | Not reported |
| Tank Use: | UNKNOWN |
| Stg: | W |
| Content: | Not reported |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Status: | Active |

**CALIFORNIA TARGET ENT #080 (Continued)** **S102059828**

| | |
|---|---|
| Comp Number: | 13858 |
| Number: | 9 |
| Board Of Equalization: | 44-010268 |
| Referral Date: | 06-30-89 |
| Action Date: | Not reported |
| Created Date: | 06-30-89 |
| Tank Status: | A |
| Owner Tank Id: | Not reported |
| Swrcb Tank Id: | 19-000-013858-000004 |
| Actv Date: | 06-30-89 |
| Capacity: | Not reported |
| Tank Use: | UNKNOWN |
| Stg: | W |
| Content: | Not reported |
| Number Of Tanks: | Not reported |

LOS ANGELES CO. HMS:

| | |
|---|---|
| Region: | LA |
| Facility Id: | 003167-013858 |
| Facility Type: | T0 |
| Facility Status: | Closed |
| Area: | 3C |
| Permit Number: | 00005483T |
| Permit Status: | Closed |

| | |
|---|---|
| Region: | LA |
| Facility Id: | 003167-I03281 |
| Facility Type: | I00 |
| Facility Status: | Closed |
| Area: | 3C |
| Permit Number: | 000001377 |
| Permit Status: | Closed |

---

**B15** **STATION 080** **HIST UST** **U001569500**
**SW** **4625 PECK RD** **WIP** **N/A**
**< 1/8** **EL MONTE, CA 91733**
**0.047 mi.**
**246 ft.** **Site 2 of 4 in cluster B**

**Relative:**
**Lower**

**Actual:**
**321 ft.**

HIST UST:

| | |
|---|---|
| Region: | STATE |
| Facility ID: | 00000005230 |
| Facility Type: | Gas Station |
| Other Type: | Not reported |
| Total Tanks: | 0005 |
| Contact Name: | Not reported |
| Telephone: | 2139275339 |
| Owner Name: | CALIFORNIA TARGET ENTERPRISES, |
| Owner Address: | 12739 LAKEWOOD BLVD. |
| Owner City,St,Zip: | DOWNEY, CA 90242 |

| | |
|---|---|
| Tank Num: | 001 |
| Container Num: | 80-1 |
| Year Installed: | Not reported |
| Tank Capacity: | 00010000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | REGULAR |

**STATION 080 (Continued)** **U001569500**

Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 80-2
Year Installed: Not reported
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 80-3
Year Installed: Not reported
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 80-4
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Tank Construction: Not reported
Leak Detection: Visual

Tank Num: 005
Container Num: 80-5
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Tank Construction: Not reported
Leak Detection: Visual

WIP:
Region: 4
File Number: 106.5962
**File Status: Not reported**
Staff: UNIDENTIFIED
Facility Suite: Not reported

---

**B16** **EDR US Hist Auto Stat** **1015507739**
**SW** **4625 PECK RD** **N/A**
**< 1/8** **EL MONTE, CA 91732**
**0.048 mi.**
**251 ft.** **Site 3 of 4 in cluster B**

**Relative:**
**Lower**

**Actual:**
**321 ft.**

EDR Historical Auto Stations:
Name: ACCURATE AUTO SALES & REPAIR
Year: 2002
Address: 4625 PECK RD

**(Continued)** **1015507739**

Name: ACCURATE AUTO SALES & REPAIR
Year: 2004
Address: 4625 PECK RD

Name: EZ AUTO REPAIR
Year: 2008
Address: 4625 PECK RD

Name: EZ AUTO REPAIR
Year: 2009
Address: 4625 PECK RD

Name: E Z AUTO REPAIR
Year: 2010
Address: 4625 PECK RD

Name: EZ AUTO REPAIR
Year: 2012
Address: 4625 PECK RD

---

**B17** **EDR US Hist Auto Stat** **1015507662**
**SW** **4623 PECK RD** **N/A**
**< 1/8** **EL MONTE, CA 91732**
**0.048 mi.**
**256 ft.** **Site 4 of 4 in cluster B**

**Relative:**
**Lower**

**Actual:**
**321 ft.**

EDR Historical Auto Stations:
Name: EZ AUTO REPAIR
Year: 2007
Address: 4623 PECK RD

Name: EZ AUTO REPAIR
Year: 2011
Address: 4623 PECK RD

---

**C18** **STANDARD SERV STA** **WIP** **S106765160**
**North** **4766 PECK RD** **N/A**
**< 1/8** **EL MONTE, CA 91732**
**0.055 mi.**
**289 ft.** **Site 1 of 5 in cluster C**

**Relative:**
**Higher**

**Actual:**
**322 ft.**

WIP:
Region: 4
File Number: 106.5961
**File Status:** **Not reported**
Staff: UNIDENTIFIED
Facility Suite: Not reported

**C19**
**North**
**< 1/8**
**0.066 mi.**
**348 ft.**

**4774 PECK RD**
**EL MONTE, CA 91732**

**Site 2 of 5 in cluster C**

**EDR US Hist Cleaners** **1015065636**
**N/A**

**Relative:**
**Higher**

**Actual:**
**322 ft.**

EDR Historical Cleaners:

Name: COIN LAUNDRY
Year: 1999
Address: 4774 PECK RD

Name: COIN LAUNDRY
Year: 2002
Address: 4774 PECK RD

Name: SUNSHINE PACIFIC LAUNDRY
Year: 2004
Address: 4774 PECK RD

Name: SUNSHINE PACIFIC LAUNDRY
Year: 2005
Address: 4774 PECK RD

---

**C20**
**North**
**< 1/8**
**0.089 mi.**
**468 ft.**

**4790 PECK RD**
**EL MONTE, CA 91732**

**Site 3 of 5 in cluster C**

**EDR US Hist Cleaners** **1015065720**
**N/A**

**Relative:**
**Higher**

**Actual:**
**323 ft.**

EDR Historical Cleaners:

Name: BOULEVARD CLEANERS
Year: 2001
Address: 4790 PECK RD

Name: BOULEVARD CLEANERS
Year: 2002
Address: 4790 PECK RD

Name: BOULEVARD CLEANERS
Year: 2003
Address: 4790 PECK RD

Name: ARTISTIC CLEANERS
Year: 2004
Address: 4790 PECK RD

Name: CASA BLANCA CLEANERS
Year: 2011
Address: 4790 PECK RD

Name: CASA BLANCA CLEANERS
Year: 2012
Address: 4790 PECK RD

**C21 North < 1/8 0.089 mi. 468 ft.** | **BOULEVARD CLEANERS**
**4790 N PECK RD**
**EL MONTE, CA 91732**

**Site 4 of 5 in cluster C**

**RCRA-SQG**
**FINDS**
**DRYCLEANERS**
**HAZNET**

**1000597465**
**CAD983614785**

**Relative: Higher**

**Actual: 323 ft.**

RCRA-SQG:

| | |
|---|---|
| Date form received by agency: | 12/12/1991 |
| Facility name: | BOULEVARD CLEANERS |
| Facility address: | 4790 N PECK RD<br>EL MONTE, CA 91732 |
| EPA ID: | CAD983614785 |
| Mailing address: | N PECK RD<br>EL MONTE, CA 91732 |
| Contact: | MYUNG CHUNG |
| Contact address: | 4790 N PECK RD<br>EL MONTE, CA 91732 |
| Contact country: | US |
| Contact telephone: | (818) 448-7764 |
| Contact email: | Not reported |
| EPA Region: | 09 |
| Classification: | Small Small Quantity Generator |
| Description: | Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time |

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | MYUNG CHUNG |
| Owner/operator address: | 4790 N PECK RD<br>EL MONTE, CA 91732 |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | (818) 448-7764 |
| Legal status: | Private |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

Handler Activities Summary:

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

Violation Status: No violations found

**BOULEVARD CLEANERS (Continued)** **1000597465**

FINDS:

Registry ID: 110002865962

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.

DRYCLEANERS:

| | |
|---|---|
| EPA Id: | CAL000285287 |
| NAICS Code: | 81232 |
| NAICS Description: | Drycleaning and Laundry Services (except Coin-Operated) |
| SIC Code: | 7211 |
| SIC Description: | Power Laundries, Family and Commercial |
| Create Date: | 08/04/2004 |
| Facility Active: | No |
| Inactive Date: | 06/30/2006 |
| Facility Addr2: | Not reported |
| Owner Name: | KENNETH LEE |
| Owner Address: | 4790 N PECK RD |
| Owner Address 2: | Not reported |
| Owner Telephone: | 6264487764 |
| Contact Name: | KENNETH LEE |
| Contact Address: | 410 RAYMONDALE DR #8 |
| Contact Address 2: | Not reported |
| Contact Telephone: | 6267797716 |

| | |
|---|---|
| EPA Id: | CAD983614785 |
| NAICS Code: | 81232 |
| NAICS Description: | Drycleaning and Laundry Services (except Coin-Operated) |
| SIC Code: | 7211 |
| SIC Description: | Power Laundries, Family and Commercial |
| Create Date: | 12/12/1991 |
| Facility Active: | No |
| Inactive Date: | 10/11/2005 |
| Facility Addr2: | Not reported |
| Owner Name: | MYUNG CHUNG |
| Owner Address: | 4790 PECK RD # N |
| Owner Address 2: | Not reported |
| Owner Telephone: | 0000000000 |
| Contact Name: | -- |
| Contact Address: | -- |
| Contact Address 2: | Not reported |
| Contact Telephone: | 000000000 |

| | |
|---|---|
| EPA Id: | CAL000308175 |
| NAICS Code: | 81232 |
| NAICS Description: | Drycleaning and Laundry Services (except Coin-Operated) |
| SIC Code: | 7211 |
| SIC Description: | Power Laundries, Family and Commercial |
| Create Date: | 06/21/2006 |

**BOULEVARD CLEANERS (Continued)** **1000597465**

| | |
|---|---|
| Facility Active: | No |
| Inactive Date: | 06/30/2007 |
| Facility Addr2: | Not reported |
| Owner Name: | GUILLERMO GONZALEZ |
| Owner Address: | 4790 PECK RD |
| Owner Address 2: | Not reported |
| Owner Telephone: | 6264487764 |
| Contact Name: | GUILLERMO GONZALEZ |
| Contact Address: | 4790 PECK RD |
| Contact Address 2: | Not reported |
| Contact Telephone: | 6264487764 |

HAZNET:

| | |
|---|---|
| Year: | 2004 |
| Gepaid: | CAD983614785 |
| Contact: | -- |
| Telephone: | 000000000 |
| Mailing Name: | Not reported |
| Mailing Address: | 4790 PECK RD # N |
| Mailing City,St,Zip: | EL MONTE, CA 917320000 |
| Gen County: | Not reported |
| TSD EPA ID: | CAD008302903 |
| TSD County: | Not reported |
| Waste Category: | Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc) |
| Disposal Method: | Not reported |
| Tons: | Not reported |
| Facility County: | Los Angeles |

| | |
|---|---|
| Year: | 2004 |
| Gepaid: | CAD983614785 |
| Contact: | -- |
| Telephone: | 000000000 |
| Mailing Name: | Not reported |
| Mailing Address: | 4790 PECK RD # N |
| Mailing City,St,Zip: | EL MONTE, CA 917320000 |
| Gen County: | Not reported |
| TSD EPA ID: | CAD008302903 |
| TSD County: | Not reported |
| Waste Category: | Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc) |
| Disposal Method: | Transfer Station |
| Tons: | 0.06 |
| Facility County: | Los Angeles |

| | |
|---|---|
| Year: | 2003 |
| Gepaid: | CAD983614785 |
| Contact: | -- |
| Telephone: | 000000000 |
| Mailing Name: | Not reported |
| Mailing Address: | 4790 PECK RD # N |
| Mailing City,St,Zip: | EL MONTE, CA 917320000 |
| Gen County: | Not reported |
| TSD EPA ID: | CAD008302903 |
| TSD County: | Not reported |
| Waste Category: | Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc) |

**BOULEVARD CLEANERS (Continued)** **1000597465**

Disposal Method: Transfer Station
Tons: 0.12
Facility County: Los Angeles

Year: 2002
Gepaid: CAD983614785
Contact: --
Telephone: 000000000
Mailing Name: Not reported
Mailing Address: 4790 PECK RD # N
Mailing City,St,Zip: EL MONTE, CA 917320000
Gen County: Not reported
TSD EPA ID: CAD008302903
TSD County: Not reported
Waste Category: Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method: Transfer Station
Tons: 0.18
Facility County: Los Angeles

Year: 1999
Gepaid: CAD983614785
Contact: MYUNG CHUNG
Telephone: 0000000000
Mailing Name: Not reported
Mailing Address: 4790 PECK RD # N
Mailing City,St,Zip: EL MONTE, CA 917320000
Gen County: Not reported
TSD EPA ID: CAD981397417
TSD County: Not reported
Waste Category: Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc)
Disposal Method: Not reported
Tons: .2941
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
7 additional CA_HAZNET: record(s) in the EDR Site Report.

---

**D22** **CASA BLANCA CLEANERS & MAIL CENTER** **EDR US Hist Cleaners** **1009126098**
**NNE** **11629 LOWER AZUSA RD** **N/A**
**< 1/8** **EL MONTE, CA 91731**
**0.099 mi.**
**525 ft.** **Site 1 of 7 in cluster D**

**Relative:**
**Higher**

**Actual:**
**324 ft.**

EDR Historical Cleaners:
Name: CASA BLANCA CLEANERS & MAIL CENTER
Year: 1998
Type: Not reported

Name: CASA BLANCA CLEANERS & MAIL CENTER
Year: 2005
Address: 11629 LOWER AZUSA RD

Name: CASA BLANCA CLEANERS
Year: 2006
Address: 11629 LOWER AZUSA RD

**CASA BLANCA CLEANERS & MAIL CENTER (Continued)** **1009126098**

Name: CASABLANCA CLEANERS
Year: 2010
Address: 11629 LOWER AZUSA RD

---

**23**
**NNW**
**< 1/8**
**0.105 mi.**
**557 ft.**

**CVS PHARMACY NO 5834**
**11574 LOWER AZUSA RD**
**EL MONTE, CA 91732**

**RCRA-LQG** **1015740312**
**CAR000230011**

**Relative:**
**Higher**

**Actual:**
**323 ft.**

RCRA-LQG:

| | |
|---|---|
| Date form received by agency: | 09/04/2012 |
| Facility name: | CVS PHARMACY NO 5834 |
| Facility address: | 11574 LOWER AZUSA RD<br>EL MONTE, CA 91732 |
| EPA ID: | CAR000230011 |
| Mailing address: | ONE CVS DR<br>WOONSOCKET, RI 02895 |
| Contact: | WENDY L BRANT |
| Contact address: | ONE CVS DR<br>WOONSOCKET, RI 02895 |
| Contact country: | US |
| Contact telephone: | 401-765-1500 |
| Contact email: | WENDY.BRANT@CVSCAREMARK.COM |
| EPA Region: | 09 |
| Classification: | Large Quantity Generator |
| Description: | Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time |

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | I AND H LEES PROPERTY LLC |
| Owner/operator address: | 1720 DALTON RD<br>PALOS VERDES ESTATES, CA 90274 |
| Owner/operator country: | US |
| Owner/operator telephone: | 310-375-7539 |
| Legal status: | Private |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | 01/28/2005 |
| Owner/Op end date: | Not reported |
| | |
| Owner/operator name: | GARFIELD BEACH CVS LLC |
| Owner/operator address: | Not reported<br>Not reported |
| Owner/operator country: | US |
| Owner/operator telephone: | Not reported |
| Legal status: | Private |
| Owner/Operator Type: | Operator |

**CVS PHARMACY NO 5834 (Continued)** **1015740312**

Owner/Op start date: 07/02/2006
Owner/Op end date: Not reported

Handler Activities Summary:

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

Hazardous Waste Summary:

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

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

Waste code: P001
Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

Waste code: P042
Waste name: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)-

Waste code: P075
Waste name: NICOTINE, & SALTS

Waste code: P081
Waste name: NITROGLYCERINE (R)

Violation Status: No violations found

**C24 North < 1/8 0.108 mi. 570 ft.** | **EXXON CO USA SS#73793**
**4801 N PECK RD**
**EL MONTE, CA**

**Site 5 of 5 in cluster C**

**CA FID UST** | **S101583392**
**SWEEPS UST** | **N/A**

**Relative: Higher**

**Actual: 324 ft.**

CA FID UST:

| | |
|---|---|
| Facility ID: | 19003606 |
| Regulated By: | UTNKA |
| Regulated ID: | 00029134 |
| Cortese Code: | Not reported |
| SIC Code: | Not reported |
| Facility Phone: | 8180000000 |
| Mail To: | Not reported |
| Mailing Address: | P O BOX |
| Mailing Address 2: | Not reported |
| Mailing City,St,Zip: | EL MONTE |
| Contact: | Not reported |
| Contact Phone: | Not reported |
| DUNs Number: | Not reported |
| NPDES Number: | Not reported |
| EPA ID: | Not reported |
| Comments: | Not reported |
| Status: | Active |

SWEEPS UST:

| | |
|---|---|
| Status: | Active |
| Comp Number: | 12450 |
| Number: | 9 |
| Board Of Equalization: | 44-000285 |
| Referral Date: | 06-30-89 |
| Action Date: | Not reported |
| Created Date: | 06-30-89 |
| Tank Status: | A |
| Owner Tank Id: | Not reported |
| Swrcb Tank Id: | 19-000-012450-000001 |
| Actv Date: | 06-30-89 |
| Capacity: | Not reported |
| Tank Use: | UNKNOWN |
| Stg: | W |
| Content: | Not reported |
| Number Of Tanks: | 6 |

| | |
|---|---|
| Status: | Active |
| Comp Number: | 12450 |
| Number: | 9 |
| Board Of Equalization: | 44-000285 |
| Referral Date: | 06-30-89 |
| Action Date: | Not reported |
| Created Date: | 06-30-89 |
| Tank Status: | A |
| Owner Tank Id: | Not reported |
| Swrcb Tank Id: | 19-000-012450-000002 |
| Actv Date: | 06-30-89 |
| Capacity: | Not reported |
| Tank Use: | UNKNOWN |
| Stg: | W |
| Content: | Not reported |
| Number Of Tanks: | Not reported |

**EXXON CO USA SS#73793 (Continued)** **S101583392**

| | |
|---|---|
| Status: | Active |
| Comp Number: | 12450 |
| Number: | 9 |
| Board Of Equalization: | 44-000285 |
| Referral Date: | 06-30-89 |
| Action Date: | Not reported |
| Created Date: | 06-30-89 |
| Tank Status: | A |
| Owner Tank Id: | Not reported |
| Swrcb Tank Id: | 19-000-012450-000003 |
| Actv Date: | 06-30-89 |
| Capacity: | Not reported |
| Tank Use: | UNKNOWN |
| Stg: | W |
| Content: | Not reported |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Status: | Active |
| Comp Number: | 12450 |
| Number: | 9 |
| Board Of Equalization: | 44-000285 |
| Referral Date: | 06-30-89 |
| Action Date: | Not reported |
| Created Date: | 06-30-89 |
| Tank Status: | A |
| Owner Tank Id: | Not reported |
| Swrcb Tank Id: | 19-000-012450-000004 |
| Actv Date: | 06-30-89 |
| Capacity: | Not reported |
| Tank Use: | UNKNOWN |
| Stg: | W |
| Content: | Not reported |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Status: | Active |
| Comp Number: | 12450 |
| Number: | 9 |
| Board Of Equalization: | 44-000285 |
| Referral Date: | 06-30-89 |
| Action Date: | Not reported |
| Created Date: | 06-30-89 |
| Tank Status: | A |
| Owner Tank Id: | Not reported |
| Swrcb Tank Id: | 19-000-012450-000005 |
| Actv Date: | 06-30-89 |
| Capacity: | Not reported |
| Tank Use: | UNKNOWN |
| Stg: | W |
| Content: | Not reported |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Status: | Active |
| Comp Number: | 12450 |
| Number: | 9 |
| Board Of Equalization: | 44-000285 |
| Referral Date: | 06-30-89 |
| Action Date: | Not reported |

**EXXON CO USA SS#73793 (Continued)** **S101583392**

| | |
|---|---|
| Created Date: | 06-30-89 |
| Tank Status: | A |
| Owner Tank Id: | Not reported |
| Swrcb Tank Id: | 19-000-012450-000006 |
| Actv Date: | 06-30-89 |
| Capacity: | Not reported |
| Tank Use: | UNKNOWN |
| Stg: | W |
| Content: | Not reported |
| Number Of Tanks: | Not reported |

---

**E25** **EDR US Hist Auto Stat** **1015505260**
**SSW** **4572 PECK RD** **N/A**
**< 1/8** **EL MONTE, CA 91732**
**0.110 mi.**
**579 ft.** **Site 1 of 6 in cluster E**

**Relative:**
**Lower**

**Actual:**
**320 ft.**

EDR Historical Auto Stations:

| | |
|---|---|
| Name: | JACKS AUTO REPAIR |
| Year: | 1999 |
| Address: | 4572 PECK RD |
| Name: | JACKS AUTO REPAIR |
| Year: | 2001 |
| Address: | 4572 PECK RD |
| Name: | LACARRETA TIRES & AUTO REPAIR |
| Year: | 2003 |
| Address: | 4572 PECK RD |

---

**E26** **JACK'S AUTO REPAIR** **WIP** **S106765016**
**SSW** **4572 PECK RD** **N/A**
**< 1/8** **EL MONTE, CA 91732**
**0.110 mi.**
**579 ft.** **Site 2 of 6 in cluster E**

**Relative:**
**Lower**

**Actual:**
**320 ft.**

WIP:

| | |
|---|---|
| Region: | 4 |
| File Number: | 106.0120 |
| **File Status:** | **Historical** |
| Staff: | KELLIOTT |
| Facility Suite: | Not reported |

---

**D27** **EDR US Hist Auto Stat** **1015514172**
**North** **4801 PECK RD** **N/A**
**< 1/8** **EL MONTE, CA 91732**
**0.111 mi.**
**584 ft.** **Site 2 of 7 in cluster D**

**Relative:**
**Higher**

**Actual:**
**324 ft.**

EDR Historical Auto Stations:

| | |
|---|---|
| Name: | HARRYS EXXON |
| Year: | 2001 |
| Address: | 4801 PECK RD |
| Name: | HARRYS EXXON |

**(Continued)** **1015514172**

Year: 2003
Address: 4801 PECK RD

Name: D & H SUPER STATION
Year: 2004
Address: 4801 PECK RD

---

**D28** **EXXON #7-3793 (FORMER D&H SUP)** **HIST CORTESE** **S102429445**
**North** **4801 PECK RD N** **LUST** **N/A**
**< 1/8** **EL MONTE, CA 91731**
**0.111 mi.**
**584 ft.** **Site 3 of 7 in cluster D**

**Relative:**
**Higher**

**Actual:**
**324 ft.**

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: R-12450

LUST:
Region: STATE
Global Id: T0603705121
Latitude: 34.0909797
Longitude: -118.0145551
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 12/16/1997
Lead Agency: LOS ANGELES COUNTY
Case Worker: JOA
Local Agency: LOS ANGELES COUNTY
RB Case Number: R-12450
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603705121
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0603705121
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

**EXXON #7-3793 (FORMER D&H SUP) (Continued)** **S102429445**

Status History:

| | |
|---|---|
| Global Id: | T0603705121 |
| Status: | Open - Case Begin Date |
| Status Date: | 05/05/1992 |
| Global Id: | T0603705121 |
| Status: | Open - Site Assessment |
| Status Date: | 05/05/1992 |
| Global Id: | T0603705121 |
| Status: | Completed - Case Closed |
| Status Date: | 12/16/1997 |

Regulatory Activities:

| | |
|---|---|
| Global Id: | T0603705121 |
| Action Type: | Other |
| Date: | 01/01/1950 |
| Action: | Leak Stopped |
| Global Id: | T0603705121 |
| Action Type: | Other |
| Date: | 01/01/1950 |
| Action: | Leak Discovery |
| Global Id: | T0603705121 |
| Action Type: | Other |
| Date: | 01/01/1950 |
| Action: | Leak Reported |

LUST REG 4:

| | | |
|---|---|---|
| Region: | 4 | |
| Regional Board: | 04 | |
| County: | Los Angeles | |
| Facility Id: | R-12450 | |
| Status: | Case Closed | |
| Substance: | Gasoline | |
| Substance Quantity: | Not reported | |
| Local Case No: | Not reported | |
| Case Type: | Soil | |
| Abatement Method Used at the Site: | | Not reported |
| Global ID: | T0603705121 | |
| W Global ID: | Not reported | |
| Staff: | UNK | |
| Local Agency: | 19000 | |
| Cross Street: | LOWER AZUSA RD. | |
| Enforcement Type: | Not reported | |
| Date Leak Discovered: | 6/3/1997 | |
| Date Leak First Reported: | | 5/5/1992 |
| Date Leak Record Entered: | 5/26/1992 | |
| Date Confirmation Began: | Not reported | |
| Date Leak Stopped: | 7/1/1996 | |
| Date Case Last Changed on Database: | | 12/16/1997 |
| Date the Case was Closed: | | 12/16/1997 |
| How Leak Discovered: | Tank Closure | |
| How Leak Stopped: | Not reported | |

**EXXON #7-3793 (FORMER D&H SUP) (Continued)** **S102429445**

| | |
|---|---|
| Cause of Leak: | UNK |
| Leak Source: | UNK |
| Operator: | KECHICHIAN, HAROUT |
| Water System: | Not reported |
| Well Name: | Not reported |
| Approx. Dist To Production Well (ft): | 2154.532037168108585382195982 7 |
| Source of Cleanup Funding: | UNK |
| Preliminary Site Assessment Workplan Submitted: | Not reported |
| Preliminary Site Assessment Began: | 5/5/1992 |
| Pollution Characterization Began: | Not reported |
| Remediation Plan Submitted: | Not reported |
| Remedial Action Underway: | Not reported |
| Post Remedial Action Monitoring Began: | Not reported |
| Enforcement Action Date: | Not reported |
| Historical Max MTBE Date: | Not reported |
| Hist Max MTBE Conc in Groundwater: | Not reported |
| Hist Max MTBE Conc in Soil: | Not reported |
| Significant Interim Remedial Action Taken: | Not reported |
| GW Qualifier: | Not reported |
| Soil Qualifier: | Not reported |
| Organization: | Not reported |
| Owner Contact: | Not reported |
| Responsible Party: | EXXON CO U.S.A. |
| RP Address: | P.O. BOX 4032, CONCORD CA 94524-4032 |
| Program: | LUST |
| Lat/Long: | 34.0911017 / -1 |
| Local Agency Staff: | Not reported |
| Beneficial Use: | Not reported |
| Priority: | Not reported |
| Cleanup Fund Id: | Not reported |
| Suspended: | Not reported |
| Assigned Name: | Not reported |
| Summary: | ALL THE CONTAMINATION HAS BEEN ESCAVATED & DISPOSED OFF |

---

**D29** **EXXON SERVICE STATION** **HIST UST** **U001569409**
**North** **4801 PECK RD** **N/A**
**< 1/8** **EL MONTE, CA 91732**
**0.111 mi.**
**584 ft.** **Site 4 of 7 in cluster D**

**Relative:**
**Higher**

**Actual:**
**324 ft.**

HIST UST:

| | |
|---|---|
| Region: | STATE |
| Facility ID: | 00000029134 |
| Facility Type: | Gas Station |
| Other Type: | Not reported |
| Total Tanks: | 0004 |
| Contact Name: | HARUTIUM GEZALIAN |
| Telephone: | 2134439009 |
| Owner Name: | EXXON COMPANY U.S.A. |
| Owner Address: | 16945 NORTH CHASE BLVD. |
| Owner City,St,Zip: | HOUSTON, TX 77210 |
| | |
| Tank Num: | 001 |
| Container Num: | 1 |
| Year Installed: | 1967 |
| Tank Capacity: | 00008000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | PREMIUM |

**EXXON SERVICE STATION (Continued)** **U001569409**

Tank Construction: 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: REGULAR
Tank Construction: 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: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 4
Year Installed: 1967
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: WASTE OIL
Tank Construction: Not reported
Leak Detection: Stock Inventor

---

**D30** **D&H SUPER SERVICE** **UST** **U003939445**
**North** **4801 PECK RD** **N/A**
**< 1/8** **EL MONTE, CA 91732**
**0.111 mi.**
**584 ft.** **Site 5 of 7 in cluster D**

**Relative:**
**Higher**

**Actual:**
**324 ft.**

UST:
Facility ID: 23577
Latitude: 34.09117
Longitude: -118.01452
Permitting Agency LOS ANGELES COUNTY

---

**D31** **SBA PROPERTIES LLC NO 1** **UST** **U003778137**
**NNE** **4802 PECK RD** **N/A**
**< 1/8** **EL MONTE, CA 91732**
**0.121 mi.**
**637 ft.** **Site 6 of 7 in cluster D**

**Relative:**
**Higher**

**Actual:**
**324 ft.**

UST:
Facility ID: 26893
Latitude: 34.09097
Longitude: -118.01443
Permitting Agency LOS ANGELES COUNTY

**D32 NNE < 1/8 0.121 mi. 637 ft.** | **UNION OIL SERVICE STATION LEAS**
**4802 PECK RD**
**EL MONTE, CA 91732**

**Site 7 of 7 in cluster D** | **HIST UST** | **1000166775**
**SWEEPS UST** | **N/A**

**Relative: Higher**

**Actual: 324 ft.**

HIST UST:

| | |
|---|---|
| Region: | STATE |
| Facility ID: | 00000055492 |
| Facility Type: | Gas Station |
| Other Type: | Not reported |
| Total Tanks: | 0001 |
| Contact Name: | YESID CUECHA |
| Telephone: | 8184435922 |
| Owner Name: | UNION OIL COMPANY OF CALIFORNI |
| Owner Address: | 3701 WILSHIRE BOULEVARD-SUITE |
| Owner City,St,Zip: | LOS ANGELES, CA 90010 |
| | |
| Tank Num: | 001 |
| Container Num: | 5611-00 |
| Year Installed: | Not reported |
| Tank Capacity: | 00000607 |
| Tank Used for: | WASTE |
| Type of Fuel: | WASTE OIL |
| Tank Construction: | Not reported |
| Leak Detection: | None |

SWEEPS UST:

| | |
|---|---|
| Status: | Active |
| Comp Number: | 10000 |
| Number: | 9 |
| Board Of Equalization: | 44-001057 |
| Referral Date: | 06-30-89 |
| Action Date: | Not reported |
| Created Date: | 06-30-89 |
| Tank Status: | A |
| Owner Tank Id: | Not reported |
| Swrcb Tank Id: | 19-000-010000-000001 |
| Actv Date: | 06-30-89 |
| Capacity: | Not reported |
| Tank Use: | UNKNOWN |
| Stg: | W |
| Content: | Not reported |
| Number Of Tanks: | 3 |
| | |
| Status: | Active |
| Comp Number: | 10000 |
| Number: | 9 |
| Board Of Equalization: | 44-001057 |
| Referral Date: | 06-30-89 |
| Action Date: | Not reported |
| Created Date: | 06-30-89 |
| Tank Status: | A |
| Owner Tank Id: | Not reported |
| Swrcb Tank Id: | 19-000-010000-000002 |
| Actv Date: | 06-30-89 |
| Capacity: | Not reported |
| Tank Use: | UNKNOWN |
| Stg: | W |

**UNION OIL SERVICE STATION LEAS (Continued)** **1000166775**

| | |
|---|---|
| Content: | Not reported |
| Number Of Tanks: | Not reported |
| | |
| Status: | Active |
| Comp Number: | 10000 |
| Number: | 9 |
| Board Of Equalization: | 44-001057 |
| Referral Date: | 06-30-89 |
| Action Date: | Not reported |
| Created Date: | 06-30-89 |
| Tank Status: | A |
| Owner Tank Id: | Not reported |
| Swrcb Tank Id: | 19-000-010000-000003 |
| Actv Date: | 06-30-89 |
| Capacity: | Not reported |
| Tank Use: | UNKNOWN |
| Stg: | W |
| Content: | Not reported |
| Number Of Tanks: | Not reported |

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**E33**
**SSW**
**< 1/8**
**0.124 mi.**
**657 ft.**

**CARLS AUTO ELECTRIC** **RCRA-SQG** **1004675834**
**4564 N PECK RD** **FINDS** **CAR000077610**
**EL MONTE, CA** **HAZNET**

**Site 3 of 6 in cluster E**

**Relative:**
**Lower**

**Actual:**
**320 ft.**

RCRA-SQG:

| | |
|---|---|
| Date form received by agency: | 07/11/2000 |
| Facility name: | CARLS AUTO ELECTRIC |
| Facility address: | 4564 N PECK RD<br>EL MONTE, CA 917321906 |
| EPA ID: | CAR000077610 |
| Contact: | ERIK KIM |
| Contact address: | 4564 N PECK RD<br>EL MONTE, CA 917321906 |
| Contact country: | US |
| Contact telephone: | (626) 443-7767 |
| Contact email: | Not reported |
| EPA Region: | 09 |
| Classification: | Small Small Quantity Generator |
| Description: | Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time |

Owner/Operator Summary:

| | |
|---|---|
| Owner/operator name: | ERIK KIM |
| Owner/operator address: | 4564 N PECK RD<br>EL MONTE, CA 91732 |
| Owner/operator country: | Not reported |
| Owner/operator telephone: | (626) 443-7767 |
| Legal status: | Private |
| Owner/Operator Type: | Owner |
| Owner/Op start date: | Not reported |
| Owner/Op end date: | Not reported |

**CARLS AUTO ELECTRIC (Continued)** **1004675834**

Handler Activities Summary:

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

Hazardous Waste Summary:

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

Waste code: D018
Waste name: BENZENE

Waste code: D039
Waste name: TETRACHLOROETHYLENE

Waste code: D040
Waste name: TRICHLOROETHYLENE

Violation Status: No violations found

FINDS:

Registry ID: 110002940104

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.

HAZNET:

Year: 2004
Gepaid: CAR000077610
Contact: ERI KIM
Telephone: 6264437767

**CARLS AUTO ELECTRIC (Continued)** **1004675834**

Mailing Name: Not reported
Mailing Address: 4564 N PECK RD
Mailing City,St,Zip: EL MONTE, CA 91732
Gen County: Not reported
TSD EPA ID: CAT000613893
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Transfer Station
Tons: 0.05
Facility County: Los Angeles

Year: 2004
Gepaid: CAR000077610
Contact: ERI KIM
Telephone: 6264437767
Mailing Name: Not reported
Mailing Address: 4564 N PECK RD
Mailing City,St,Zip: EL MONTE, CA 91732
Gen County: Not reported
TSD EPA ID: CAT000613976
TSD County: Not reported
Waste Category: Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: Transfer Station
Tons: 0.08
Facility County: Los Angeles

Year: 2003
Gepaid: CAR000077610
Contact: ERI KIM
Telephone: 6264437767
Mailing Name: Not reported
Mailing Address: 4564 N PECK RD
Mailing City,St,Zip: EL MONTE, CA 91732
Gen County: Not reported
TSD EPA ID: CAT000613893
TSD County: Not reported
Waste Category: Aqueous solution with total organic residues less than 10 percent
Disposal Method: Transfer Station
Tons: 0.09
Facility County: Los Angeles

Year: 2002
Gepaid: CAR000077610
Contact: ERI KIM
Telephone: 6264437767
Mailing Name: Not reported
Mailing Address: 4564 N PECK RD
Mailing City,St,Zip: EL MONTE, CA 91732
Gen County: Not reported
TSD EPA ID: CAT000613976
TSD County: Not reported
Waste Category: Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: Transfer Station
Tons: 0.28
Facility County: Los Angeles

Year: 2001

**CARLS AUTO ELECTRIC (Continued)** **1004675834**

| | |
|---|---|
| Gepaid: | CAR000077610 |
| Contact: | ERI KIM |
| Telephone: | 6264437767 |
| Mailing Name: | Not reported |
| Mailing Address: | 4564 N PECK RD |
| Mailing City,St,Zip: | EL MONTE, CA 91732 |
| Gen County: | Not reported |
| TSD EPA ID: | CAT000613893 |
| TSD County: | Not reported |
| Waste Category: | Aqueous solution with total organic residues less than 10 percent |
| Disposal Method: | Transfer Station |
| Tons: | 0.08 |
| Facility County: | Los Angeles |

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

---

**E34** **PECK RD AUTO SERVICE** **WIP** **S106765008**
**SSW** **4564 N PECK RD** **N/A**
**< 1/8** **EL MONTE, CA 91732**
**0.124 mi.**
**657 ft.** **Site 4 of 6 in cluster E**

**Relative:**
**Lower**

**Actual:**
**320 ft.**

WIP:

| | |
|---|---|
| Region: | 4 |
| File Number: | 106.0034 |
| **File Status:** | **Historical** |
| Staff: | CQC |
| Facility Suite: | 8 |

---

**E35** **EDR US Hist Auto Stat** **1015505015**
**SSW** **4564 PECK RD** **N/A**
**< 1/8** **EL MONTE, CA 91732**
**0.124 mi.**
**657 ft.** **Site 5 of 6 in cluster E**

**Relative:**
**Lower**

**Actual:**
**320 ft.**

EDR Historical Auto Stations:

| | |
|---|---|
| Name: | MASTER CARE AUTOMOTIVE REPAIR |
| Year: | 1999 |
| Address: | 4564 PECK RD |
| Name: | CARLS AUTO ELECTRIC |
| Year: | 2001 |
| Address: | 4564 PECK RD |
| Name: | GILBERTS AUTOMOTIVE |
| Year: | 2003 |
| Address: | 4564 PECK RD |
| Name: | TECHNICAL AUTOMOTIVE |
| Year: | 2004 |
| Address: | 4564 PECK RD |
| Name: | GILBERTS AUTOMOTIVE |
| Year: | 2005 |
| Address: | 4564 PECK RD |

**(Continued)** **1015505015**

Name: AUTO ELECTRIC
Year: 2011
Address: 4564 PECK RD

Name: AUTO ELECTRIC
Year: 2012
Address: 4564 PECK RD

---

**F36** **GINAS RECYCLING CENTER** **SWRCY** **S107137052**
**NNE** **4840 PECK RD** **N/A**
**1/8-1/4** **EL MONTE, CA 91732**
**0.144 mi.**
**760 ft.** **Site 1 of 2 in cluster F**

**Relative:**
**Higher**

**Actual:**
**325 ft.**

SWRCY:

| | |
|---|---|
| Reg Id: | 26510 |
| Cert Id: | RC12574 |
| Mailing Address: | 1468 Atchison St |
| Mailing City: | Pasadena |
| Mailing State: | CA |
| Mailing Zip Code: | 91104 |
| Website: | Not reported |
| Phone Number: | (626) 628-6117 |
| Grand Father: | N |
| Rural: | N |
| Operation Begin Date: | 05/01/2005 |
| Aluminium: | Y |
| Glass: | Y |
| Plastic: | Y |
| Bimetal: | Y |
| Agency: | N/A |
| Monday Hours Of Operation: | 10:00 am - 4:30 pm |
| Tuesday Hours Of Operation: | 10:00 am - 4:30 pm |
| Wednesday Hours Of Operation: | CLOSED |
| Thursday Hours Of Operation: | 10:00 am - 4:30 pm |
| Friday Hours Of Operation: | 10:00 am - 4:30 pm |
| Saturday Hours Of Operation: | 10:00 am - 4:00 pm |
| Sunday Hours Of Operation: | 10:00 am - 3:00 pm |
| Cert Status: | Operational |
| Organization ID: | 18755 |
| Organization Name: | Ginas Recycling Center |
| Agency Reg ID: | N/A |
| Operation End Date: | Not reported |

---

**E37** **EDR US Hist Cleaners** **1015063534**
**SW** **4553 PECK RD** **N/A**
**1/8-1/4** **EL MONTE, CA 91732**
**0.145 mi.**
**766 ft.** **Site 6 of 6 in cluster E**

**Relative:**
**Lower**

**Actual:**
**319 ft.**

EDR Historical Cleaners:
Name: SPARKLEAN LAUNDRY
Year: 2004
Address: 4553 PECK RD

Name: SPARKLEN LAUNDRY

**(Continued)** **1015063534**

Year: 2005
Address: 4553 PECK RD

Name: SPARKLEAN LAUNDRY
Year: 2006
Address: 4553 PECK RD

Name: SPARKLEAN LAUNDRY
Year: 2007
Address: 4553 PECK RD

Name: SPARKLEAN LAUNDRY
Year: 2008
Address: 4553 PECK RD

Name: SPARKLEAN LAUNDRY
Year: 2009
Address: 4553 PECK RD

Name: SPARKLEAN LAUNDRY
Year: 2010
Address: 4553 PECK RD

Name: SPARKLEAN LAUNDRY
Year: 2011
Address: 4553 PECK RD

Name: SPARKLEAN LAUNDRY
Year: 2012
Address: 4553 PECK RD

---

**38**
**ESE**
**1/8-1/4**
**0.148 mi.**
**780 ft.**

**11731 RANCHITO ST**
**EL MONTE, CA 91732**

**EDR US Hist Auto Stat** **1015173069**
**N/A**

**Relative:**
**Higher**

**Actual:**
**325 ft.**

EDR Historical Auto Stations:
Name: V & T AUTOMOTIVE & OILS
Year: 2003
Address: 11731 RANCHITO ST

Name: V & T AUTOMOTIVE & OILS
Year: 2004
Address: 11731 RANCHITO ST

---

**F39**
**NNE**
**1/8-1/4**
**0.165 mi.**
**873 ft.**

**MCMILLEN'S NO. PECK SPEED WASH**
**4851 PECK RD**
**EL MONTE, CA 91732**

**Site 2 of 2 in cluster F**

**WIP** **S106765060**
**N/A**

**Relative:**
**Higher**

**Actual:**
**325 ft.**

WIP:
Region: 4
File Number: 106.1197
**File Status:** **Historical**

**MCMILLEN'S NO. PECK SPEED WASH (Continued)** **S106765060**

Staff: CCC
Facility Suite: Not reported

---

**G40**
**NNE**
**1/8-1/4**
**0.222 mi.**
**1174 ft.**

**GENE'S AUTO SERVICE**
**4918 PECK RD**
**EL MONTE, CA 91732**

**Site 1 of 2 in cluster G**

**WIP** **S106765017**
**N/A**

**Relative:**
**Higher**

**Actual:**
**327 ft.**

WIP:
Region: 4
File Number: 106.0152
**File Status:** **Historical**
Staff: CCC
Facility Suite: Not reported

---

**G41**
**NNE**
**1/8-1/4**
**0.222 mi.**
**1174 ft.**

**4918 PECK RD**
**EL MONTE, CA 91732**

**Site 2 of 2 in cluster G**

**EDR US Hist Auto Stat** **1015518242**
**N/A**

**Relative:**
**Higher**

**Actual:**
**327 ft.**

EDR Historical Auto Stations:

Name: NORTH PECK AUTOMOTIVE
Year: 2001
Address: 4918 PECK RD

Name: NORTH PECK AUTOMOTIVE
Year: 2002
Address: 4918 PECK RD

Name: NORTH PECK AUTOMOTIVE
Year: 2003
Address: 4918 PECK RD

Name: NORTH PECK AUTOMOTIVE
Year: 2004
Address: 4918 PECK RD

Name: NORTH PECK AUTOMOTIVE INC
Year: 2005
Address: 4918 PECK RD

Name: NORTH PECK AUTOMOTIVE
Year: 2006
Address: 4918 PECK RD

Name: NORTH PECK AUTOMOTIVE
Year: 2007
Address: 4918 PECK RD

Name: NORTH PECK AUTOMOTIVE INC
Year: 2008
Address: 4918 PECK RD

Name: NORTH PECK AUTOMOTIVE INC

**(Continued)** **1015518242**

Year: 2011
Address: 4918 PECK RD

Name: NORTH PECK AUTOMOTIVE INC
Year: 2012
Address: 4918 PECK RD

---

**H42**
**SSW**
**1/8-1/4**
**0.237 mi.**
**1250 ft.**

**4508 PECK RD**
**EL MONTE, CA 91732**

**Site 1 of 2 in cluster H**

**EDR US Hist Auto Stat** **1015502523**
**N/A**

**Relative:**
**Lower**

**Actual:**
**318 ft.**

EDR Historical Auto Stations:
Name: M & T BODY SHOP
Year: 2001
Address: 4508 PECK RD

Name: M & T BODY SHOP
Year: 2002
Address: 4508 PECK RD

Name: TONYS AUTO SVC
Year: 2010
Address: 4508 PECK RD

---

**H43**
**SSW**
**1/8-1/4**
**0.237 mi.**
**1250 ft.**

**M&T BODY SHOP**
**4508 PECK RD**
**EL MONTE, CA 91732**

**Site 2 of 2 in cluster H**

**WIP** **S106765023**
**N/A**

**Relative:**
**Lower**

**Actual:**
**318 ft.**

WIP:
Region: 4
File Number: 106.0219
**File Status:** **Historical**
Staff: PBC
Facility Suite: Not reported

---

**44**
**SSE**
**1/8-1/4**
**0.241 mi.**
**1275 ft.**

**RALPH'S RODENT CONTROL**
**11726 EMERY ST**
**EL MONTE, CA 91732**

**WIP** **S106765069**
**N/A**

**Relative:**
**Lower**

**Actual:**
**321 ft.**

WIP:
Region: 4
File Number: 106.1416
**File Status:** **Historical**
Staff: KELLIOTT
Facility Suite: Not reported

**I45**
**NE**
**1/2-1**
**0.570 mi.**
**3010 ft.**

**HEMLOCK MUTUAL WATER CO**
**11829 E. HEMLOCK**
**EL MONTE, CA 91732**

**Site 1 of 4 in cluster I**

**Notify 65** **S100178530**
**N/A**

**Relative:**
**Higher**

**Actual:**
**336 ft.**

Notify 65:

| | |
|---|---|
| Date Reported: | Not reported |
| Staff Initials: | Not reported |
| Board File Number: | Not reported |
| Facility Type: | Not reported |
| Discharge Date: | Not reported |
| Incident Description: | 91732-1412 |

---

**I46**
**NE**
**1/2-1**
**0.573 mi.**
**3024 ft.**

**HEMLOCK MUTUAL WATER CO**
**11829 E. HEMLOCK ST**
**EL MONTE, CA 91732**

**Site 2 of 4 in cluster I**

**Notify 65** **S100178596**
**N/A**

**Relative:**
**Higher**

**Actual:**
**336 ft.**

Notify 65:

| | |
|---|---|
| Date Reported: | Not reported |
| Staff Initials: | Not reported |
| Board File Number: | Not reported |
| Facility Type: | Not reported |
| Discharge Date: | Not reported |
| Incident Description: | 91732-1412 |

---

**I47**
**NE**
**1/2-1**
**0.573 mi.**
**3024 ft.**

**HEMLOCK MUTUAL WATER CO.**
**11829 E. HEMLOCK ST**
**EL MONTE, CA 91732**

**Site 3 of 4 in cluster I**

**Notify 65** **S100178595**
**N/A**

**Relative:**
**Higher**

**Actual:**
**336 ft.**

Notify 65:

| | |
|---|---|
| Date Reported: | Not reported |
| Staff Initials: | Not reported |
| Board File Number: | Not reported |
| Facility Type: | Not reported |
| Discharge Date: | Not reported |
| Incident Description: | 91732-1412 |

---

**I48**
**NE**
**1/2-1**
**0.573 mi.**
**3024 ft.**

**HEMLOCK MUTUAL WATER CO**
**11829 E HEMLOCK ST**
**EL MONTE, CA 91732**

**Site 4 of 4 in cluster I**

**Notify 65** **S100178597**
**N/A**

**Relative:**
**Higher**

**Actual:**
**336 ft.**

Notify 65:

| | |
|---|---|
| Date Reported: | Not reported |
| Staff Initials: | Not reported |
| Board File Number: | Not reported |
| Facility Type: | Not reported |
| Discharge Date: | Not reported |
| Incident Description: | 91732-1412 |

**49 NE 1/2-1 0.909 mi. 4798 ft.** | **KARDASHIAN AND MAX GOLDRING**
**INTERSECTION OF KARDASHIAN AND CLARK STS**
**ARCADIA, CA 91006** | **ENVIROSTOR** | **S100714327**
**N/A**

**Relative: Higher**

**Actual: 341 ft.**

ENVIROSTOR:

| | |
|---|---|
| Site Type: | Historical |
| Site Type Detailed: | * Historical |
| Acres: | Not reported |
| NPL: | NO |
| Regulatory Agencies: | NONE SPECIFIED |
| Lead Agency: | NONE SPECIFIED |
| Program Manager: | Not reported |
| Supervisor: | * Mmonroy |
| Division Branch: | Cleanup Chatsworth |
| Facility ID: | 19320194 |
| Site Code: | Not reported |
| Assembly: | 49 |
| Senate: | 22 |
| Special Program: | Not reported |
| Status: | Refer: Other Agency |
| Status Date: | 08/31/1995 |
| Restricted Use: | NO |
| Site Mgmt. Req.: | NONE SPECIFIED |
| Funding: | Not reported |
| Latitude: | 34.1 |
| Longitude: | -118.005 |
| APN: | NONE SPECIFIED |
| Past Use: | NONE SPECIFIED |
| Potential COC: | NONE SPECIFIED |
| Confirmed COC: | NONE SPECIFIED, NONE SPECIFIED |
| Potential Description: | NONE SPECIFIED |
| Alias Name: | CAD982505067 |
| Alias Type: | EPA Identification Number |
| Alias Name: | 19320194 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Site Screening |
| Completed Date: | 12/08/1994 |
| Comments: | CalSites Validation Program confirms NFA for DTSC. |

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Site Screening |
| Completed Date: | 07/01/1991 |
| Comments: | There was a swine farm and associated garbage pit located at the site during the 1940s to 1960's. Also Kardashians operated a refuse hauling business in California. It is suspected to be a potential waste problem at the site. No sampling was conducted at the site. Because of the above a low priority PEA is required at the site to identify any contamination at the site. |

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | * Discovery |
| Completed Date: | 08/16/1990 |

**KARDASHIAN AND MAX GOLDRING (Continued)** **S100714327**

Comments: FACILITY IDENTIFIED IDENTIFIED VIA FIT PA REPORT.

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

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**50 SSW 1/2-1 0.968 mi. 5113 ft.** | **PECK & 4TH GROVE AVE** | **Notify 65** | **S100178127**
**N/A**

**EL MONTE, CA**

**Relative: Lower**

**Actual: 300 ft.**

Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: Not reported

Count: 9 records.

ORPHAN SUMMARY

| City | EDR ID | Site Name | Site Address | Zip | Database(s) |
|---|---|---|---|---|---|
| BALDWIN PARK | 1004678355 | CALIFORNIA TRANSPORTATION | RT 605 KM POST 32.7 33.2 | 91706 | RCRA-SQG, FINDS |
| EL MONTE | S105023634 | SAN GABRIEL GROUNDWATER B | 1020 MI E. OF L.A. ON HWY | 91732 | HIST CORTESE |
| EL MONTE | S111075823 | CE ADAMS | 11127 HALWOOD DRIVE | | SWF/LF |
| EL MONTE | S106925774 | EL MONTE FIRE STATION # 02 | 11567 N PECK RD | | SWEEPS UST |
| IRWINDALE | U003057077 | HAROLD E. SIMPSON COMPANY | 200 E. LIVE OAK AVENUE | 91706 | SWF/LF, LDS |
| IRWINDALE | S110326599 | GOLDRING DUMP LANDFILL | 5500 NORTH PECK ROAD | 91706 | SWF/LF |
| IRWINDALE | 1004675494 | THE GARRETT GROUP LLC | PECK RD AND CLARKE ST | 91706 | RCRA-SQG, FINDS |
| LOS ANGELES COUNTY | M300003105 | SLS & N, INC. | PECK ROAD GRAVEL PIT | | US MINES |
| TEMPLE CITY (RUDELL) | S106764320 | VOT SYSTEMS | 9616 LOWER AZUSA RD | 91780 | WIP |

# 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: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 01/28/2014
Number of Days to Update: 78

Source: EPA
Telephone: N/A
Last EDR Contact: 01/21/2014
Next Scheduled EDR Contact: 04/21/2014
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: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 01/28/2014
Number of Days to Update: 78

Source: EPA
Telephone: N/A
Last EDR Contact: 01/09/2014
Next Scheduled EDR Contact: 04/21/2014
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: 10/25/2013 | Source: EPA |
| Date Data Arrived at EDR: 11/11/2013 | Telephone: N/A |
| Date Made Active in Reports: 01/28/2014 | Last EDR Contact: 01/09/2014 |
| Number of Days to Update: 78 | Next Scheduled EDR Contact: 04/21/2014 |
| | Data Release Frequency: Quarterly |

***Federal CERCLIS list***

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS 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). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

| | |
|---|---|
| Date of Government Version: 10/25/2013 | Source: EPA |
| Date Data Arrived at EDR: 11/11/2013 | Telephone: 703-412-9810 |
| Date Made Active in Reports: 02/13/2014 | Last EDR Contact: 02/28/2014 |
| Number of Days to Update: 94 | Next Scheduled EDR Contact: 06/09/2014 |
| | Data Release Frequency: Quarterly |

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: 05/31/2013 | Source: Environmental Protection Agency |
| Date Data Arrived at EDR: 07/08/2013 | Telephone: 703-603-8704 |
| Date Made Active in Reports: 12/06/2013 | Last EDR Contact: 01/10/2014 |
| Number of Days to Update: 151 | Next Scheduled EDR Contact: 04/21/2014 |
| | Data Release Frequency: Varies |

***Federal CERCLIS NFRAP site List***

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS 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 this 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. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

| | |
|---|---|
| Date of Government Version: 10/25/2013 | Source: EPA |
| Date Data Arrived at EDR: 11/11/2013 | Telephone: 703-412-9810 |
| Date Made Active in Reports: 02/13/2014 | Last EDR Contact: 02/28/2014 |
| Number of Days to Update: 94 | Next Scheduled EDR Contact: 06/09/2014 |
| | 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: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
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: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
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: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
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: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Varies

***Federal institutional controls / engineering controls registries***

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: 12/17/2013
Date Data Arrived at EDR: 01/14/2014
Date Made Active in Reports: 01/28/2014
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/17/2013
Date Data Arrived at EDR: 01/14/2014
Date Made Active in Reports: 01/28/2014
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Varies

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: 11/20/2013
Date Data Arrived at EDR: 11/21/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 95

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/14/2014
Next Scheduled EDR Contact: 06/02/2014
Data Release Frequency: Varies

***Federal ERNS list***

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/30/2013
Date Data Arrived at EDR: 10/01/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 66

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 02/07/2014
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Annually

***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: 11/06/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/03/2013
Number of Days to Update: 27

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/06/2014
Next Scheduled EDR Contact: 05/19/2014
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: 11/06/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/03/2013
Number of Days to Update: 27

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/06/2014
Next Scheduled EDR Contact: 05/19/2014
Data Release Frequency: Quarterly

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

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/18/2013
Date Data Arrived at EDR: 11/21/2013
Date Made Active in Reports: 01/02/2014
Number of Days to Update: 42

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/18/2014
Next Scheduled EDR Contact: 06/02/2014
Data Release Frequency: Quarterly

***State and tribal leaking storage tank lists***

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 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 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 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 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: Geotracker's Leaking Underground Fuel Tank Report
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/04/2014
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/17/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Quarterly

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 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 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 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

SLIC: Statewide SLIC Cases
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: 12/16/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/16/2014
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/17/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/06/2013
Date Data Arrived at EDR: 11/07/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 29

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Quarterly

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: 02/13/2014
Date Data Arrived at EDR: 02/14/2014
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 10

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
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: 03/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Quarterly

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: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 184

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/30/2014
Next Scheduled EDR Contact: 05/12/2014
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: 08/27/2013
Date Data Arrived at EDR: 08/27/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 66

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011
Date Data Arrived at EDR: 09/13/2011
Date Made Active in Reports: 11/11/2011
Number of Days to Update: 59

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 02/21/2014
Next Scheduled EDR Contact: 05/12/2014
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: 11/21/2013
Date Data Arrived at EDR: 11/26/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Semi-Annually

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: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Quarterly

***State and tribal registered storage tank lists***

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/07/2014
Number of Days to Update: 21

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/17/2013
Next Scheduled EDR Contact: 03/31/2014
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: 08/01/2009
Date Data Arrived at EDR: 09/10/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 21

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 01/03/2014
Next Scheduled EDR Contact: 04/21/2014
Data Release Frequency: Quarterly

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: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 01/27/2014
Number of Days to Update: 271

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/30/2014
Next Scheduled EDR Contact: 05/12/2014
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: 11/21/2013
Date Data Arrived at EDR: 11/26/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Semi-Annually

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: 02/13/2014
Date Data Arrived at EDR: 02/14/2014
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 10

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
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: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Semi-Annually

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: 12/31/2012
Date Data Arrived at EDR: 02/28/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 43

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
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: 07/29/2013
Date Data Arrived at EDR: 08/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 92

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Quarterly

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: 02/05/2013
Date Data Arrived at EDR: 02/06/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 65

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Quarterly

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: 07/29/2013
Date Data Arrived at EDR: 07/30/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 129

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/13/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Varies

***State and tribal voluntary cleanup sites***

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: 09/17/2013
Date Data Arrived at EDR: 10/01/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 66

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 01/03/2014
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

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: 11/06/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/03/2013
Number of Days to Update: 27

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/06/2014
Next Scheduled EDR Contact: 05/19/2014
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: 09/24/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 02/25/2014
Next Scheduled EDR Contact: 04/07/2014
Data Release Frequency: Semi-Annually

***Local Lists of Landfill / Solid Waste Disposal Sites***

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: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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: 02/10/2014
Next Scheduled EDR Contact: 05/26/2014
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/07/2014
Number of Days to Update: 21

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/17/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 11/20/2013
Date Data Arrived at EDR: 11/25/2013
Date Made Active in Reports: 12/31/2013
Number of Days to Update: 36

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/14/2014
Next Scheduled EDR Contact: 06/02/2014
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: 11/04/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Varies

***Local Lists of Hazardous waste / Contaminated Sites***

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: 12/04/2013
Date Data Arrived at EDR: 12/10/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 65

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 12/05/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: Quarterly

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: 11/06/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/03/2013
Number of Days to Update: 27

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/06/2014
Next Scheduled EDR Contact: 05/19/2014
Data Release Frequency: Quarterly

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

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: 06/30/2013
Date Data Arrived at EDR: 09/03/2013
Date Made Active in Reports: 10/10/2013
Number of Days to Update: 37

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

***Local Lists of Registered Storage Tanks***

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

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009
Date Data Arrived at EDR: 09/23/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 12/02/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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

***Local Land Records***

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: 02/06/2013
Date Data Arrived at EDR: 04/25/2013
Date Made Active in Reports: 05/10/2013
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 01/17/2014
Date Data Arrived at EDR: 01/21/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 21

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 12/09/2013
Date Data Arrived at EDR: 12/10/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 24

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 12/10/2013
Next Scheduled EDR Contact: 03/24/2014
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: 12/31/2013
Date Data Arrived at EDR: 01/03/2014
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 52

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 01/03/2014
Next Scheduled EDR Contact: 01/13/2014
Data Release Frequency: Annually

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: 10/14/2013
Date Data Arrived at EDR: 10/30/2013
Date Made Active in Reports: 12/03/2013
Number of Days to Update: 34

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/30/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/04/2014
Number of Days to Update: 18

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/17/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/04/2014
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/17/2013
Next Scheduled EDR Contact: 03/31/2014
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

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: 09/10/2013
Date Data Arrived at EDR: 10/02/2013
Date Made Active in Reports: 12/16/2013
Number of Days to Update: 75

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/06/2014
Next Scheduled EDR Contact: 05/19/2014
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/15/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Semi-Annually

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: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 15

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/28/2014
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 01/24/2014
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 31

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 12/26/2013
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Varies

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: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/12/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Annually

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: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/25/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 09/05/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 28

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 12/06/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: Semi-Annually

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: 12/31/2011
Date Data Arrived at EDR: 07/31/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 44

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/26/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Annually

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: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/26/2013
Next Scheduled EDR Contact: 04/07/2014
Data Release Frequency: Every 4 Years

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: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
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

SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/28/2014
Next Scheduled EDR Contact: 05/12/2014
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: 07/20/2011
Date Data Arrived at EDR: 11/10/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 10/09/2014
Next Scheduled EDR Contact: 04/28/2014
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: 06/01/2013
Date Data Arrived at EDR: 07/17/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 107

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/28/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Annually

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: 07/22/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Quarterly

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: 09/30/2013
Date Data Arrived at EDR: 10/09/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/10/2014
Next Scheduled EDR Contact: 04/21/2014
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: 03/08/2013
Date Data Arrived at EDR: 03/21/2013
Date Made Active in Reports: 07/10/2013
Number of Days to Update: 111

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 12/10/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Quarterly

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

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: 11/01/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
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: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/28/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Biennially

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

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 09/25/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/07/2014
Number of Days to Update: 21

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 12/17/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/19/2013
Date Data Arrived at EDR: 11/21/2013
Date Made Active in Reports: 01/02/2014
Number of Days to Update: 42

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/18/2014
Next Scheduled EDR Contact: 06/02/2014
Data Release Frequency: Quarterly

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: 12/30/2013
Date Data Arrived at EDR: 12/31/2013
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 42

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 12/31/2013
Next Scheduled EDR Contact: 04/14/2014
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

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: 10/21/1993
Date Data Arrived at EDR: 11/01/1993
Date Made Active in Reports: 11/19/1993
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/17/2013
Next Scheduled EDR Contact: 04/07/2014
Data Release Frequency: No Update Planned

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: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/16/2013
Number of Days to Update: 35

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Annually

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 12/26/2013
Next Scheduled EDR Contact: 04/14/2014
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: 08/09/2013
Date Data Arrived at EDR: 08/13/2013
Date Made Active in Reports: 10/08/2013
Number of Days to Update: 56

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/10/2014
Next Scheduled EDR Contact: 05/05/2014
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.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 07/16/2013
Date Made Active in Reports: 08/26/2013
Number of Days to Update: 41

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/17/2014
Next Scheduled EDR Contact: 04/28/2014
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: 12/31/2010
Date Data Arrived at EDR: 06/25/2013
Date Made Active in Reports: 08/22/2013
Number of Days to Update: 58

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 12/26/2013
Next Scheduled EDR Contact: 04/07/2014
Data Release Frequency: Varies

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: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/15/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Semi-Annually

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: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 01/20/2014
Next Scheduled EDR Contact: 05/05/2014
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

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 04/15/2013
Date Data Arrived at EDR: 07/03/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 72

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 01/02/2014
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Quarterly

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: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Quarterly

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: 11/20/2013
Date Data Arrived at EDR: 12/03/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 02/14/2014
Next Scheduled EDR Contact: 06/02/2014
Data Release Frequency: Quarterly

FEDLAND: Federal and Indian Lands
Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/15/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: N/A

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: 06/30/2013
Date Data Arrived at EDR: 08/13/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/10/2014
Next Scheduled EDR Contact: 05/26/2014
Data Release Frequency: Quarterly

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/23/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 30

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/26/2013
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Annually

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 01/29/2013
Date Data Arrived at EDR: 02/14/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 01/03/2014
Next Scheduled EDR Contact: 04/21/2014
Data Release Frequency: Varies

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: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/14/2014
Next Scheduled EDR Contact: 05/26/2014
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/18/2013
Date Data Arrived at EDR: 11/19/2013
Date Made Active in Reports: 12/31/2013
Number of Days to Update: 42

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 02/14/2014
Next Scheduled EDR Contact: 06/02/2014
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 01/28/2014
Date Data Arrived at EDR: 01/30/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 12

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/05/2014
Data Release Frequency: Varies

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: 10/23/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 30

Source: EPA
Telephone: 202-564-5962
Last EDR Contact: 12/26/2013
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Annually

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/07/2014
Number of Days to Update: 21

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/17/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Quarterly

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: 08/17/2010
Date Data Arrived at EDR: 01/03/2011
Date Made Active in Reports: 03/21/2011
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/13/2013
Next Scheduled EDR Contact: 03/24/2014
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: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 01/30/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

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: 09/20/2013
Date Data Arrived at EDR: 12/11/2013
Date Made Active in Reports: 01/04/2014
Number of Days to Update: 24

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 01/13/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Varies

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: 01/13/2014
Date Data Arrived at EDR: 01/14/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 28

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/14/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Quarterly

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 11/26/2013
Date Made Active in Reports: 12/31/2013
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/25/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Quarterly

## EDR HIGH RISK HISTORICAL RECORDS

### *EDR Exclusive Records*

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas 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 US Hist Cleaners: EDR Exclusive Historic Dry 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 US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

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: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

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: N/A
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 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

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

**COUNTY RECORDS**

ALAMEDA COUNTY:

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: 01/22/2014
Date Data Arrived at EDR: 01/23/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 19

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/30/2013
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/22/2014
Date Data Arrived at EDR: 01/23/2014
Date Made Active in Reports: 02/12/2014
Number of Days to Update: 20

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/30/2013
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List
Cupa Facility List

Date of Government Version: 12/05/2013
Date Data Arrived at EDR: 12/10/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 24

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing
Cupa facility list.

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 08/22/2013
Number of Days to Update: 20

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 01/13/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 09/30/2013
Date Data Arrived at EDR: 10/01/2013
Date Made Active in Reports: 11/26/2013
Number of Days to Update: 56

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/30/2013
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 12/05/2013
Date Data Arrived at EDR: 12/05/2013
Date Made Active in Reports: 01/27/2014
Number of Days to Update: 53

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 05/26/2014
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 11/18/2013
Date Data Arrived at EDR: 11/19/2013
Date Made Active in Reports: 12/31/2013
Number of Days to Update: 42

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 02/05/2014
Next Scheduled EDR Contact: 05/19/2014
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 01/09/2013
Date Data Arrived at EDR: 01/10/2013
Date Made Active in Reports: 02/25/2013
Number of Days to Update: 46

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 11/04/2013
Next Scheduled EDR Contact: 02/17/2014
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 11/18/2013
Date Data Arrived at EDR: 11/19/2013
Date Made Active in Reports: 01/14/2014
Number of Days to Update: 56

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 02/04/2014
Next Scheduled EDR Contact: 05/19/2014
Data Release Frequency: Varies

FRESNO COUNTY:

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: 12/31/2013
Date Data Arrived at EDR: 01/14/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 28

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 01/13/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/07/2014
Number of Days to Update: 21

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 01/27/2014
Date Data Arrived at EDR: 01/28/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 14

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/14/2013
Number of Days to Update: 33

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 08/31/2010
Date Data Arrived at EDR: 09/01/2010
Date Made Active in Reports: 09/30/2010
Number of Days to Update: 29

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 02/10/2014
Next Scheduled EDR Contact: 05/26/2014
Data Release Frequency: Quarterly

KINGS COUNTY:

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: 12/12/2013
Date Data Arrived at EDR: 12/13/2013
Date Made Active in Reports: 01/07/2014
Number of Days to Update: 25

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/23/2013
Date Data Arrived at EDR: 01/25/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 33

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/20/2014
Next Scheduled EDR Contact: 05/05/2014
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

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: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 12/17/2013
Next Scheduled EDR Contact: 04/07/2014
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 03/28/2013
Date Data Arrived at EDR: 06/17/2013
Date Made Active in Reports: 08/21/2013
Number of Days to Update: 65

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/13/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/20/2014
Date Data Arrived at EDR: 01/21/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 21

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/21/2014
Next Scheduled EDR Contact: 05/05/2014
Data Release Frequency: Varies

City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/05/2009
Date Data Arrived at EDR: 03/10/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 29

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/20/2014
Next Scheduled EDR Contact: 05/05/2014
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/30/2013
Date Data Arrived at EDR: 02/21/2013
Date Made Active in Reports: 03/25/2013
Number of Days to Update: 32

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 01/20/2014
Next Scheduled EDR Contact: 05/05/2014
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 10/21/2013
Date Data Arrived at EDR: 10/25/2013
Date Made Active in Reports: 11/27/2013
Number of Days to Update: 33

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 01/20/2014
Next Scheduled EDR Contact: 05/05/2014
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/30/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 07/15/2013
Date Data Arrived at EDR: 07/18/2013
Date Made Active in Reports: 08/20/2013
Number of Days to Update: 33

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/13/2014
Next Scheduled EDR Contact: 04/28/2014
Data Release Frequency: Semi-Annually

MADERA COUNTY:

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: 12/09/2013
Date Data Arrived at EDR: 12/10/2013
Date Made Active in Reports: 02/20/2014
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 01/03/2014
Date Data Arrived at EDR: 01/09/2014
Date Made Active in Reports: 02/12/2014
Number of Days to Update: 34

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 01/03/2014
Next Scheduled EDR Contact: 04/21/2014
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 11/21/2013
Date Data Arrived at EDR: 11/25/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 91

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List

CUPA Facility List

Date of Government Version: 12/02/2013
Date Data Arrived at EDR: 12/03/2013
Date Made Active in Reports: 01/02/2014
Number of Days to Update: 30

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 12/02/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 01/09/2014
Date Data Arrived at EDR: 01/10/2014
Date Made Active in Reports: 02/14/2014
Number of Days to Update: 35

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/06/2011
Date Made Active in Reports: 02/07/2012
Number of Days to Update: 63

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 12/02/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 12/02/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 11/06/2013
Date Data Arrived at EDR: 11/07/2013
Date Made Active in Reports: 12/04/2013
Number of Days to Update: 27

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 02/14/2014
Next Scheduled EDR Contact: 05/19/2014
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 11/04/2013
Date Data Arrived at EDR: 11/13/2013
Date Made Active in Reports: 12/04/2013
Number of Days to Update: 21

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/10/2014
Next Scheduled EDR Contact: 05/26/2014
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 11/04/2013
Date Data Arrived at EDR: 11/13/2013
Date Made Active in Reports: 12/04/2013
Number of Days to Update: 21

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/10/2014
Next Scheduled EDR Contact: 05/26/2014
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 11/04/2013
Date Data Arrived at EDR: 11/13/2013
Date Made Active in Reports: 12/04/2013
Number of Days to Update: 21

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/10/2014
Next Scheduled EDR Contact: 05/26/2014
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 12/09/2013
Date Data Arrived at EDR: 12/10/2013
Date Made Active in Reports: 01/07/2014
Number of Days to Update: 28

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 01/14/2014
Date Data Arrived at EDR: 01/15/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 27

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/19/2013
Next Scheduled EDR Contact: 04/07/2014
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/14/2014
Date Data Arrived at EDR: 01/15/2014
Date Made Active in Reports: 02/12/2014
Number of Days to Update: 28

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/19/2013
Next Scheduled EDR Contact: 04/07/2014
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/21/2013
Date Data Arrived at EDR: 01/09/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 33

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/06/2014
Next Scheduled EDR Contact: 04/21/2014
Data Release Frequency: Quarterly

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: 11/21/2013
Date Data Arrived at EDR: 01/09/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 33

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 01/06/2014
Next Scheduled EDR Contact: 04/21/2014
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 11/26/2013
Date Data Arrived at EDR: 11/27/2013
Date Made Active in Reports: 12/31/2013
Number of Days to Update: 34

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 02/10/2014
Next Scheduled EDR Contact: 05/26/2014
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

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: 09/23/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 10/17/2013
Number of Days to Update: 23

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2013
Date Data Arrived at EDR: 11/19/2013
Date Made Active in Reports: 12/31/2013
Number of Days to Update: 42

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 02/14/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

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: 12/09/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

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: 02/10/2014
Next Scheduled EDR Contact: 05/26/2014
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 02/10/2014
Next Scheduled EDR Contact: 05/26/2014
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 12/18/2013
Date Data Arrived at EDR: 12/19/2013
Date Made Active in Reports: 01/08/2014
Number of Days to Update: 20

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 12/17/2013
Next Scheduled EDR Contact: 04/07/2014
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/21/2013
Date Data Arrived at EDR: 11/25/2013
Date Made Active in Reports: 02/27/2014
Number of Days to Update: 94

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 01/13/2014
Date Data Arrived at EDR: 01/14/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 28

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/16/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 12/12/2013
Date Data Arrived at EDR: 12/17/2013
Date Made Active in Reports: 01/07/2014
Number of Days to Update: 21

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/12/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

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: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 12/03/2013
Date Data Arrived at EDR: 12/04/2013
Date Made Active in Reports: 01/27/2014
Number of Days to Update: 54

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 12/02/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: Varies

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

LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 12/02/2013
Date Data Arrived at EDR: 12/03/2013
Date Made Active in Reports: 01/02/2014
Number of Days to Update: 30

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 12/02/2013
Next Scheduled EDR Contact: 03/17/2014
Data Release Frequency: Annually

Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/12/2013
Date Data Arrived at EDR: 11/15/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 49

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 02/10/2014
Next Scheduled EDR Contact: 05/26/2014
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List

CUPA facility listing.

Date of Government Version: 12/09/2013
Date Data Arrived at EDR: 12/10/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 24

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 12/03/2013
Date Data Arrived at EDR: 12/04/2013
Date Made Active in Reports: 01/02/2014
Number of Days to Update: 29

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/18/2013
Date Made Active in Reports: 01/08/2014
Number of Days to Update: 21

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 12/12/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 12/16/2013
Date Data Arrived at EDR: 12/19/2013
Date Made Active in Reports: 01/08/2014
Number of Days to Update: 20

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 12/12/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 01/02/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 40

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 12/30/2013
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/03/2014
Date Data Arrived at EDR: 01/03/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 39

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 12/30/2013
Next Scheduled EDR Contact: 04/14/2014
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 12/10/2013
Date Data Arrived at EDR: 12/11/2013
Date Made Active in Reports: 01/04/2014
Number of Days to Update: 24

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 12/09/2013
Next Scheduled EDR Contact: 03/24/2014
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 11/04/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/04/2013
Number of Days to Update: 28

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 01/27/2014
Next Scheduled EDR Contact: 05/12/2014
Data Release Frequency: Varies

VENTURA COUNTY:

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: 10/29/2013
Date Data Arrived at EDR: 11/21/2013
Date Made Active in Reports: 01/14/2014
Number of Days to Update: 54

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/18/2014
Next Scheduled EDR Contact: 06/02/2014
Data Release Frequency: Quarterly

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: 01/03/2014
Next Scheduled EDR Contact: 04/21/2014
Data Release Frequency: Annually

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: 02/17/2014
Next Scheduled EDR Contact: 06/02/2014
Data Release Frequency: Quarterly

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: 10/02/2013
Date Data Arrived at EDR: 10/30/2013
Date Made Active in Reports: 11/27/2013
Number of Days to Update: 28

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 10/28/2013
Next Scheduled EDR Contact: 02/11/2014
Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 11/26/2013
Date Data Arrived at EDR: 12/18/2013
Date Made Active in Reports: 01/08/2014
Number of Days to Update: 21

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/16/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 12/18/2013
Date Data Arrived at EDR: 12/24/2013
Date Made Active in Reports: 01/08/2014
Number of Days to Update: 15

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 12/17/2013
Next Scheduled EDR Contact: 04/07/2014
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 12/06/2013
Date Data Arrived at EDR: 12/10/2013
Date Made Active in Reports: 01/04/2014
Number of Days to Update: 25

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 12/06/2013
Next Scheduled EDR Contact: 02/17/2014
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: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/21/2014
Next Scheduled EDR Contact: 06/02/2014
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/17/2014
Next Scheduled EDR Contact: 04/28/2014
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: 11/01/2013
Date Data Arrived at EDR: 11/07/2013
Date Made Active in Reports: 11/18/2013
Number of Days to Update: 11

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/07/2014
Next Scheduled EDR Contact: 05/19/2014
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 07/24/2013
Date Made Active in Reports: 08/19/2013
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/20/2014
Next Scheduled EDR Contact: 05/05/2014
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 06/21/2013
Date Made Active in Reports: 08/05/2013
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/24/2014
Next Scheduled EDR Contact: 06/09/2014
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 08/09/2013
Date Made Active in Reports: 09/27/2013
Number of Days to Update: 49

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/11/2013
Next Scheduled EDR Contact: 03/31/2014
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data
Source: Rextag Strategies Corp.
Telephone: (281) 769-2247
U.S. Electric Transmission and Power Plants Systems Digital GIS Data

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, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

**STREET AND ADDRESS INFORMATION**

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# GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

**TARGET PROPERTY ADDRESS**

HCHCELMONTE
4716 PECK ROAD
EL MONTE, CA 91732

**TARGET PROPERTY COORDINATES**

| | |
|---|---|
| Latitude (North): | 34.0892 - 34˚ 5' 21.12'' |
| Longitude (West): | 118.0148 - 118˚ 0' 53.28'' |
| Universal Tranverse Mercator: | Zone 11 |
| UTM X (Meters): | 406379.5 |
| UTM Y (Meters): | 3772316.2 |
| Elevation: | 322 ft. above sea level |

**USGS TOPOGRAPHIC MAP**

| | |
|---|---|
| Target Property Map: | 34118-A1 EL MONTE, CA |
| Most Recent Revision: | 1994 |
| | |
| East Map: | 34117-A8 BALDWIN PARK, CA |
| Most Recent Revision: | 1981 |

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 principal 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).

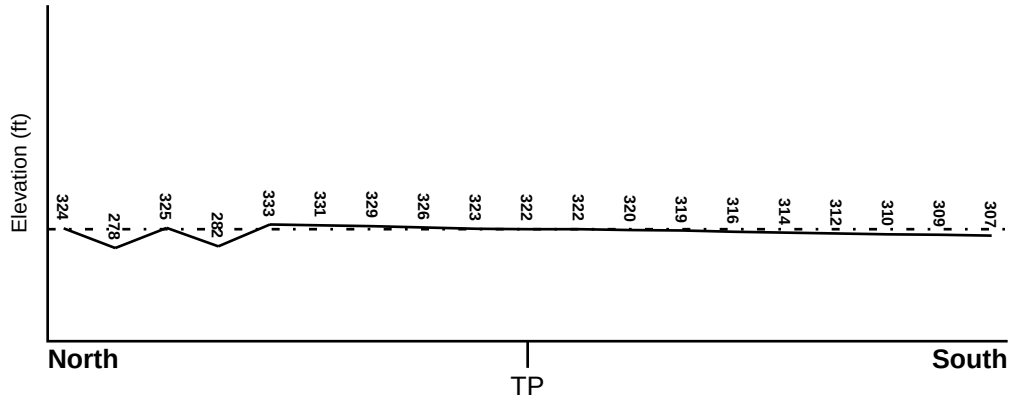
**TOPOGRAPHIC INFORMATION**

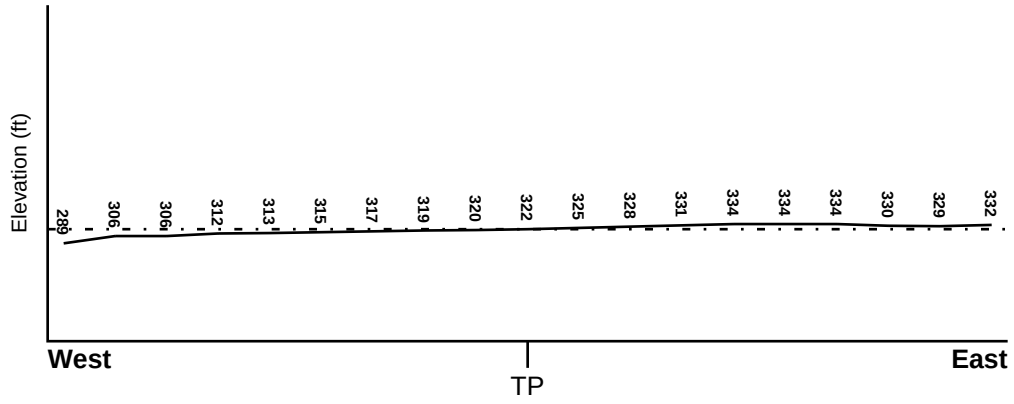
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

**TARGET PROPERTY TOPOGRAPHY**

General Topographic Gradient: General WSW

**SURROUNDING TOPOGRAPHY: ELEVATION PROFILES**




**Target Property Elevation: 322 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**

| Target Property County | FEMA Flood Electronic Data |
|---|---|
| LOS ANGELES, CA | YES - refer to the Overview Map and Detail Map |

| | |
|---|---|
| Flood Plain Panel at Target Property: | 06037C - FEMA DFIRM Flood data |
| Additional Panels in search area: | Not Reported |

**NATIONAL WETLAND INVENTORY**

| NWI Quad at Target Property | NWI Electronic Data Coverage |
|---|---|
| EL MONTE | 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 |
| Location Relative to TP: | 1/2 - 1 Mile North |
| Site Name: | San Gabriel Valley (Area 1) |
| Site EPA ID Number: | CAD980677355 |
| Groundwater Flow Direction: | CONSISTENT WITH TOPOGRAPHICAL CONDITIONS IN THE ABSENCE OF PUMPING OF WELLS. |
| Measured Depth to Water: | 230 feet in the northeast portion of the site to 300 feet in the southwest portion of the site. |
| Hydraulic Connection: | Information is not available about the hydraulic connection between aquifer(s) underlying the site. |
| Sole Source Aquifer: | No information about a sole source aquifer is available |
| Data Quality: | Information based on site-specific subsurface investigations is documented in the CERCLIS investigation report(s) |

**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: | Cenozoic |
| System: | Quaternary |
| Series: | Quaternary |
| Code: | Q *(decoded above as Era, System & Series)* |

**GEOLOGIC AGE IDENTIFICATION**

Category: Stratifed Sequence

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).

**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. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

| | |
|---|---|
| Soil Component Name: | URBAN LAND |
| Soil Surface Texture: | variable |
| Hydrologic Group: | Not reported |
| Soil Drainage Class: | Not reported |

Hydric Status: Soil does not meet the requirements for a hydric soil.

| | |
|---|---|
| Corrosion Potential - Uncoated Steel: | Not Reported |
| Depth to Bedrock Min: | > 10 inches |
| Depth to Bedrock Max: | > 10 inches |

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | | |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | Permeability Rate (in/hr) | Soil Reaction (pH) |
| 1 | 0 inches | 6 inches | variable | Not reported | Not reported | Max: 0.00<br>Min: 0.00 | Max: 0.00<br>Min: 0.00 |

**OTHER SOIL TYPES IN AREA**

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: loam
clay
silt loam
loamy sand
sandy loam
fine sand
clay loam
gravelly - sandy loam
coarse sand
gravelly - sand
sand

Surficial Soil Types: loam
clay
silt loam
loamy sand
sandy loam
fine sand
clay loam
gravelly - sandy loam
coarse sand
gravelly - sand
sand

Shallow Soil Types: fine sandy loam
gravelly - loam
sand
silty clay

Deeper Soil Types: stratified
clay loam
silty clay loam
gravelly - sandy loam
coarse sand
sand
weathered bedrock
very fine sandy loam

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

## WELL SEARCH DISTANCE INFORMATION

| DATABASE | SEARCH DISTANCE (miles) |
|---|---|
| Federal USGS | 1.000 |
| Federal FRDS PWS | Nearest PWS within 1 mile |
| State Database | 1.000 |

## FEDERAL USGS WELL INFORMATION

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| A1 | USGS40000140822 | 1/4 - 1/2 Mile ESE |
| 9 | USGS40000140912 | 1/4 - 1/2 Mile WNW |
| 10 | USGS40000140766 | 1/2 - 1 Mile SW |
| C11 | USGS40000140870 | 1/2 - 1 Mile East |
| C12 | USGS40000140864 | 1/2 - 1 Mile East |
| F19 | USGS40000140718 | 1/2 - 1 Mile SSW |
| G20 | USGS40000140929 | 1/2 - 1 Mile WNW |
| G21 | USGS40000140951 | 1/2 - 1 Mile WNW |
| G22 | USGS40000140936 | 1/2 - 1 Mile WNW |
| G23 | USGS40000140937 | 1/2 - 1 Mile WNW |
| F27 | USGS40000140705 | 1/2 - 1 Mile SSW |
| 30 | USGS40000141064 | 1/2 - 1 Mile NNW |

## 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 |
|---|---|---|
| A2 | 1370 | 1/4 - 1/2 Mile ESE |
| 3 | 1374 | 1/4 - 1/2 Mile SSW |
| B4 | 1368 | 1/4 - 1/2 Mile SSW |
| B5 | 1360 | 1/4 - 1/2 Mile SSW |
| B6 | 1369 | 1/4 - 1/2 Mile SSW |
| B7 | 22769 | 1/4 - 1/2 Mile SSW |
| B8 | 22768 | 1/4 - 1/2 Mile SSW |
| D13 | 22771 | 1/2 - 1 Mile NE |
| D14 | 22770 | 1/2 - 1 Mile ENE |

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**STATE DATABASE WELL INFORMATION**

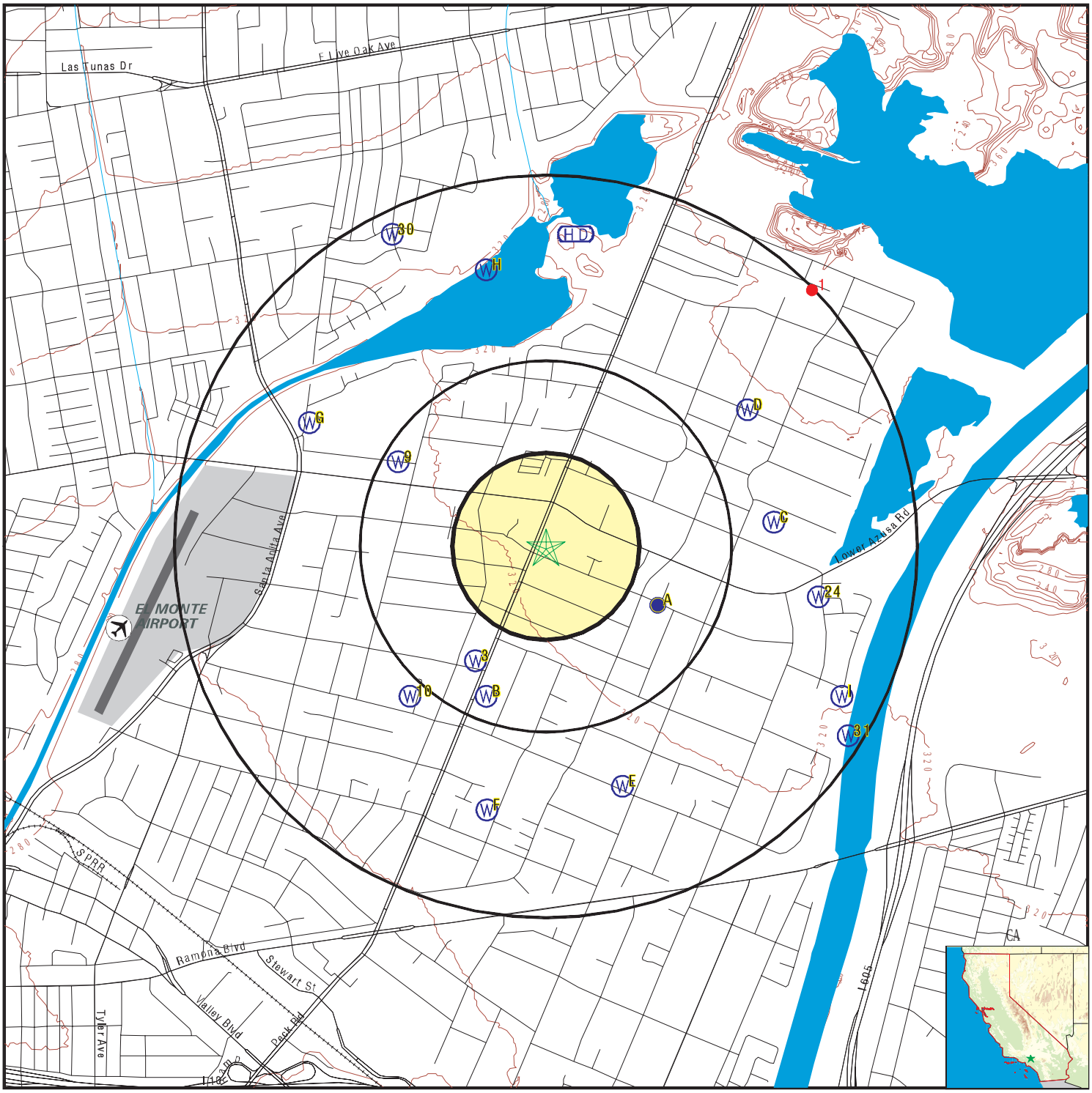
| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| D15 | 1361 | 1/2 - 1 Mile ENE |
| E16 | 1373 | 1/2 - 1 Mile SSE |
| E17 | 1372 | 1/2 - 1 Mile SSE |
| E18 | 14366 | 1/2 - 1 Mile SSE |
| 24 | 1371 | 1/2 - 1 Mile East |
| H25 | 1354 | 1/2 - 1 Mile NNW |
| H26 | 1355 | 1/2 - 1 Mile NNW |
| I28 | 1366 | 1/2 - 1 Mile ESE |
| I29 | 1367 | 1/2 - 1 Mile ESE |
| 31 | CADW50000004243 | 1/2 - 1 Mile ESE |

**OTHER STATE DATABASE INFORMATION**

**STATE OIL/GAS WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| 1 | CAOG9A000033785 | 1/2 - 1 Mile NE |

# PHYSICAL SETTING SOURCE MAP - 3868742.2s




0 1/4 1/2 1 Miles

- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

| | |
|---|---|
| SITE NAME: HCHCELMONTE<br>ADDRESS: 4716 Peck Road<br>El Monte CA 91732<br>LAT/LONG: 34.0892 / 118.0148 | CLIENT: Pacific Environmental Company<br>CONTACT: Mike Lyssy<br>INQUIRY #: 3868742.2s<br>DATE: March 03, 2014 9:41 am |

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| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **A1**<br>**ESE**<br>**1/4 - 1/2 Mile**<br>**Higher** | **FED USGS** | **USGS40000140822** |

| | | | |
|---|---|---|---|
| Org. Identifier: | USGS-CA | | |
| Formal name: | USGS California Water Science Center | | |
| Monloc Identifier: | USGS-340511118003101 | | |
| Monloc name: | 001S011W14E002S | | |
| Monloc type: | Well | | |
| Monloc desc: | GAMA ULAB FAST | | |
| Huc code: | 18070105 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 34.0865833 |
| Longitude: | -118.0098889 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | .5 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Global positioning system (GPS), uncorrected | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | 325 |
| Vert measure units: | feet | Vertacc measure val: | 5 |
| Vert accmeasure units: | feet | | |
| Vertcollection method: | Interpolated from topographic map | | |
| Vert coord refsys: | NGVD29 | Countrycode: | US |
| Aquifername: | California Coastal Basin aquifers | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | 194601 | Welldepth: | 198 |
| Welldepth units: | ft | Wellholedepth: | 198 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 0

---

| | | |
|---|---|---|
| **A2**<br>**ESE**<br>**1/4 - 1/2 Mile**<br>**Higher** | **CA WELLS** | **1370** |

**Water System Information:**

| | | | |
|---|---|---|---|
| Prime Station Code: | 01S/11W-14E04 S | User ID: | MET |
| FRDS Number: | 1910039003 | County: | Los Angeles |
| District Number: | 15 | Station Type: | WELL/AMBNT/MUN/INTAKE |
| Water Type: | Well/Groundwater | Well Status: | Active Raw |
| Source Lat/Long: | 340514.0 1180030.0 | Precision: | 1,000 Feet (10 Seconds) |
| Source Name: | WELL 01D | | |
| System Number: | 1910039 | | |
| System Name: | SAN GABRIEL VALLEY WATER CO.-EL MONTE | | |
| Organization That Operates System: | | | |
| | P O BOX 6010 | | |
| | EL MONTE, CA 91734 | | |
| Pop Served: | 151064 | Connections: | 43161 |
| Area Served: | EL MONTE/SAN GABRIEL BASIN | | |
| Sample Collected: | 07-NOV-11 | Findings: | 3.6 MG/L |
| Chemical: | NITRATE (AS NO3) | | |

| | | | |
|---|---|---|---|
| Sample Collected: | 08-NOV-11 | Findings: | 14.4 C |
| Chemical: | SOURCE TEMPERATURE C | | |
| Sample Collected: | 08-NOV-11 | Findings: | 360. US |
| Chemical: | SPECIFIC CONDUCTANCE | | |
| Sample Collected: | 08-NOV-11 | Findings: | 7.57 |
| Chemical: | PH, LABORATORY | | |
| Sample Collected: | 08-NOV-11 | Findings: | 170. MG/L |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | | |
| Sample Collected: | 08-NOV-11 | Findings: | 200. MG/L |
| Chemical: | BICARBONATE ALKALINITY | | |
| Sample Collected: | 08-NOV-11 | Findings: | 200. MG/L |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | | |
| Sample Collected: | 08-NOV-11 | Findings: | 61. MG/L |
| Chemical: | CALCIUM | | |
| Sample Collected: | 08-NOV-11 | Findings: | 12. MG/L |
| Chemical: | MAGNESIUM | | |
| Sample Collected: | 08-NOV-11 | Findings: | 11. MG/L |
| Chemical: | SODIUM | | |
| Sample Collected: | 08-NOV-11 | Findings: | 3.3 MG/L |
| Chemical: | POTASSIUM | | |
| Sample Collected: | 08-NOV-11 | Findings: | 18. MG/L |
| Chemical: | CHLORIDE | | |
| Sample Collected: | 08-NOV-11 | Findings: | 0.33 MG/L |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | | |
| Sample Collected: | 08-NOV-11 | Findings: | 110. UG/L |
| Chemical: | COPPER | | |
| Sample Collected: | 08-NOV-11 | Findings: | 130. UG/L |
| Chemical: | ZINC | | |
| Sample Collected: | 08-NOV-11 | Findings: | 250. MG/L |
| Chemical: | TOTAL DISSOLVED SOLIDS | | |
| Sample Collected: | 08-NOV-11 | Findings: | 0.693 |
| Chemical: | LANGELIER INDEX @ 60 C | | |
| Sample Collected: | 08-NOV-11 | Findings: | 8.9e-002 |
| Chemical: | LANGELIER INDEX AT SOURCE TEMP. | | |
| Sample Collected: | 08-NOV-11 | Findings: | 3.8 MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 08-NOV-11 | Findings: | 12. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | | |
| Sample Collected: | 08-AUG-12 | Findings: | 330. MG/L |
| Chemical: | TOTAL DISSOLVED SOLIDS | | |
| Sample Collected: | 15-NOV-12 | Findings: | 0.26 MG/L |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | | |
| Sample Collected: | 15-NOV-12 | Findings: | 120. UG/L |
| Chemical: | BARIUM | | |

| | | | |
|---|---|---|---|
| Sample Collected: | 15-NOV-12 | Findings: | 2.2 PCI/L |
| Chemical: | URANIUM (PCI/L) | | |
| Sample Collected: | 15-NOV-12 | Findings: | 3.8 MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 21-AUG-13 | Findings: | 280. MG/L |
| Chemical: | TOTAL DISSOLVED SOLIDS | | |
| Sample Collected: | 06-NOV-13 | Findings: | 4.2 MG/L |
| Chemical: | NITRATE (AS NO3) | | |

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**3**
**SSW** **CA WELLS** **1374**
**1/4 - 1/2 Mile**
**Lower**

**Water System Information:**

| | | | |
|---|---|---|---|
| Prime Station Code: | 01S/11W-15L02 S | User ID: | 19C |
| FRDS Number: | 1900704001 | County: | Los Angeles |
| District Number: | 49 | Station Type: | WELL/AMBNT/MUN/INTAKE |
| Water Type: | Well/Groundwater | Well Status: | Active Raw |
| Source Lat/Long: | 340505.0 1180102.0 | Precision: | 1,000 Feet (10 Seconds) |
| Source Name: | WELL 01 | | |
| System Number: | 1900704 | | |
| System Name: | CEDAR AVENUE MUTUAL | | |
| Organization That Operates System: | | | |
| | 11430 MC GIRK | | |
| | EL MONTE, CA 91732 | | |
| Pop Served: | 400 | Connections: | 125 |
| Area Served: | Not Reported | | |

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**B4**
**SSW** **CA WELLS** **1368**
**1/4 - 1/2 Mile**
**Lower**

**Water System Information:**

| | | | |
|---|---|---|---|
| Prime Station Code: | 01S/11W-14E02 S | User ID: | MET |
| FRDS Number: | 1910039001 | County: | Los Angeles |
| District Number: | 15 | Station Type: | WELL/AMBNT/MUN/INTAKE/SUPPLY |
| Water Type: | Well/Groundwater | Well Status: | Active Raw |
| Source Lat/Long: | 340500.0 1180100.0 | Precision: | Undefined |
| Source Name: | WELL 01B LACFCD 2991R | | |
| System Number: | 1910039 | | |
| System Name: | SAN GABRIEL VALLEY WATER CO.-EL MONTE | | |
| Organization That Operates System: | | | |
| | P O BOX 6010 | | |
| | EL MONTE, CA 91734 | | |
| Pop Served: | 151064 | Connections: | 43161 |
| Area Served: | EL MONTE/SAN GABRIEL BASIN | | |
| Sample Collected: | 09-FEB-11 | Findings: | 15. MG/L |
| Chemical: | NITRATE (AS NO3) | | |

| | | | |
|---|---|---|---|
| Sample Collected: | 03-MAY-11 | Findings: | 19. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 08-AUG-11 | Findings: | 0.2 MG/L |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | | |
| Sample Collected: | 08-AUG-11 | Findings: | 2.1 UG/L |
| Chemical: | ARSENIC | | |
| Sample Collected: | 08-AUG-11 | Findings: | 170. UG/L |
| Chemical: | BARIUM | | |
| Sample Collected: | 08-AUG-11 | Findings: | 18. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 27-SEP-11 | Findings: | 15.6 C |
| Chemical: | SOURCE TEMPERATURE C | | |
| Sample Collected: | 27-SEP-11 | Findings: | 510. US |
| Chemical: | SPECIFIC CONDUCTANCE | | |
| Sample Collected: | 27-SEP-11 | Findings: | 7.25 |
| Chemical: | PH, LABORATORY | | |
| Sample Collected: | 27-SEP-11 | Findings: | 190. MG/L |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | | |
| Sample Collected: | 27-SEP-11 | Findings: | 230. MG/L |
| Chemical: | BICARBONATE ALKALINITY | | |
| Sample Collected: | 27-SEP-11 | Findings: | 260. MG/L |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | | |
| Sample Collected: | 27-SEP-11 | Findings: | 78. MG/L |
| Chemical: | CALCIUM | | |
| Sample Collected: | 27-SEP-11 | Findings: | 17. MG/L |
| Chemical: | MAGNESIUM | | |
| Sample Collected: | 27-SEP-11 | Findings: | 19. MG/L |
| Chemical: | SODIUM | | |
| Sample Collected: | 27-SEP-11 | Findings: | 4.5 MG/L |
| Chemical: | POTASSIUM | | |
| Sample Collected: | 27-SEP-11 | Findings: | 37. MG/L |
| Chemical: | CHLORIDE | | |
| Sample Collected: | 27-SEP-11 | Findings: | 0.32 MG/L |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | | |
| Sample Collected: | 27-SEP-11 | Findings: | 360. MG/L |
| Chemical: | TOTAL DISSOLVED SOLIDS | | |
| Sample Collected: | 27-SEP-11 | Findings: | 0.494 |
| Chemical: | LANGELIER INDEX @ 60 C | | |
| Sample Collected: | 27-SEP-11 | Findings: | 17. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 27-SEP-11 | Findings: | 11.8 |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | | |
| Sample Collected: | 07-NOV-11 | Findings: | 16. MG/L |
| Chemical: | NITRATE (AS NO3) | | |

| | | | |
|---|---|---|---|
| Sample Collected: | 03-FEB-12 | Findings: | 14. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 10-MAY-12 | Findings: | 14. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 08-AUG-12 | Findings: | 0.458 PCI/L |
| Chemical: | RADIUM 228 COUNTING ERROR | | |
| Sample Collected: | 08-AUG-12 | Findings: | 0.2 PCI/L |
| Chemical: | RADIUM 228 MDA95 | | |
| Sample Collected: | 08-AUG-12 | Findings: | 0.466 PCI/L |
| Chemical: | RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0 | | |
| Sample Collected: | 08-AUG-12 | Findings: | 0.362 PCI/L |
| Chemical: | RA-226 OR TOTAL RA BY 903.0 C.E. | | |
| Sample Collected: | 08-AUG-12 | Findings: | 0.354 PCI/L |
| Chemical: | RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0 | | |
| Sample Collected: | 08-AUG-12 | Findings: | 390. MG/L |
| Chemical: | TOTAL DISSOLVED SOLIDS | | |
| Sample Collected: | 08-AUG-12 | Findings: | 16. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 15-NOV-12 | Findings: | 17. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 26-FEB-13 | Findings: | 13. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 17-MAY-13 | Findings: | 16. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 21-AUG-13 | Findings: | 320. MG/L |
| Chemical: | TOTAL DISSOLVED SOLIDS | | |
| Sample Collected: | 21-AUG-13 | Findings: | 16. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 06-NOV-13 | Findings: | 16. MG/L |
| Chemical: | NITRATE (AS NO3) | | |

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**B5**
**SSW** **CA WELLS** **1360**
**1/4 - 1/2 Mile**
**Lower**

**Water System Information:**

| | | | |
|---|---|---|---|
| Prime Station Code: | 01S/11W-11N01 S | User ID: | 4TH |
| FRDS Number: | 1910053001 | County: | Los Angeles |
| District Number: | 07 | Station Type: | WELL/AMBNT/MUN/INTAKE |
| Water Type: | Well/Groundwater | Well Status: | Active Raw |
| Source Lat/Long: | 340500.0 1180100.0 | Precision: | 0.5 Mile (30 Seconds) |
| Source Name: | NORTH WELL | | |
| System Number: | 1910053 | | |
| System Name: | HEMLOCK MUTUAL WATER CO. | | |
| Organization That Operates System: | | | |
| | P.O. BOX 6280 | | |
| | EL MONTE, CA 91734 | | |
| Pop Served: | 1051 | Connections: | 245 |
| Area Served: | NORTHEAST EL MONTE | | |

| | | | |
|---|---|---|---|
| Sample Collected: | 05-APR-11 | Findings: | 0.5 NTU |
| Chemical: | TURBIDITY, LABORATORY | | |
| Sample Collected: | 03-MAY-11 | Findings: | 0.1 NTU |
| Chemical: | TURBIDITY, LABORATORY | | |
| Sample Collected: | 13-DEC-11 | Findings: | 0.17 MG/L |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | | |
| Sample Collected: | 13-DEC-11 | Findings: | 3.9 MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 19-SEP-12 | Findings: | 200. MG/L |
| Chemical: | TOTAL DISSOLVED SOLIDS | | |
| Sample Collected: | 05-DEC-12 | Findings: | 5.9 MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 02-JUL-13 | Findings: | 0.2 NTU |
| Chemical: | TURBIDITY, LABORATORY | | |
| Sample Collected: | 01-OCT-13 | Findings: | 0.2 NTU |
| Chemical: | TURBIDITY, LABORATORY | | |
| Sample Collected: | 06-NOV-13 | Findings: | 0.2 NTU |
| Chemical: | TURBIDITY, LABORATORY | | |

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**B6**
**SSW** **CA WELLS** **1369**
**1/4 - 1/2 Mile**
**Lower**

**Water System Information:**

| | | | |
|---|---|---|---|
| Prime Station Code: | 01S/11W-14E03 S | User ID: | MET |
| FRDS Number: | 1910039002 | County: | Los Angeles |
| District Number: | 15 | Station Type: | WELL/AMBNT/MUN/INTAKE/SUPPLY |
| Water Type: | Well/Groundwater | Well Status: | Active Raw |
| Source Lat/Long: | 340500.0 1180100.0 | Precision: | Undefined |
| Source Name: | WELL 01C LACFCD 2991Q | | |
| System Number: | 1910039 | | |
| System Name: | SAN GABRIEL VALLEY WATER CO.-EL MONTE | | |
| Organization That Operates System: | | | |
| | P O BOX 6010 | | |
| | EL MONTE, CA 91734 | | |
| Pop Served: | 151064 | Connections: | 43161 |
| Area Served: | EL MONTE/SAN GABRIEL BASIN | | |
| Sample Collected: | 08-AUG-11 | Findings: | 8.3 MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 08-AUG-12 | Findings: | 0.34 MG/L |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | | |
| Sample Collected: | 08-AUG-12 | Findings: | 110. UG/L |
| Chemical: | BARIUM | | |
| Sample Collected: | 08-AUG-12 | Findings: | 320. MG/L |
| Chemical: | TOTAL DISSOLVED SOLIDS | | |
| Sample Collected: | 08-AUG-12 | Findings: | 4.4 MG/L |
| Chemical: | NITRATE (AS NO3) | | |

| | | | |
|---|---|---|---|
| Sample Collected: | 17-MAY-13 | Findings: | 1.9 PCI/L |
| Chemical: | URANIUM (PCI/L) | | |
| Sample Collected: | 14-AUG-13 | Findings: | 18.9 C |
| Chemical: | SOURCE TEMPERATURE C | | |
| Sample Collected: | 14-AUG-13 | Findings: | 430. US |
| Chemical: | SPECIFIC CONDUCTANCE | | |
| Sample Collected: | 14-AUG-13 | Findings: | 7.9 |
| Chemical: | PH, LABORATORY | | |
| Sample Collected: | 14-AUG-13 | Findings: | 170. MG/L |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | | |
| Sample Collected: | 14-AUG-13 | Findings: | 210. MG/L |
| Chemical: | BICARBONATE ALKALINITY | | |
| Sample Collected: | 14-AUG-13 | Findings: | 200. MG/L |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | | |
| Sample Collected: | 14-AUG-13 | Findings: | 61. MG/L |
| Chemical: | CALCIUM | | |
| Sample Collected: | 14-AUG-13 | Findings: | 11. MG/L |
| Chemical: | MAGNESIUM | | |
| Sample Collected: | 14-AUG-13 | Findings: | 12. MG/L |
| Chemical: | SODIUM | | |
| Sample Collected: | 14-AUG-13 | Findings: | 3.4 MG/L |
| Chemical: | POTASSIUM | | |
| Sample Collected: | 14-AUG-13 | Findings: | 17. MG/L |
| Chemical: | CHLORIDE | | |
| Sample Collected: | 14-AUG-13 | Findings: | 0.3 MG/L |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | | |
| Sample Collected: | 14-AUG-13 | Findings: | 260. MG/L |
| Chemical: | TOTAL DISSOLVED SOLIDS | | |
| Sample Collected: | 14-AUG-13 | Findings: | 1.03 |
| Chemical: | LANGELIER INDEX @ 60 C | | |
| Sample Collected: | 14-AUG-13 | Findings: | 0.492 |
| Chemical: | LANGELIER INDEX AT SOURCE TEMP. | | |
| Sample Collected: | 14-AUG-13 | Findings: | 4.8 MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 14-AUG-13 | Findings: | 12.3 |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | | |
| Sample Collected: | 21-AUG-13 | Findings: | 4.5 MG/L |
| Chemical: | NITRATE (AS NO3) | | |

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**B7**
**SSW** **CA WELLS** **22769**
**1/4 - 1/2 Mile**
**Lower**

**Water System Information:**

| | | | |
|---|---|---|---|
| Prime Station Code: | G19/053-FILTER2 | User ID: | 4TH |
| FRDS Number: | 1910053004 | County: | Los Angeles |
| District Number: | 07 | Station Type: | WELL/AMBNT |
| Water Type: | Well/Groundwater | Well Status: | Active Treated |
| Source Lat/Long: | 340500.0 1180100.0 | Precision: | 1 Mile (One Minute) |
| Source Name: | FILTER #2 | | |

System Number: 1910053
System Name: HEMLOCK MUTUAL WATER CO.
Organization That Operates System:
P.O. BOX 6280
EL MONTE, CA 91734
Pop Served: 1051 Connections: 245
Area Served: NORTHEAST EL MONTE

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**B8**
**SSW** **CA WELLS** **22768**
**1/4 - 1/2 Mile**
**Lower**

**Water System Information:**

| | | | |
|---|---|---|---|
| Prime Station Code: | G19/053-FILTER1 | User ID: | 4TH |
| FRDS Number: | 1910053003 | County: | Los Angeles |
| District Number: | 07 | Station Type: | WELL/AMBNT |
| Water Type: | Well/Groundwater | Well Status: | Active Treated |
| Source Lat/Long: | 340500.0 1180100.0 | Precision: | 1 Mile (One Minute) |
| Source Name: | FILTER #1 | | |
| System Number: | 1910053 | | |
| System Name: | HEMLOCK MUTUAL WATER CO. | | |
| Organization That Operates System: | | | |
| | P.O. BOX 6280 | | |
| | EL MONTE, CA 91734 | | |
| Pop Served: | 1051 | Connections: | 245 |
| Area Served: | NORTHEAST EL MONTE | | |

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**9**
**WNW** **FED USGS** **USGS40000140912**
**1/4 - 1/2 Mile**
**Lower**

| | | | |
|---|---|---|---|
| Org. Identifier: | USGS-CA | | |
| Formal name: | USGS California Water Science Center | | |
| Monloc Identifier: | USGS-340533118011501 | | |
| Monloc name: | 001S011W15L002S | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 18070105 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 34.0925087 |
| Longitude: | -118.0217332 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | Not Reported |
| Vert measure units: | Not Reported | Vertacc measure val: | Not Reported |
| Vert accmeasure units: | Not Reported | | |
| Vertcollection method: | Not Reported | | |
| Vert coord refsys: | Not Reported | Countrycode: | US |
| Aquifername: | California Coastal Basin aquifers | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | Not Reported | Welldepth: | Not Reported |
| Welldepth units: | Not Reported | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **10**<br>**SW**<br>**1/2 - 1 Mile**<br>**Lower** | **FED USGS** | **USGS40000140766** |

| | | | |
|---|---|---|---|
| Org. Identifier: | USGS-CA | | |
| Formal name: | USGS California Water Science Center | | |
| Monloc Identifier: | USGS-340500118011301 | | |
| Monloc name: | 001S011W15L001S | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 18070105 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 34.0833424 |
| Longitude: | -118.0211776 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | Not Reported |
| Vert measure units: | Not Reported | Vertacc measure val: | Not Reported |
| Vert accmeasure units: | Not Reported | | |
| Vertcollection method: | Not Reported | | |
| Vert coord refsys: | Not Reported | Countrycode: | US |
| Aquifername: | California Coastal Basin aquifers | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | Not Reported | Welldepth: | Not Reported |
| Welldepth units: | Not Reported | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

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| | | |
|---|---|---|
| **C11**<br>**East**<br>**1/2 - 1 Mile**<br>**Higher** | **FED USGS** | **USGS40000140870** |

| | | | |
|---|---|---|---|
| Org. Identifier: | USGS-CA | | |
| Formal name: | USGS California Water Science Center | | |
| Monloc Identifier: | USGS-340525118001301 | | |
| Monloc name: | 001S011W14C001S | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 18070105 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 34.0902864 |
| Longitude: | -118.0045104 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | Not Reported |
| Vert measure units: | Not Reported | Vertacc measure val: | Not Reported |
| Vert accmeasure units: | Not Reported | | |
| Vertcollection method: | Not Reported | | |
| Vert coord refsys: | Not Reported | Countrycode: | US |
| Aquifername: | California Coastal Basin aquifers | | |
| Formation type: | Not Reported | | |

| | | | |
|---|---|---|---|
| Aquifer type: | Not Reported | | |
| Construction date: | Not Reported | Welldepth: | Not Reported |
| Welldepth units: | Not Reported | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

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**C12**
**East**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS40000140864**

| | | | |
|---|---|---|---|
| Org. Identifier: | USGS-CA | | |
| Formal name: | USGS California Water Science Center | | |
| Monloc Identifier: | USGS-340524118001001 | | |
| Monloc name: | 001S011W14C002S | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 18070105 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 34.0900087 |
| Longitude: | -118.003677 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | Not Reported |
| Vert measure units: | Not Reported | Vertacc measure val: | Not Reported |
| Vert accmeasure units: | Not Reported | | |
| Vertcollection method: | Not Reported | | |
| Vert coord refsys: | Not Reported | Countrycode: | US |
| Aquifername: | California Coastal Basin aquifers | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | Not Reported | Welldepth: | Not Reported |
| Welldepth units: | Not Reported | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

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**D13**
**NE**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **22771**

**Water System Information:**

| | | | |
|---|---|---|---|
| Prime Station Code: | G19/053-VOCACES | User ID: | 4TH |
| FRDS Number: | 1910053005 | County: | Los Angeles |
| District Number: | 07 | Station Type: | WELL/AMBNT/MUN/INTAKE |
| Water Type: | Well/Groundwater | Well Status: | Active Treated |
| Source Lat/Long: | 340541.5 1180017.0 | Precision: | 1 Mile (One Minute) |
| Source Name: | TREATMENT PLANT - SOUTH FILTER | | |
| System Number: | 1910053 | | |
| System Name: | HEMLOCK MUTUAL WATER CO. | | |
| Organization That Operates System: | | | |
| | P.O. BOX 6280 | | |
| | EL MONTE, CA 91734 | | |
| Pop Served: | 1051 | Connections: | 245 |
| Area Served: | NORTHEAST EL MONTE | | |

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **D14**<br>**ENE**<br>**1/2 - 1 Mile**<br>**Higher** | **CA WELLS** | **22770** |

**Water System Information:**

| | | | |
|---|---|---|---|
| Prime Station Code: | G19/053-VOCACEN | User ID: | 4TH |
| FRDS Number: | 1910053006 | County: | Los Angeles |
| District Number: | 07 | Station Type: | WELL/AMBNT/MUN/INTAKE |
| Water Type: | Well/Groundwater | Well Status: | Active Treated |
| Source Lat/Long: | 340540.5 1180016.0 | Precision: | 1 Mile (One Minute) |
| Source Name: | TREATMENT PLANT - NORTH FILTER | | |
| System Number: | 1910053 | | |
| System Name: | HEMLOCK MUTUAL WATER CO. | | |
| Organization That Operates System: | | | |
| | P.O. BOX 6280 | | |
| | EL MONTE, CA 91734 | | |
| Pop Served: | 1051 | Connections: | 245 |
| Area Served: | NORTHEAST EL MONTE | | |

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| | | |
|---|---|---|
| **D15**<br>**ENE**<br>**1/2 - 1 Mile**<br>**Higher** | **CA WELLS** | **1361** |

**Water System Information:**

| | | | |
|---|---|---|---|
| Prime Station Code: | 01S/11W-11N02 S | User ID: | 4TH |
| FRDS Number: | 1910053002 | County: | Los Angeles |
| District Number: | 07 | Station Type: | WELL/AMBNT/MUN/INTAKE |
| Water Type: | Well/Groundwater | Well Status: | Active Raw |
| Source Lat/Long: | 340540.0 1180015.0 | Precision: | 0.5 Mile (30 Seconds) |
| Source Name: | SOUTH WELL | | |
| System Number: | 1910053 | | |
| System Name: | HEMLOCK MUTUAL WATER CO. | | |
| Organization That Operates System: | | | |
| | P.O. BOX 6280 | | |
| | EL MONTE, CA 91734 | | |
| Pop Served: | 1051 | Connections: | 245 |
| Area Served: | NORTHEAST EL MONTE | | |
| Sample Collected: | 09-MAR-11 | Findings: | 7.2 MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 05-APR-11 | Findings: | 0.3 NTU |
| Chemical: | TURBIDITY, LABORATORY | | |
| Sample Collected: | 03-MAY-11 | Findings: | 0.3 NTU |
| Chemical: | TURBIDITY, LABORATORY | | |
| Sample Collected: | 06-JUN-11 | Findings: | 6.8 MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 06-SEP-11 | Findings: | 9.2 MG/L |
| Chemical: | NITRATE (AS NO3) | | |

| | | | |
|---|---|---|---|
| Sample Collected: | 12-DEC-11 | Findings: | 0.23 MG/L |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | | |
| Sample Collected: | 12-DEC-11 | Findings: | 7.8 MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 07-MAR-12 | Findings: | 9.7 MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 13-JUN-12 | Findings: | 9.6 MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 19-SEP-12 | Findings: | 220. MG/L |
| Chemical: | TOTAL DISSOLVED SOLIDS | | |
| Sample Collected: | 19-SEP-12 | Findings: | 7.8 MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 05-DEC-12 | Findings: | 6.7 MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 07-MAR-13 | Findings: | 5.3 MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 12-JUN-13 | Findings: | 4.5 MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 02-JUL-13 | Findings: | 0.1 NTU |
| Chemical: | TURBIDITY, LABORATORY | | |
| Sample Collected: | 12-SEP-13 | Findings: | 4.2 MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 01-OCT-13 | Findings: | 0.6 NTU |
| Chemical: | TURBIDITY, LABORATORY | | |

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**E16**
**SSE** **CA WELLS** **1373**
**1/2 - 1 Mile**
**Lower**

**Water System Information:**

| | | | |
|---|---|---|---|
| Prime Station Code: | 01S/11W-14N02 S | User ID: | MET |
| FRDS Number: | 1910158001 | County: | Los Angeles |
| District Number: | 15 | Station Type: | WELL/AMBNT/MUN/INTAKE |
| Water Type: | Well/Groundwater | Well Status: | Active Untreated |
| Source Lat/Long: | 340448.5 1180037.5 | Precision: | 0.5 Mile (30 Seconds) |
| Source Name: | NORTH WELL | | |
| System Number: | 1910158 | | |
| System Name: | STERLING MWC | | |
| Organization That Operates System: | | | |
| | 11922 LAMBERT AVE | | |
| | EL MONTE, CA 91732-2032 | | |
| Pop Served: | 600 | Connections: | 200 |
| Area Served: | Not Reported | | |
| Sample Collected: | 16-FEB-11 | Findings: | 24. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 17-MAY-11 | Findings: | 23. MG/L |
| Chemical: | NITRATE (AS NO3) | | |

| | | | |
|---|---|---|---|
| Sample Collected: | 25-AUG-11 | Findings: | 21. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 09-NOV-11 | Findings: | 22. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 10-FEB-12 | Findings: | 30. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 03-MAY-12 | Findings: | 1.6 PCI/L |
| Chemical: | URANIUM (PCI/L) | | |
| Sample Collected: | 03-MAY-12 | Findings: | 26. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 20-AUG-12 | Findings: | 340. MG/L |
| Chemical: | TOTAL DISSOLVED SOLIDS | | |
| Sample Collected: | 20-AUG-12 | Findings: | 29. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 27-NOV-12 | Findings: | 25. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 05-FEB-13 | Findings: | 24. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 09-MAY-13 | Findings: | 28. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 08-AUG-13 | Findings: | 0.28 MG/L |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | | |
| Sample Collected: | 08-AUG-13 | Findings: | 2.8 UG/L |
| Chemical: | ARSENIC | | |
| Sample Collected: | 08-AUG-13 | Findings: | 150. UG/L |
| Chemical: | BARIUM | | |
| Sample Collected: | 08-AUG-13 | Findings: | 25. MG/L |
| Chemical: | NITRATE (AS NO3) | | |

---

**E17**
**SSE** **CA WELLS** **1372**
**1/2 - 1 Mile**
**Lower**

**Water System Information:**

| | | | |
|---|---|---|---|
| Prime Station Code: | 01S/11W-14N01 S | User ID: | MET |
| FRDS Number: | 1910158002 | County: | Los Angeles |
| District Number: | 15 | Station Type: | WELL/AMBNT/MUN/INTAKE |
| Water Type: | Well/Groundwater | Well Status: | Destroyed |
| Source Lat/Long: | 340447.5 1180037.5 | Precision: | 0.5 Mile (30 Seconds) |
| Source Name: | OLD SOUTH WELL - DESTROYED | | |
| System Number: | 1910158 | | |
| System Name: | STERLING MWC | | |
| Organization That Operates System: | | | |
| | 11922 LAMBERT AVE | | |
| | EL MONTE, CA 91732-2032 | | |
| Pop Served: | 600 | Connections: | 200 |
| Area Served: | Not Reported | | |

| | | | |
|---|---|---|---|
| Sample Collected: | 16-FEB-11 | Findings: | 15. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 17-MAY-11 | Findings: | 18. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 25-AUG-11 | Findings: | 0.31 MG/L |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | | |
| Sample Collected: | 25-AUG-11 | Findings: | 2.6 UG/L |
| Chemical: | ARSENIC | | |
| Sample Collected: | 25-AUG-11 | Findings: | 120. UG/L |
| Chemical: | BARIUM | | |
| Sample Collected: | 25-AUG-11 | Findings: | 13. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 09-NOV-11 | Findings: | 13. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 10-FEB-12 | Findings: | 12. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 03-MAY-12 | Findings: | 14. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 20-AUG-12 | Findings: | 290. MG/L |
| Chemical: | TOTAL DISSOLVED SOLIDS | | |
| Sample Collected: | 20-AUG-12 | Findings: | 16. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 27-NOV-12 | Findings: | 18. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 05-FEB-13 | Findings: | 18. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 09-MAY-13 | Findings: | 18. MG/L |
| Chemical: | NITRATE (AS NO3) | | |

---

**E18**
**SSE** **CA WELLS** **14366**
**1/2 - 1 Mile**
**Lower**

**Water System Information:**

| | | | |
|---|---|---|---|
| Prime Station Code: | 1910158-003 | User ID: | MET |
| FRDS Number: | 1910158003 | County: | Los Angeles |
| District Number: | 15 | Station Type: | WELL/AMBNT |
| Water Type: | Well/Groundwater | Well Status: | Active Untreated |
| Source Lat/Long: | 340447.0 1180037.0 | Precision: | 1,000 Feet (10 Seconds) |
| Source Name: | NEW SOUTH WELL | | |
| System Number: | 1910158 | | |
| System Name: | STERLING MWC | | |
| Organization That Operates System: | | | |
| | 11922 LAMBERT AVE | | |
| | EL MONTE, CA 91732-2032 | | |
| Pop Served: | 600 | Connections: | 200 |
| Area Served: | Not Reported | | |

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **F19**<br>**SSW**<br>**1/2 - 1 Mile**<br>**Lower** | **FED USGS** | **USGS40000140718** |

| | | | |
|---|---|---|---|
| Org. Identifier: | USGS-CA | | |
| Formal name: | USGS California Water Science Center | | |
| Monloc Identifier: | USGS-340446118010001 | | |
| Monloc name: | 001S011W15Q001S | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 18070105 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 34.0794536 |
| Longitude: | -118.0175664 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | Not Reported |
| Vert measure units: | Not Reported | Vertacc measure val: | Not Reported |
| Vert accmeasure units: | Not Reported | | |
| Vertcollection method: | Not Reported | | |
| Vert coord refsys: | Not Reported | Countrycode: | US |
| Aquifername: | California Coastal Basin aquifers | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | Not Reported | Welldepth: | Not Reported |
| Welldepth units: | Not Reported | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

---

| | | |
|---|---|---|
| **G20**<br>**WNW**<br>**1/2 - 1 Mile**<br>**Lower** | **FED USGS** | **USGS40000140929** |

| | | | |
|---|---|---|---|
| Org. Identifier: | USGS-CA | | |
| Formal name: | USGS California Water Science Center | | |
| Monloc Identifier: | USGS-340537118012901 | | |
| Monloc name: | 001S011W10N010S | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 18070106 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 34.0936198 |
| Longitude: | -118.0256222 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | Not Reported |
| Vert measure units: | Not Reported | Vertacc measure val: | Not Reported |
| Vert accmeasure units: | Not Reported | | |
| Vertcollection method: | Not Reported | | |
| Vert coord refsys: | Not Reported | Countrycode: | US |
| Aquifername: | California Coastal Basin aquifers | | |
| Formation type: | Not Reported | | |

| | | | |
|---|---|---|---|
| Aquifer type: | Not Reported | | |
| Construction date: | Not Reported | Welldepth: | 620 |
| Welldepth units: | ft | Wellholedepth: | 620 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 0

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**G21**
**WNW**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS40000140951**

| | | | |
|---|---|---|---|
| Org. Identifier: | USGS-CA | | |
| Formal name: | USGS California Water Science Center | | |
| Monloc Identifier: | USGS-340541118012801 | | |
| Monloc name: | 001S011W09Q004S | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 18070106 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 34.0947308 |
| Longitude: | -118.0253445 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | Not Reported |
| Vert measure units: | Not Reported | Vertacc measure val: | Not Reported |
| Vert accmeasure units: | Not Reported | | |
| Vertcollection method: | Not Reported | | |
| Vert coord refsys: | Not Reported | Countrycode: | US |
| Aquifername: | California Coastal Basin aquifers | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | Not Reported | Welldepth: | 800 |
| Welldepth units: | ft | Wellholedepth: | 800 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 0

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**G22**
**WNW**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS40000140936**

| | | | |
|---|---|---|---|
| Org. Identifier: | USGS-CA | | |
| Formal name: | USGS California Water Science Center | | |
| Monloc Identifier: | USGS-340538118013101 | | |
| Monloc name: | 001S011W10N007S | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 18070106 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 34.0938975 |
| Longitude: | -118.0261778 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | Not Reported |
| Vert measure units: | Not Reported | Vertacc measure val: | Not Reported |
| Vert accmeasure units: | Not Reported | | |
| Vertcollection method: | Not Reported | | |
| Vert coord refsys: | Not Reported | Countrycode: | US |
| Aquifername: | California Coastal Basin aquifers | | |
| Formation type: | Not Reported | | |

| | | | |
|---|---|---|---|
| Aquifer type: | Not Reported | | |
| Construction date: | Not Reported | Welldepth: | 600 |
| Welldepth units: | ft | Wellholedepth: | 600 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 0

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**G23**
**WNW**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS40000140937**

| | | | |
|---|---|---|---|
| Org. Identifier: | USGS-CA | | |
| Formal name: | USGS California Water Science Center | | |
| Monloc Identifier: | USGS-340538118013201 | | |
| Monloc name: | 001S011W10N006S | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 18070106 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 34.0938975 |
| Longitude: | -118.0264556 | Sourcemap scale: | 24000 |
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | Not Reported |
| Vert measure units: | Not Reported | Vertacc measure val: | Not Reported |
| Vert accmeasure units: | Not Reported | | |
| Vertcollection method: | Not Reported | | |
| Vert coord refsys: | Not Reported | Countrycode: | US |
| Aquifername: | California Coastal Basin aquifers | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | Not Reported | Welldepth: | 530 |
| Welldepth units: | ft | Wellholedepth: | 530 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 0

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**24**
**East**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **1371**

**Water System Information:**

| | | | |
|---|---|---|---|
| Prime Station Code: | 01S/11W-14F03 S | User ID: | 19C |
| FRDS Number: | 1900706001 | County: | Los Angeles |
| District Number: | 49 | Station Type: | WELL/AMBNT/MUN/INTAKE |
| Water Type: | Well/Groundwater | Well Status: | Active Raw |
| Source Lat/Long: | 340514.0 1180004.0 | Precision: | 1,000 Feet (10 Seconds) |
| Source Name: | WELL 01 | | |
| System Number: | 1900706 | | |
| System Name: | CHAMPION MUTUAL | | |
| Organization That Operates System: | Not Reported | | |
| Pop Served: | Unknown, Small System | Connections: | Unknown, Small System |
| Area Served: | Not Reported | | |

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **H25**<br>**NNW**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **1354** |

**Water System Information:**

| | | | |
|---|---|---|---|
| Prime Station Code: | 01S/11W-10F02 S | User ID: | MET |
| FRDS Number: | 1910212005 | County: | Los Angeles |
| District Number: | 15 | Station Type: | WELL/AMBNT/MUN/INTAKE/SUPPLY |
| Water Type: | Well/Groundwater | Well Status: | Active Raw |
| Source Lat/Long: | 340600.0 1180100.0 | Precision: | Undefined |
| Source Name: | FARNA WELL 01 | | |
| System Number: | 1910212 | | |
| System Name: | SCWC-SOUTH ARCADIA | | |
| Organization That Operates System: | | | |
| | P.O. BOX 9016 | | |
| | SAN DIMAS, CA 91773 | | |
| Pop Served: | 23034 | Connections: | 6980 |
| Area Served: | Not Reported | | |
| Sample Collected: | 15-MAY-12 | Findings: | 2.9 MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 21-AUG-12 | Findings: | 15.5 C |
| Chemical: | SOURCE TEMPERATURE C | | |
| Sample Collected: | 21-AUG-12 | Findings: | 490. US |
| Chemical: | SPECIFIC CONDUCTANCE | | |
| Sample Collected: | 21-AUG-12 | Findings: | 7.86 |
| Chemical: | PH, FIELD | | |
| Sample Collected: | 21-AUG-12 | Findings: | 7.86 |
| Chemical: | PH, LABORATORY | | |
| Sample Collected: | 21-AUG-12 | Findings: | 170. MG/L |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | | |
| Sample Collected: | 21-AUG-12 | Findings: | 210. MG/L |
| Chemical: | BICARBONATE ALKALINITY | | |
| Sample Collected: | 21-AUG-12 | Findings: | 190. MG/L |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | | |
| Sample Collected: | 21-AUG-12 | Findings: | 51. MG/L |
| Chemical: | CALCIUM | | |
| Sample Collected: | 21-AUG-12 | Findings: | 14. MG/L |
| Chemical: | MAGNESIUM | | |
| Sample Collected: | 21-AUG-12 | Findings: | 18. MG/L |
| Chemical: | SODIUM | | |
| Sample Collected: | 21-AUG-12 | Findings: | 2. MG/L |
| Chemical: | POTASSIUM | | |
| Sample Collected: | 21-AUG-12 | Findings: | 18. MG/L |
| Chemical: | CHLORIDE | | |

| | | | |
|---|---|---|---|
| Sample Collected: | 21-AUG-12 | Findings: | 0.43 MG/L |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | | |
| Sample Collected: | 21-AUG-12 | Findings: | 300. MG/L |
| Chemical: | TOTAL DISSOLVED SOLIDS | | |
| Sample Collected: | 21-AUG-12 | Findings: | 0.84 |
| Chemical: | LANGELIER INDEX AT SOURCE TEMP. | | |
| Sample Collected: | 21-AUG-12 | Findings: | 4.2 MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 21-AUG-12 | Findings: | 0.16 NTU |
| Chemical: | TURBIDITY, LABORATORY | | |
| Sample Collected: | 21-AUG-12 | Findings: | 12. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | | |
| Sample Collected: | 15-MAY-13 | Findings: | 0.44 MG/L |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | | |
| Sample Collected: | 15-MAY-13 | Findings: | 3.1 MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 14-AUG-13 | Findings: | 290. MG/L |
| Chemical: | TOTAL DISSOLVED SOLIDS | | |

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**H26**
**NNW** **CA WELLS** **1355**
**1/2 - 1 Mile**
**Lower**

**Water System Information:**

| | | | |
|---|---|---|---|
| Prime Station Code: | 01S/11W-10F03 S | User ID: | MET |
| FRDS Number: | 1910212006 | County: | Los Angeles |
| District Number: | 15 | Station Type: | WELL/AMBNT/MUN/INTAKE/SUPPLY |
| Water Type: | Well/Groundwater | Well Status: | Active Raw |
| Source Lat/Long: | 340600.0 1180100.0 | Precision: | Undefined |
| Source Name: | FARNA WELL 02 | | |
| System Number: | 1910212 | | |
| System Name: | SCWC-SOUTH ARCADIA | | |
| Organization That Operates System: | | | |
| | P.O. BOX 9016 | | |
| | SAN DIMAS, CA 91773 | | |
| Pop Served: | 23034 | Connections: | 6980 |
| Area Served: | Not Reported | | |
| Sample Collected: | 17-AUG-11 | Findings: | 0.51 MG/L |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | | |
| Sample Collected: | 17-AUG-11 | Findings: | 2.2 MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 16-AUG-12 | Findings: | 2.4 MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 21-AUG-12 | Findings: | 20. C |
| Chemical: | SOURCE TEMPERATURE C | | |
| Sample Collected: | 21-AUG-12 | Findings: | 440. US |
| Chemical: | SPECIFIC CONDUCTANCE | | |

| | | | |
|---|---|---|---|
| Sample Collected: | 21-AUG-12 | Findings: | 7.95 |
| Chemical: | PH, FIELD | | |
| Sample Collected: | 21-AUG-12 | Findings: | 7.95 |
| Chemical: | PH, LABORATORY | | |
| Sample Collected: | 21-AUG-12 | Findings: | 180. MG/L |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | | |
| Sample Collected: | 21-AUG-12 | Findings: | 220. MG/L |
| Chemical: | BICARBONATE ALKALINITY | | |
| Sample Collected: | 21-AUG-12 | Findings: | 180. MG/L |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | | |
| Sample Collected: | 21-AUG-12 | Findings: | 51. MG/L |
| Chemical: | CALCIUM | | |
| Sample Collected: | 21-AUG-12 | Findings: | 14. MG/L |
| Chemical: | MAGNESIUM | | |
| Sample Collected: | 21-AUG-12 | Findings: | 16. MG/L |
| Chemical: | SODIUM | | |
| Sample Collected: | 21-AUG-12 | Findings: | 1.9 MG/L |
| Chemical: | POTASSIUM | | |
| Sample Collected: | 21-AUG-12 | Findings: | 12. MG/L |
| Chemical: | CHLORIDE | | |
| Sample Collected: | 21-AUG-12 | Findings: | 0.51 MG/L |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | | |
| Sample Collected: | 21-AUG-12 | Findings: | 250. MG/L |
| Chemical: | TOTAL DISSOLVED SOLIDS | | |
| Sample Collected: | 21-AUG-12 | Findings: | 1.1 |
| Chemical: | LANGELIER INDEX AT SOURCE TEMP. | | |
| Sample Collected: | 21-AUG-12 | Findings: | 4.4 MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 21-AUG-12 | Findings: | 0.18 NTU |
| Chemical: | TURBIDITY, LABORATORY | | |
| Sample Collected: | 21-AUG-12 | Findings: | 12. |
| Chemical: | AGGRSSIVE INDEX (CORROSIVITY) | | |
| Sample Collected: | 14-AUG-13 | Findings: | 260. MG/L |
| Chemical: | TOTAL DISSOLVED SOLIDS | | |
| Sample Collected: | 14-AUG-13 | Findings: | 3.2 MG/L |
| Chemical: | NITRATE (AS NO3) | | |

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**F27**
**SSW**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS40000140705**

| | | | |
|---|---|---|---|
| Org. Identifier: | USGS-CA | | |
| Formal name: | USGS California Water Science Center | | |
| Monloc Identifier: | USGS-340442118010001 | | |
| Monloc name: | 001S011W15Q003S | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 18070105 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 34.0783425 |
| Longitude: | -118.0175664 | Sourcemap scale: | 24000 |

| | | | |
|---|---|---|---|
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | Not Reported |
| Vert measure units: | Not Reported | Vertacc measure val: | Not Reported |
| Vert accmeasure units: | Not Reported | | |
| Vertcollection method: | Not Reported | | |
| Vert coord refsys: | Not Reported | Countrycode: | US |
| Aquifername: | California Coastal Basin aquifers | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | Not Reported | Welldepth: | Not Reported |
| Welldepth units: | Not Reported | Wellholedepth: | Not Reported |
| Wellholedepth units: | Not Reported | | |

Ground-water levels, Number of Measurements: 0

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**I28**
**ESE** **CA WELLS** **1366**
**1/2 - 1 Mile**
**Higher**

**Water System Information:**

| | | | |
|---|---|---|---|
| Prime Station Code: | 01S/11W-14C01 S | User ID: | 4TH |
| FRDS Number: | 1910141001 | County: | Los Angeles |
| District Number: | 07 | Station Type: | WELL/AMBNT/MUN/INTAKE/SUPPLY |
| Water Type: | Well/Groundwater | Well Status: | Active Raw |
| Source Lat/Long: | 340500.0 1180000.0 | Precision: | Undefined |
| Source Name: | WELL 01 | | |
| System Number: | 1910141 | | |
| System Name: | RURBAN HOMES MWC - EL MONTE | | |
| Organization That Operates System: | | | |
| | 5044 N COGSWELL DR<br>EL MONTE 91732 | | |
| Pop Served: | 1200 | Connections: | 307 |
| Area Served: | EL MONTE | | |
| Sample Collected: | 06-SEP-11 | Findings: | 5.6 MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 28-NOV-11 | Findings: | 470. US |
| Chemical: | SPECIFIC CONDUCTANCE | | |
| Sample Collected: | 28-NOV-11 | Findings: | 7.56 |
| Chemical: | PH, LABORATORY | | |
| Sample Collected: | 28-NOV-11 | Findings: | 150. MG/L |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | | |
| Sample Collected: | 28-NOV-11 | Findings: | 180. MG/L |
| Chemical: | BICARBONATE ALKALINITY | | |
| Sample Collected: | 28-NOV-11 | Findings: | 230. MG/L |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | | |
| Sample Collected: | 28-NOV-11 | Findings: | 69. MG/L |
| Chemical: | CALCIUM | | |
| Sample Collected: | 28-NOV-11 | Findings: | 14. MG/L |
| Chemical: | MAGNESIUM | | |

| | | | |
|---|---|---|---|
| Sample Collected: | 28-NOV-11 | Findings: | 23. MG/L |
| Chemical: | SODIUM | | |
| Sample Collected: | 28-NOV-11 | Findings: | 4.4 MG/L |
| Chemical: | POTASSIUM | | |
| Sample Collected: | 28-NOV-11 | Findings: | 35. MG/L |
| Chemical: | CHLORIDE | | |
| Sample Collected: | 28-NOV-11 | Findings: | 0.29 MG/L |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | | |
| Sample Collected: | 28-NOV-11 | Findings: | 330. MG/L |
| Chemical: | TOTAL DISSOLVED SOLIDS | | |
| Sample Collected: | 28-NOV-11 | Findings: | 11. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 29-MAY-12 | Findings: | 570. US |
| Chemical: | SPECIFIC CONDUCTANCE | | |
| Sample Collected: | 29-MAY-12 | Findings: | 7.6 |
| Chemical: | PH, LABORATORY | | |
| Sample Collected: | 29-MAY-12 | Findings: | 170. MG/L |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | | |
| Sample Collected: | 29-MAY-12 | Findings: | 210. MG/L |
| Chemical: | BICARBONATE ALKALINITY | | |
| Sample Collected: | 29-MAY-12 | Findings: | 230. MG/L |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | | |
| Sample Collected: | 29-MAY-12 | Findings: | 69. MG/L |
| Chemical: | CALCIUM | | |
| Sample Collected: | 29-MAY-12 | Findings: | 14. MG/L |
| Chemical: | MAGNESIUM | | |
| Sample Collected: | 29-MAY-12 | Findings: | 24. MG/L |
| Chemical: | SODIUM | | |
| Sample Collected: | 29-MAY-12 | Findings: | 4.4 MG/L |
| Chemical: | POTASSIUM | | |
| Sample Collected: | 29-MAY-12 | Findings: | 34. MG/L |
| Chemical: | CHLORIDE | | |
| Sample Collected: | 29-MAY-12 | Findings: | 0.3 MG/L |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | | |
| Sample Collected: | 29-MAY-12 | Findings: | 500. UG/L |
| Chemical: | IRON | | |
| Sample Collected: | 29-MAY-12 | Findings: | 350. MG/L |
| Chemical: | TOTAL DISSOLVED SOLIDS | | |
| Sample Collected: | 29-MAY-12 | Findings: | 13. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 29-MAY-12 | Findings: | 0.72 NTU |
| Chemical: | TURBIDITY, LABORATORY | | |
| Sample Collected: | 10-SEP-12 | Findings: | 0.26 MG/L |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | | |

| | | | |
|---|---|---|---|
| Sample Collected: | 10-SEP-12 | Findings: | 2.3 UG/L |
| Chemical: | ARSENIC | | |
| Sample Collected: | 10-SEP-12 | Findings: | 170. UG/L |
| Chemical: | BARIUM | | |
| Sample Collected: | 10-SEP-12 | Findings: | 420. MG/L |
| Chemical: | TOTAL DISSOLVED SOLIDS | | |
| Sample Collected: | 10-SEP-12 | Findings: | 20. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 07-MAR-13 | Findings: | 12. UG/L |
| Chemical: | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | | |
| Sample Collected: | 12-SEP-13 | Findings: | 0.573 PCI/L |
| Chemical: | RADIUM 228 COUNTING ERROR | | |
| Sample Collected: | 12-SEP-13 | Findings: | 0.2 PCI/L |
| Chemical: | RADIUM 228 MDA95 | | |
| Sample Collected: | 12-SEP-13 | Findings: | 0.203 PCI/L |
| Chemical: | RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0 | | |
| Sample Collected: | 12-SEP-13 | Findings: | 0.21 PCI/L |
| Chemical: | RA-226 OR TOTAL RA BY 903.0 C.E. | | |
| Sample Collected: | 12-SEP-13 | Findings: | 0.322 PCI/L |
| Chemical: | RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0 | | |
| Sample Collected: | 12-SEP-13 | Findings: | 0.215 PCI/L |
| Chemical: | GROSS ALPHA COUNTING ERROR | | |
| Sample Collected: | 12-SEP-13 | Findings: | 360. MG/L |
| Chemical: | TOTAL DISSOLVED SOLIDS | | |
| Sample Collected: | 12-SEP-13 | Findings: | 16. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 12-SEP-13 | Findings: | 1.6e-002 PCI/L |
| Chemical: | GROSS ALPHA MDA95 | | |

---

**I29**
**ESE** **CA WELLS** **1367**
**1/2 - 1 Mile**
**Higher**

**Water System Information:**

| | | | |
|---|---|---|---|
| Prime Station Code: | 01S/11W-14C02 S | User ID: | 4TH |
| FRDS Number: | 1910141002 | County: | Los Angeles |
| District Number: | 07 | Station Type: | WELL/AMBNT/MUN/INTAKE/SUPPLY |
| Water Type: | Well/Groundwater | Well Status: | Active Raw |
| Source Lat/Long: | 340500.0 1180000.0 | Precision: | Undefined |
| Source Name: | WELL 02 | | |
| System Number: | 1910141 | | |
| System Name: | RURBAN HOMES MWC - EL MONTE | | |
| Organization That Operates System: | | | |
| | 5044 N COGSWELL DR | | |
| | EL MONTE 91732 | | |
| Pop Served: | 1200 | Connections: | 307 |
| Area Served: | EL MONTE | | |

| | | | |
|---|---|---|---|
| Sample Collected: | 15-JUN-11 | Findings: | 1.8 PCI/L |
| Chemical: | URANIUM (PCI/L) | | |
| Sample Collected: | 15-JUN-11 | Findings: | 14. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 06-SEP-11 | Findings: | 17. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 28-NOV-11 | Findings: | 570. US |
| Chemical: | SPECIFIC CONDUCTANCE | | |
| Sample Collected: | 28-NOV-11 | Findings: | 7.51 |
| Chemical: | PH, LABORATORY | | |
| Sample Collected: | 28-NOV-11 | Findings: | 180. MG/L |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | | |
| Sample Collected: | 28-NOV-11 | Findings: | 220. MG/L |
| Chemical: | BICARBONATE ALKALINITY | | |
| Sample Collected: | 28-NOV-11 | Findings: | 290. MG/L |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | | |
| Sample Collected: | 28-NOV-11 | Findings: | 86. MG/L |
| Chemical: | CALCIUM | | |
| Sample Collected: | 28-NOV-11 | Findings: | 18. MG/L |
| Chemical: | MAGNESIUM | | |
| Sample Collected: | 28-NOV-11 | Findings: | 25. MG/L |
| Chemical: | SODIUM | | |
| Sample Collected: | 28-NOV-11 | Findings: | 4.9 MG/L |
| Chemical: | POTASSIUM | | |
| Sample Collected: | 28-NOV-11 | Findings: | 45. MG/L |
| Chemical: | CHLORIDE | | |
| Sample Collected: | 28-NOV-11 | Findings: | 0.24 MG/L |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | | |
| Sample Collected: | 28-NOV-11 | Findings: | 360. MG/L |
| Chemical: | TOTAL DISSOLVED SOLIDS | | |
| Sample Collected: | 28-NOV-11 | Findings: | 32. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 12-DEC-11 | Findings: | 26. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 07-MAR-12 | Findings: | 33. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 29-MAY-12 | Findings: | 650. US |
| Chemical: | SPECIFIC CONDUCTANCE | | |
| Sample Collected: | 29-MAY-12 | Findings: | 7.43 |
| Chemical: | PH, LABORATORY | | |
| Sample Collected: | 29-MAY-12 | Findings: | 200. MG/L |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | | |
| Sample Collected: | 29-MAY-12 | Findings: | 250. MG/L |
| Chemical: | BICARBONATE ALKALINITY | | |

| | | | |
|---|---|---|---|
| Sample Collected: | 29-MAY-12 | Findings: | 270. MG/L |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | | |
| Sample Collected: | 29-MAY-12 | Findings: | 79. MG/L |
| Chemical: | CALCIUM | | |
| Sample Collected: | 29-MAY-12 | Findings: | 17. MG/L |
| Chemical: | MAGNESIUM | | |
| Sample Collected: | 29-MAY-12 | Findings: | 25. MG/L |
| Chemical: | SODIUM | | |
| Sample Collected: | 29-MAY-12 | Findings: | 4.8 MG/L |
| Chemical: | POTASSIUM | | |
| Sample Collected: | 29-MAY-12 | Findings: | 39. MG/L |
| Chemical: | CHLORIDE | | |
| Sample Collected: | 29-MAY-12 | Findings: | 0.24 MG/L |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | | |
| Sample Collected: | 29-MAY-12 | Findings: | 400. MG/L |
| Chemical: | TOTAL DISSOLVED SOLIDS | | |
| Sample Collected: | 29-MAY-12 | Findings: | 28. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 29-MAY-12 | Findings: | 0.22 NTU |
| Chemical: | TURBIDITY, LABORATORY | | |
| Sample Collected: | 13-JUN-12 | Findings: | 29. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 10-SEP-12 | Findings: | 0.24 MG/L |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | | |
| Sample Collected: | 10-SEP-12 | Findings: | 2.1 UG/L |
| Chemical: | ARSENIC | | |
| Sample Collected: | 10-SEP-12 | Findings: | 200. UG/L |
| Chemical: | BARIUM | | |
| Sample Collected: | 10-SEP-12 | Findings: | 420. MG/L |
| Chemical: | TOTAL DISSOLVED SOLIDS | | |
| Sample Collected: | 10-SEP-12 | Findings: | 28. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 05-DEC-12 | Findings: | 21. MG/L |
| Chemical: | NITRATE (AS NO3) | | |
| Sample Collected: | 07-MAR-13 | Findings: | 21. MG/L |
| Chemical: | NITRATE (AS NO3) | | |

---

**30**
**NNW**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS40000141064**

| | | | |
|---|---|---|---|
| Org. Identifier: | USGS-CA | | |
| Formal name: | USGS California Water Science Center | | |
| Monloc Identifier: | USGS-340605118011601 | | |
| Monloc name: | 001S011W10F002S | | |
| Monloc type: | Well | | |
| Monloc desc: | Not Reported | | |
| Huc code: | 18070105 | Drainagearea value: | Not Reported |
| Drainagearea Units: | Not Reported | Contrib drainagearea: | Not Reported |
| Contrib drainagearea units: | Not Reported | Latitude: | 34.1013972 |
| Longitude: | -118.022011 | Sourcemap scale: | 24000 |

| | | | |
|---|---|---|---|
| Horiz Acc measure: | 1 | Horiz Acc measure units: | seconds |
| Horiz Collection method: | Interpolated from map | | |
| Horiz coord refsys: | NAD83 | Vert measure val: | Not Reported |
| Vert measure units: | Not Reported | Vertacc measure val: | Not Reported |
| Vert accmeasure units: | Not Reported | | |
| Vertcollection method: | Not Reported | | |
| Vert coord refsys: | Not Reported | Countrycode: | US |
| Aquifername: | California Coastal Basin aquifers | | |
| Formation type: | Not Reported | | |
| Aquifer type: | Not Reported | | |
| Construction date: | Not Reported | Welldepth: | 540 |
| Welldepth units: | ft | Wellholedepth: | 540 |
| Wellholedepth units: | ft | | |

Ground-water levels, Number of Measurements: 0

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**31**
**ESE**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADW50000004243**

| | | | |
|---|---|---|---|
| Latitude : | 34.0818 | | |
| Longitude : | 118.0006 | | |
| Site code: | 340818N1180006W001 | Casgem sta: | Not Reported |
| Local well: | USGVMWD-5 | Casgem s 1: | Observation |
| County id: | 19 | | |
| Basin cd: | 4-13 | Basin desc: | San Gabriel Valley |
| Org unit n: | Southern Region Office | Site id: | CADW50000004243 |

| Map ID<br>Direction<br>Distance | Database | EDR ID Number |
|---|---|---|
| **1**<br>**NE**<br>**1/2 - 1 Mile** | **OIL_GAS** | **CAOG9A000033785** |

| | | | |
|---|---|---|---|
| Districtnu: | 1 | Apinumber: | 03705122 |
| Blmwell: | N | Redrillcan: | Not Reported |
| Dryhole: | N | Wellstatus: | P |
| Operatorna: | Andrus and Hutcheson Inc. | | |
| Countyname: | Los Angeles | Fieldname: | Any Field |
| Areaname: | Any Area | | |
| Section: | 11 | | |
| Township: | 01S | Range: | 11W |
| Basemeridi: | SB | Elevation: | Not Reported |
| Locationde: | Not Reported | | |
| Glat: | 34.099215 | | |
| Glong: | -118.002309 | | |
| Gissourcec: | hud | | |
| Comments: | Not Reported | | |
| Leasename: | A & H | Wellnumber: | 1 |
| Epawell: | N | Hydraulica: | N |
| Confidenti: | N | Spuddate: | 30-DEC-99 |
| Welldeptha: | Not Reported | Redrillfoo: | Not Reported |
| Abandonedd: | / / | Completion: | / / |
| Gissymbol: | PDH | Site id: | CAOG9A000033785 |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
# RADON

**AREA RADON INFORMATION**

State Database: CA Radon

Radon Test Results

| Zipcode | Num Tests | > 4 pCi/L |
|---|---|---|
| 91732 | 1 | 0 |

Federal EPA Radon Zone for LOS ANGELES County: 2

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 LOS ANGELES COUNTY, CA

Number of sites tested: 63

| Area | Average Activity | % <4 pCi/L | % 4-20 pCi/L | % >20 pCi/L |
|---|---|---|---|---|
| Living Area - 1st Floor | 0.711 pCi/L | 98% | 2% | 0% |
| Living Area - 2nd Floor | Not Reported | Not Reported | Not Reported | Not Reported |
| Basement | 0.933 pCi/L | 100% | 0% | 0% |

# 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.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

## HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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.

## 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 Services
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 Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

## OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

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.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

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

Interview Documentation

The interview comments have been incorporated into the document.

Matthew Rodriquez
Secretary for
Environmental Protection

# Department of Toxic Substances Control

Deborah O. Raphael, Director
5796 Corporate Avenue
Cypress, California 90630

*Edmund G. Brown Jr.*
Governor

March 3, 2014

Michael Lyssy
PACIFIC ENVIRONMENTAL
28202 Cabot Road, #300
Laguna Niguel, CA 92677

SEE ATTACHED SHEETS
*PR#40228144*

Dear Mr. Lyssy:

The Department of Toxic Substances Control has received your letter to review records under the Public Records Act.

After a thorough review of our files we have found that no such records exist at this office pertaining to the site/facility referenced above.

We would like to inform you about EnviroStor, a database that provides information and documents on over 5,000 DTSC cleanup sites. EnviroStor can be accesses at: http://www.envirostor.dtsc.ca.gov/public. Also, a computer is available at each DTSC Regional File Room Office for use by community members to view EnviroStor.

If you have any questions or would like further information regarding your request, please contact our Regional Records Coordinator at (714) 484-5337.

Sincerely,

*Julie Johnson*
Regional Records Coordinator

Printed on Recycled Paper

PRY0228144

Via Fax (714) 484-5318

February 28, 2014

Regional Records Coordinator
**Department of Toxic Substances Control**
5796 Corporate Avenue
Cypress, CA 90630-4732

NO

**Pacific Environmental Company**
28202 Cabot Road, Suite 300
Laguna Niguel, CA 92677
T 800 303.6484
F 714 661 5788
mike@pacificenvironmental.com
http://www.pacificenvironmental.com

Subject: Records Review Request

Site Address: 4704-4716 Peck Road, El Monte, CA 91732

Dear Sir or Madam:

We are conducting a phase one environmental site assessment for the above referenced property and would like a review of any records regarding environmental concerns you may have on file pertaining to the site

If records are available for review, please notify the undersigned and we will schedule an appointment to view the files. Please call if you have any questions. You can reach me at 800.303.6484 extension 701 or via email at mike@pacificenvironmental.com.

Thank you for your cooperation.

Regards,

**Pacific Environmental Company**

Michael Lyssy
Registered Environmental Assessor

MJL/

DTSC
FEB 28 2014
CYPRESS

JONATHAN E. FIELDING, M.D., M.P.H.
Director and Health Officer

CYNTHIA A. HARDING, M.P.H.
Chief Deputy Director

Public Health Investigation Administration
LEOLA MERCADEL
Chief, Public Health Investigation

5555 Ferguson Drive, Suite 120-04
Commerce, California 90022
TEL (323) 890-7801 • FAX (323) 728-0217

www.publichealth.lacounty.gov

BOARD OF SUPERVISORS

Gloria Molina
First District

Mark Ridley-Thomas
Second District

Zev Yaroslavsky
Third District

Don Knabe
Fourth District

Michael D. Antonovich
Fifth District

March 03, 2014

PACIFIC ENV.
MIKE LYSSY
28202 CABOT RD., STE 300
LAGUNA NIGUEL, CA 92677

**RE:** 4704 - 4716 PECK RD., EL MONTE, CA 91732

I, the undersigned, being the Custodian or the Keeper of Records, certify that a thorough search for the records you requested was carried out under my direction and control.

**This search revealed no records.**

It should be understood that this does not mean that the records you requested do not exist. It is possible that such records may be misfiled; exist under another spelling, another name, or under another classification. However, with the information furnished to our office, and to the best of our knowledge, no records were located.

If you have any questions regarding your request, please contact our office at (323) 890-7801.

Sincerely,

Yvonne Curtis, Deputy Health Officer
Public Health Investigation

PP
COR ID No.141265

14B1 - NO Records Form
Revised 3/15/13

Via Fax (323) 728-0217

February 28, 2014

Health Hazardous Materials Division
**Public Health Investigation**
**Custodian of Records**
5555 Ferguson Drive, Suite 120-04
Commerce, CA 90022

**Pacific Environmental Company**
28202 Cabot Road, Suite 300
Laguna Niguel, CA 92677
**T** 800.303.6484
**F** 714.661.5788
mike@pacificenvironmental.com
http://www.pacificenvironmental.com

Subject: Records Review Request

Subject Site: 4704-4716 Peck Road, El Monte, CA 91732

Dear Sir or Madam:

We are conducting a phase one environmental site assessment for the above referenced property and would like a review of any records regarding environmental concerns you may have on file pertaining to the site, including hazardous materials inventories, waste generator permits, spills, or site remediation.

If records are available for review, please notify the undersigned and we will schedule an appointment to view the files. Please call if you have any questions. You can reach me at 800.303.6484 extension 701 or via email at mike@pacificenvironmental.com.

Thank you for your cooperation.

Regards.

**Pacific Environmental Company**

Registered Environmental Assessor

VIA FACSIMILE (626) 458-3569

February 28, 2014

**Pacific Environmental Company**
28202 Cabot Road, Suite 300
Laguna Niguel, CA 92677
T 800.303.6484
F 714.661.5788
mike@pacificenvironmental.com
http://www.pacificenvironmental.com

**Los Angeles County Public Works**
Environmental Programs Division
900 South Freemont Avenue
Alhambra, California 91803

Attention: Public Records

Subject: Records Review Request

Subject Site: 4704-4716 Peck Road, El Monte, CA 91732

No Files Found

To Whom It May Concern:

We are conducting a phase one environmental site assessment for the above referenced property and would like a review of any records you may have on file pertaining to the site.

If records are available, please forward copies to our office, or call us and we will make an appointment to review the files. You can reach me at 800.303.6484 extension 701 or via email at mike@pacificenvironmental.com.

Thank you for your cooperation.

Regards,

**Pacific Environmental Company**

Michael Lyssy
Registered Environmental Assessor

| | | | |
|---|---|---|---|
| | Date 3/4 | # of pages 1 | |
| To Michael Lyssy | From | | |
| Co./Dept. Pacific Env. Co. | Co. LACoDPW | | |
| Phone # | Phone # (626) 458-3517 | | |
| Fax # (714) 661-5788 | Fax # | | |

# Appendix G

Special Contractual Conditions between User and Environmental Professional

There were no special contractual conditions between User and Environmental Professional for this assessment.

# Appendix H

Qualification(s) of the Environmental Professional(s)

# MICHAEL LYSSY
# ENVIRONMENTAL PROFESSIONAL

## PROFESSIONAL EXPERIENCE

Mr. Lyssy is the President and manager of environmental services for Pacific Environmental Company. He has more than 20 years of experience in the development and management of environmental services. He serves in a review and consulting capacity to ensure quality standards are met and communicated to our clients.

Mr. Lyssy founded Pacific Environmental Company in April of 1993. Mr. Lyssy is involved with projects from their inception through their completion, including the proposal, negotiations, contract administration, coordination, specification writing, project management and report preparation stages. His main objective is to coordinate efforts to assure timely completion of project within the budget.

Mr. Lyssy has worked with a broad base of clients that include many non-profit organizations, including the Archdiocese of Los Angeles, The Salvation Army, and a variety of housing organizations. He also has performed consulting services for many financial institutions, city agencies, general contractors, schools, churches, developers and private parties.

In addition to supervising the preparation of up to 10 environmental site assessment (ESA) reports per month, Mr. Lyssy directs an indoor air quality group including licensed asbestos and lead-based paint inspectors and consultants and certified mold inspection professionals. This segment of our consulting services includes the collection and analysis of bulk material samples, preparation of operation and maintenance (O&M) programs for managing potentially hazardous building materials in place, preparation of materials removal specifications and abatement contractor supervision and on-site air monitoring.

Mr. Lyssy supervises other environmental consulting services including subsurface investigations, underground fuel storage tank removal and remediation, hazardous waste remediation (including dry cleaners and shooting ranges), and preparation of reports and applications for various clients.

## EDUCATION

Texas A&M University, College Station Texas - B.S. 1988

## CERTIFICATIONS

NREP Registered Environmental Assessor – REPA 675652
Class 1 Registered Environmental Assessor - REA No. 07069
Cal OSHA Certified Asbestos Consultant - Certification Number 94-1311
American Industrial Hygiene Association, Full Member
EPA/AHERA accredited Management Planner
EPA/AHERA accredited Project Designer
EPA/AHERA accredited Building Inspector
EPA/AHERA accredited Contractor Supervisor
EAA Certified Environmental Inspector
EAA Certified Environmental Specialist
Pacific Environmental Radiation Safety Officer

# Asbestos and Lead-Based Paint Survey Report

## 4712-4716 Peck Road
## El Monte, California 91732

Prepared for:

**Hollywood Community Housing Corporation**
5020 Santa Monica Boulevard
Los Angeles, California 90029

Prepared by:

**Pacific Environmental Company**
28202 Cabot Road, Suite 300
Laguna Niguel, CA 92677

March 17, 2014

Project Number: 14040

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# Asbestos and Lead-Based Paint Survey Report

4712-4716 Peck Road
El Monte, California 91732

## Introduction

Pacific Environmental Company has completed an asbestos survey and lead-based paint inspection in anticipation of demolition of the buildings located at 4712 and 4716 Peck Road in El Monte, California. The inspection was conducted by Mr. David Tillema on March 6, 2014. Mr. Tillema is a Cal/OSHA Certified Site Surveillance Technician and California Department of Public Health Certified Inspector/Assessor. Michael Lyssy, a Cal/OSHA California Certified Asbestos Consultant coordinated and managed the project.

The purpose of this survey was to assess the property for the potential presence of asbestos-containing materials (ACMs) and lead-based paints (LBP) that will require removal prior to demolition of the site in anticipation of redeveloping the site with a new housing project.

The property is developed with a dwelling and a retail tire store.

## Scope of Work

**ASBESTOS**: The asbestos survey was performed by identifying suspect ACMs (defined by U.S. EPA and Occupational Safety and Health Administration (OSHA) as any material containing more than 1% asbestos) and performing sampling in compliance with the regulations that specify the identification of ACM. The suspect ACMs were grouped into Homogeneous Sampling Areas (HSAs). An HSA is a material that exhibits similar physical characteristics and that was installed at the same time as observed by the licensed inspector. Enclosed and/or encased materials were deemed inaccessible and as such, this investigation and all sampling was conducted only in generally accessible areas. Walls, ceiling, floors or soffits were not demolished to gain access as this property was occupied during our inspection.

Upon identifying the suspect ACMs, representative bulk samples were collected from each HSA following OSHA and National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations. Bulk samples were collected using a variety of cutting and/or coring tools, each cleaned prior to and following the collection of each sample. Samples were generally collected through the entire strata of each material sampled, unless otherwise noted. To minimize the generation of dust, a liberal amount of water was applied during the collection of each sample, particularly during the collection of friable materials. Water was amended with a surfactant and applied using a small garden-type sprayer. In addition, a small HEPA vacuum was used to remove any debris generated from sampling activities. Samples were placed inside a clean (new) plastic container and labeled with a unique sampling number corresponding to a material description on PEC's bulk sample collection logs.

Sample locations were chosen so as to be representative of the material sampled and based on the licensed inspector's professional judgment. Each sample collected was given a unique sample number. The friability of each material was

evaluated and noted prior to the collection of each sample. Friable materials can be crushed into powder using hand pressure. Non-friable materials are materials that are not friable.

At the completion of the fieldwork, the bulk samples collected were logged onto chain of custody sheets and forwarded to AmeriSci Los Angeles (AmeriSci) for analysis by Polarized Light Microscopy (PLM). AmeriSci participates in the National Voluntary Laboratory Accreditation Program (NVLAP). The bulk samples were analyzed in accordance with the U.S. EPA "Method for Determination of Asbestos in Bulk Building Materials" 600/R-93/116. This method requires that multiple and distinct layers be analyzed separately.

The National Emission Standard for Hazardous Air Pollutants (NESHAPS), EPA, OSHA and SCAQMD define an ACM as any material containing a concentration of asbestos greater than 1.0% by weight as determined by Polarized Light Microscopy. These agencies further separate ACM into the following three categories:

- Regulated Asbestos-Containing Materials (RACM) - Includes all friable asbestos materials, Class 1 non-friable asbestos materials that have become friable or will become friable and Class 2 non-friable materials that have a high probability of becoming friable when crumbled, pulverized or reduced to powder by forces expected to act on the materials in the course of renovation or demolition.
- Class 1 Non-friable asbestos-containing materials - Includes asbestos- containing packing, gaskets, resilient floor covering and asphalt roofing products that when dry can be crumbled, pulverized or reduced to powder by hand pressure.
- Class 2 Non-friable asbestos-containing materials - Includes all non-friable materials, excluding Class 1 materials that when dry cannot be crumbled, pulverized or reduced to powder by hand pressure.

The California Department of Occupational Safety and Health (Cal/OSHA) defines an asbestos-containing construction material (ACCM) as a material that contains greater than one-tenth of one percent (>0.10%) asbestos. It is this definition where the issue of "trace asbestos" arises. Material found to contain less than 1% asbestos (trace) does not meet the EPA or SCAQMD definition of ACM and therefore, does not require disposal as such. However, Cal-OSHA's employee protection requirements for materials containing less than 1% asbestos prohibit unrestricted demolition and require personal protective equipment (PPE), training, and special equipment during abatement.

Based upon these criteria, the results of the sampling are separated into those containing greater than 1% asbestos, less than 1% (trace) asbestos and those where no asbestos was detected.

**LEAD-BASED PAINT**: The lead-based paint inspection consisted of sampling deteriorated paint at the property that would require stabilization prior to demolition by a California Department of Public Health (CDPH) certified Lead Inspector/Assessor.

The U.S. Department of Housing and Urban Development (HUD) and the U.S. Environmental Protection Agency (EPA) define an inspection as a surface-by-surface investigation to determine the presence of lead-based paint (see 40 CFR part 745 and Title X of the 1992 Housing and Community Development Act). Common renovation activities like sanding, cutting, and demolition can create hazardous lead dust and chips by disturbing lead-based paint, which can be harmful to adults and children.

Several public (government) agencies have a published "regulatory action level" to classify LBP. To further complicate matters, some of the established "levels" are quantified in different units of measurement. Listed below are the current regulatory agencies that have defined LBP, along with the respective action level:

| Agency | Ordinance | Action Level (mg/cm2) | Action Level (ppm) |
|---|---|---|---|
| HUD / EPA | 24 CFR 35.86 & 40 CFR 745.103 | 1.0 mg/cm2 | 5,000 ppm |
| L.A. County | Title 11, 11.28.010 | 0.7 mg/cm2 | 600 ppm |
| OSHA / CAL OSHA | 29 CFR 1926.62 & Title 8, 1532.1 | not Specified | 600 ppm |

Based on the various action levels, we are reporting lead-based paint (LBP) and lead-containing paint (LCP) to ensure compliance during the renovation. LBP and LCP are defined below:

- **Lead-Based Paint:** Paint or other surface coating that contains lead in excess of 1.0 milligrams per centimeter squared (mg/cm2) or 5,000 parts per million (ppm).
- **Lead-Containing Paint**: painted material or surfaces containing lead levels between 600 to 5,000 ppm of lead.

## Site Description

The dwelling at 4712 Peck Road is a single-story, wood-framed structure built over a raised foundation. The building was built in the 1930s and comprises approximately 1,250 square feet. Interior finishes include wood walls and the floors are covered with engineered wood floorings and ceramic tile. The exterior walls are finished with wood siding and the roof is covered with a pitched composite shingle roofing system.

The building at 4716 Peck Road is a single-story, wood-framed structure built over a concrete slab on grade. The building was built in the 1940s and it comprises approximately 2,100 square feet. Interior finishes include wood, drywall and plaster wall systems. Floors are concrete and vinyl flooring. The exterior is stucco and wood.

## Asbestos Inspection Results

A total of twenty-eight (28) bulk samples (which were separated into thirty-four layers) were collected and analyzed by Polarized Light Microscopy with dispersion staining per EPA protocols. Based on our assessment services, the following materials were confirmed to contain greater than one percent (1%) asbestos, and are therefore classified as ACM.

| Summary of Asbestos-Containing Materials | | |
|---|---|---|
| **Material** | **Location** | **Est. Qty.** |
| **4712 Peck Road** | | |
| Transite Vent Pipe | Vent Flue | 16 LF |
| **4716 Peck Road** | | |
| Ducting Mastic | Roof Ducts | 10 SF |
| Gray Roof Penetration Mastic | Roof Penetrations | 80 SF |

Site and sample location plans are included as Appendix A, the laboratory reports and chain of custody forms are included as Appendix B.

## LBP Testing Results

Representative paint chip samples of defective paints were collected and submitted for analysis to AmeriSci for analysis by Flame Atomic Absorption Spectrophotometry (Flame AAS) in accordance with EPA Method 7420 analytical protocols. AmeriSci is certified by the State of California Department of Health Services Environmental Laboratory Accreditation Program (ELAP) and is accredited by the American Industrial Hygiene Association's (AIHA) Laboratory Quality Assurance Program for industrial hygiene and lead analysis

Lead-Based Paint is defined by the California Department of Public Health as any paint containing lead levels exceeding 0.5% by weight via paint chip sampling. Cal/OSHA rules apply to “any detectable concentration of lead” without a specific detection level.

Throughout the project areas, the following tested surfaces indicated the presence of LBP at or above the action level:

| | | |
|---|---|---|
| **Exterior**: | 4712 Peck Road: | Exterior Walls and Trim |
| | 4716 Peck Road: | Exterior Walls and Trim |

Lead testing was representative and similar components should be treated accordingly. The analytical data is included in Appendix C. Paint chip sample results are include in Table 3.0 after the body of this report.

## Summary and Recommendations

Based on our observations and the data collected for this inspection, there are ACMs that will have to be removed to facilitate the demolition.

Defective lead-based paints are also present in the project area. The defective lead-based paint must be stabilized by lead trained personnel in accordance with all applicable federal, state and local regulations using California certified workers and supervisors in accordance with the State of California lead abatement regulations.

Asbestos and Lead must be handled in strict accordance with the various federal, state, and local regulations. Failure to abide by these regulations can result in penalties to both the contractor as well as the owner. Detailed below are the regulations and procedures to follow when working with ACM and LBP at the property.

- South Coast Air Quality Management District Rule 1403 Asbestos Emissions from Renovation/Demolition Activities
- National Emissions Standards for Hazardous Air Pollutants, 40 CFR 61, M
- Occupational Safety and Health Administration, Asbestos in the Workplace, 29 CFR 1910.1001
- Occupational Safety and Health Administration, Asbestos Construction Standard, 29 CFR 1926.1101
- Title 8, California Code of Regulations Section 1529, Cal-OSHA Construction Standard
- Title 8, California Code of Regulations Section 1532.1, Cal-OSHA Lead in Construction Standard

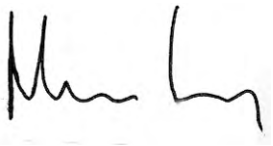
All asbestos and lead waste must be properly disposed of and documented. Waste Manifests must be submitted at the end of a project. Disposing of a known hazardous waste is illegal in the State of California.

## Limitations

The information contained within this report was prepared for the exclusive use and reliance of Hollywood Community Housing Corporation and PEC. This information is based on the specific parameters of the scope of work for this project and the regulations in force at the time of this report. PEC accepts no responsibility for the use, interpretation, or reliance by other parties on the information contained herein without the written authorization of PEC.

Often materials are located in confined or inaccessible locations with little or no visible manifestation of their presence. These materials may be found in various areas under existing flooring materials, above ceilings, behind walls, materials within fixtures, electrical wire casing, or buried pipes and wires. Because of the potential for hidden materials, it may not be possible to determine if all suspect building materials have been identified, located, and subsequently tested. Destructive measures to access these potentially hidden materials were not employed by PEC as part of this project. However, PEC does warrant that its investigations and methodology reflect our best efforts based upon prevailing standard of care in the environmental industry.

Report prepared by:



Michael J. Lyssy
Certified Asbestos Consultant
CAC 94-3911

David Tillema
DHS Certified Inspector/Assessor
I-17740

# Tables

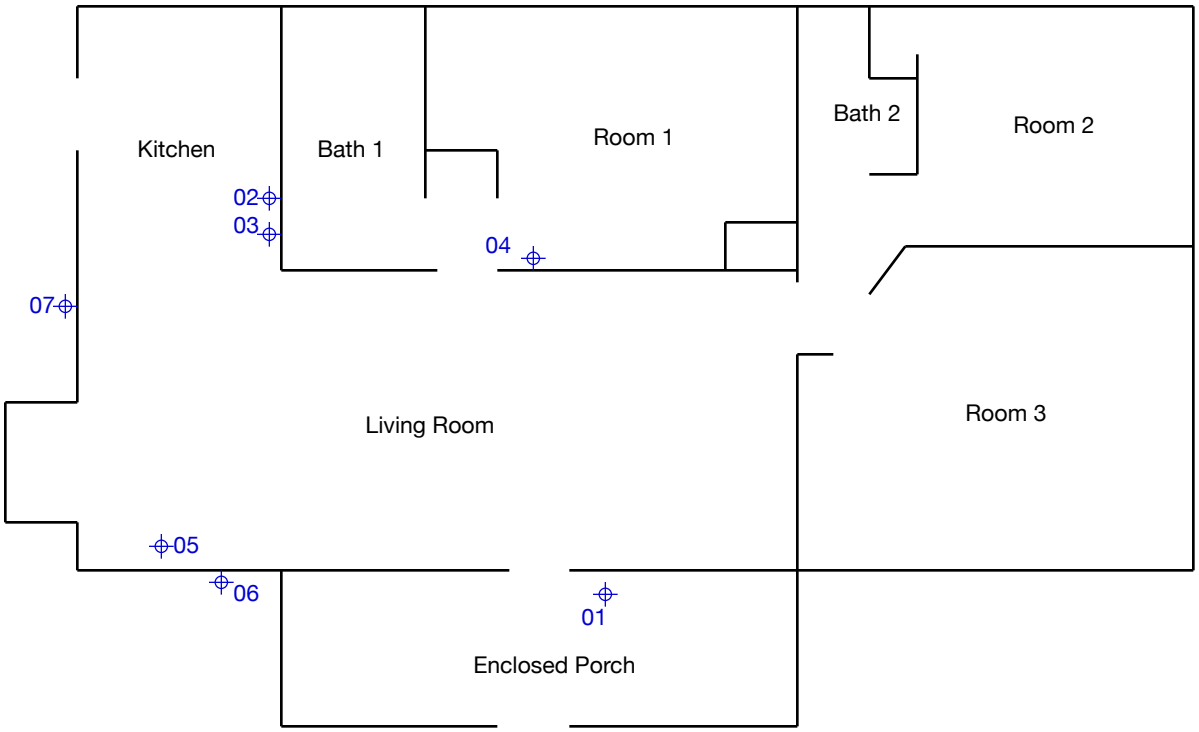
| Table 1.0<br>Homogeneous Sampling Areas and PLM Sample Results | | | | | |
|---|---|---|---|---|---|
| **Homogeneous Area** | **Sample Nos.** | **Material Description** | **Material Location** | **Condition** | **Result** |
| **4712 Peck Road** | | | | | |
| HSA1 | 01 | Gray 12” Vinyl Floor Tile | Enclosed Porch | Good | No Asbestos Detected |
| HSA2 | 01 | Black Floor Tile Mastic | Enclosed Porch | Good | No Asbestos Detected |
| HSA3 | 01 | Floor Leveling Compound | Enclosed Porch | Good | No Asbestos Detected |
| HSA4 | 02 | Drywall | Kitchen Stove Exhaust | Good | No Asbestos Detected |
| HSA5 | 02 | Drywall Skim Coat | Kitchen Stove Exhaust | Good | No Asbestos Detected |
| HSA6 | 03 | Drywall Joint Compound | Kitchen Stove Exhaust | Good | No Asbestos Detected |
| HSA7 | 04 | Attic Insulation | Attic | Good | No Asbestos Detected |
| HSA8 | 05 | Roof Core Sample | Roof | Good | No Asbestos Detected |
| HSA9 | 06-07 | Window Putty | Exterior Window Glazing | Good | No Asbestos Detected |
| HSA10 | - | Transite Vent | Transite Flue | Good | Assumed Asbestos |
| **4716 Peck Road** | | | | | |
| HSA11 | 01 | Wood Patterned 12” Vinyl Floor Tile | Office | Good | No Asbestos Detected |
| HSA12 | 02 | White 12” Vinyl Floor Tile | Waiting Room | Damaged | No Asbestos Detected |
| HSA13 | 03 | Wood Patterned 12” Vinyl Floor Tile | Reception Area | Good | No Asbestos Detected |
| HSA14 | 04-06 | Drywall | Walls and Ceilings | Damaged | No Asbestos Detected |
| HSA15 | 07-09 | Drywall Joint Compound | Walls and Ceilings | Good | No Asbestos Detected |
| HSA16 | 10-11 | Plaster | Bathroom Walls and Ceilings | Damaged | No Asbestos Detected |
| HSA17 | 12 | Roof Composite Shingle | Roof | Good | No Asbestos Detected |
| HSA18 | 13 | Stucco Vapor Barrier | Behind Stucco | Good | No Asbestos Detected |
| HSA19 | 14-16 | Stucco Skim Coat | Exterior Walls | Good | No Asbestos Detected |
| HSA20 | 14-16 | Stucco Base Coat | Exterior Walls | Good | No Asbestos Detected |
| HSA21 | 17 | Ducting Mastic | Roof Ducts | Good | 5% Chrysotile Asbestos |
| HSA22 | 18 | Gray Penetration Mastics | Roof Penetrations | Good | 5% Chrysotile Asbestos |
| HSA23 | 19 | Black Roof Mastic | Roof Patches | Good | No Asbestos Detected |
| HSA24 | 20 | Gray Roll-On Roof Core | Flat Roof | Good | No Asbestos Detected |
| HSA25 | 21 | Brown Roll-On Roof Core | Flat Roof | Good | No Asbestos Detected |

| Table 2.0<br>Summary of Asbestos Containing Materials | | | | |
|---|---|---|---|---|
| **Homogeneous Area** | **Material Description** | **Material Locations** | **Approximate Quantity** | **Friable/Non-Friable** |
| **4712 Peck Road** | | | | |
| HSA10 | Transite Vent | Vent Flue | 16 LF | Non-Friable |
| **4716 Peck Road** | | | | |
| HSA21 | Ducting Mastic | Roof Ducts | 10 SF | Non-Friable |
| HSA22 | Gray Roof Penetration Mastic | Roof Penetrations | 80 SF | Non-Friable |

| Table 3.0<br>Paint Chip Sample Results | | |
|---|---|---|
| **Sample / Location** | **Results** | **Classification** |
| **4712 Peck Road** | | |
| Exterior Paint on Wood Siding | 74,000 ppm | Positive |
| Exterior Paint on Wood Siding | 42,000 ppm | Positive |
| Exterior Paint on Wood Siding | 65,000 ppm | Positive |
| Exterior Paint of Wood Joist (Trim Paint) | 21.000 ppm | Positive |
| **4716 Peck Road** | | |
| White Paint on Stucco Wall | 1,800 ppm | Positive |
| Brown Paint on Exterior Fascia (Trim Paint) | 19,000 ppm | Positive |

# Appendix A

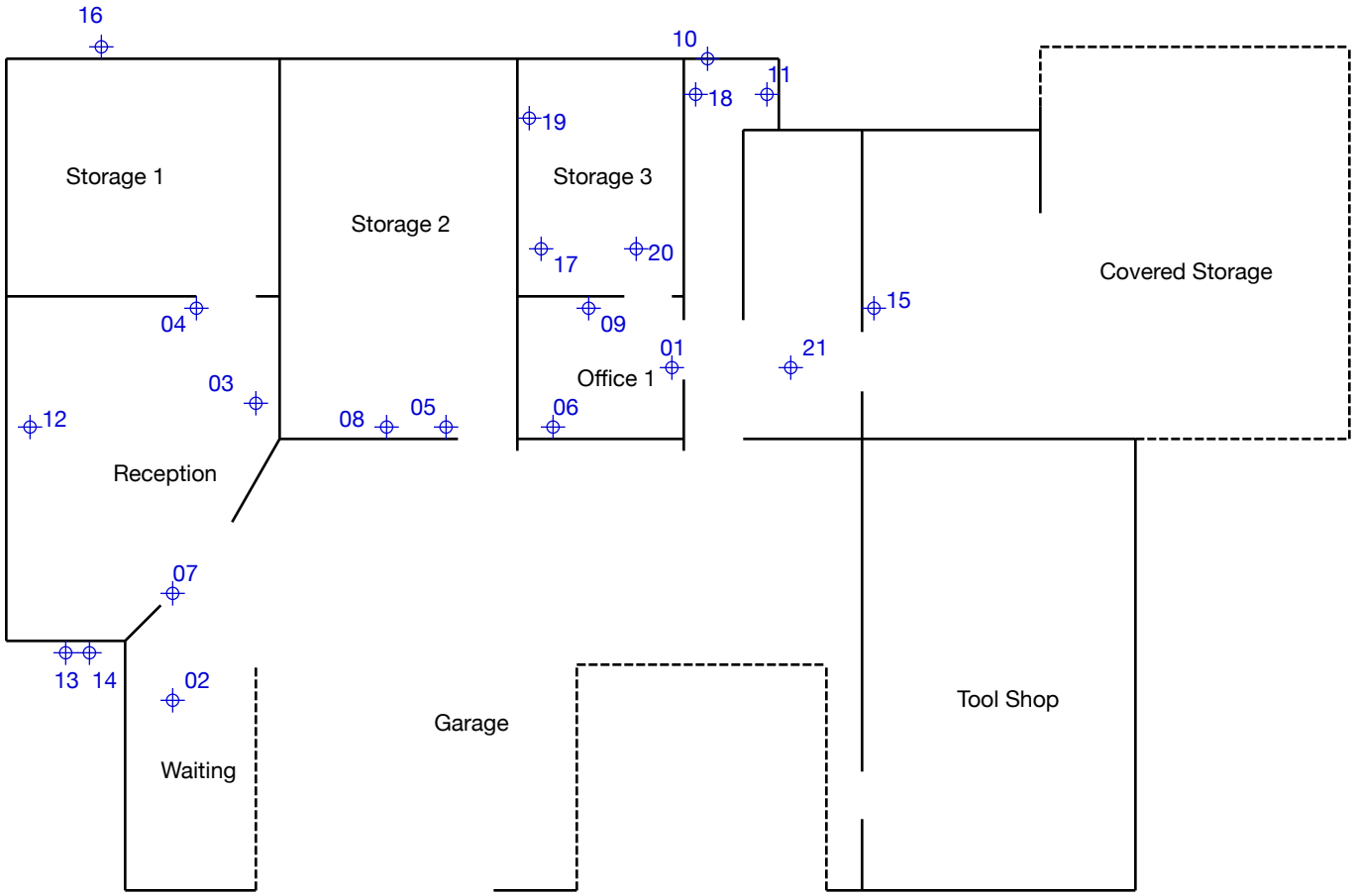
Site and Sample Location Plans




Indicates Approximate Sample Location

| | | |
|---|---|---|
| DATE PREPARED: 3/12/2014 | PREPARED BY: ML | DRAWING TITLE: Site and Sample Location Plan<br>4712 Peck Road<br>El Monte, California |
| REVISION: | SOURCE: | |
| PROJECT NO: 14040 | APPROX SCALE: | |
| PROJECT NAME: Asbestos and Lead-Based Paint Survey | | CLIENT: **Hollywood Community Housing Corp.** |

FIGURE NO. 1




Indicates Approximate Sample Location

| | | |
|---|---|---|
| DATE PREPARED: 3/12/2014 | PREPARED BY: ML | DRAWING TITLE: Site and Sample Location Plan<br>4716 Peck Road<br>El Monte, California |
| REVISION: | SOURCE: | |
| PROJECT NO: 14040 | APPROX SCALE: | |
| PROJECT NAME: Asbestos and Lead-Based Paint Survey | | CLIENT: **Hollywood Community Housing Corp.** |

FIGURE NO. 2

# Appendix B

Asbestos Sample Analysis Reports and Chain of Custody

**AmeriSci Los Angeles**
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

# PLM Bulk Asbestos Report

Pacific Environmental Company
Attn: Mike Lyssy
28202 Cabot Road
Suite 300
Laguna Niguel, CA 92677

**Date Received** 03/10/14
**Date Examined** 03/14/14

**AmeriSci Job #** 914031347
**P.O. #**


**RE:** El Monte, CA; Yasmin Tong Consulting; 4712 Peck Rd. El Monte, CA

| Client No. / HGA | Lab No. | Asbestos Present | Total % Asbestos |
|---|---|---|---|
| 01 | 914031347-01L1 | *No* | NAD (by CVES) by Paola Ducoing on 03/14/14 |
| **Location:** 12"x12" Grey VFT / Enclosed Porch | | | |
| **Analyst Description:** Grey, Homogeneous, Non-Fibrous, Floor Tile | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Non-fibrous 100 % | | | |
| 01 | 914031347-01L2 | *No* | NAD (by CVES) by Paola Ducoing on 03/14/14 |
| **Location:** 12"x12" Grey VFT / Enclosed Porch | | | |
| **Analyst Description:** Black, Homogeneous, Non-Fibrous, Mastic | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Non-fibrous 100 % | | | |
| 01 | 914031347-01L3 | *No* | NAD (by CVES) by Paola Ducoing on 03/14/14 |
| **Location:** 12"x12" Grey VFT / Enclosed Porch | | | |
| **Analyst Description:** Beige, Homogeneous, Non-Fibrous, Leveling Compound | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Non-fibrous 100 % | | | |
| 02 | 914031347-02.1 | *No* | NAD (by CVES) by Paola Ducoing on 03/14/14 |
| **Location:** Drywall / Kitchen (Stove Exhaust) | | | |
| **Analyst Description:** White/Brown, Heterogeneous, Fibrous, Drywall | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Cellulose 15 %, Non-fibrous 85 % | | | |
| 02 | 914031347-02.2 | *No* | NAD (by CVES) by Paola Ducoing on 03/14/14 |
| **Location:** Drywall / Kitchen (Stove Exhaust) | | | |
| **Analyst Description:** White, Homogeneous, Non-Fibrous, Skim Coat | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Non-fibrous 100 % | | | |

See Reporting notes on last page

# PLM Bulk Asbestos Report

El Monte, CA; Yasmin Tong Consulting; 4712 Peck Rd. El Monte, CA

| Client No. / HGA | Lab No. | Asbestos Present | Total % Asbestos |
|---|---|---|---|
| 03 | 914031347-03 | ***No*** | NAD (by CVES) by Paola Ducoing on 03/14/14 |
| **Location:** Joint Compound / Kitchen (Stove Exhaust) | | | |
| **Analyst Description:** White, Homogeneous, Non-Fibrous, Joint Compound | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Non-fibrous 100 % | | | |
| 04 | 914031347-04 | ***No*** | NAD (by CVES) by Paola Ducoing on 03/14/14 |
| **Location:** Attic Insulation / Attic | | | |
| **Analyst Description:** Brown, Heterogeneous, Fibrous, Insulation | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Cellulose 95 %, Non-fibrous 5 % | | | |
| 05 | 914031347-05 | ***No*** | NAD (by CVES) by Paola Ducoing on 03/14/14 |
| **Location:** Roof Composite / Exterior | | | |
| **Analyst Description:** Black, Heterogeneous, Fibrous, Roofing | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Cellulose 25 %, Fibrous glass 15 %, Non-fibrous 60 % | | | |
| 06 | 914031347-06 | ***No*** | NAD (by CVES) by Paola Ducoing on 03/14/14 |
| **Location:** Window Putty / Exterior | | | |
| **Analyst Description:** Off-White, Homogeneous, Non-Fibrous, Window Putty | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Non-fibrous 100 % | | | |
| 07 | 914031347-07 | ***No*** | NAD (by CVES) by Paola Ducoing on 03/14/14 |
| **Location:** Window Putty / Exterior | | | |
| **Analyst Description:** Off-White, Homogeneous, Non-Fibrous, Window Putty | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Non-fibrous 100 % | | | |

See Reporting notes on last page

# PLM Bulk Asbestos Report

El Monte, CA; Yasmin Tong Consulting; 4712 Peck Rd. El Monte, CA

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**Reporting Notes:**

Analyzed By: Paola Ducoing _____; Date Analyzed: 3/14/2014 3/14/14

*NAD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; NVA = No Visible Asbestos; PLM (polarized light microscopy) Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0, CA ELAP lab #2322); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By: _____ 3/14/14

3

PACIFIC ENVIRONMENTAL

| | |
|---|---|
| Date: | 3/6/14 |
| Client: | Yasmin Tong. Consulting. |
| Site: | 4712 Peck Rd. |
| Project No: | El. Monte, CA |
| Inspector(s): | D.T. |

914031347

ASBESTOS BULK SAMPLE FIELD LOG AND CHAIN OF CUSTODY

| Sample Number | Material Sampled | Sample Location | Condition |
|---|---|---|---|
| 01 | 12"x12" Grey VFT | Enclosed Porch. | G |
| 02 | Drywall | ~~Sa~~ Kitchen (Stove Exhaust) | \| |
| 03 | Joint Compound | ⊥ | |
| 04 | Attic Insulation | Attic | |
| 05 | Roof Composite | Exterior | |
| 06 | Window Putty | \| | |
| 07 | ⊥ | | |

Analytical Method: PLM

Turn Around Time: Standard

Please fax results to (714)776-3500 and mail to:

Pacific Environmental Company
28202 Cabot Road, Suite 300
Laguna Niguel, CA 92677

CHAIN OF CUSTODY:

| Date/Time | Name | Signature |
|---|---|---|
| 3/6/14 | David Tillema | |
| | | |

3/10/14 @ 12:30

**AmeriSci Los Angeles**
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

# PLM Bulk Asbestos Report

Pacific Environmental Company
Attn: Mike Lyssy
28202 Cabot Road
Suite 300
Laguna Niguel, CA 92677

**Date Received** 03/10/14
**Date Examined** 03/14/14

**AmeriSci Job #** 914031348
**P.O. #**


**RE:** Yasmin Tong Consulting; 4716 Peck Rd.

| Client No. / HGA | Lab No. | Asbestos Present | Total % Asbestos |
|---|---|---|---|
| 01 | 914031348-01 | *No* | NAD (by CVES) by Miguel Orozco on 03/14/14 |
| **Location:** 12"x12" Peel "N" Stick Wood Grain VFT / Office | | | |
| **Analyst Description:** Brown/Black, Homogeneous, Non-Fibrous, Bulk Material | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Non-fibrous 100 % | | | |
| 02 | 914031348-02 | *No* | NAD (by CVES) by Miguel Orozco on 03/14/14 |
| **Location:** 12"x12" Wht VFT / Waiting | | | |
| **Analyst Description:** Beige, Homogeneous, Non-Fibrous, Bulk Material | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Non-fibrous 100 % | | | |
| 03 | 914031348-03 | *No* | NAD (by CVES) by Miguel Orozco on 03/14/14 |
| **Location:** 12"x12" Peel "N" Stick Wood Grain VFT / Reception | | | |
| **Analyst Description:** Brown/Black, Homogeneous, Non-Fibrous, Bulk Material | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Non-fibrous 100 % | | | |
| 04 | 914031348-04 | *No* | NAD (by CVES) by Miguel Orozco on 03/14/14 |
| **Location:** Drywall / Reception | | | |
| **Analyst Description:** Brown/Pink, Heterogeneous, Fibrous, Bulk Material | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Cellulose 10 %, Non-fibrous 90 % | | | |
| 05 | 914031348-05 | *No* | NAD (by CVES) by Miguel Orozco on 03/14/14 |
| **Location:** Drywall / Storage 2 | | | |
| **Analyst Description:** Brown/Pink, Heterogeneous, Fibrous, Bulk Material | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Cellulose 10 %, Non-fibrous 90 % | | | |

See Reporting notes on last page

# PLM Bulk Asbestos Report

Yasmin Tong Consulting; 4716 Peck Rd.

| Client No. / HGA | Lab No. | Asbestos Present | Total % Asbestos |
|---|---|---|---|
| 06 | 914031348-06 | *No* | NAD (by CVES) by Miguel Orozco on 03/14/14 |
| **Location:** Drywall / Office | | | |
| **Analyst Description:** Brown/Pink, Heterogeneous, Fibrous, Bulk Material | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Cellulose 10 %, Non-fibrous 90 % | | | |
| 07 | 914031348-07 | *No* | NAD (by CVES) by Miguel Orozco on 03/14/14 |
| **Location:** Joint Compound / Reception | | | |
| **Analyst Description:** White, Homogeneous, Non-Fibrous, Bulk Material | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Non-fibrous 100 % | | | |
| 08 | 914031348-08 | *No* | NAD (by CVES) by Miguel Orozco on 03/14/14 |
| **Location:** Joint Compound / Storage 2 | | | |
| **Analyst Description:** White, Homogeneous, Non-Fibrous, Bulk Material | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Non-fibrous 100 % | | | |
| 09 | 914031348-09 | *No* | NAD (by CVES) by Miguel Orozco on 03/14/14 |
| **Location:** Joint Compound / Office | | | |
| **Analyst Description:** Beige, Homogeneous, Non-Fibrous, Bulk Material | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Non-fibrous 100 % | | | |
| 10 | 914031348-10 | *No* | NAD (by CVES) by Miguel Orozco on 03/14/14 |
| **Location:** Plaster / Toilet | | | |
| **Analyst Description:** Beige, Heterogeneous, Non-Fibrous, Cementitious, Bulk Material | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Non-fibrous 100 % | | | |
| 11 | 914031348-11 | *No* | NAD (by CVES) by Miguel Orozco on 03/14/14 |
| **Location:** Plaster / Toilet | | | |
| **Analyst Description:** Beige, Heterogeneous, Non-Fibrous, Cementitious, Bulk Material | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Non-fibrous 100 % | | | |

See Reporting notes on last page

# PLM Bulk Asbestos Report

Yasmin Tong Consulting; 4716 Peck Rd.

| Client No. / HGA | Lab No. | Asbestos Present | Total % Asbestos |
|---|---|---|---|
| 12 | 914031348-12 | ***Yes*** | 3 % (by CVES) by Miguel Orozco on 03/14/14 |
| **Location:** Roof Composite / Exterior | | | |
| **Analyst Description:** Green/Black, Heterogeneous, Fibrous, Bulk Material | | | |
| **Asbestos Types:** Chrysotile 3.0 % | | | |
| **Other Material:** Cellulose 15 %, Non-fibrous 82 % | | | |
| 13 | 914031348-13 | ***No*** | NAD (by CVES) by Miguel Orozco on 03/14/14 |
| **Location:** Stucco Vapor Barrier Paper / Exterior | | | |
| **Analyst Description:** Black, Heterogeneous, Fibrous, Bulk Material | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Cellulose 90 %, Non-fibrous 10 % | | | |
| 14 | 914031348-14.1 | ***No*** | NAD (by CVES) by Miguel Orozco on 03/14/14 |
| **Location:** Stucco / Exterior | | | |
| **Analyst Description:** White, Heterogeneous, Non-Fibrous, Cementitious, Skim Coat | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Non-fibrous 100 % | | | |
| 14 | 914031348-14.2 | ***No*** | NAD (by CVES) by Miguel Orozco on 03/14/14 |
| **Location:** Stucco / Exterior | | | |
| **Analyst Description:** Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Non-fibrous 100 % | | | |
| 15 | 914031348-15.1 | ***No*** | NAD (by CVES) by Miguel Orozco on 03/14/14 |
| **Location:** Stucco / Exterior | | | |
| **Analyst Description:** White, Heterogeneous, Non-Fibrous, Cementitious, Skim Coat | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Non-fibrous 100 % | | | |
| 15 | 914031348-15.2 | ***No*** | NAD (by CVES) by Miguel Orozco on 03/14/14 |
| **Location:** Stucco / Exterior | | | |
| **Analyst Description:** Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Non-fibrous 100 % | | | |

See Reporting notes on last page

# PLM Bulk Asbestos Report

Yasmin Tong Consulting; 4716 Peck Rd.

| Client No. / HGA | Lab No. | Asbestos Present | Total % Asbestos |
|---|---|---|---|
| 16 | 914031348-16.1 | ***No*** | NAD (by CVES) by Miguel Orozco on 03/14/14 |
| **Location:** Stucco / Exterior | | | |
| **Analyst Description:** White, Heterogeneous, Non-Fibrous, Cementitious, Skim Coat | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Non-fibrous 100 % | | | |
| 16 | 914031348-16.2 | ***No*** | NAD (by CVES) by Miguel Orozco on 03/14/14 |
| **Location:** Stucco / Exterior | | | |
| **Analyst Description:** Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Non-fibrous 100 % | | | |
| 17 | 914031348-17 | ***Yes*** | 5 % (by CVES) by Miguel Orozco on 03/14/14 |
| **Location:** Ducting Mastic / Exterior | | | |
| **Analyst Description:** Grey/Black, Homogeneous, Non-Fibrous, Bulk Material | | | |
| **Asbestos Types:** Chrysotile 5.0 % | | | |
| **Other Material:** Non-fibrous 95 % | | | |
| 18 | 914031348-18 | ***Yes*** | 5 % (by CVES) by Miguel Orozco on 03/14/14 |
| **Location:** Grey Penetration Mastic / Exterior | | | |
| **Analyst Description:** Grey/Black, Homogeneous, Non-Fibrous, Bulk Material | | | |
| **Asbestos Types:** Chrysotile 5.0 % | | | |
| **Other Material:** Non-fibrous 95 % | | | |
| 19 | 914031348-19 | ***No*** | NAD (by CVES) by Miguel Orozco on 03/14/14 |
| **Location:** Blk Roofing Mastic / Exterior | | | |
| **Analyst Description:** Black, Homogeneous, Non-Fibrous, Bulk Material | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Cellulose 5 %, Non-fibrous 95 % | | | |
| 20 | 914031348-20 | ***No*** | NAD (by CVES) by Miguel Orozco on 03/14/14 |
| **Location:** Roof Core (Grey Roll - On) Exterior | | | |
| **Analyst Description:** Brown/Black, Heterogeneous, Fibrous, Bulk Material | | | |
| **Asbestos Types:** | | | |
| **Other Material:** Cellulose 10 %, Fibrous glass 2 %, Non-fibrous 88 % | | | |

See Reporting notes on last page

# PLM Bulk Asbestos Report

Yasmin Tong Consulting; 4716 Peck Rd.

| Client No. / HGA | Lab No. | Asbestos Present | Total % Asbestos |
|---|---|---|---|
| 21 | 914031348-21 | ***No*** | NAD<br>(by CVES)<br>by Miguel Orozco<br>on 03/14/14 |

**Location:** Roof Core (Brown Roll - On) Exterior

**Analyst Description:** Grey/Black, Heterogeneous, Fibrous, Bulk Material
**Asbestos Types:**
**Other Material:** Fibrous glass 10 %, Non-fibrous 90 %

**Reporting Notes:**
Analyzed By: Miguel Orozco _____; Date Analyzed: 3/14/2014 3/14/14
*NAD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; NVA = No Visible Asbestos; PLM (polarized light microscopy) Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0, CA ELAP lab #2322); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This PLM report relates ONLY to the items tested.
Reviewed By: _____ 3/14/14

PACIFIC ENVIRONMENTAL

| | |
|---|---|
| Date: | 3/6/14 |
| Client: | Yasmin Jans Consult. |
| Site: | 4716 Peck Rd. |
| Project No: | |
| Inspector(s): | D.T. |

4

ASBESTOS BULK SAMPLE FIELD LOG AND CHAIN OF CUSTODY 914031348

| Sample Number | Material Sampled | Sample Location | Condition |
|---|---|---|---|
| 01 | 12"x12" Peel'n' Stick Wood Grain VFT | office | G |
| 02 | 12" x12" Lht. VFT | Waiting | D |
| 03 | 12" x12" Peel 'n' Stick wood Grain VFT | Reception | G |
| 04 | Drywall | ⊥ | D |
| 05 | ⊥ | Storage 2 | G |
| 06 | | office | G |
| 07 | Joint Compound | Reception | G |
| 08 | ⊥ | Storage 2 | G |
| 09 | | office | G |
| 10 | Plaster | Toilet | D |
| 11 | ⊥ | ⊥ | ⊥ |
| 12 | Roof Composite | Exterior | G |
| 13 | Stucco Vapor Barrier Paper | \| | \| |
| ~~13~~14 | Stucco | \| | \| |
| 15 | ⊥ | \| | \| |
| 16 | | \| | \| |
| 17 | Ductwrap Mastic | \| | 10□ |
| 18 | Grey Penetration Mastic | \| | |
| 19 | D/K. Roofing Mastic | \| | |
| 20 | ~~Roof~~ Roof Cove (Grey Roll-On) | \| | |
| 21 | ⊥ (Brown Roll-On) | \| | ≡ 400□ |
| | | | |
| | | | |
| | | | |

Analytical Method: PLM

Turn Around Time: Standard

Please fax results to (714)776-3500 and mail to:

Pacific Environmental Company
28202 Cabot Road, Suite 300
Laguna Niguel, CA 92677

CHAIN OF CUSTODY:

| Date/Time | Name | Signature |
|---|---|---|
| 3/6/14 | David Tillema | |
| | | |

3/10/14 @ 12:30

# Appendix C

Paint Chip Laboratory Analysis Report

**AmeriSci Los Angeles**
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

**AmeriSci Job #:** 414031105

**Date Received:** 03/10/14
**Date Analyzed:** 03/11/14

## Lead Analysis Results

Paint

EPA Method 3050B/7000B

**Pacific Environmental Company**

Laguna Niguel, CA

Job Site: El Monte, CA; Yasmin Tong Consultants; 4712 Peck Rd. El Monte CA

| AmeriSci # 414031105 | Client Number | Sample Location | % Lead (w/w) | Lead Content (mg/kg = ppm) |
|---|---|---|---|---|
| 01 | PB-01 | Paint Chip / Exterior "A" Wall | 7.4 | 74,000 |
| 02 | PB-02 | Paint Chip / Exterior "A" Joist | 2.1 | 21,000 |
| 03 | PB-03 | Paint Chip / Exterior "B" Wall | 4.2 | 42,000 |
| 04 | PB-04 | Paint Chip / Exterior "C" Wall | 6.5 | 65,000 |

AmeriSci Reporting Limit is 0.01%, or 100mg/kg prior to any dilutions due to high analyte concentrations or matrix interferences. AmeriSci does not correct sample results by the blank value. All analytical batch data met quality control criteria unless otherwise noted. CA ELAP No. 2322. AIHA Lab No. 100530.

**Reviewed by:** _____

**Analyzed by:** _____
**Minh Phung, Chemist**

**ELAP No:** CA 2322

PACIFIC ENVIRONMENTAL

| | |
|---|---|
| Date: | 3/6/14 |
| Client: | Yasmin Tony Consultants |
| Site: | 4712 Peck Rd. |
| Project No: | El. Monte, CA |
| Inspector(s): | D.T. |

Lead Paint Chip

~~ASBESTOS BULK~~ SAMPLE FIELD LOG AND CHAIN OF CUSTODY 414031105

| Sample Number | Material Sampled | Sample Location | Condition |
|---|---|---|---|
| Pb-01 | Paint Chip | Exterior "A" wall | D |
| Pb-02 | | "A" Joist. | I |
| Pb-03 | | "B" wall | |
| Pb-04 | | "C" wall | |

Analytical Method: ~~[illegible]~~ Lead Paint Chip AA

Turn Around Time: Standard

Please fax results to (714)776-3500 and mail to:

Pacific Environmental Company
28202 Cabot Road, Suite 300
Laguna Niguel, CA 92677

CHAIN OF CUSTODY:

| Date/Time | Name | Signature |
|---|---|---|
| 3/6/14 | David Tillema | [signature] |
| | | |

3/10/14 @ 12:35

**AmeriSci Los Angeles**
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

**AmeriSci Job #:** 414031106

**Date Received:** 03/10/14
**Date Analyzed:** 03/11/14

## Lead Analysis Results

Paint

EPA Method 3050B/7000B

**Pacific Environmental Company**

Laguna Niguel, CA

Job Site: Yasmin Tong Consultants; 4716 Peck Rd.

| AmeriSci # 414031106 | Client Number | Sample Location | % Lead (w/w) | Lead Content (mg/kg = ppm) |
|---|---|---|---|---|
| 01 | PB-01 | Wht. Paint On "C" Exterior Wall (Stucco) / "C" Exterior Wall | 0.18 | 1,800 |
| 02 | PB-02 | Brown Paint Chip / "D" Exterior Fascia Board | 1.9 | 19,000 |

AmeriSci Reporting Limit is 0.01%, or 100mg/kg prior to any dilutions due to high analyte concentrations or matrix interferences. AmeriSci does not correct sample results by the blank value. All analytical batch data met quality control criteria unless otherwise noted. CA ELAP No. 2322. AIHA Lab No. 100530.

**Reviewed by:** _____

**Analyzed by:** _____
**Minh Phung, Chemist**

**ELAP No:** CA 2322

2

PACIFIC ENVIRONMENTAL

| | |
|---|---|
| Date: | 3/6/14 |
| Client: | Yasmin Tong Consult. |
| Site: | 4716 Peck Rd. |
| Project No: | |
| Inspector(s): | D.T. |

Paint Chip

~~ASBESTOS BULK~~ SAMPLE FIELD LOG AND CHAIN OF CUSTODY 414031106

| Sample Number | Material Sampled | Sample Location | Condition |
|---|---|---|---|
| Pb-01 | Wht. Paint on "C" Exterior wall (stucco) | "C" Exterior wall | D |
| Pb-02 | Brown Paint Chip | "D" Exterior Fascia Board | L |
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Analytical Method: ~~PEM~~ AH

Turn Around Time: Standard

Please fax results to (714)776-3500 and mail to:

Pacific Environmental Company
28202 Cabot Road, Suite 300
Laguna Niguel, CA 92677

CHAIN OF CUSTODY:

| Date/Time | Name | Signature |
|---|---|---|
| 3/6/14 | David Tillema | [signature] |
| | | |

3/10/14 @ 12:35

# Appendix D

CDPH Form 8552

# LEAD HAZARD EVALUATION REPORT

**Section 1 — Date of Lead Hazard Evaluation** 3/6/2014

**Section 2 — Type of Lead Hazard Evaluation (Check one box only)**

☑ Lead Inspection ☐ Risk assessment ☐ Clearance Inspection ☐ Other (specify) _____

**Section 3 — Structure Where Lead Hazard Evaluation Was Conducted**

| Address [number, street, apartment (if applicable)] | City | County | Zip Code |
|---|---|---|---|
| 4712-4716 Peck Road | El Monte | Los Angeles | 91732 |

| Construction date (year) of structure | Type of structure (check one box only) |
|---|---|
| pre 1978 | ☐ Multi-unit building ☐ School or daycare ☐ Single family dwelling<br>☑ Other (specify) Dwelling and Tire Store |

**Section 4 — Owner of Structure (if business/agency, list contact person)**

| Name | Telephone number |
|---|---|
| HCHC | 323-469-0710 |

| Address [number, street, apartment (if applicable)] | City | State | Zip Code |
|---|---|---|---|
| 5020 Santa Monica Blvd. | Los Angeles | CA | 90029 |

**Section 5 — Results of Lead Hazard Evaluation (check all that apply)**

☐ No lead-based paint detected. ☑ Lead-based paint detected.

☐ No lead hazards detected. ☐ Lead hazards detected.

**Section 6 — Individual Conducting Lead Hazard Evaluation**

| Name | Telephone number |
|---|---|
| David Tillema | 800.303.6484 |

| Address [number, street, apartment (if applicable)] | City | State | Zip Code |
|---|---|---|---|
| 28202 Cabot Road #300 | Laguna Niguel | CA | 92677 |

| CDPH certification number | Signat | Date |
|---|---|---|
| 17740 | | 3/12/2014 |

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

**Section 7 — Attachments**

A. A foundation diagram or sketch of the structure indicating the specifc locations of each lead hazard or presence of lead-based paint;
B. Each testing method, device, and sampling procedure used;
C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

*First copy and attachments retained by inspector*

*Second copy and attachments retained by owner*

*Third copy only (no attachments) mailed or faxed to:*

California Department of Public Health
Childhood Lead Poisoning Prevention Branch Reports
850 Marina Bay Parkway, Building P, Third Floor
Richmond, CA 94804-6403
Fax: (510) 620-5656

# Asbestos and Lead Abatement Workplan

## 4712-4716 Peck Road
## El Monte, California 91732

Prepared for:

**Hollywood Community Housing Corporation**
5020 Santa Monica Boulevard
Los Angeles, California 90029

Prepared by:

**Pacific Environmental Company**
28202 Cabot Road, Suite 300
Laguna Niguel, California 92677

May 20, 2014

Project Number 14040

Asbestos and Lead Abatement Workplan

4712-4716 Peck Road
El Monte, California 91732

## Background

Hollywood Community Housing Corporation is requesting proposals from qualified hazardous materials abatement contractors for the removal of asbestos-containing materials and defective lead-based paints in anticipation of the demolition of the structures located at 4712 and 4716 Peck Road in El Monte, California.

We have completed and Asbestos and Lead-Based Paint Survey Report for the site in March 2014 and the report is attached for your reference.

The contractor's responsibilities will include the following key components:

- Asbestos and Lead Abatement
- Notifications to all appropriate agencies
- All permits, fees and other incidentals required to carry out the specified work
- Inspections if required

## Discrepancies

1. Each bidder shall visit the site of the proposed work and fully acquaint himself with the conditions relating to the construction and labor so that he may fully understand the facilities, difficulties, and restrictions attending the execution of the work under the contract. Bidders shall thoroughly examine and be familiar with the Contract Documents including any drawings and/or specifications. The failure or omission of any bidder to receive or examine any contract document, form, instrument, addenda, or other document, or to visit the site and acquaint himself with the conditions there existing shall not relieve any bidder from any obligations with respect to his bid or to the contract. The submission of a bid shall be taken as prima facie evidence of compliance with this section.

2. If, during the bidding period, a bidder observes errors, discrepancies, ambiguities or omissions in, or requires clarification as to the meaning of the Contract Documents, he immediately informs the Owner who in turn will send written addenda to all prospective bidders.

3. Requests for clarification's will be made to the Owner's offices.

4. Bidders communications will not receive consideration unless they are received by the Owner at least two days prior to the day bids are due and the Owner will not issue addenda later than one day preceding the day bids are due.

5. Neither the Owner nor Owner's Representative will be responsible for oral explanations and instructions.

6. The contents of all addenda shall become part of the Contract Documents.

7. Bidders are responsible for verification of quantities, change orders will not be approved on the basis of understated quantities.

## Substitutions

Bidders shall feel free to recommend substitutions of items and procedures specified, but recommendations shall be made in letter form independent of the basis lump sum bid. The recommendations shall state the corresponding changes in the base bid amount in the event recommendations are approved.

## Contract Requirements

1. Contractor shall supply the necessary materials, equipment, transportation, workers, supervisors, insurance and expertise to perform the services outlined in their bid proposal.

2. The Contractor shall base his pricing on his own take-off quantities required to perform the work. No change orders will be allowed on the basis that the quantities are considered inaccurate.

3. The Contractor shall perform all Work in compliance with the most recent edition of all applicable federal, state, and local regulations, standards and codes governing demolition, asbestos and lead abatement, transport, and disposal of asbestos and lead containing/contaminated materials.

4. Requirements include obtaining permits, licenses, inspections, releases and similar documentation, as well as payments, statements and similar requirements associated with codes, regulations, and standards.

5. In addition to the above, do all the other work as required by the Specifications, job walk and addenda.

6. Unless exempt under Business & Professions Code §7028.15, no bidder who is not licensed as a Contractor to perform the Work of the Contract shall submit a bid therefore and at the time the Contract is awarded to a bidder, the bidder shall possess a valid and in good standing California Contractors License in the Classification of ASB. In addition, no bid will be considered from a bidder who is not certified and registered in accordance with California Business & Professions Code §7058.5 and California Labor Code §6501.5 to perform asbestos-related work.

7. Each bidder shall submit a list of the proposed subcontractors on this project as required by the Subletting and Subcontracting Fair Practices Act.

8. In accordance with the provisions of §3700 of the Labor Code, Contractor shall secure the payment of compensation to his employees. Contractor shall sign the following certificate prior to performing the work under this contract: “I am aware of the provisions of §3700 of the Labor Code which require every employer to be insured against liability for workers’ compensation or to undertake self-insurance in accordance with the provisions of the Code, and I will comply with such provisions before

commencing the performance of the work of this contract." The form of such certificate is included as part of the contract documents.

9. The Contractor hereby assures that it will comply with Subchapter VI of the Civil Rights Act of 1964, 42 USC Sections 2000 (e) through 2000 (e) (17), to the end that no person, on the grounds of race, creed, color, sex, or national origin be excluded from participation in, be denied the benefits of, or be otherwise subject to discrimination under this Agreement or under any project, program, or activity supported by this Agreement. The Contractor agrees to comply with applicable Federal and California laws against discrimination. Additionally the Contractor agrees to require like compliance by any subcontractors employed on the work by him.

10. The Contractor hereby assures that it will comply with the Americans with Disabilities Act of 1990, 42 USC Sections 12010 et. seq., to ensure that disabled individuals shall be reasonably accommodated in accordance with the Act, and the Contractor shall not exclude from participation in, or deny the benefit of, or otherwise subject a disabled individual to discrimination under this Agreement, or under any project, program, or activity supported by this Agreement.

11. The successful Contractor shall provide Comprehensive General Liability Insurance in the amount specified at the mandatory job walk. Contractor shall name the Owner as additional insured on the liability insurance which shall be endorsed so that the Owner will receive a thirty (30) day prior written notice in the event of cancellation or material change.

## Description of Work

The scope of work for this project includes the removal of all of the asbestos-containing materials and treatment of defective lead-based paints to ensure a safe, compliant demolition project.

Based on our assessment services, the following materials were confirmed to contain greater than one percent (1%) asbestos, and are therefore classified as ACM.

| Summary of Asbestos-Containing Materials | | |
|---|---|---|
| **Material** | **Location** | **Est. Qty.** |
| **4712 Peck Road** | | |
| Transite Vent Pipe | Vent Flue | 16 LF |
| **4716 Peck Road** | | |
| Ducting Mastic | Roof Ducts | 10 SF |
| Gray Roof Penetration Mastic | Roof Penetrations | 80 SF |

Throughout the project areas, the following tested surfaces indicated the presence of LBP at or above the action level:

**Exterior**: 4712 Peck Road: Exterior Walls and Trim

4716 Peck Road: Exterior Walls and Trim

Please refer to the original survey report for further details on the survey process and results.

## Submittals

Pre-Job Submittals: Prior to commencement of work, Contractor shall submit (two copies) to Owner's Representative documentation that includes, without limitation, the following:

- Submit copies of licenses and registrations required by these specifications (include copies of subcontractors licenses).
- Submit copies of written notification to the appropriate regulatory agencies.
- Submit proof that required permits, site location and arrangements for transport and disposal of hazardous waste materials have been made.
- Submit proof of legal right to use patented equipment or processes.
- Manufacturer's certification that HEPA vacuums, differential pressure air filtration devices and other local exhaust ventilation equipment conform to ANSI Z9.2-79.
- Submit a construction schedule indicating milestones and dates of completion for each phase of the Work.
- Submit documentation that Contractor's employees, including foreman, supervisor, and any other company personnel or agents who may be exposed to airborne asbestos fibers or who may be responsible for any aspects of abatement activities, have received training as required by 29 CFR 1926.1101.
- Submit documentation from Physician that all employees or agents who may be exposed to airborne asbestos fibers in excess of background levels have received medical monitoring to determine whether they are physically capable of working while wearing the respirator required without suffering adverse health effects. The Contractor must be aware of and provide information to the examining physician about

unusual conditions in the workplace environment (e.g. high temperatures, humidity, chemical contaminants) that may impact on the employee's ability to perform work activities.

- Submit documentation of respirator fit-testing for all Contractor employees and agents who must enter the work area. This fit-testing shall be in accordance with qualitative procedures as required by OSHA regulations or be quantitative in nature.
- Submit a project specific work plan.
- Submit an emergency preparedness plan.

Ongoing Submittals: During abatement activities, Contractor shall submit to Owner's Representative documentation that includes, without limitation, the following:

- Submit copies of the work area entry/exit log book. Log book must record name, affiliation, time in, and time out for each entry into the work area.
- Submit copies of logs documenting filter changes on respirators, HEPA vacuums, differential pressure air filtration devices, water filtration device, and other engineering controls.
- Submit copies of Material Safety Data Sheets (MSDS) for solvents, encapsulants, wetting agents and replacement materials, as necessary.
- Submit results of all required OSHA air monitoring. Results shall be available prior to the start of the following shift and within 24 hours of completion of the last shift.
- Submit copies of all accident/incident reports where injury or damage has occurred on or to the Owner's property.
- Submit copies of all transport manifests, trip tickets and disposal receipts for all hazardous waste materials removed from the work area within 24 hours of the transport.

## Technical Specifications

All work shall be preformed in accordance with the guidelines of all prevailing local and state regulations including but not limited to local air quality management authority requirements (SCAQMD Rule 1403). The Contractor and all its employees shall be licensed certified and trained to perform work in California.

Contractor is required to provide written legal notification of its intent to perform asbestos and lead related work to all regulatory agencies as required. Contractor shall pay permit fees required for the work.

The Contractor shall be required to furnish and maintain on the Site as a minimum all legally required job postings include but not limited to: evidence of licensure and certificates for the Contractor and its employees. A daily supervisor’s log maintained by the on-site supervisor, daily worker sign-in logs, all workers current asbestos and lead related training certificates, medical clearance, respirator fit testing records, and notifications sent to regulatory agencies. In addition, the Contractor shall be required to provide all personal air monitoring results to the Owner and Owner’s Representative, either within five working days form the time the samples are collected or the required statutory time, whichever is less.

It is the responsibility of the Contractor to provide respiratory protection and personal protective equipment for his worker’s in accordance with all current regulations.

All asbestos abatement and lead abatement shall be conducted within regulated areas. The regulated area shall be demarcated to minimize the number of persons within the area and to protect persons outside the area from

exposure to airborne asbestos. Where critical barriers or negative pressure enclosures are used, they shall demarcate the regulated area. Access to regulated areas shall be limited to authorized persons. The Contractor shall control access to regulated areas, ensure that only authorized personnel enter, and verify that Contractor required medical surveillance, training and respiratory protection program requirements are met prior to allowing entrance.

Warning signs and tape printed in English and Spanish shall be provided at the regulated boundaries and entrances to regulated areas. The Contractor shall ensure that all personnel working in areas contiguous to regulated areas comprehend the warning signs. Signs shall be located to allow personnel to read the signs and take the necessary protective steps required before entering the area. The Master Specifications detail the procedures for completing the abatement, the following short summaries are detailed to eliminate potential confusion for classification of the affected materials and methods.

**NON-FRIABLE ASBESTOS WORK**

All asbestos abatement shall be conducted within regulated areas. The regulated area shall be demarcated to minimize the number of persons within the area and to protect persons outside the area from exposure to airborne asbestos. Where critical barriers or negative pressure enclosures are used, they shall demarcate the regulated area. Access to regulated areas shall be limited to authorized persons. The Contractor shall control access to regulated areas, ensure that only authorized personnel enter, and verify that Contractor required medical surveillance, training and respiratory protection program requirements are met prior to allowing entrance.

Warning signs and tape printed in English and Spanish shall be provided at the regulated boundaries and entrances to regulated areas. The Contractor shall ensure that all personnel working in areas contiguous to regulated areas comprehend the warning signs. Signs shall be located to allow personnel to read the signs and take the necessary protective steps required before entering the area.

Seal openings in areas where the release of airborne asbestos fibers is expected. Establish a regulated area with the use of curtains, portable partitions, or other enclosures to prevent the escape of asbestos fibers from the contaminated regulated area. Provide observation window(s) that allow a view of the entire containment area. In all possible instances, control area development shall include protective covering of walls and ceilings with a continuous membrane of one layer of minimum six-millimeter fire retardant poly sheeting (for floors and walls) and four-millimeter fire retardant poly sheeting (for ceilings) sealed with tape to prevent water or other damage. Provide two layers of six-millimeter poly sheet over floors and extend layers a minimum of 12 inches up the walls. Seal all joints with tape. Provide a local exhaust system in the regulated area. View ports shall be constructed in accordance with regional and local regulations. Openings will be allowed in enclosures of regulated areas for the supply and exhaust of air for the local exhaust system. Exhaust the negative air machines to the outside of the building. Notify the Consultant if unable to exhaust in this manner. Replace filters as required to maintain the efficiency of the system. Cleaning of items that must remain in the work area shall be done using HEPA filtered vacuuming devices and then covered with six-millimeter poly sheeting.

The removal of mastics and transite is considered OSHA Class II work. Mastics shall be removed only by wet methods.

In the event that the use of unauthorized abatement methods, equipment, or containments results in a notice of violation issued by a regulatory agency, the contractor shall be responsible for costs associated with the payment of the fine, and other legal costs that may arise as a result of the notice of violation. These costs are

not to be cause for a change order. It is assumed that the Contractors submitting bids for the abatement of materials included in these specifications are knowledgeable and proficient in regulations applicable to their industry. All materials removed shall be wrapped in two layers of six-millimeter plastic or double bagged and sealed with tape. Assure that all bundles and bags are labeled and disposed of complying with waste disposal instructions for asbestos containing waste.

All ACM waste including contaminated wastewater filters, scrap, debris, bags, containers, equipment, and asbestos contaminated clothing, shall be collected and placed in leak-tight containers such as double plastic bags; sealed double wrapped polyethylene sheet: or other approved containers. Waste within the containers shall be wetted in case the container is breeched. Asbestos-containing waste shall be disposed of at an EPA, state and local approved asbestos landfill. For temporary storage, sealed impermeable containers shall be stored in an asbestos waste load-out unit or in a storage/transportation conveyance (i.e., dumpster, roll-off waste boxes, etc.) in a manner acceptable to and in an area assigned by the Owner's Representative. Procedure for hauling and disposal shall comply with 40 CFR 61, Subpart M, state, regional, and local standards.

The Contractor shall complete and provide the Owner's Representative final completed copies of the Waste Shipment Record for all shipments of waste material as specified in 40 CFR 61, Subpart M and other required state waste manifest shipment records, within 3 days of delivery to the landfill. Each Waste Shipment Record shall be signed and dated by the Contractor, Owner's Representative, the waste transporter and disposal facility operator.

Upon completion of abatement, the regulated area shall be cleaned by collecting, packing, and storing all gross contamination. A final cleaning shall be performed using HEPA vacuum and wet cleaning of all exposed surfaces and objects in the regulated area. Upon completion of the cleaning, the Contractor shall conduct a visual pre-inspection of the cleaned area in preparation for a final inspection before final air clearance monitoring and recleaning, as necessary. Upon completion of the final cleaning, the Contractor shall conduct a final visual inspection of the cleaned regulated area in accordance with ASTM E 1368 and document the results.

Prior to final clearance inspection and removal of plastic barriers and after clean-up of gross contamination and final visual inspection, a post removal (lockdown) encapsulant shall be spray applied to surfaces in the regulated area. Prior to conducting final clearance inspections, the Contractor and the Owner's Representative shall conduct a final visual inspection of the regulated area where asbestos abatement has been completed.

## LBP REMOVAL

All of the identified lead hazards are to be removed to facilitate the demolition, this includes treatment of defective paints prior to demolition.

### Work Area Preparation and Coordination

A. All defective lead-containing paint will be removed back to a clean surface. With the owner's approval, the Contractor may remove intact architectural components with intact paint (i.e., paint not exhibiting cracking, peeling, delamination, or deterioration) for disposal (check with Owner regarding project significance to determine which components can not be removed and that must be treated).

B. Where paint has been removed from a substrate material, the substrate shall be cleaned of all lead paint, to the satisfaction of the Consultant.

C. A HEPA filtered vacuum shall be utilized for the clean up of lead based paint chips and associated debris.

D. The Contractor shall adhere to all applicable Federal, State and local regulations, specifically but not limited to:

- Chapter 12: Abatement, "Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing," U.S. Department of Housing and Urban Development, June 1995, if the abatement is designed to reduce lead paint or lead hazards for a minimum of twenty years; or

- Chapter 11: Interim Controls, "Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing," U.S. Department of Housing and Urban Development, June 1995, if the abatement is designed to reduce lead paint or lead hazards for less than twenty years.

**Work Requiring Containment**

A. Contractor shall establish emergency and fire exits from the work area. Approved fire extinguisher (Class ABC, multi-purpose, dry chemical type, rated: 4A; 6OBC) shall be readily available to workers (maximum travel distance of 50 feet) inside and adjacent to work area(s). Personnel and emergency exits shall be clearly indicated on the inside of the containment area. The emergency exit plan shall be approved by the Consultant prior to starting setup of containment system.

B. Contractor shall post entrances to the work area with signs, clearly visible from twenty (20) feet, reading:

**DANGER**
**LEAD PAINT ABATEMENT**
**AUTHORIZED PERSONNEL ONLY**
**RESPIRATORS AND PROTECTIVE CLOTHING**
**ARE REQUIRED IN THIS AREA**

Postings shall be in English and Spanish, and in any language used by any of Contractor's employees as the primary language of communication.

**Personnel Protection**

A. Contractor shall furnish and require the employees to wear the following minimum protective equipment:

1. Coveralls or similar whole body clothing.

2. Head covers (may be part of the coveralls).

3. Foot covers (may be part of the coveralls). Non-disposable footwear shall be left in the work area until it is disposed of at the completion of the job.

4. Gloves appropriate to the work being performed. Non-disposable gloves shall be left in the work area until they are disposed of at the completion of the job.

5. Respiratory Protection

   a. Respiratory protection approved by NIOSH for protection against lead. Contractor shall provide minimum of half face negative pressure respirator with P100 filters.

B. Workers shall not eat, drink, smoke, chew gum, or tobacco in the containment area.

C. Contractor shall provide personnel protective equipment as above for any representative of the Owner who visits the work site.

**Clearance Criteria**

A. Criteria for clearance will consist of visual observation(s) conducted by the Consultant. Dust wipe sampling, with clearance levels referenced to HUD clearance standards (Chapter 15 of the Guidelines), will also be conducted.

B. Area air monitoring during abatement may be performed based on the consultant’s observations of the

abatement work practices, or if requested by the Owner.

**Documentation**

A. Contractor shall maintain and make available to Owner and the Consultant upon request, the following at the job site at all times:

1. Postings as required by regulations and this Section
2. MSDS for all products containing hazardous substances.
3. Copies of all waste manifests and waste identification notice and certification.

**Lead-Containing Paints**

A. The Contractor shall utilize state of the art work practices, while disturbing lead- containing paints, in accordance with applicable federal, HUD (Chapter 12 of the Guidelines), and Cal-OSHA regulations.

All waste generated from any lead related work must be properly profiled and disposed of. Waste manifests documenting the disposal site will need to be submitted at the end of the project.

# APPENDIX G: NOISE MONITORING DATA

Aerial Source: Google Earth, 2014

PARKER ENVIRONMENTAL CONSULTANTS

Figure II-7
Noise Monitoring and
Sensitive Receptor Location Map

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Summary** | | | | | | | |
| **Filename** | 831_Data.027 | | | | | | |
| **Serial Number** | 3748 | | | | | | |
| **Model** | Model 831 | | | | | | |
| **Firmware Version** | 2.300 | | | | | | |
| **User** | Jennifer Kelley | | | | | | |
| **Location** | **Location 1** | | | | | | |
| **Job Description** | Palo Verde Apartments | | | | | | |
| **Note** | | | | | | | |
| **Measurement Description** | | | | | | | |
| **Start** | 2014/12/09 11:34:30 | | | | | | |
| **Stop** | 2014/12/09 11:49:30 | | | | | | |
| **Duration** | 0:15:00.0 | | | | | | |
| **Run Time** | 0:15:00.0 | | | | | | |
| **Pause** | 0:00:00.0 | | | | | | |
| | | | | | | | |
| **Pre Calibration** | 2014/12/09 11:19:30 | | | | | | |
| **Post Calibration** | None | | | | | | |
| **Calibration Deviation** | --- | | | | | | |
| | | | | | | | |
| **Overall Settings** | | | | | | | |
| **RMS Weight** | A Weighting | | | | | | |
| **Peak Weight** | Z Weighting | | | | | | |
| **Detector** | Slow | | | | | | |
| **Preamp** | PRM831 | | | | | | |
| **Microphone Correction** | Off | | | | | | |
| **Integration Method** | Linear | | | | | | |
| **Gain** | 0.0 dB | | | | | | |
| **Overload** | 143.6 dB | | | | | | |
| | **A** | **C** | **Z** | | | | |
| **Under Range Peak** | 76.0 | 73.0 | **78.0** dB | | | | |
| **Under Range Limit** | **26.2** | 26.5 | 32.0 dB | | | | |
| **Noise Floor** | 17.1 | 17.4 | 22.6 dB | | | | |
| | | | | | | | |
| **Results** | | | | | | | |
| **LAeq** | 60.8 dB | | | | | | |
| **LAE** | 90.4 dB | | | | | | |
| **EA** | 120.621 µPa²h | | | | | | |
| **LZpeak (max)** | 2014/12/09 11:44:52 | 99.8 dB | | | | | |
| **LASmax** | 2014/12/09 11:39:00 | 73.6 dB | | | | | |
| **LASmin** | 2014/12/09 11:42:08 | 42.7 dB | | | | | |
| **SEA** | -99.9 dB | | | | | | |
| | | | | | | | |
| **LAS > 65.0 dB (Exceedence Counts / Duration)** | 22 | 88.6 s | | | | | |
| **LAS > 85.0 dB (Exceedence Counts / Duration)** | 0 | 0.0 s | | | | | |
| **LZpeak > 135.0 dB (Exceedence Counts / Durati** | 0 | 0.0 s | | | | | |
| **LZpeak > 137.0 dB (Exceedence Counts / Durati** | 0 | 0.0 s | | | | | |
| **LZpeak > 140.0 dB (Exceedence Counts / Durati** | 0 | 0.0 s | | | | | |
| | | | | | | | |
| **Community Noise** | **Ldn** | **Day 07:00-22:00** | **LNight 22:00-07:0** | **Lden** | **LDay 07:00-19:0** | **LEvening 19:00-22:0** | **LNight 22:00-07:0** |
| | 60.8 | 60.8 | -99.9 | 60.8 | 60.8 | -99.9 | -99.9 |
| **LCeq** | 70.1 dB | | | | | | |
| **LAeq** | 60.8 dB | | | | | | |
| **LCeq - LAeq** | 9.3 dB | | | | | | |
| **LAIeq** | 63.3 dB | | | | | | |
| **LAeq** | 60.8 dB | | | | | | |
| **LAIeq - LAeq** | 2.5 dB | | | | | | |
| **# Overloads** | 0 | | | | | | |
| **Overload Duration** | 0.0 s | | | | | | |
| | | | | | | | |
| **Statistics** | | | | | | | |
| **LAS5.00** | 66.5 dB | | | | | | |
| **LAS10.00** | 63.9 dB | | | | | | |
| **LAS33.30** | 59.8 dB | | | | | | |
| **LAS50.00** | 58.1 dB | | | | | | |
| **LAS66.60** | 56.0 dB | | | | | | |
| **LAS90.00** | 49.5 dB | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Summary** | | | | | | | |
| **Filename** | 831_Data.029 | | | | | | |
| **Serial Number** | 3748 | | | | | | |
| **Model** | Model 831 | | | | | | |
| **Firmware Version** | 2.300 | | | | | | |
| **User** | Jennifer Kelley | | | | | | |
| **Location** | **Location 2** | | | | | | |
| **Job Description** | Palo Verde Apartments | | | | | | |
| **Note** | | | | | | | |
| **Measurement Description** | | | | | | | |
| **Start** | 2014/12/09 11:52:09 | | | | | | |
| **Stop** | 2014/12/09 12:07:09 | | | | | | |
| **Duration** | 0:15:00.0 | | | | | | |
| **Run Time** | 0:15:00.0 | | | | | | |
| **Pause** | 0:00:00.0 | | | | | | |
| | | | | | | | |
| **Pre Calibration** | 2014/12/09 11:19:30 | | | | | | |
| **Post Calibration** | None | | | | | | |
| **Calibration Deviation** | --- | | | | | | |
| | | | | | | | |
| **Overall Settings** | | | | | | | |
| **RMS Weight** | A Weighting | | | | | | |
| **Peak Weight** | Z Weighting | | | | | | |
| **Detector** | Slow | | | | | | |
| **Preamp** | PRM831 | | | | | | |
| **Microphone Correction** | Off | | | | | | |
| **Integration Method** | Linear | | | | | | |
| **Gain** | 0.0 dB | | | | | | |
| **Overload** | 143.6 dB | | | | | | |
| | **A** | **C** | **Z** | | | | |
| **Under Range Peak** | 76.0 | 73.0 | **78.0** dB | | | | |
| **Under Range Limit** | **26.2** | 26.5 | 32.0 dB | | | | |
| **Noise Floor** | 17.1 | 17.4 | 22.6 dB | | | | |
| | | | | | | | |
| **Results** | | | | | | | |
| **LAeq** | 69.2 dB | | | | | | |
| **LAE** | 98.8 dB | | | | | | |
| **EA** | 837.397 µPa²h | | | | | | |
| **LZpeak (max)** | 2014/12/09 11:52:33 | 106.8 dB | | | | | |
| **LASmax** | 2014/12/09 11:52:36 | 81.8 dB | | | | | |
| **LASmin** | 2014/12/09 11:57:43 | 49.5 dB | | | | | |
| **SEA** | -99.9 dB | | | | | | |
| | | | | | | | |
| **LAS > 65.0 dB (Exceedence Counts / Duration)** | 22 | 687.7 s | | | | | |
| **LAS > 85.0 dB (Exceedence Counts / Duration)** | 0 | 0.0 s | | | | | |
| **LZpeak > 135.0 dB (Exceedence Counts / Durati** | 0 | 0.0 s | | | | | |
| **LZpeak > 137.0 dB (Exceedence Counts / Durati** | 0 | 0.0 s | | | | | |
| **LZpeak > 140.0 dB (Exceedence Counts / Durati** | 0 | 0.0 s | | | | | |
| | | | | | | | |
| **Community Noise** | **Ldn** | **Day 07:00-22:00** | **LNight 22:00-07:0** | **Lden** | **LDay 07:00-19:0** | **LEvening 19:00-22:0** | **LNight 22:00-07:00** |
| | 69.2 | 69.2 | -99.9 | 69.2 | 69.2 | -99.9 | -99.9 |
| **LCeq** | 78.6 dB | | | | | | |
| **LAeq** | 69.2 dB | | | | | | |
| **LCeq - LAeq** | 9.4 dB | | | | | | |
| **LAIeq** | 70.6 dB | | | | | | |
| **LAeq** | 69.2 dB | | | | | | |
| **LAIeq - LAeq** | 1.4 dB | | | | | | |
| **# Overloads** | 0 | | | | | | |
| **Overload Duration** | 0.0 s | | | | | | |
| | | | | | | | |
| **Statistics** | | | | | | | |
| **LAS5.00** | 73.5 dB | | | | | | |
| **LAS10.00** | 72.0 dB | | | | | | |
| **LAS33.30** | 69.2 dB | | | | | | |
| **LAS50.00** | 67.7 dB | | | | | | |
| **LAS66.60** | 65.7 dB | | | | | | |
| **LAS90.00** | 60.6 dB | | | | | | |

| | |
|---|---|
| **Summary** | |
| **Filename** | 831_Data.032 |
| **Serial Number** | 3748 |
| **Model** | Model 831 |
| **Firmware Version** | 2.300 |
| **User** | Jennifer Kelley |
| **Location** | **Location 3**<br>Palo Verde |
| **Job Description** | Apartments |
| **Note** | |
| **Measurement Description** | |
| **Start** | 2014/12/09 12:12:07 |
| **Stop** | 2014/12/09 12:27:07 |
| **Duration** | 0:15:00.0 |
| **Run Time** | 0:15:00.0 |
| **Pause** | 0:00:00.0 |
| | |
| **Pre Calibration** | 2014/12/09 11:19:30 |
| **Post Calibration** | None |
| **Calibration Deviation** | --- |
| | |
| **Overall Settings** | |
| **RMS Weight** | A Weighting |
| **Peak Weight** | Z Weighting |
| **Detector** | Slow |
| **Preamp** | PRM831 |
| **Microphone Correction** | Off |
| **Integration Method** | Linear |
| **Gain** | 0.0 dB |
| **Overload** | 143.6 dB |

| | **A** | **C** | **Z** |
|---|---|---|---|
| **Under Range Peak** | 76.0 | 73.0 | **78.0** dB |
| **Under Range Limit** | **26.2** | 26.5 | 32.0 dB |
| **Noise Floor** | 17.1 | 17.4 | 22.6 dB |

| | | |
|---|---|---|
| **Results** | | |
| **LAeq** | 71.3 dB | |
| **LAE** | 100.8 dB | |
| **EA** | 1.337 mPa²h | |
| **LZpeak (max)** | 2014/12/09 12:20:12 | 105.5 dB |
| **LASmax** | 2014/12/09 12:20:13 | 82.7 dB |
| **LASmin** | 2014/12/09 12:24:15 | 50.7 dB |
| **SEA** | -99.9 dB | |
| | | |
| **LAS > 65.0 dB (Exceedence Counts / Duration)** | 24 | 703.0 s |
| **LAS > 85.0 dB (Exceedence Counts / Duration)** | 0 | 0.0 s |
| **LZpeak > 135.0 dB (Exceedence Counts / Duration)** | 0 | 0.0 s |
| **LZpeak > 137.0 dB (Exceedence Counts / Duration)** | 0 | 0.0 s |
| **LZpeak > 140.0 dB (Exceedence Counts / Duration)** | 0 | 0.0 s |

| **Community Noise** | **Ldn** | **LDay 07:00-22:00** | **LNight 22:00-07:00** | **Lden** | **LDay 07:00-19:00** | **LEvening 19:00-22:00** | **LNight 22:00-07:00** |
|---|---|---|---|---|---|---|---|
| | 71.3 | 71.3 | -99.9 | 71.3 | 71.3 | -99.9 | -99.9 |

| | |
|---|---|
| **LCeq** | 77.7 dB |
| **LAeq** | 71.3 dB |
| **LCeq - LAeq** | 6.5 dB |
| **LAIeq** | 72.9 dB |
| **LAeq** | 71.3 dB |
| **LAIeq - LAeq** | 1.6 dB |
| **# Overloads** | 0 |
| **Overload Duration** | 0.0 s |
| | |
| **Statistics** | |
| **LAS5.00** | 76.4 dB |
| **LAS10.00** | 75.1 dB |
| **LAS33.30** | 71.5 dB |
| **LAS50.00** | 68.9 dB |
| **LAS66.60** | 66.3 dB |
| **LAS90.00** | 60.5 dB |

| | | | |
|---|---|---|---|
| **Summary** | | | |
| **Filename** | 831_Data.033 | | |
| **Serial Number** | 3748 | | |
| **Model** | Model 831 | | |
| **Firmware Version** | 2.300 | | |
| **User** | Jennifer Kelley | | |
| **Location** | **Location 4** | | |
| **Job Description** | Palo Verde Apartments | | |
| **Note** | | | |
| **Measurement Description** | | | |
| **Start** | 2014/12/09 12:28:31 | | |
| **Stop** | 2014/12/09 12:43:31 | | |
| **Duration** | 0:15:00.0 | | |
| **Run Time** | 0:15:00.0 | | |
| **Pause** | 0:00:00.0 | | |
| | | | |
| **Pre Calibration** | 2014/12/09 11:19:30 | | |
| **Post Calibration** | None | | |
| **Calibration Deviation** | --- | | |
| | | | |
| **Overall Settings** | | | |
| **RMS Weight** | A Weighting | | |
| **Peak Weight** | Z Weighting | | |
| **Detector** | Slow | | |
| **Preamp** | PRM831 | | |
| **Microphone Correction** | Off | | |
| **Integration Method** | Linear | | |
| **Gain** | 0.0 dB | | |
| **Overload** | 143.6 dB | | |
| | **A** | **C** | **Z** |
| **Under Range Peak** | 76.0 | 73.0 | **78.0** dB |
| **Under Range Limit** | **26.2** | 26.5 | 32.0 dB |
| **Noise Floor** | 17.1 | 17.4 | 22.6 dB |
| | | | |
| **Results** | | | |
| **LAeq** | 53.7 dB | | |
| **LAE** | 83.2 dB | | |
| **EA** | 23.346 µPa²h | | |
| **LZpeak (max)** | 2014/12/09 12:43:14 | 92.4 dB | |
| **LASmax** | 2014/12/09 12:43:15 | 64.2 dB | |
| **LASmin** | 2014/12/09 12:40:08 | 43.9 dB | |
| **SEA** | -99.9 dB | | |
| | | | |
| **LAS > 65.0 dB (Exceedence Counts / Duration)** | 0 | 0.0 s | |
| **LAS > 85.0 dB (Exceedence Counts / Duration)** | 0 | 0.0 s | |
| **LZpeak > 135.0 dB (Exceedence Counts / Duration)** | 0 | 0.0 s | |
| **LZpeak > 137.0 dB (Exceedence Counts / Duration)** | 0 | 0.0 s | |
| **LZpeak > 140.0 dB (Exceedence Counts / Duration)** | 0 | 0.0 s | |

| **Community Noise** | **Ldn** | **LDay 07:00-22:00** | **LNight 22:00-07:00** | **Lden** | **LDay 07:00-19:00** | **LEvening 19:00-22:00** | **LNight 22:00-07:00** |
|---|---|---|---|---|---|---|---|
| | 53.7 | 53.7 | -99.9 | 53.7 | 53.7 | -99.9 | -99.9 |

| | |
|---|---|
| **LCeq** | 67.7 dB |
| **LAeq** | 53.7 dB |
| **LCeq - LAeq** | 14.0 dB |
| **LAIeq** | 55.5 dB |
| **LAeq** | 53.7 dB |
| **LAIeq - LAeq** | 1.8 dB |
| **# Overloads** | 0 |
| **Overload Duration** | 0.0 s |
| | |
| **Statistics** | |
| **LAS5.00** | 58.2 dB |
| **LAS10.00** | 56.8 dB |
| **LAS33.30** | 53.5 dB |
| **LAS50.00** | 52.2 dB |
| **LAS66.60** | 50.8 dB |
| **LAS90.00** | 48.2 dB |

## OFF-SITE TRAFFIC NOISE LEVELS

**Project Name:** El Monte Palo Verde
**Date:** 12/15/14

### Background Information

| | |
|---|---|
| Model Description: | FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels. |
| Analysis Scenario(s): | Existing, Future without project, and and Future with Project |
| Source of Traffic Volumes: | Palo Verde Project Traffic Study, KOA Corp, 12/10/2014 |
| Community Noise Descriptor: | $L_{dn}$: _____ CNEL: X |

| Assumed 24-Hour Traffic Distribution: | Day | Evening | Night |
|---|---|---|---|
| Total ADT Volumes | 77.70% | 12.70% | 9.60% |
| Medium-Duty Trucks | 87.43% | 5.05% | 7.52% |
| Heavy-Duty Trucks | 89.10% | 2.84% | 8.06% |

### Traffic Noise Levels

| Analysis Condition<br>Roadway Name<br>Roadway Segment | Land Use | Lanes | Median Width | Peak Hour Volume | ADT Volume | Design Speed (mph) | Dist. from Center to Receptor[1] | Alpha Factor | Barrier Attn. dB(A) | Vehicle Mix Medium Trucks | Vehicle Mix Heavy Trucks | Peak Hour dB(A) $L_{eq}$ | 24-Hour dB(A) CNEL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Existing (2014) Traffic Volumes** | | | | | | | | | | | | | |
| AM PEAK HOUR | | | | | | | | | | | | | |
| 1. Peck Road and Ranchito Street | | 4 | 0 | 2,573 | 19,812 | 35 | 40 | 0 | 0 | 1.8% | 0.7% | 71.1 | 69.2 |
| 2. Peck Road and Lower Azuza Road | | 4 | 0 | 7,286 | 56,102 | 35 | 40 | 0 | 0 | 1.8% | 0.7% | 75.6 | 73.7 |
| 3. Peck Road and Ramona Blvd | | 4 | 0 | 7,088 | 54,578 | 35 | 40 | 0 | 0 | 1.8% | 0.7% | 75.5 | 73.6 |
| **Existing (2014) Traffic Volumes** | | | | | | | | | | | | | |
| PM PEAK HOUR | | | | | | | | | | | | | |
| 1. Peck Road and Ranchito Street | | 4 | 0 | 2,612 | 20,112 | 35 | 40 | 0 | 0 | 1.8% | 0.7% | 71.1 | 69.2 |
| 2. Peck Road and Lower Azuza Road | | 4 | 0 | 8,216 | 63,263 | 35 | 40 | 0 | 0 | 1.8% | 0.7% | 76.1 | 74.2 |
| 3. Peck Road and Ramona Blvd | | 4 | 0 | 7,784 | 59,937 | 35 | 40 | 0 | 0 | 1.8% | 0.7% | 75.9 | 74.0 |
| **Project Traffic Volumes (2014 With Project)** | | | | | | | | | | | | | |
| AM PEAK HOUR | | | | | | | | | | | | | |
| 1. Peck Road and Ranchito Street | | 4 | 0 | 2,589 | 19,935 | 35 | 40 | 0 | 0 | 1.8% | 0.7% | 71.1 | 69.2 |
| 2. Peck Road and Lower Azuza Road | | 4 | 0 | 7,295 | 56,172 | 35 | 40 | 0 | 0 | 1.8% | 0.7% | 75.6 | 73.7 |
| 3. Peck Road and Ramona Blvd | | 4 | 0 | 7,104 | 54,701 | 35 | 40 | 0 | 0 | 1.8% | 0.7% | 75.5 | 73.6 |
| **Existing (2014) Traffic Volumes** | | | | | | | | | | | | | |
| PM PEAK HOUR | | | | | | | | | | | | | |
| 1. Peck Road and Ranchito Street | | 4 | 0 | 2,632 | 20,266 | 35 | 40 | 0 | 0 | 1.8% | 0.7% | 71.2 | 69.3 |
| 2. Peck Road and Lower Azuza Road | | 4 | 0 | 8,227 | 63,348 | 35 | 40 | 0 | 0 | 1.8% | 0.7% | 76.1 | 74.2 |
| 3. Peck Road and Ramona Blvd | | 4 | 0 | 7,805 | 60,099 | 35 | 40 | 0 | 0 | 1.8% | 0.7% | 75.9 | 74.0 |

[1] Distance is approximated from the centerline of the roadway segment to the nearest receptor location.

| | Existing dBA | | Existing + Project dBA | | Project Impact (dBA) | |
|---|---|---|---|---|---|---|
| Intersection | AM | PM | AM | PM | AM | PM |
| 1. Peck Road and Ranchito Street | 69.17 | 69.23 | 69.19 | 69.27 | 0.03 | 0.03 |
| 2. Peck Road and Lower Azuza Road | 73.69 | 74.21 | 73.69 | 74.22 | 0.01 | 0.01 |
| 3. Peck Road and Ramona Blvd | 73.57 | 73.98 | 73.58 | 73.99 | 0.01 | 0.01 |

| Table 1. Vibration Source Amplitudes for Construction Equipment | |
|---|---|
| **Equipment** | **Reference PPV at 25 ft. (in/sec)** |
| Vibratory roller | 0.21 |
| Large bulldozer | 0.089 |
| **Caisson drilling** | **0.089** |
| Loaded trucks | 0.076 |
| Jackhammer | 0.035 |
| Small bulldozer | 0.003 |
| Crack-and-seat operations | 2.4 |

Sources: Federal Transit Administration 1995 (except Hanson 2001 for vibratory rollers) and Caltrans 2000 for crack-and seat-operations.

Using the source levels in Table 1, above, vibration from this equipment can be estimated by the following formula:
PPVEquipment = PPVRef (25/D)n (in/sec)

Where:
PPVRef = reference PPV at 25 ft.
D = distance from equipment to the receiver in ft.
n = 1.1 ( the value related to the attenuation rate through ground)

| Receptor | | Land Use | Date of Cons | Distance from footing | | PPVRef | (25/D) | (25/D)n | PPV (in/sec) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4724 Peck Road | Commercial | 1948, 1962 | 14 | feet | 0.089 | 1.786 | 1.892 | 0.168 |
| 2 | 11619 Ranchito St. | Residential | 1942 | 23 | feet | 0.089 | 1.087 | 1.096 | 0.098 |
| 3 | 11625 Ranchito St. | Residential | 1937 | 23 | feet | 0.089 | 1.087 | 1.096 | 0.098 |
| 4 | 11631 Ranchito St. | Residential | 1940, 1956 | 18 | feet | 0.089 | 1.389 | 1.435 | 0.128 |
| 5 | 11635 Ranchito St. | Residential | 1966 | 20 | feet | 0.089 | 1.250 | 1.278 | 0.114 |
| 6 | 11637 Ranchito St. | Residential | 1966 | 20 | feet | 0.089 | 1.250 | 1.278 | 0.114 |

## APPENDIX H: TRAFFIC STUDY

Koa Corporation, Traffic Impact Study for Proposed Palo Verde Apartment Project 4704 and 4716 Peck Road, El Monte, dated February 13, 2015.

# Traffic Impact Study for Proposed Palo Verde Apartment Project 4704 and 4716 Peck Road, El Monte

**February 13, 2015**

*Prepared For:*

Hollywood Community Housing Corporation
5020 Santa Monica Boulevard
Los Angeles, CA 90029

*Prepared by:*

KOA CORPORATION
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1100 Corporate Center Drive, Suite 201
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# 1. Introduction

The proposed apartment project (Project) site is located at 4704 and 4716 Peck Road in the City of El Monte. KOA Corporation has been retained to analyze the potential traffic impacts associated with the proposed Project.

### *1.1 Project Description*

The Project site is located on the northeast corner of the Peck Road and Ranchito Street intersection. The proposed apartments (Project) would provide 49 units of which there would be 21 one-bedroom units, 13 two-bedroom units, and 15 three-bedroom units.

The proposed project parking supply would provide 77 off-street surface spaces.

The proposed site will have one driveway on Peck Road. The project driveway is located on the east side of Peck Road and would provide full access. The existing two-way left-turn center lane on Peck Road will need to be modified to accommodate full access at the project driveway.

The Project is anticipated to be completed and occupied in 2017.

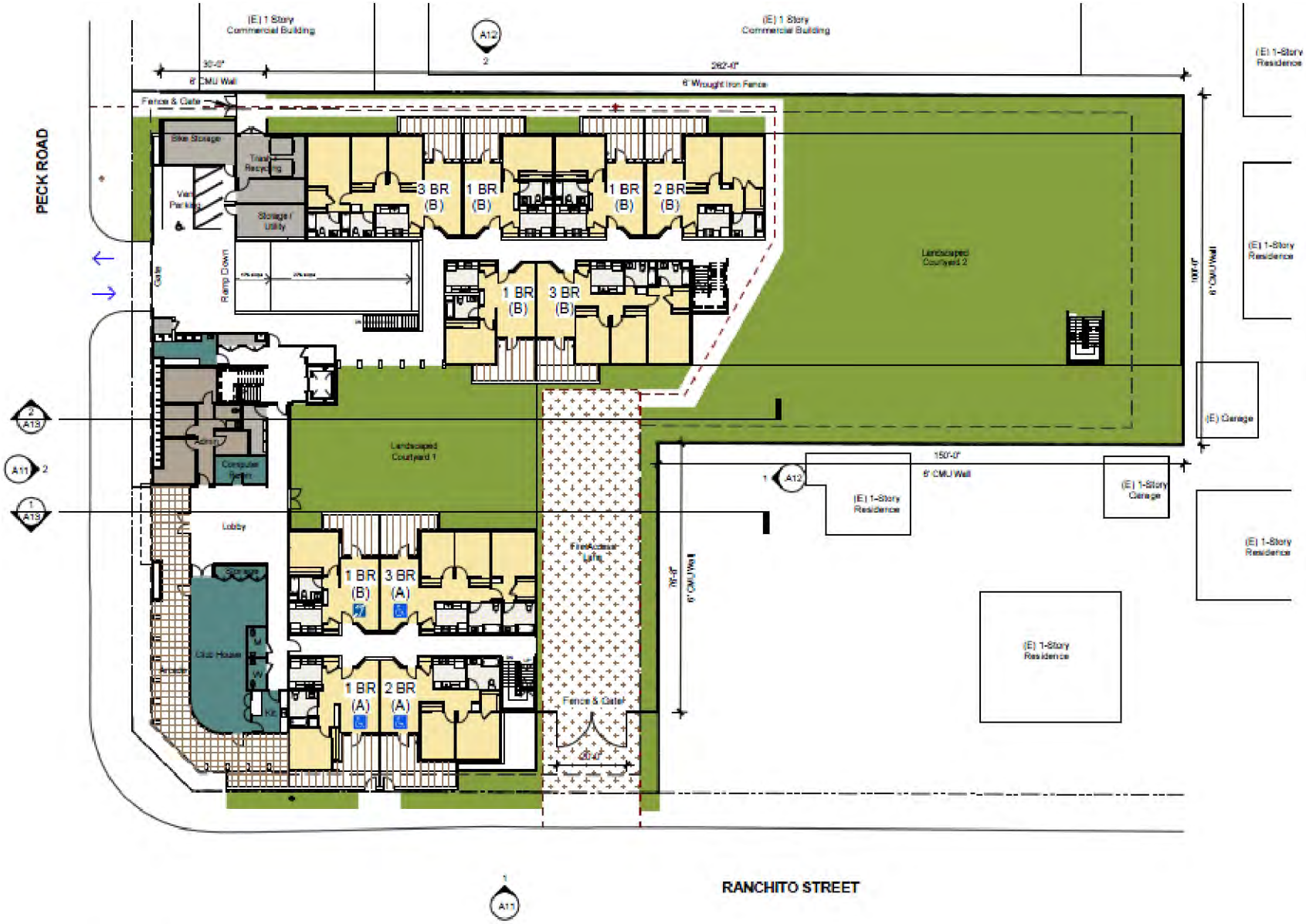
A conceptual layout of the proposed Project site is illustrated on Figure 1.

### *1.2 Project Study Area*

The project study area, as defined through consultation with the City of El Monte staff, includes the following three study intersections:

1. Peck Road / Lower Azusa Road
2. Peck Road / Ranchito Street
3. Peck Road / Ramona Boulevard

Figure 2 illustrates the locations of the study intersections.




1 First Floor Plan
1/32" = 1'-0"

| | | |
|---|---|---|
| KOA CORPORATION PLANNING & ENGINEERING | Palo Verde Apartments, El Monte | Figure 1 |
| | | Conceptual Site Layout |

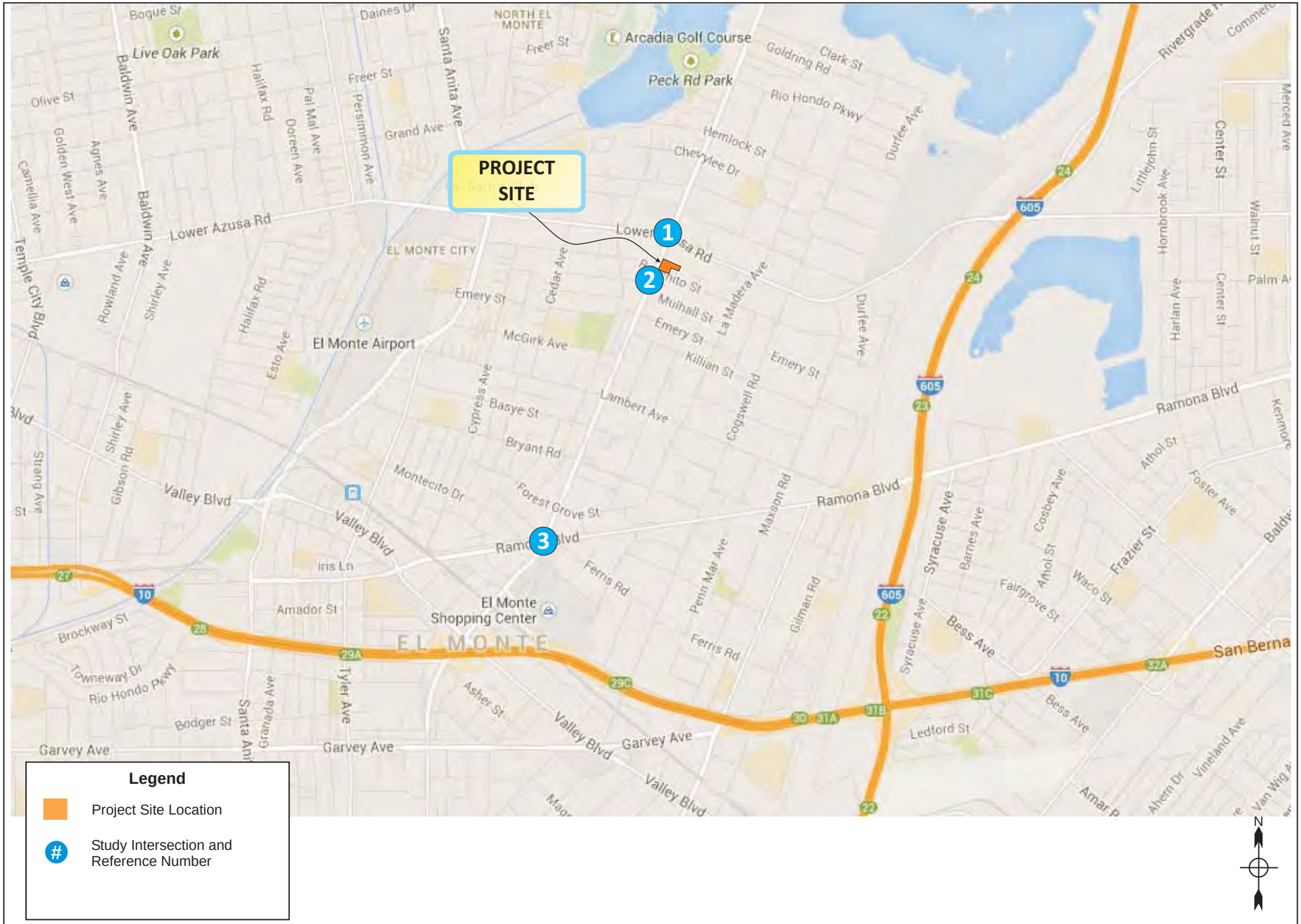



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Figure 2

Study Intersection Locations

### *1.3 Study Scenarios*

Traffic impacts associated with the proposed Project were analyzed at the study intersections for the weekday a.m. and p.m. peak-hour periods. The study included the analysis of the following traffic scenarios:

- Existing
- Existing with-Project
- Opening Year (2017) without-Project
- Opening Year (2017) with-Project

### *1.4 Analysis Methodology*

A scoping document was shared with the City as the first step in the traffic analysis, in order to define the study area and other major details.

For analysis of Level of Service (LOS) at signalized intersections, the Intersection Capacity Utilization (ICU) methodology was utilized in this study. The concept of roadway level of service under the ICU methodology is calculated as the volume of vehicles that pass through the facility divided by the capacity of that facility. A facility is "at capacity" (v/c of 1.00 or greater) when extreme congestion occurs. This volume/capacity ratio value is based upon volumes by lane, signal phasing, and approach lane configuration. For this analysis, a lane capacity of 1,600 vehicles per hour per lane for all through lanes and turn lanes, a lane capacity of 2,880 vehicles per hour per lane for dual turn lanes and a total loss time of 10% were used.

The following text describes the study methodology contained in this report.

<u>Existing Condition</u>

Traffic counts from recent traffic studies were used since they represented existing traffic conditions prior to the Baldwin Avenue closure at the railroad crossing, north of Valley Boulevard, as part of the Alameda Corridor-East Construction Authority improvements. These traffic counts were used for two of the three study intersections (Peck Road/Lower Azusa Road and Peck Road/Ramona Boulevard) and were provided and authorized by the City. New traffic counts were conducted at the remaining Peck Road and Ranchito Street study intersection. The counts were used to determine existing traffic conditions.

Fieldwork within the study area was undertaken to identify the condition of key study area roadways including traffic control and approach lane configuration at each study intersection, and on-street parking restrictions.

The existing level of service (LOS) at each of the study intersections is discussed in Section 2 of this report.

Project Trip Generation and Distribution

Project trip generation was based on trip rates defined by the *Institute of Transportation Engineers (ITE) Trip Generation, 9th Edition*. The detailed methodology utilized for the Project trip generation and distribution calculations is discussed in Section 3 of this report.

Existing with-Project Condition

Based on the traffic that is projected for the proposed Project and the traffic count totals, an Existing with-Project conditions scenario was analyzed per the *Sunnyvale* and *Expo Line* California Environmental Quality Act (CEQA) court case decisions that states impacts should be analyzed against existing conditions. The level of service values for existing with-Project conditions at the study intersections are discussed in Section 4 of this report.

Opening Year (2017) without-Project Condition

In order to account for traffic growth in the study area, an ambient/background traffic growth rate was applied to the existing traffic counts. In addition, traffic from related/area projects (approved and pending developments) was also added to the study area. The level of service values at the study intersections for Opening Year (2017) without-Project conditions are discussed in Section 5 of this report.

Opening Year (2017) with-Project Condition

Based on the Opening Year (2017) without-Project volumes plus traffic from the proposed Project, the Opening Year (2017) with-Project traffic volume conditions were determined and analyzed. The level of service values at the study intersections for Opening Year (2017) with-Project conditions are discussed in Section 6 of this report.

Level of Service Methodology

For analysis of level of service at signalized intersections, City of El Monte has designated the ICU methodology as the desired tool. The concept of roadway level of service under the ICU methodology is calculated as the volume of vehicles at the critical movements that pass through the facility divided by the capacity of that facility. A 10 percent adjustment to the clearance and loss time factor based on the critical phases of the signalized control was included in the traffic analysis. A facility is "at capacity" (ICU value of 1.00 or greater) when extreme congestion occurs. This value is a function of hourly volumes and approach lane configurations on each leg of the intersection.

Level of service values range from LOS A to LOS F. LOS A indicates excellent operating conditions with little delay to motorists, whereas LOS F represents congested conditions with excessive vehicle delay. LOS E is typically defined as the operating "capacity" of a roadway.

Table 1 defines the level of service criteria applied to the study intersections.

**Table 1 - Level of Service Definitions**

| LOS | Definition | Intersection Volume/Capacity Ratio (ICU) |
|---|---|---|
| A | Excellent operation. All approaches to the intersection appear quite open, turning movements are easily made, and nearly all drivers find freedom of operation. | 0.000 - 0.600 |
| B | Very good operation. Many drivers begin to feel somewhat restricted within platoons of vehicles. This represents stable flow. An approach to an intersection may occasionally be fully utilized and traffic queues start to form. | 0.601 - 0.700 |
| C | Good operation. Occasionally backups may develop behind turning vehicles. Most drivers feel somewhat restricted. | 0.701 - 0.800 |
| D | Fair operation. There are no long-standing traffic queues. This level is typically associated with design practice for peak periods. | 0.801 - 0.900 |
| E | Poor operation. Some long standing vehicular queues develop on critical approaches. | 0.901 - 1.000 |
| F | Forced flow. Represents jammed conditions. Backups from locations downstream or on the cross street may restrict or prevent movements of vehicles out of the intersection approach lanes; therefore, volumes carried are not predictable. Potential for stop and go type traffic flow. | Greater than 1.000 |
| Source: | Highway Capacity Manual, Special Report 209, Transportation Research Board, Washington D.C., 2000 and Interim Materials on Highway Capacity, NCHRP Circular 212, 1982 | |

Significant Traffic Impacts

As defined by the City of El Monte procedures, significant impacts of a proposed Project at an intersection must be mitigated to a level of insignificance, where feasible. The determination of potential significant traffic impacts due to the proposed Project is discussed in Section 7 of this report.

# 2. Existing Conditions

This section describes the existing conditions within the study area in terms of roadway facilities, transit service and traffic operating conditions.

### *2.1 Existing Roadway System*

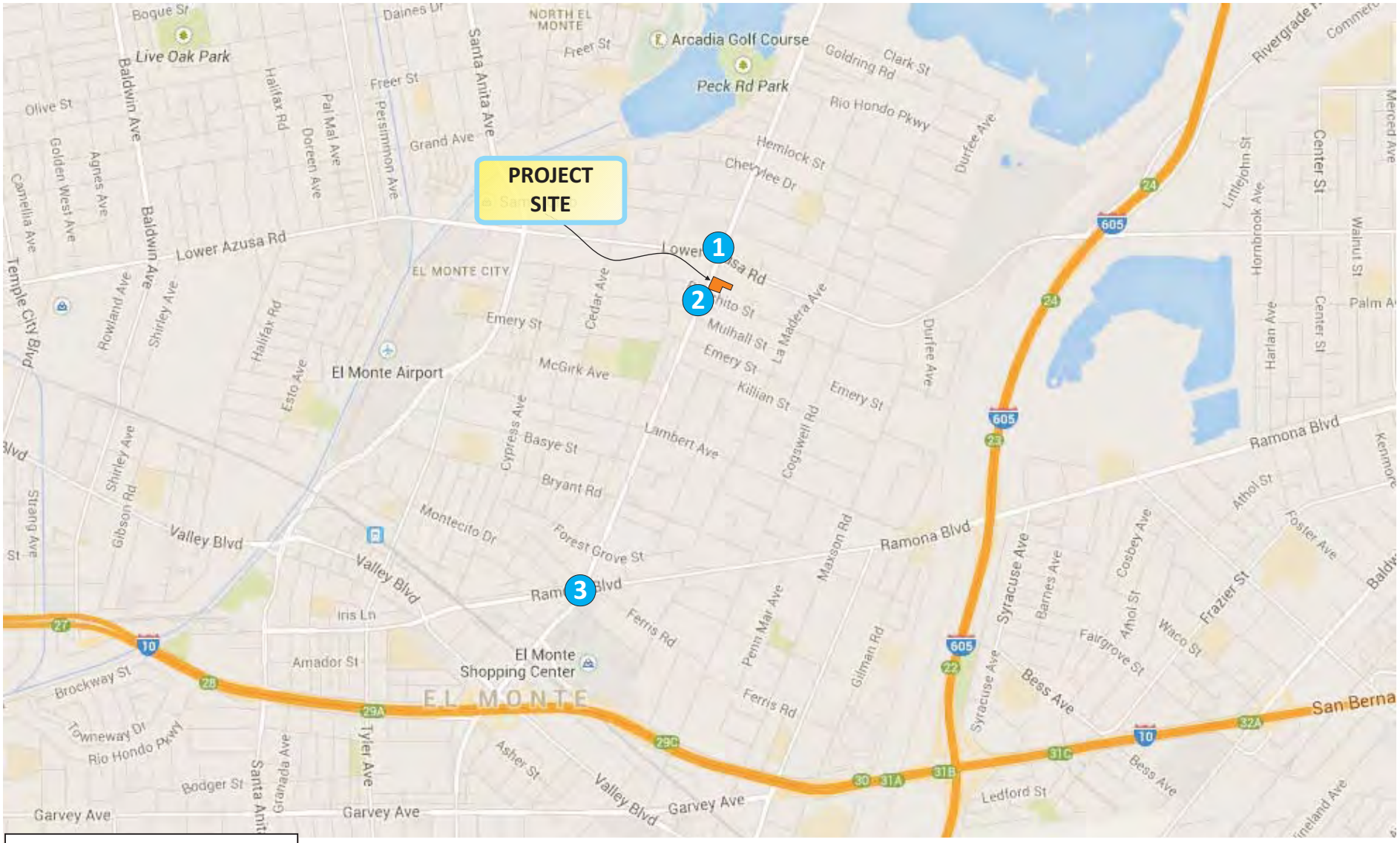
The key roadways within the study area are described below. The discussion presented here is limited to specific roadways that traverse the study intersections and provide direct access to the Project site. Figure 3 illustrates the existing traffic controls and approach lane geometries at the study intersections.

Peck Road is a north-south roadway located west of the Project site. This roadway is designated as a Major Arterial in the City of El Monte General Plan. Peck Road provides two travel lanes on each direction, north of Ramona Boulevard, and three travel lanes between Ramona Boulevard and Valley Boulevard. The posted speed limit on Peck Road is 35 miles per hour (mph) within the study area. The City of El Monte General Plans designates Peck Road as a truck route. On-street parking is permitted on both sides of Peck Road within the study area.

Lower Azusa Road is an east-west roadway located north of the project site. This roadway is designated as a Secondary Arterial in the City of El Monte General Plan. Lower Azusa Road provides two travel lanes in each direction, with on-street parking permitted on both sides. The posted speed limit on Lower Azusa Road is 35 mph within the study area. This roadway is designated as a truck route on the City of El Monte General Plan.

Ranchito Street is an east-west roadway located south of the project site. Ranchito Street provides one travel lane in each direction. On-Street parking is permitted on both sides of Ranchito Street. Ranchito Street is designated as a Local Road in El Monte General Plan.

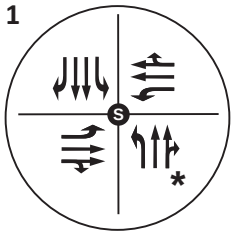
Ramona Boulevard is an east-west roadway that borders the project site on the north. Ramona Boulevard is designated as a Secondary Arterial in the City of El Monte General Plan. This roadway provides two travel lanes each direction. The El Monte General Plan designates Ramona Boulevard as a truck route. The posted speed limit is 35 mph and on-street parking is allowed along the south side of the roadway within the study area.



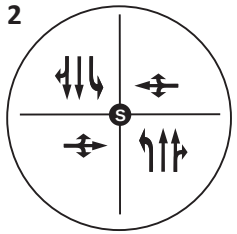

**Legend**

- Project Site Location
- # Study Intersection and Reference Number
- S Signalized Intersection
- Intersection Lane Geometry

1



2



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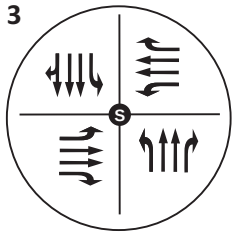

Note

* De facto right turn lane assumed due to wide curb lane

N

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Figure 3

Existing Lane Configuration

### *2.2 Existing Transit Service*

Table 2 provides a description of the public transit lines that operate within the study area.

**Table 2 - Existing Transit Service Summary**

| Agency | Line | From | To | Via | Peak Frequency |
|---|---|---|---|---|---|
| El Monte | Red | El Monte | El Monte | Peck Road | 40 Minutes |
| El Monte | Blue | El Monte | El Monte | Peck Road | 40 Minutes |
| El Monte | Orange | El Monte | El Monte | Peck Road | 40 Minutes |
| Metro | 190 | El Monte | Cal Poly Pomona | Ramona Boulevard | 10-30 Minutes |
| Metro | 270 | Norwalk | Monrovia | Peck Road | 10-60 Minutes |
| Foothill | 488 | Glendora | El Monte | Ramona Boulevard | 10-30 Minutes |
| Foothill | 494 | San Dimas | El Monte | Peck Road | 30 Minutes |

### *2.3 Existing Traffic Volumes*

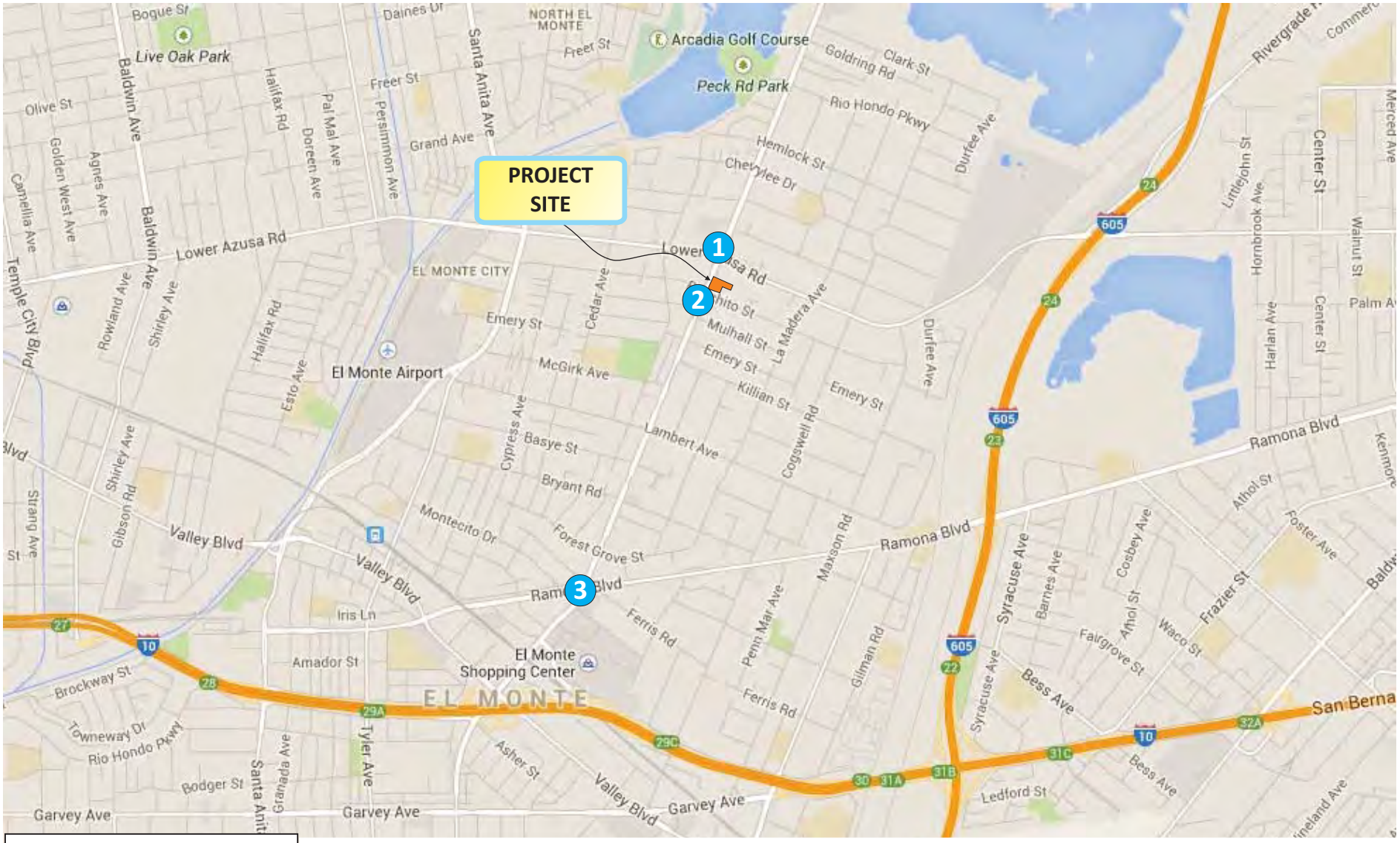
Baldwin Avenue was closed north of Valley Boulevard during the preparation of this traffic study. Baldwin Avenue is planned to be grade separated with the railroad as part of an underpass project for the Alameda Corridor-East Construction Authority and is expected to be open in spring 2015. If traffic counts from previous recent traffic studies were available, they were used to represent existing traffic conditions prior to the Baldwin Avenue closure.

Traffic counts from recent traffic studies were used for the Peck Road/Lower Azusa Road and Peck Road/Ramona Boulevard study intersections, and were provided and authorized by the City. The traffic counts were increased by a 0.82% annual growth factor, based on rates from the Regional Statistical Area 25 of the 2010 Los Angeles County Congestion Management Program. These adjusted traffic volumes represent 2014 conditions.

New traffic counts were conducted at the Peck Road and Ranchito Street study intersection where historical traffic counts were not available. The counts were used to determine existing traffic conditions.

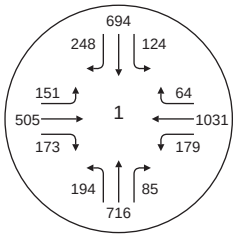
Study intersection counts were collected on a weekday from 7:00 a.m. to 9:00 a.m. and from 4:00 p.m. to 6:00 p.m. The highest four consecutive 15-minute vehicle counts during the a.m. and p.m. time periods were used to determine the peak-hour traffic volumes at each intersection.

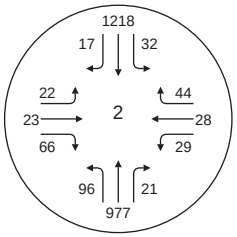
The existing weekday a.m. peak-hour and p.m. peak-hour traffic turn movement volumes are illustrated on Figures 4 and 5, respectively. The traffic count data sheets are provided in Appendix A.




**Legend**

- Project Site Location
- # Study Intersection and Reference Number
- XX ↓ Intersection Volumes



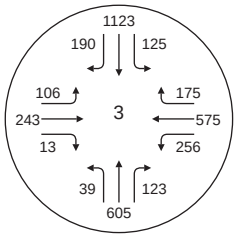



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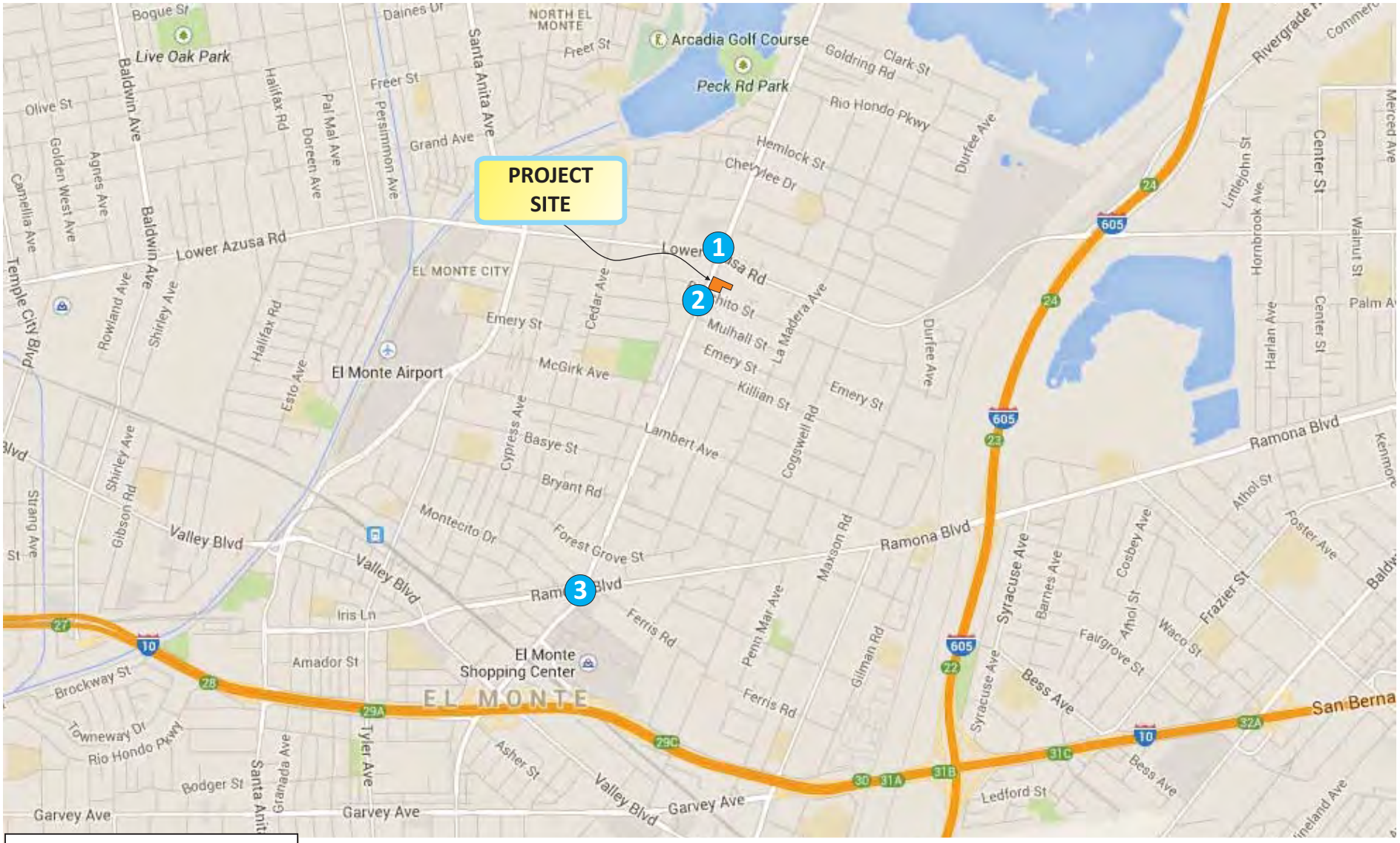
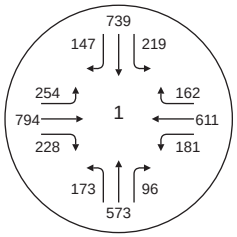
Figure 4

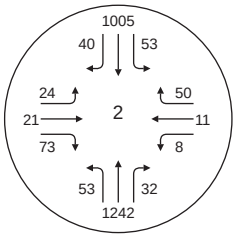
Existing Weekday AM Peak Hour Traffic Volumes




**Legend**

- Project Site Location
- # Study Intersection and Reference Number
- XX Intersection Volumes



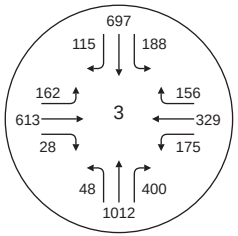



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Figure 5

Existing Weekday PM Peak Hour Traffic Volumes

### *2.4 Existing Intersection Levels of Service*

Based on the intersection lane geometries depicted on Figure 3 and the existing traffic volumes illustrated on Figures 4 and 5, volume-to-capacity ratios and corresponding levels of service (LOS) were determined for each of the study intersections during the weekday a.m. and p.m. peak hours.

Table 3 summarizes the volume-to-capacity ratios and LOS values for existing traffic conditions. The existing traffic analysis scenario worksheets are provided in Appendix B of this report.

As shown in Table 3, all three study intersections are currently operating at LOS D or better during the weekday a.m. and p.m. peak hours.

**Table 3 - Intersection Performance – Existing Conditions**

| Study Intersections | | AM Peak | | PM Peak | |
|---|---|---|---|---|---|
| | | V/C | LOS | V/C | LOS |
| 1 | Peck Road / Lower Azusa Road | 0.875 | D | 0.872 | D |
| 2 | Peck Road / Ranchito Street | 0.633 | B | 0.610 | B |
| 3 | Peck Road / Ramona Boulevard | 0.644 | B | 0.835 | D |

# 3. Project Traffic

This section defines the traffic that would be generated by the proposed Project in a three-step process including trip generation, trip distribution and trip assignment.

### *3.1 Project Trip Generation*

Project Trip Generation

The Project trip generation estimates were based on trip rates defined by the Institute of Transportation Engineers (ITE) publication *Trip Generation (9th Edition)*. Trip rates for the apartment land use were utilized to calculate the trip generation for the proposed Project.

The trip rates and the associated Project trip generation forecasts are provided in Table 4. The proposed Project would generate approximately 326 daily weekday trips including 25 trips during the a.m. peak hour and 30 trips during the p.m. peak hour.

**Table 4 - Project Trip Generation**

| Land Use | ITE Code | Intensity | | Average Weekday | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | In | Out | Total | In | Out | Total |
| ***Trip Generation Rates*** | | | | | | | | | | |
| Apartments | 220 | 1 | unit | 6.65 | 20% | 80% | 0.51 | 65% | 35% | 0.62 |
| ***Estimated Trips*** | | | | | | | | | | |
| Apartments | 220 | 49 | unit | 326 | 5 | 20 | 25 | 20 | 10 | 30 |

*Source: ITE, 9th Edition*

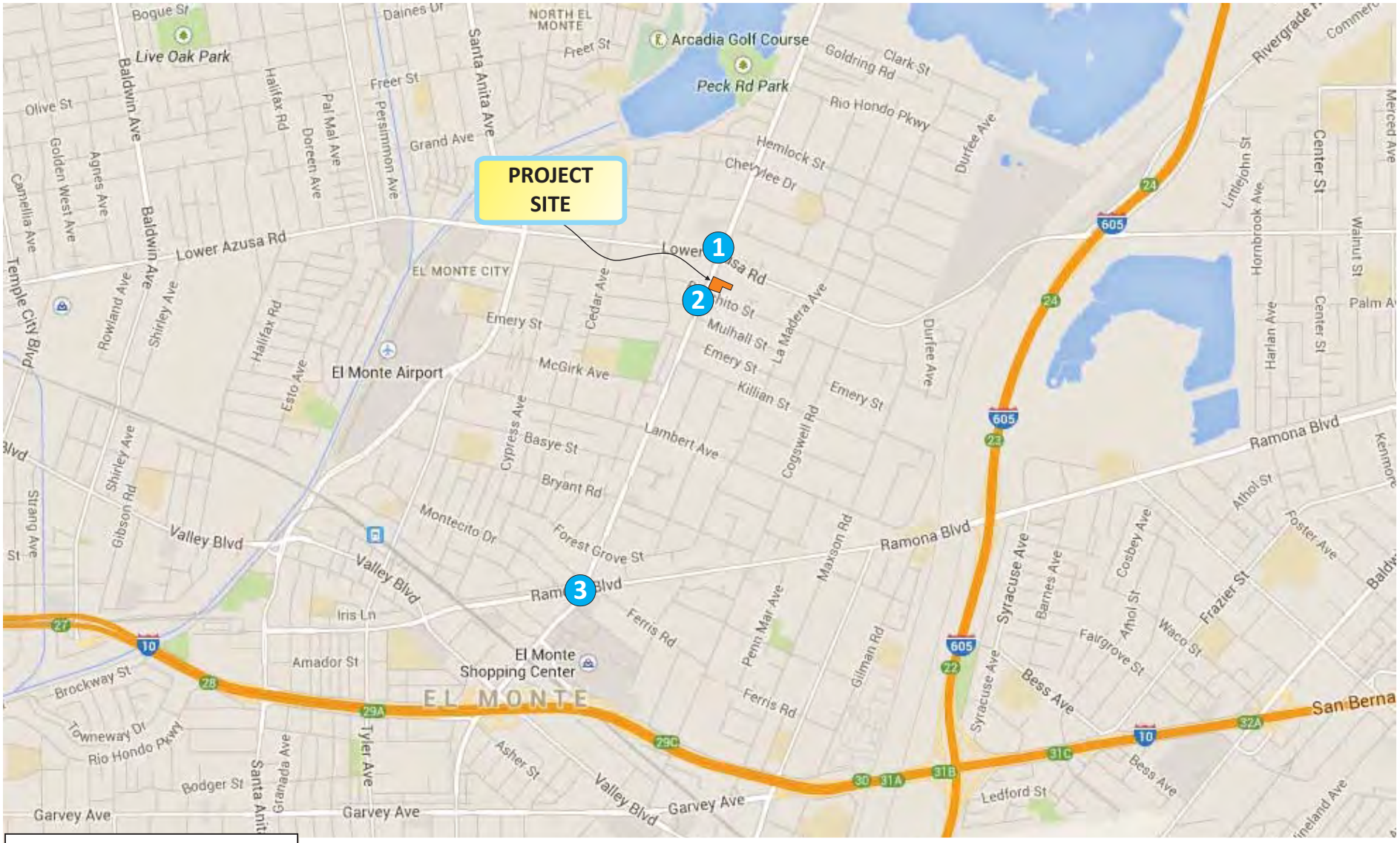
### *3.2 Project Trip Distribution*

Trip distribution is the process of assigning the directions from which traffic will access a Project site. Trip distribution is dependent upon the land use characteristics of the Project, the local roadway network, and the general locations of other land uses to which Project trips would originate or terminate.

Figure 6 illustrates the project trip distribution percentages at the study intersections that were used for the traffic impact analysis.

### *3.3 Project Trip Assignment*

Based on the trip generation and distribution assumptions described above, Project traffic was assigned to the roadway system. Figures 7 and 8 illustrate the Project trips for the weekday a.m. and p.m. peak hours, respectively.




**Legend**

- Project Site Location
- # Study Intersection and Reference Number
- XX Intersection Volumes

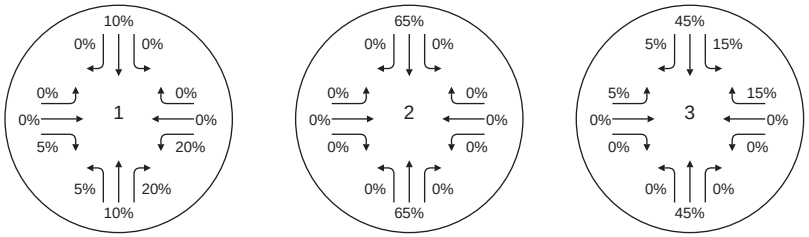



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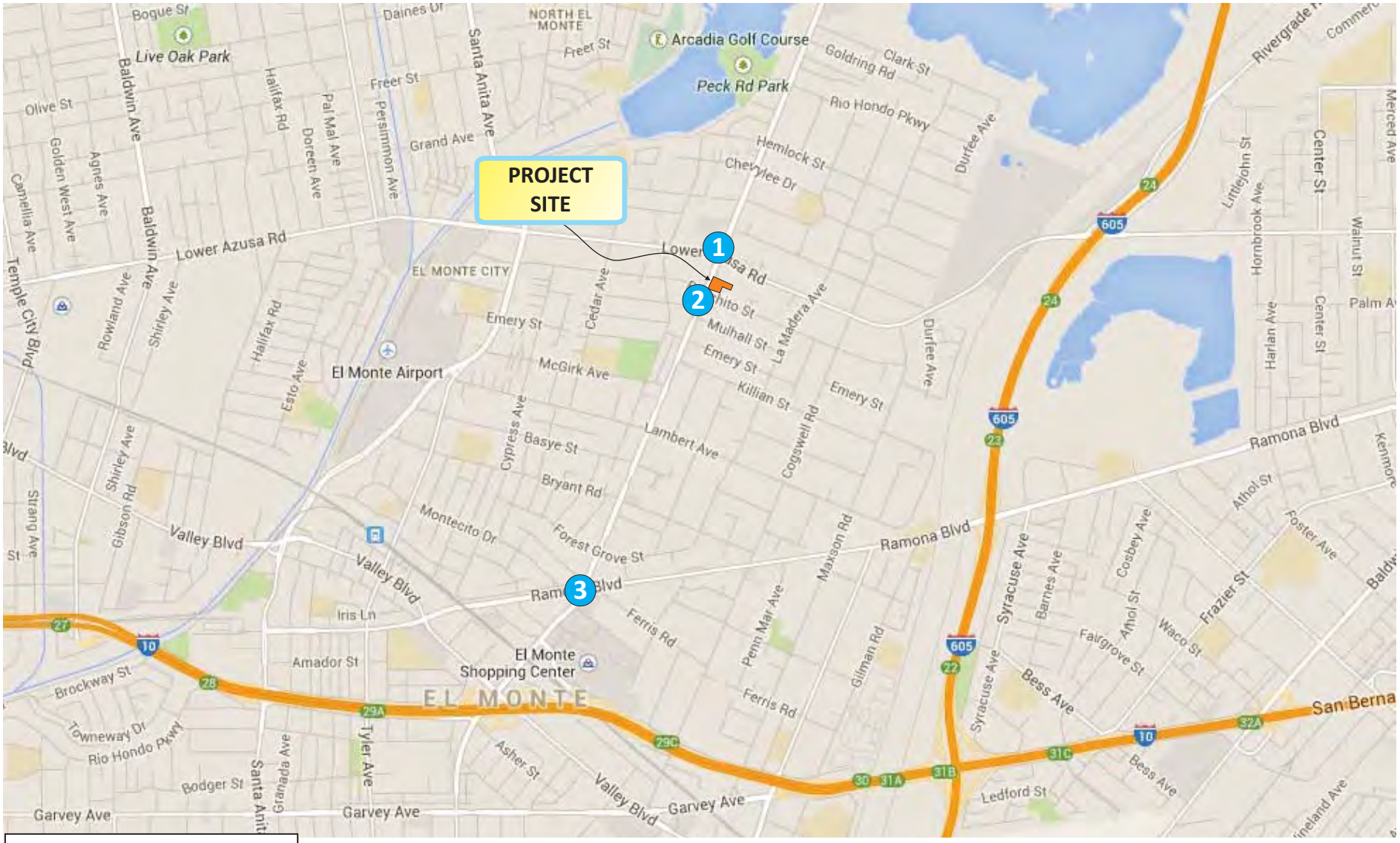
Figure 6

Project Trip Distribution




**Legend**

- Project Site Location
- # Study Intersection and Reference Number
- XX Intersection Volumes

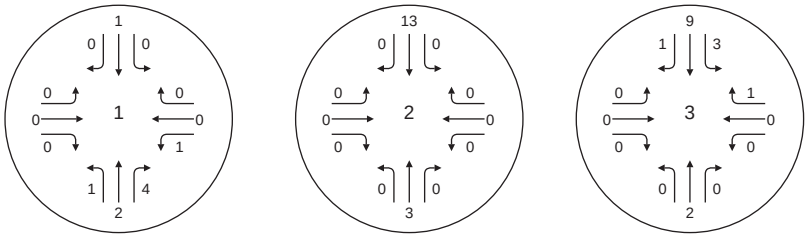



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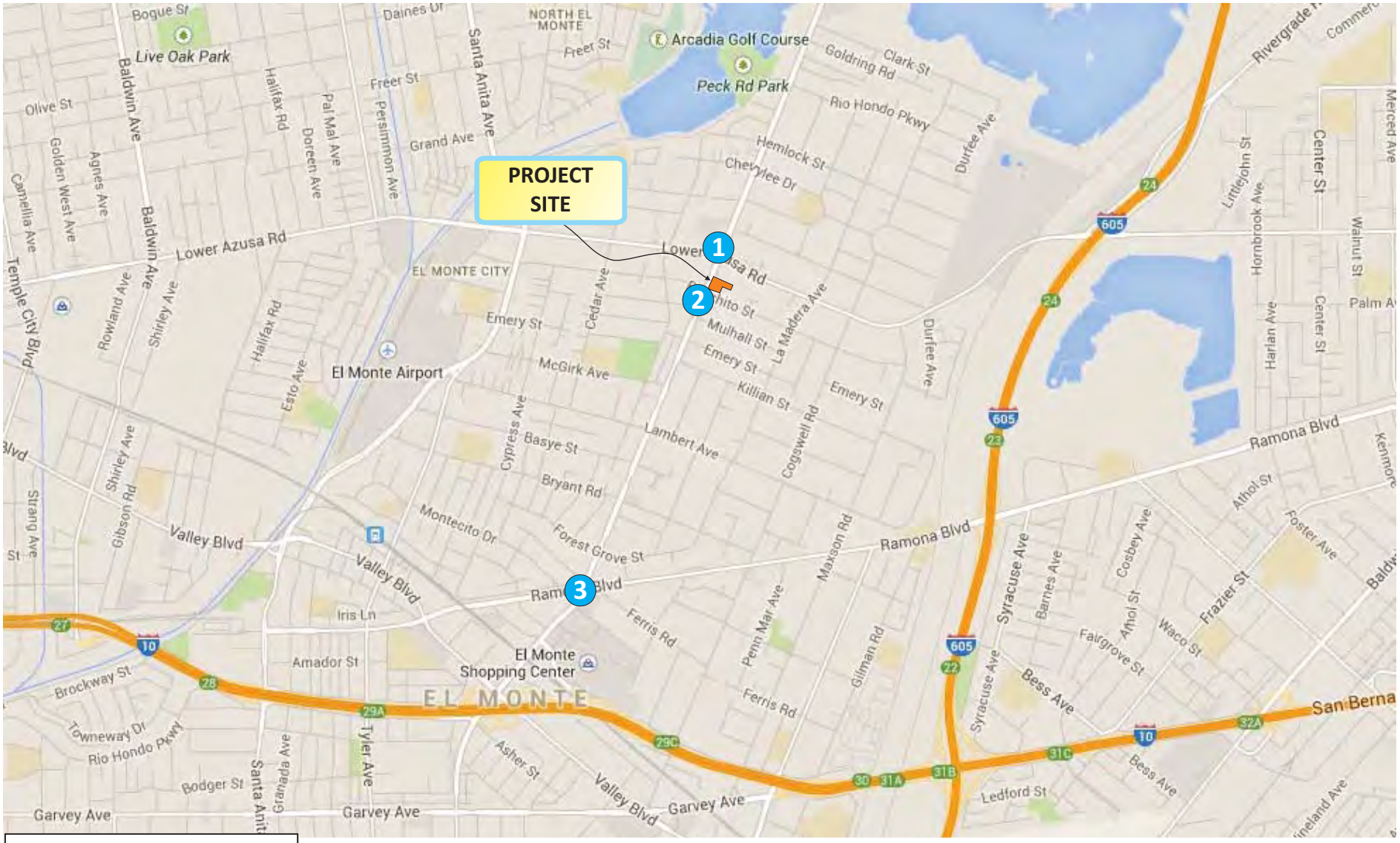
Figure 7

Project Trip Assignment - Weekday AM Peak Hour




**Legend**

- Project Site Location
- # Study Intersection and Reference Number
- XX Intersection Volumes

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Figure 8

Project Trip Assignment - Weekday PM Peak Hour

# 4. Existing with-Project Conditions

This section documents existing traffic conditions at the study intersections with the addition of Project-generated traffic. Traffic volumes for these conditions were derived by adding Project trips to the existing traffic volumes.

The existing with-Project traffic volumes for the weekday a.m. and p.m. peak hour are illustrated on Figures 9 and 10, respectively.

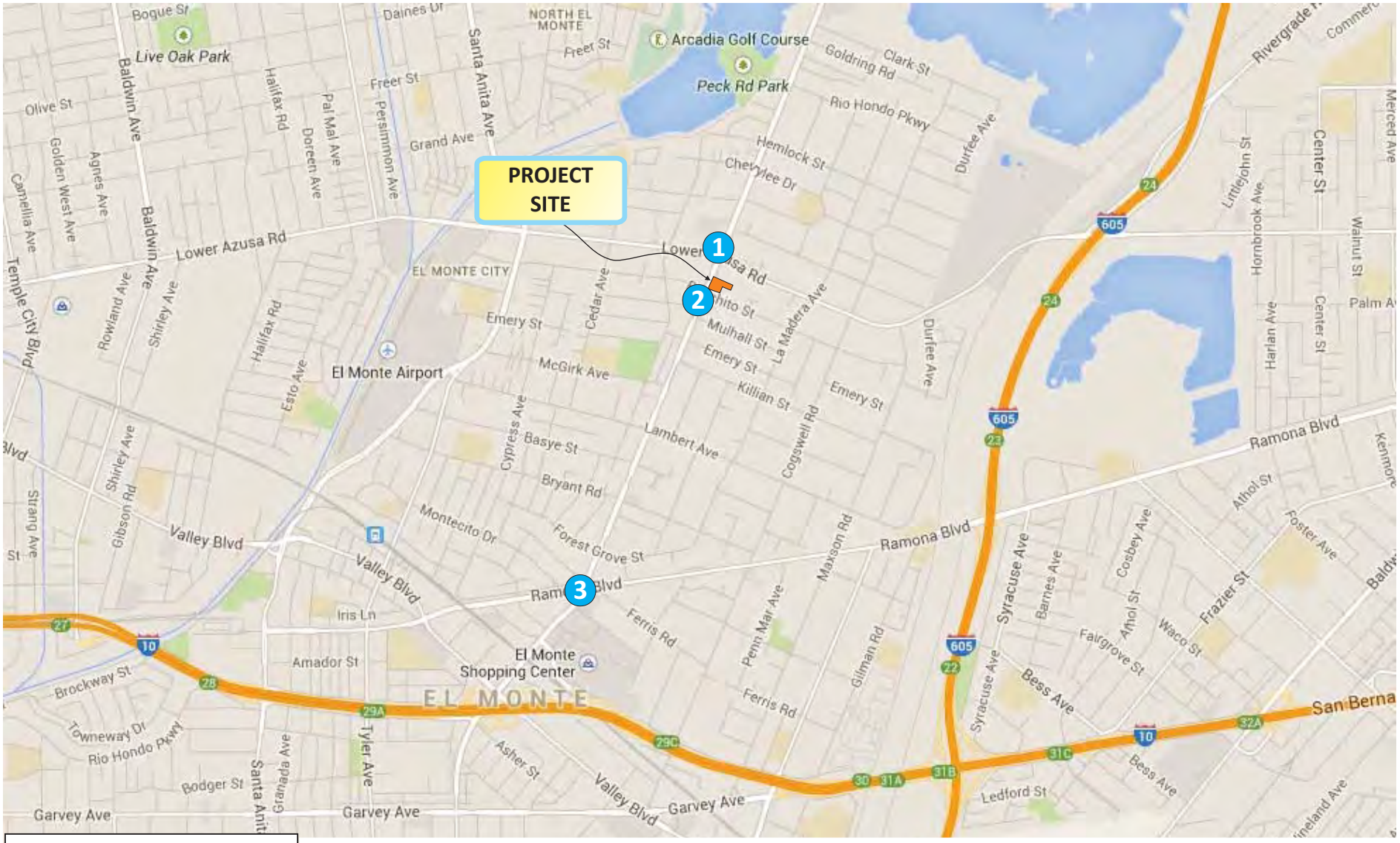
Table 5 summarizes the resulting V/C and LOS values at the study intersections for the existing with-Project conditions. The existing with-Project traffic analysis worksheets for this scenario are provided in Appendix C of this report.

All three study intersections would continue to operate at LOS D or better during the weekday a.m. and p.m. peak hours.

**Table 5 - Intersection Performance – Existing with-Project**

| Study Intersections | | AM Peak | | PM Peak | |
|---|---|---|---|---|---|
| | | V/C | LOS | V/C | LOS |
| 1 | Peck Road / Lower Azusa Road | 0.876 | D | 0.876 | D |
| 2 | Peck Road / Ranchito Street | 0.637 | B | 0.614 | B |
| 3 | Peck Road / Ramona Boulevard | 0.646 | B | 0.839 | D |

The determination of significant traffic impacts created by Project traffic is discussed in Section 7 of this report section.




**Legend**

- Project Site Location
- # Study Intersection and Reference Number
- XX Intersection Volumes

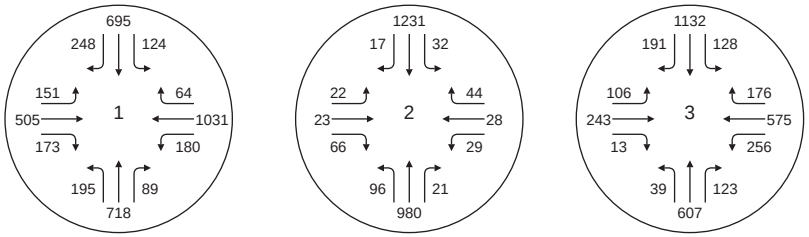



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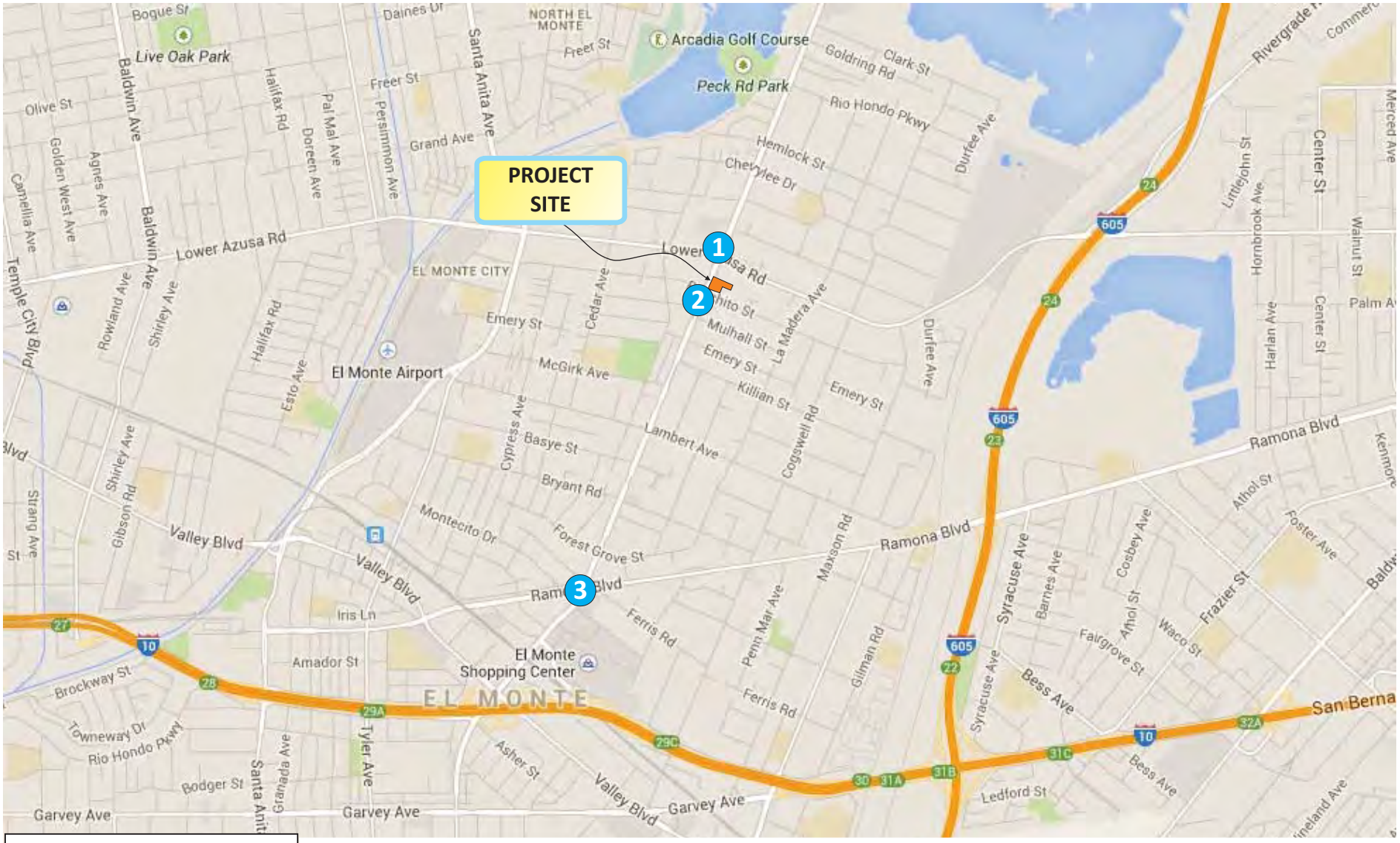
Figure 9

Existing with Project - Weekday AM Peak Hour Turn Volumes




**Legend**

- Project Site Location
- # Study Intersection and Reference Number
- XX Intersection Volumes

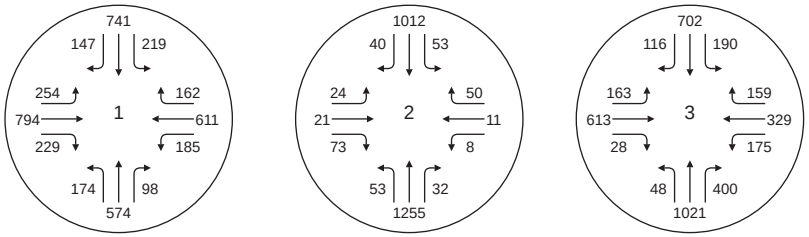



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Figure 10

Existing with Project - Weekday PM Peak Hour Turn Volumes

# 5. Opening Year (2017) without-Project Conditions

This section provides an analysis of future traffic conditions in the study area with area/related project trips and background growth added, but without Project traffic. The year 2017 was selected for analysis of future conditions as the proposed Project is anticipated to be operational in 2017.

### *5.1 Ambient Growth*

In order to acknowledge regional population and employment growth outside of the study area, an ambient/background traffic growth rate was applied to the existing traffic counts. An annual growth rate of 0.82% from Regional Statistical Area 25 of the 2010 Los Angeles County Congestion Management Program was used for this purpose. This annual growth factor is based on traffic growth from 2010 to 2020. Thus, a three-year growth factor of 1.0246 (0.82% annual growth rate X 3 years) was applied to existing traffic counts to define the Opening Year (2017) without-Project conditions. This annual growth rate was included in the scoping document provided to the City of El Monte.

### *5.2 Related Projects*

In addition to the application of the ambient traffic growth rate, traffic from related/area projects (approved and pending developments) was also included as part of the year-2017 analysis. There were 40 related projects that were identified and included in the traffic impact analysis.

Figure 11 illustrates the locations of the related projects and Appendix D summarizes the trip generation. Related project traffic was distributed to the surrounding street system in the study area for the weekday a.m. and p.m. peak hours.

The related project volumes figures for the weekday a.m. and p.m. peak hours are also provided in Appendix D.

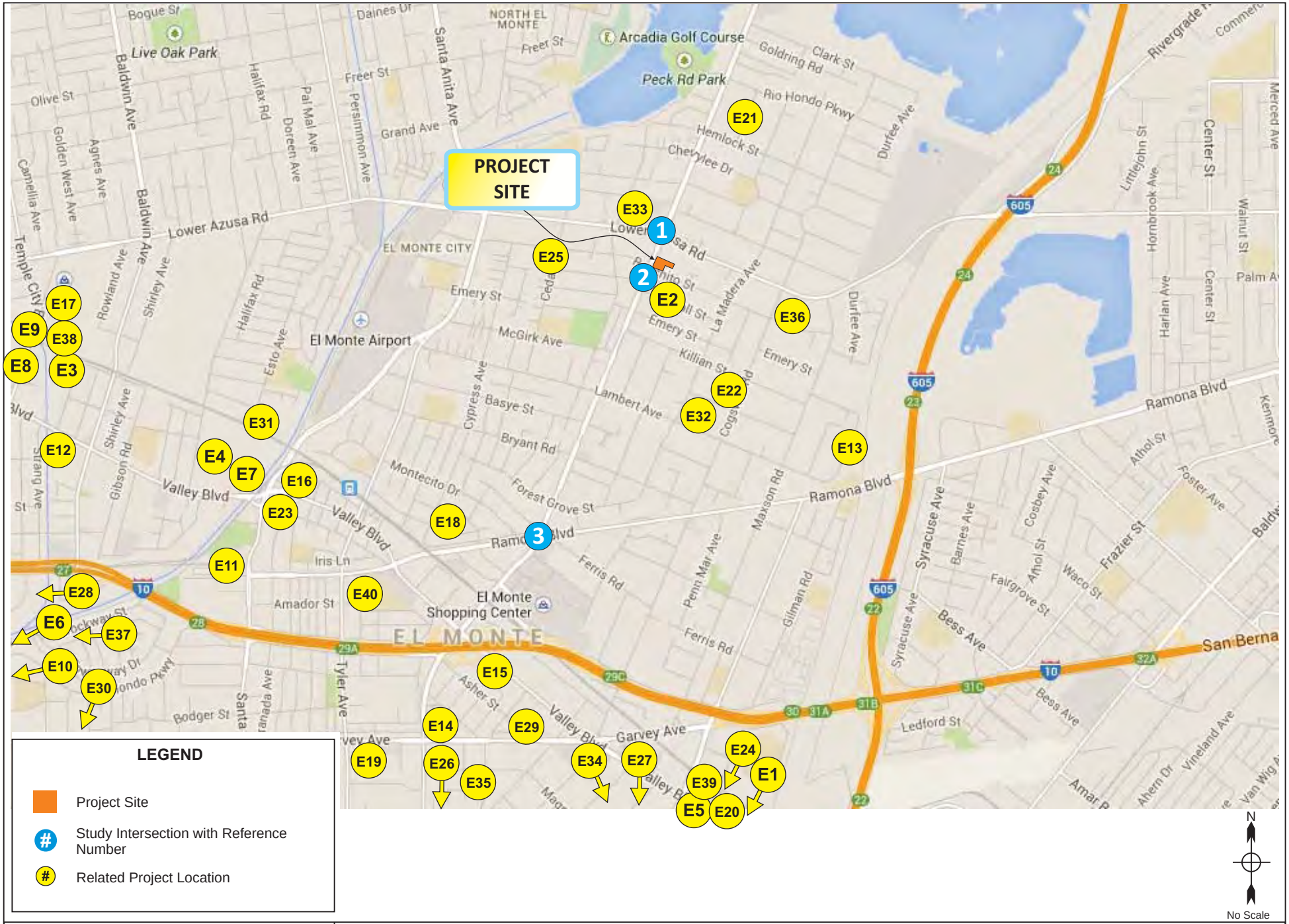
### *5.3 Opening Year (2017) without-Project Intersection Levels of Service*

The Opening Year (2017) without-Project traffic volumes for the weekday a.m. and p.m. peak hour are illustrated on Figures 12 and 13, respectively.

Table 6 summarizes the V/C and LOS values at the study intersections under this scenario. The Opening Year (2017) without-Project traffic analysis worksheets are provided in Appendix E of this report. Two of the three study intersections are projected to operate at LOS D or better during the analyzed peak hours. The Peck Road and Lower Azusa Road study intersection will operate at LOS E during the a.m. and p.m. peak hours.

Table 6 - Intersection Performance – Opening Year (2017) without-Project

| Study Intersections | | AM Peak | | PM Peak | |
|---|---|---|---|---|---|
| | | V/C | LOS | V/C | LOS |
| 1 | Peck Road / Lower Azusa Road | 0.928 | E | 0.931 | E |
| 2 | Peck Road / Ranchito Street | 0.658 | B | 0.638 | B |
| 3 | Peck Road / Ramona Boulevard | 0.697 | B | 0.903 | E |




**LEGEND**

- Project Site
- # Study Intersection with Reference Number
- # Related Project Location

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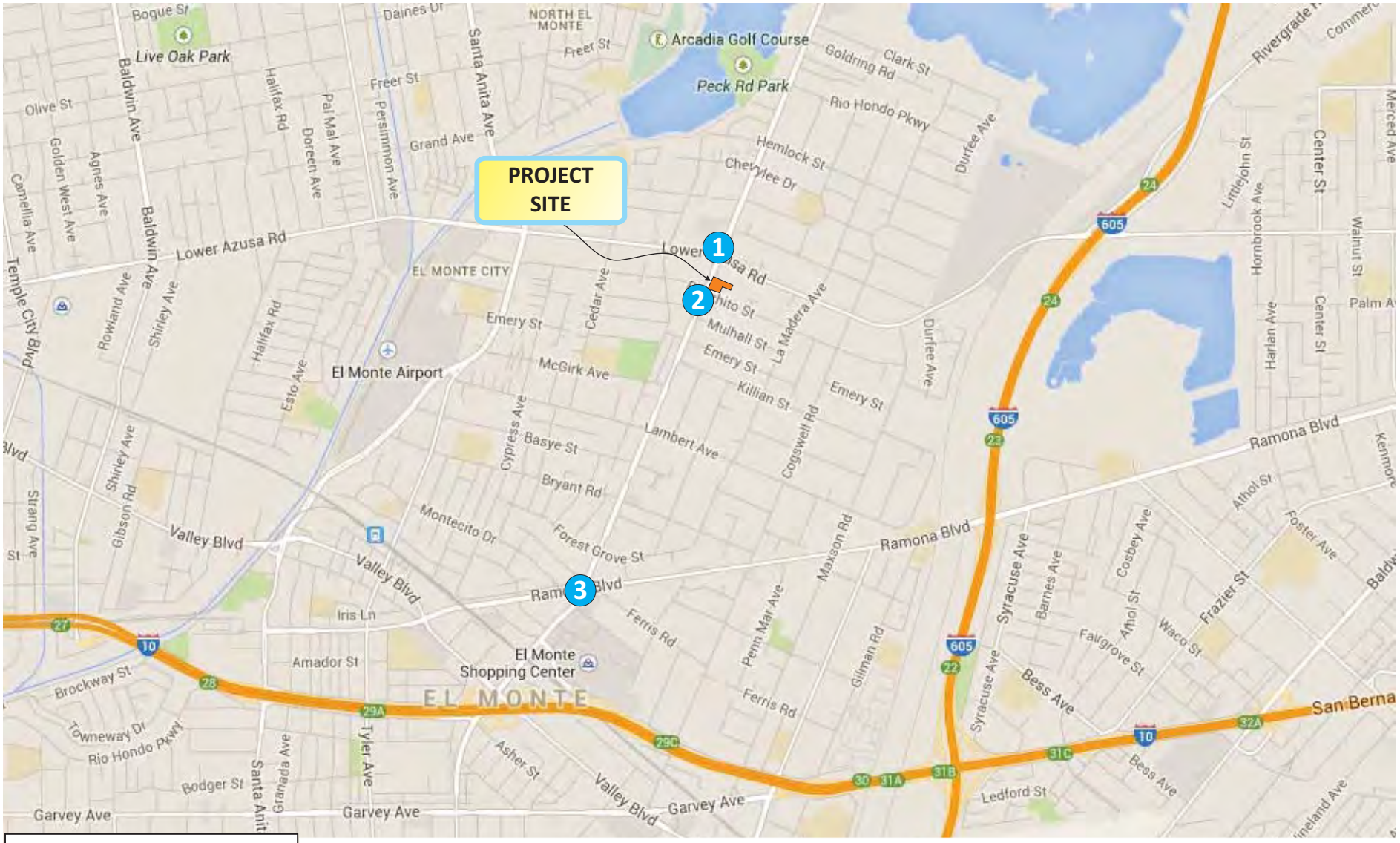
Figure 11

Locations of Related Projects




**Legend**

- Project Site Location
- # Study Intersection and Reference Number
- XX Intersection Volumes

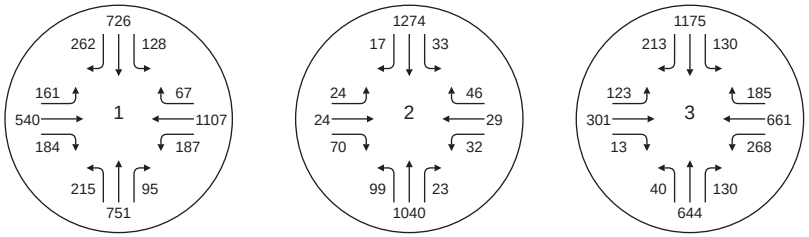



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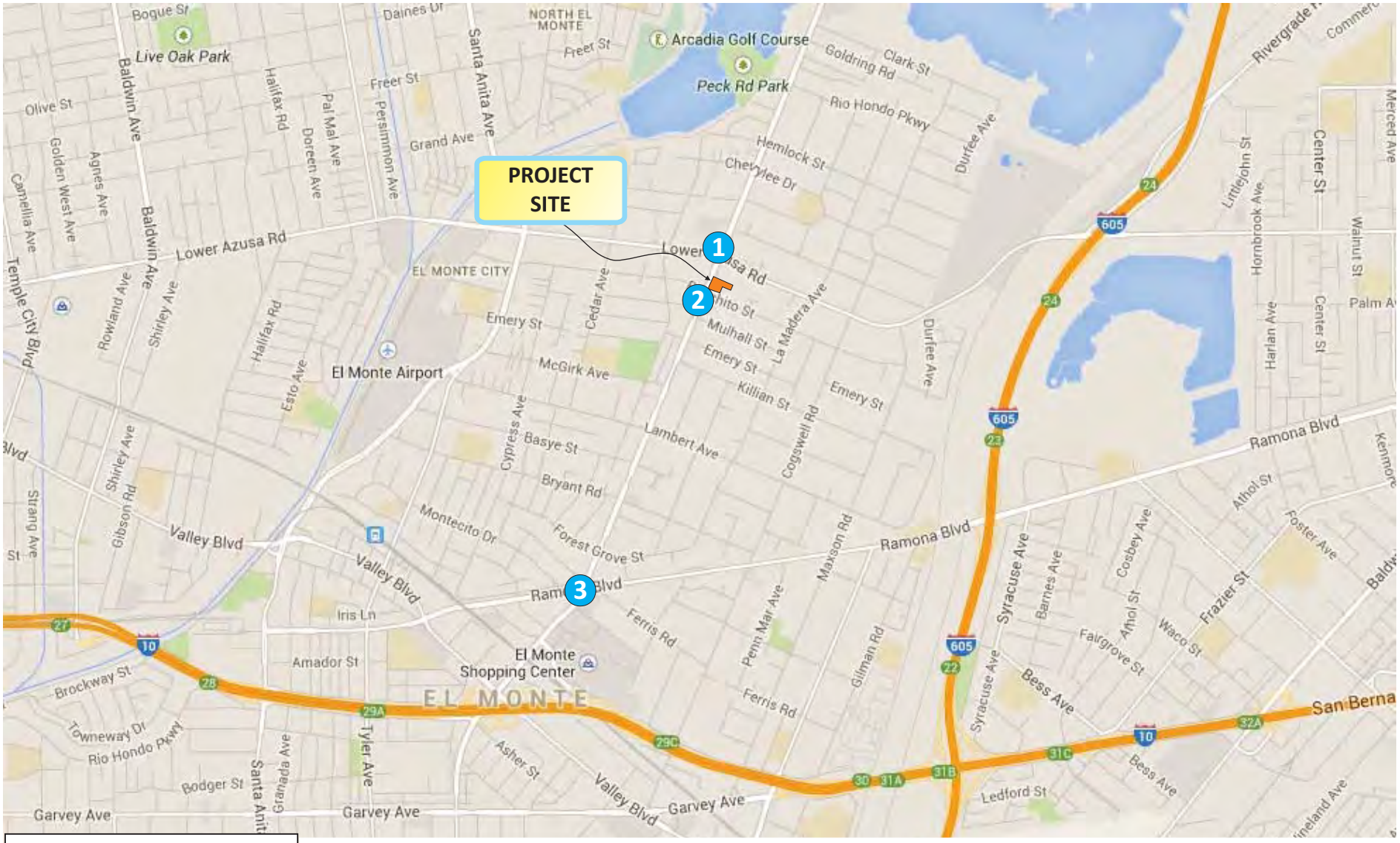
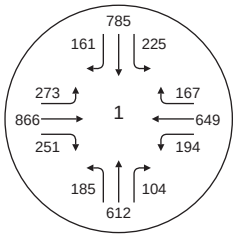
Figure 12

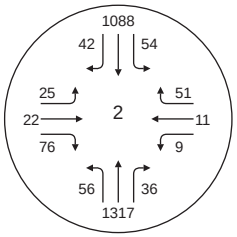
Opening Year (2017) without Project - Weekday AM Peak Hour Turn Volumes




**Legend**

- Project Site Location
- # Study Intersection and Reference Number
- XX Intersection Volumes



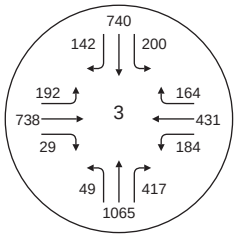



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Figure 13

Opening Year (2017) without Project - Weekday PM Peak Hour Turn Volumes

# 6. Opening Year (2017) with-Project Conditions

This section documents future traffic conditions at the study intersections with the addition of Project-generated traffic. Traffic volumes for these conditions were derived by adding Project trips to the Opening Year (2017) without-Project scenario volumes.

The Opening Year (2017) with-Project traffic volumes are illustrated on Figures 14 and 15 for the weekday a.m. and p.m. peak hours, respectively.

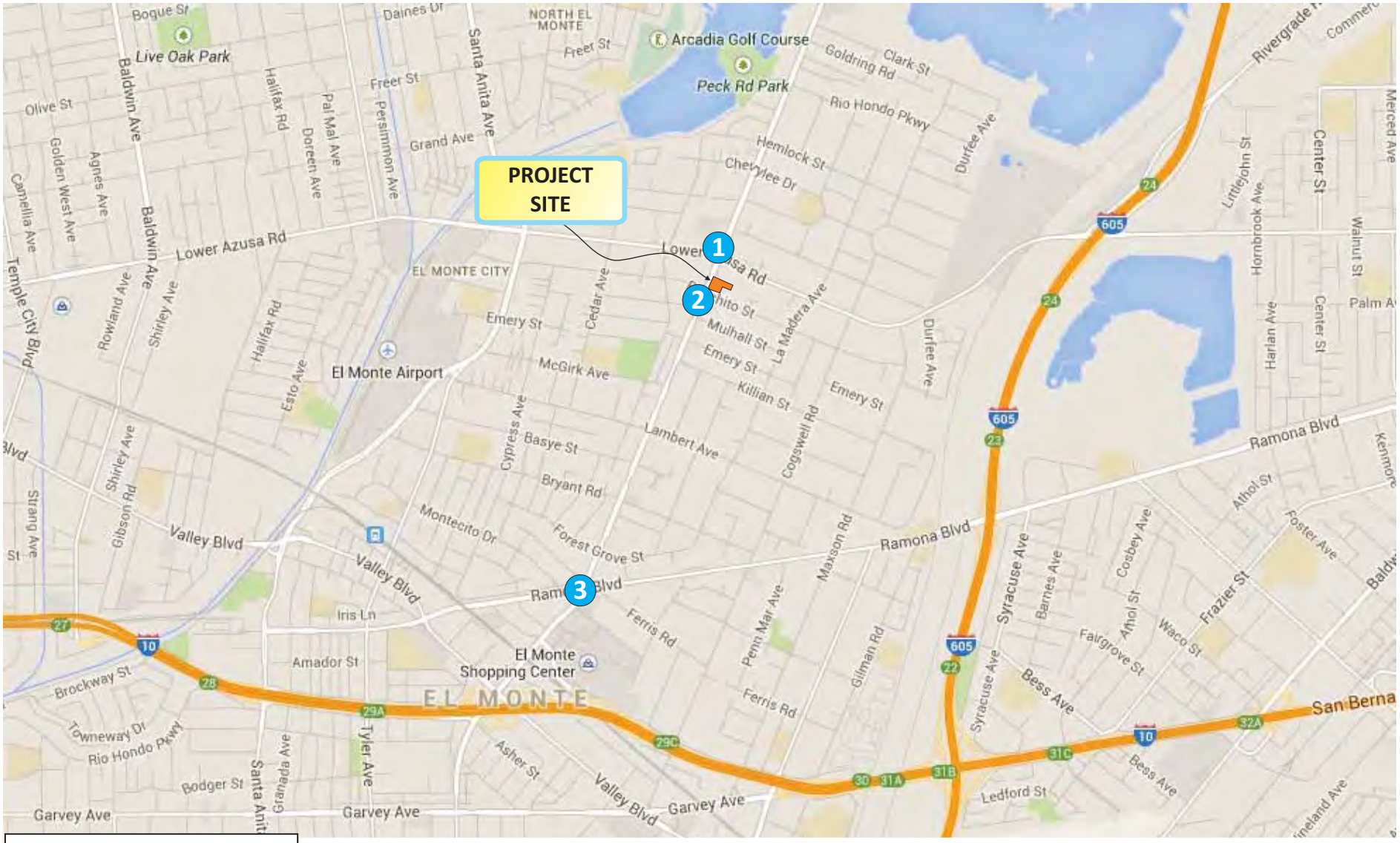
Table 7 summarizes the resulting V/C and LOS values at the study intersections for the future with-Project traffic conditions. The Opening Year (2017) with-Project traffic analysis worksheets are provided in Appendix F of this report.

Two of the three study intersections are projected to operate at LOS D or better during the analyzed peak hours. The Peck Road and Lower Azusa Road study intersection will continue to operate at LOS E during the a.m. and p.m. peak hours. The Peck Road and Ramona Boulevard study intersection will operate at LOS E during the p.m. peak hour.

**Table 7 - Intersection Performance – Opening Year (2017) with-Project**

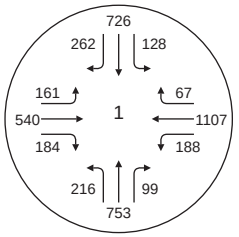
| Study Intersections | | AM Peak | | PM Peak | |
|---|---|---|---|---|---|
| | | V/C | LOS | V/C | LOS |
| 1 | Peck Road / Lower Azusa Road | 0.929 | **E** | 0.936 | **E** |
| 2 | Peck Road / Ranchito Street | 0.662 | B | 0.643 | B |
| 3 | Peck Road / Ramona Boulevard | 0.699 | B | 0.907 | **E** |

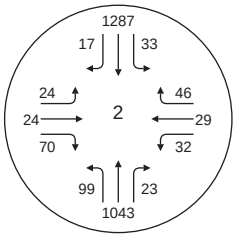
The determination of significant traffic impacts created by Project traffic is discussed in Section 7 of this report section.




**Legend**

- Project Site Location
- # Study Intersection and Reference Number
- XX Intersection Volumes



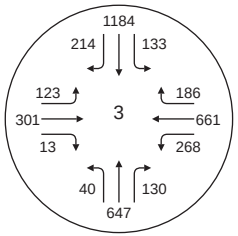



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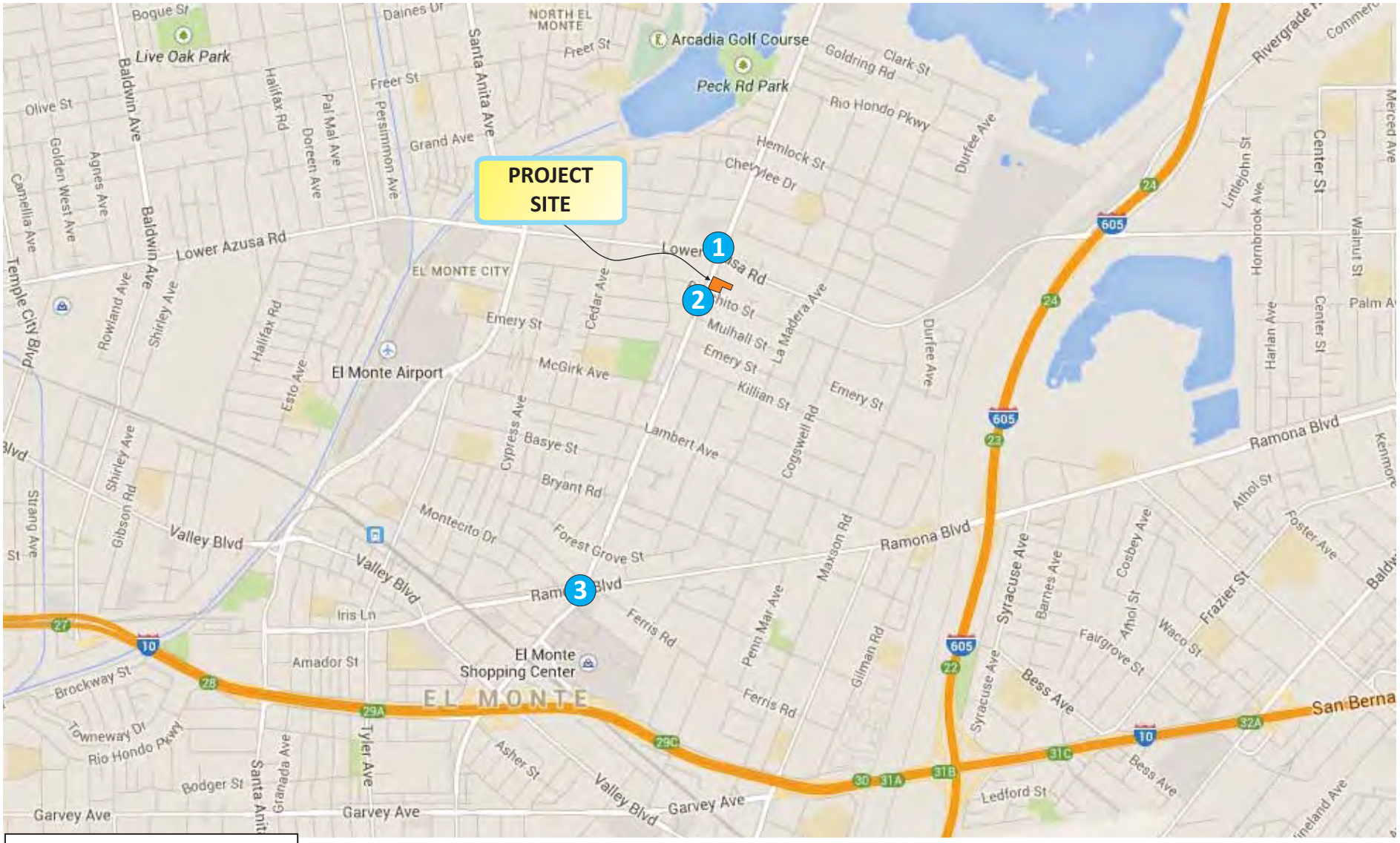
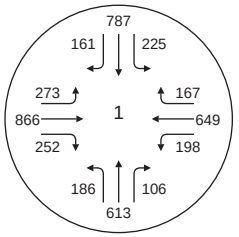
Figure 14

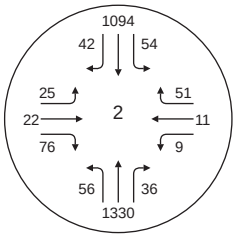
Opening Year (2017) with Project - Weekday AM Peak Hour Turn Volumes




**Legend**

- Project Site Location
- # Study Intersection and Reference Number
- XX Intersection Volumes



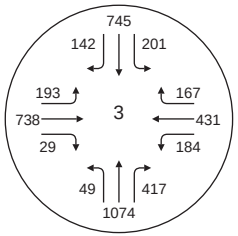



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Figure 15

Opening Year (2017) with Project - Weekday PM Peak Hour Turn Volumes

# 7. Project Traffic Impacts and Mitigation Measures

## *7.1 Determination of Traffic Impacts*

Traffic impacts are identified if a proposed development will result in a significant change in traffic conditions at a study intersection. A significant impact is typically identified if Project-related traffic will cause service levels to deteriorate beyond a threshold limit specified by the overseeing agency.

The City of El Monte has established specific thresholds for Project-related increases in the Intersection Capacity Utilization (ICU) values of signalized study intersections which is consistent with the Los Angeles County Congestion Management Program (CMP). The following increases in peak-hour ICU values are considered significant traffic impacts:

> "The City desires to maintain a level of service (LOS) D throughout the City, except that LOS E may occur in the following circumstances:
> - Intersections/roadways at, or adjacent to, freeway ramps
> - Intersections/roadways on major corridors and transit routes
> - Intersections/roadways on truck routes
> - Intersections/roadways in or adjacent to commercial districts"

To determine whether the addition of Project-generated trips at a signalized study intersection results in a significant impact, the City of El Monte utilizes the following threshold of significance:

- A significant impact occurs when a proposed Project increases traffic demand at a signalized study intersection by two percent or more of capacity (V/C / 0.02), causing or worsening LOS F (V/C > 1.00) for all intersections on major corridors, truck routes, commercial corridors at or adjacent to freeway ramps, and at intersections at or adjacent to freeway ramps.
- A significant impact occurs when a proposed Project increases traffic demand at a signalized study intersection by two percent or more of capacity (V/C / 0.02), causing or worsening LOS E (V/C > 0.90) for all intersections which are not on major corridors, truck routes, commercial corridors at or adjacent to freeway ramps.

## *7.2 Project Traffic Impacts – Existing with-Project Conditions*

Table 8 provides a summary of the Project impacts under existing conditions. Traffic impacts created by the proposed Project were determined by comparing the existing scenario conditions to the existing with-Project scenario conditions.

The proposed Project would not create any significant traffic impacts at the study intersections under existing with-Project conditions, during the weekday a.m. and p.m. peak hours. Project mitigation measures are therefore not recommended for existing with-Project conditions.

Table 8 - Determination of Project Impacts – Existing with-Project Conditions

| Study Intersections | | Peak Hour | Existing (2014) Conditions | | Existing (2014) with Project | | Change in V/C or Delay (sec.) | Sig Impact? |
|---|---|---|---|---|---|---|---|---|
| | | | V/C | LOS | V/C | LOS | | |
| 1 | Peck Road / Lower Azusa Road | AM | 0.875 | D | 0.876 | D | 0.001 | No |
| | | PM | 0.872 | D | 0.876 | D | 0.004 | No |
| 2 | Peck Road / Ranchito Street | AM | 0.633 | B | 0.637 | B | 0.004 | No |
| | | PM | 0.610 | B | 0.614 | B | 0.004 | No |
| 3 | Peck Road / Ramona Boulevard | AM | 0.644 | B | 0.646 | B | 0.002 | No |
| | | PM | 0.835 | D | 0.839 | D | 0.004 | No |

### *7.3 Project Traffic Impacts – Opening Year (2017) with-Project Conditions*

Table 9 provides a summary of the Project impacts under future conditions. Traffic impacts created by the Project were determined by comparing the Opening Year (2017) without-Project scenario conditions to the Opening Year (2017) with-Project scenario conditions.

The proposed Project would not create any significant traffic impact at the study intersections under Opening Year (2017) with-Project conditions, during the weekday a.m. and p.m. peak hours. Project mitigation measures are therefore not recommended for Opening year (2017) with-Project conditions.

Table 9 - Determination of Project Impacts – Opening Year (2017) with-Project

| Study Intersections | | Peak Hour | Opening Year (2017) without Project | | Opening Year (2017) with Project | | Change in V/C or Delay (sec.) | Sig Impact? |
|---|---|---|---|---|---|---|---|---|
| | | | V/C | LOS | V/C | LOS | | |
| 1 | Peck Road / Lower Azusa Road | AM | 0.928 | E | 0.929 | E | 0.001 | No |
| | | PM | 0.931 | E | 0.936 | E | 0.005 | No |
| 2 | Peck Road / Ranchito Street | AM | 0.658 | B | 0.662 | B | 0.004 | No |
| | | PM | 0.638 | B | 0.643 | B | 0.005 | No |
| 3 | Peck Road / Ramona Boulevard | AM | 0.697 | B | 0.699 | B | 0.002 | No |
| | | PM | 0.903 | E | 0.907 | E | 0.004 | No |

# 8. Congestion Management Plan Conformance

This section demonstrates the ways in which this traffic study was prepared to be in conformance with the procedures mandated by the County of Los Angeles Congestion Management Program (CMP).

The CMP was created statewide because of Proposition 111 and was implemented locally by the Los Angeles County Metropolitan Transportation Authority (Metro). The CMP for Los Angeles County requires that the traffic impact of individual development projects of potentially regional significance be analyzed. A specific system of arterial roadways plus all freeways comprises the CMP system. Per CMP Transportation Impact Analysis (TIA) Guidelines, a traffic impact analysis is conducted where:

- At CMP arterial monitoring intersections, including freeway on-ramps or off-ramps, where the proposed Project will add 50 or more vehicle trips during either a.m. or p.m. weekday peak hours.

- At CMP mainline freeway-monitoring locations, where the Project will add 150 or more trips, in either direction, during the either the a.m. or p.m. weekday peak hours.

The nearest CMP arterial monitoring intersections to the Project site are at Rosemead Boulevard and Valley Boulevard (CMP Location 131) and Rosemead Boulevard and Garvey Avenue (CMP Location 142), which is located approximately 3.5 miles west of the Project site. Based on the trip generation and distribution of the Project as shown on Figures 7 and 8, it is not expected that 50 or more new Project trips per hour would be added at these CMP intersections. Therefore, no further analysis of potential CMP impacts is required.

In addition, the proposed Project is expected to add less than 150 new trips per hour, in either direction, to any freeway segments based on the Project trip generation defined in Table 4. Therefore, no further analysis of CMP freeway monitoring stations is required.

# 9. Analysis Summary and Conclusions

The following summarizes the traffic study results, conclusions and recommendations:

- The proposed Project would provide 49 units of which there would be 21 one-bedroom units, 13 two-bedroom units, and 15 three-bedroom units.

- The proposed Project would provide 77 parking spaces on-site. Vehicular access to on-site parking will be provided from Peck Road.

- The existing two-way left-turn center lane on Peck Road will need to be modified to accommodate full access at the project driveway.

- The proposed Project would generate approximately 326 daily weekday trips including 25 trips during the a.m. peak hour and 30 trips during the p.m. peak hour.

- Based on the applied significant traffic impact criteria, the proposed Project would not create any significant traffic impacts at the study intersections under existing with-Project and Opening Year (2017) with-Project conditions during the a.m. and p.m. peak hours.

- The proposed Project is not anticipated to cause a significant traffic impact on any CMP arterial monitoring intersections and mainline freeway-monitoring locations.

# APPENDIX A
## Traffic Count Data

| Intersection #1 - Peck Road/Lower Azusa Road | | | | | | | |
|---|---|---|---|---|---|---|---|
| AM | | | | PM | | | |
| Move | 2012 Count | Growth Factor | Final Volume | Move | 2012 Count | Growth Factor | Final Volume |
| NBL | 191 | 1.0164 | 194 | NBL | 170 | 1.0164 | 173 |
| NBT | 704 | 1.0164 | 716 | NBT | 564 | 1.0164 | 573 |
| NBR | 84 | 1.0164 | 85 | NBR | 94 | 1.0164 | 96 |
| SBL | 122 | 1.0164 | 124 | SBL | 215 | 1.0164 | 219 |
| SBT | 683 | 1.0164 | 694 | SBT | 727 | 1.0164 | 739 |
| SBR | 244 | 1.0164 | 248 | SBR | 145 | 1.0164 | 147 |
| EBL | 149 | 1.0164 | 151 | EBL | 250 | 1.0164 | 254 |
| EBT | 497 | 1.0164 | 505 | EBT | 781 | 1.0164 | 794 |
| EBR | 170 | 1.0164 | 173 | EBR | 224 | 1.0164 | 228 |
| WBL | 176 | 1.0164 | 179 | WBL | 178 | 1.0164 | 181 |
| WBT | 1014 | 1.0164 | 1031 | WBT | 601 | 1.0164 | 611 |
| WBR | 63 | 1.0164 | 64 | WBR | 159 | 1.0164 | 162 |

| Intersection #2 - Peck Road/Ranchito Street | | | | | | | |
|---|---|---|---|---|---|---|---|
| AM | | | | PM | | | |
| Move | 2014 Count | Growth Factor | Final Volume | Move | 2012 Count | Growth Factor | Final Volume |
| NBL | 96 | 1.0000 | 96 | NBL | 53 | 1.0000 | 53 |
| NBT | 977 | 1.0000 | 977 | NBT | 1242 | 1.0000 | 1242 |
| NBR | 21 | 1.0000 | 21 | NBR | 32 | 1.0000 | 32 |
| SBL | 32 | 1.0000 | 32 | SBL | 53 | 1.0000 | 53 |
| SBT | 1218 | 1.0000 | 1218 | SBT | 1005 | 1.0000 | 1005 |
| SBR | 17 | 1.0000 | 17 | SBR | 40 | 1.0000 | 40 |
| EBL | 22 | 1.0000 | 22 | EBL | 24 | 1.0000 | 24 |
| EBT | 23 | 1.0000 | 23 | EBT | 21 | 1.0000 | 21 |
| EBR | 66 | 1.0000 | 66 | EBR | 73 | 1.0000 | 73 |
| WBL | 29 | 1.0000 | 29 | WBL | 8 | 1.0000 | 8 |
| WBT | 28 | 1.0000 | 28 | WBT | 11 | 1.0000 | 11 |
| WBR | 44 | 1.0000 | 44 | WBR | 50 | 1.0000 | 50 |

| Intersection #3 - Peck Road/Lower Azusa Road | | | | | | | |
|---|---|---|---|---|---|---|---|
| AM | | | | PM | | | |
| Move | 2012 Count | Growth Factor | Final Volume | Move | 2012 Count | Growth Factor | Final Volume |
| NBL | 39 | 1.0082 | 39 | NBL | 48 | 1.0082 | 48 |
| NBT | 600 | 1.0082 | 605 | NBT | 1004 | 1.0082 | 1012 |
| NBR | 122 | 1.0082 | 123 | NBR | 397 | 1.0082 | 400 |
| SBL | 124 | 1.0082 | 125 | SBL | 186 | 1.0082 | 188 |
| SBT | 1114 | 1.0082 | 1123 | SBT | 691 | 1.0082 | 697 |
| SBR | 188 | 1.0082 | 190 | SBR | 114 | 1.0082 | 115 |
| EBL | 105 | 1.0082 | 106 | EBL | 161 | 1.0082 | 162 |
| EBT | 241 | 1.0082 | 243 | EBT | 608 | 1.0082 | 613 |
| EBR | 13 | 1.0082 | 13 | EBR | 28 | 1.0082 | 28 |
| WBL | 254 | 1.0082 | 256 | WBL | 174 | 1.0082 | 175 |
| WBT | 570 | 1.0082 | 575 | WBT | 326 | 1.0082 | 329 |
| WBR | 174 | 1.0082 | 175 | WBR | 155 | 1.0082 | 156 |

# ITM Peak Hour Summary

Prepared by:

NDS

National Data & Surveying Services

## *Peck Rd and Ranchito St , El Monte*

Date: 09/10/14

Day: Wednesday

Project #: 14-5588-001

City: El Monte

| | |
|---|---|
| AM Peak Hour | 715 AM |
| NOON Peak Hour | |
| PM Peak Hour | 415 PM |

### Peak Hour Summary

**Southbound Approach** (Peck Rd)

| | Lanes 0 | 2 | 1 | | |
|---|---|---|---|---|---|
| AM | 17 | 1218 | 32 | 1043 | AM |
| NOON | 0 | 0 | 0 | 0 | NOON |
| PM | 40 | 1005 | 53 | 1316 | PM |

**Eastbound Approach** (Ranchito St)

| | AM | NOON | PM |
|---|---|---|---|
| | 141 | 0 | 104 |
| 0 | 22 | 0 | 24 |
| 1 | 23 | 0 | 21 |
| 0 | 66 | 0 | 73 |
| Lanes | AM | NOON | PM |

**Westbound Approach**

| | AM | NOON | PM | Lanes |
|---|---|---|---|---|
| | 44 | 0 | 50 | 0 |
| | 28 | 0 | 11 | 1 |
| | 29 | 0 | 8 | 0 |
| | 76 | 0 | 106 | |
| | AM | NOON | PM | |

**Northbound Approach**

| | | | | |
|---|---|---|---|---|
| AM | 1313 | 96 | 977 | 21 | AM |
| NOON | 0 | 0 | 0 | 0 | NOON |
| PM | 1086 | 53 | 1242 | 32 | PM |
| | | 1 | 2 | 0 | Lanes |

**CONTROL**

Signalized

| Count Periods | Start | End |
|---|---|---|
| AM | 7:00 AM | 9:00 AM |
| NOON | | |
| PM | 4:00 PM | 6:00 PM |

### Total Ins & Outs

| | North Leg | | |
|---|---|---|---|
| | 1267 | 1043 | AM |
| | 0 | 0 | NOON |
| | 1098 | 1316 | PM |

| West Leg | | | East Leg | | |
|---|---|---|---|---|---|
| AM | NOON | PM | | | |
| 141 | 0 | 104 | 101 | 0 | 69 |
| 111 | 0 | 118 | 76 | 0 | 106 |
| | | | AM | NOON | PM |

| | South Leg | |
|---|---|---|
| AM | 1313 | 1094 |
| NOON | 0 | 0 |
| PM | 1086 | 1327 |

### Total Volume Per Leg

| | North Leg |
|---|---|
| AM | 2310 |
| NOON | 0 |
| PM | 2414 |

| West Leg | | | East Leg | | |
|---|---|---|---|---|---|
| AM | NOON | PM | | | |
| 252 | 0 | 222 | 177 | 0 | 175 |
| | | | AM | NOON | PM |

| | South Leg |
|---|---|
| AM | 2407 |
| NOON | 0 |
| PM | 2413 |

# Intersection Turning Movement

**Prepared by:**

## National Data & Surveying Services

**Project ID:** 14-5588-001 **Day:** Wednesday

**City:** El Monte **Date:** 9/10/2014

**AM**

| **NS/EW Streets:** | Peck Rd | | | Peck Rd | | | Ranchito St | | | Ranchito St | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NORTHBOUND | | | SOUTHBOUND | | | EASTBOUND | | | WESTBOUND | | | |
| | NL | NT | NR | SL | ST | SR | EL | ET | ER | WL | WT | WR | TOTAL |
| LANES: | 1 | 2 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | |
| 7:00 AM | 17 | 180 | 1 | 2 | 226 | 8 | 4 | 6 | 22 | 5 | 3 | 7 | 481 |
| 7:15 AM | 35 | 199 | 8 | 7 | 245 | 4 | 3 | 9 | 18 | 10 | 8 | 14 | 560 |
| 7:30 AM | 37 | 314 | 4 | 6 | 344 | 6 | 7 | 7 | 18 | 9 | 9 | 10 | 771 |
| 7:45 AM | 17 | 230 | 3 | 15 | 335 | 4 | 9 | 2 | 25 | 5 | 5 | 8 | 658 |
| 8:00 AM | 7 | 234 | 6 | 4 | 294 | 3 | 3 | 5 | 5 | 5 | 6 | 12 | 584 |
| 8:15 AM | 13 | 191 | 20 | 23 | 236 | 4 | 2 | 3 | 5 | 3 | 2 | 7 | 509 |
| 8:30 AM | 6 | 191 | 4 | 3 | 221 | 4 | 2 | 1 | 7 | 3 | 2 | 10 | 454 |
| 8:45 AM | 8 | 155 | 5 | 1 | 171 | 6 | 0 | 0 | 4 | 1 | 1 | 6 | 358 |
| | NL | NT | NR | SL | ST | SR | EL | ET | ER | WL | WT | WR | TOTAL |
| **TOTAL VOLUMES :** | 140 | 1694 | 51 | 61 | 2072 | 39 | 30 | 33 | 104 | 41 | 36 | 74 | 4375 |
| **APPROACH %'s :** | 7.43% | 89.87% | 2.71% | 2.81% | 95.40% | 1.80% | 17.96% | 19.76% | 62.28% | 27.15% | 23.84% | 49.01% | |
| **PEAK HR START TIME :** | 715 AM | | | | | | | | | | | | TOTAL |
| **PEAK HR VOL :** | 96 | 977 | 21 | 32 | 1218 | 17 | 22 | 23 | 66 | 29 | 28 | 44 | 2573 |
| **PEAK HR FACTOR :** | | 0.770 | | | 0.890 | | | 0.771 | | | 0.789 | | 0.834 |

**CONTROL :** Signalized

# Intersection Turning Movement

**Prepared by:**

## National Data & Surveying Services

**Project ID:** 14-5588-001 **Day:** Wednesday

**City:** El Monte **Date:** 9/10/2014

**PM**

| **NS/EW Streets:** | Peck Rd | | | Peck Rd | | | Ranchito St | | | Ranchito St | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NORTHBOUND | | | SOUTHBOUND | | | EASTBOUND | | | WESTBOUND | | | |
| | NL | NT | NR | SL | ST | SR | EL | ET | ER | WL | WT | WR | TOTAL |
| LANES: | 1 | 2 | 0 | 1 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | |
| 4:00 PM | 11 | 274 | 6 | 10 | 240 | 5 | 5 | 5 | 12 | 0 | 1 | 13 | 582 |
| 4:15 PM | 4 | 298 | 7 | 10 | 229 | 11 | 2 | 4 | 19 | 3 | 1 | 14 | 602 |
| 4:30 PM | 14 | 319 | 8 | 16 | 229 | 2 | 5 | 4 | 17 | 1 | 4 | 11 | 630 |
| 4:45 PM | 20 | 299 | 7 | 17 | 281 | 15 | 12 | 1 | 15 | 0 | 4 | 15 | 686 |
| 5:00 PM | 15 | 326 | 10 | 10 | 266 | 12 | 5 | 12 | 22 | 4 | 2 | 10 | 694 |
| 5:15 PM | 3 | 212 | 4 | 5 | 234 | 6 | 1 | 8 | 9 | 3 | 5 | 9 | 499 |
| 5:30 PM | 12 | 291 | 8 | 22 | 247 | 5 | 7 | 9 | 13 | 0 | 2 | 13 | 629 |
| 5:45 PM | 14 | 338 | 9 | 9 | 263 | 7 | 3 | 4 | 10 | 4 | 2 | 8 | 671 |
| | NL | NT | NR | SL | ST | SR | EL | ET | ER | WL | WT | WR | TOTAL |
| **TOTAL VOLUMES :** | 93 | 2357 | 59 | 99 | 1989 | 63 | 40 | 47 | 117 | 15 | 21 | 93 | 4993 |
| **APPROACH %'s :** | 3.71% | 93.94% | 2.35% | 4.60% | 92.47% | 2.93% | 19.61% | 23.04% | 57.35% | 11.63% | 16.28% | 72.09% | |
| **PEAK HR START TIME :** | 415 PM | | | | | | | | | | | | TOTAL |
| **PEAK HR VOL :** | 53 | 1242 | 32 | 53 | 1005 | 40 | 24 | 21 | 73 | 8 | 11 | 50 | 2612 |
| **PEAK HR FACTOR :** | | 0.945 | | | 0.877 | | | 0.756 | | | 0.908 | | 0.941 |

**CONTROL :** Signalized

Counts Unlimited Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of El Monte
N/S: Peck Road
E/W: Lower Azusa Road
Weather: Sunny

File Name : ELMPELAAM
Site Code : 00000014
Start Date : 9/13/2012
Page No : 1

Groups Printed- Total Volume

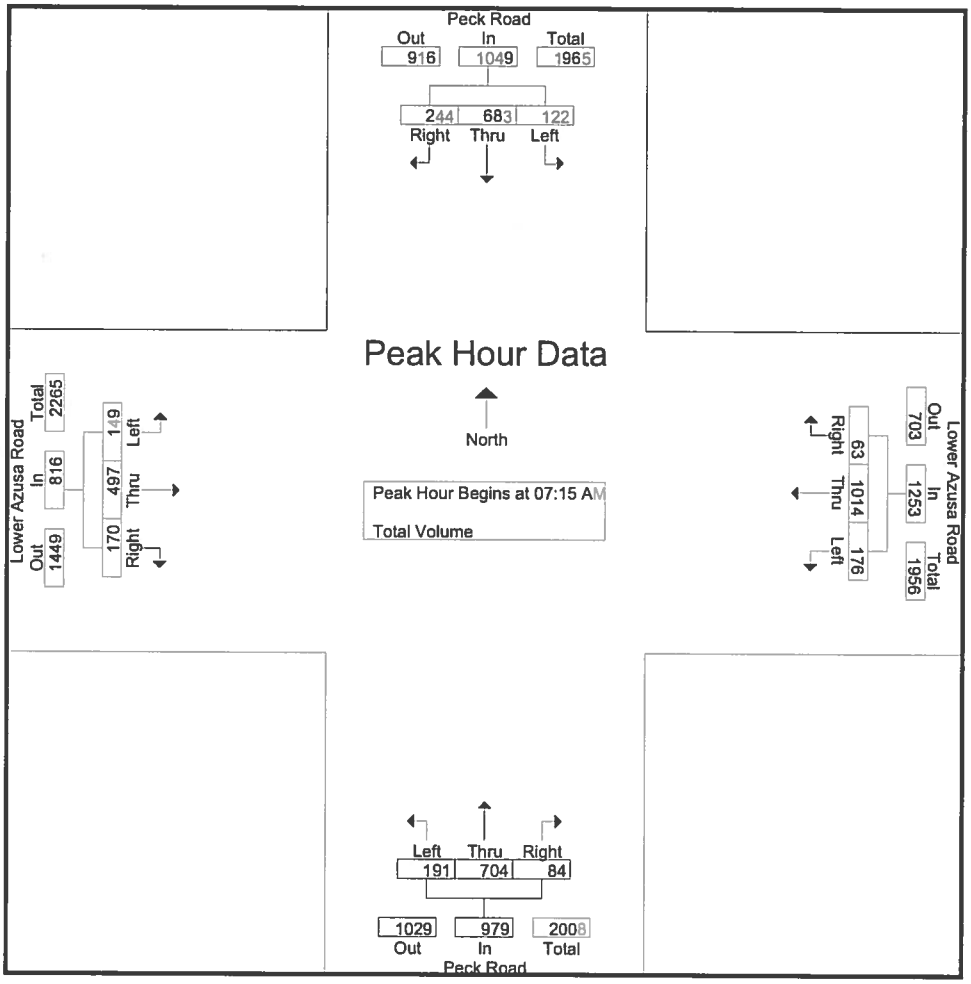
| | Peck Road Southbound | | | | Lower Azusa Road Westbound | | | | Peck Road Northbound | | | | Lower Azusa Road Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 15 | 105 | 48 | 168 | 32 | 240 | 18 | 290 | 47 | 102 | 14 | 163 | 31 | 96 | 30 | 157 | 778 |
| 07:15 AM | 27 | 130 | 47 | 204 | 47 | 276 | 14 | 337 | 50 | 132 | 18 | 200 | 25 | 106 | 37 | 168 | 909 |
| 07:30 AM | 31 | 199 | 67 | 297 | 42 | 254 | 11 | 307 | 50 | 223 | 21 | 294 | 34 | 128 | 48 | 210 | 1108 |
| 07:45 AM | 48 | 200 | 60 | 308 | 54 | 241 | 17 | 312 | 48 | 220 | 14 | 282 | 46 | 144 | 50 | 240 | 1142 |
| Total | 121 | 634 | 222 | 977 | 175 | 1011 | 60 | 1246 | 195 | 677 | 67 | 939 | 136 | 474 | 165 | 775 | 3937 |
| 08:00 AM | 16 | 154 | 70 | 240 | 33 | 243 | 21 | 297 | 43 | 129 | 31 | 203 | 44 | 119 | 35 | 198 | 938 |
| 08:15 AM | 18 | 123 | 38 | 179 | 40 | 190 | 21 | 251 | 56 | 174 | 16 | 246 | 38 | 110 | 32 | 180 | 856 |
| 08:30 AM | 24 | 127 | 46 | 197 | 37 | 172 | 28 | 237 | 46 | 117 | 25 | 188 | 42 | 96 | 42 | 180 | 802 |
| 08:45 AM | 14 | 120 | 27 | 161 | 34 | 165 | 20 | 219 | 51 | 125 | 17 | 193 | 57 | 89 | 34 | 180 | 753 |
| Total | 72 | 524 | 181 | 777 | 144 | 770 | 90 | 1004 | 196 | 545 | 89 | 830 | 181 | 414 | 143 | 738 | 3349 |
| Grand Total | 193 | 1158 | 403 | 1754 | 319 | 1781 | 150 | 2250 | 391 | 1222 | 156 | 1769 | 317 | 888 | 308 | 1513 | 7286 |
| Apprch % | 11 | 66 | 23 | | 14.2 | 79.2 | 6.7 | | 22.1 | 69.1 | 8.8 | | 21 | 58.7 | 20.4 | | |
| Total % | 2.6 | 15.9 | 5.5 | 24.1 | 4.4 | 24.4 | 2.1 | 30.9 | 5.4 | 16.8 | 2.1 | 24.3 | 4.4 | 12.2 | 4.2 | 20.8 | |

| | Peck Road Southbound | | | | Lower Azusa Road Westbound | | | | Peck Road Northbound | | | | Lower Azusa Road Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:15 AM | | | | | | | | | | | | | | | | | |
| 07:15 AM | 27 | 130 | 47 | 204 | 47 | **276** | 14 | **337** | **50** | 132 | 18 | 200 | 25 | 106 | 37 | 168 | 909 |
| 07:30 AM | 31 | 199 | 67 | 297 | 42 | 254 | 11 | 307 | 50 | **223** | 21 | **294** | 34 | 128 | 48 | 210 | 1108 |
| 07:45 AM | **48** | **200** | 60 | **308** | **54** | 241 | 17 | 312 | 48 | 220 | 14 | 282 | **46** | **144** | **50** | **240** | **1142** |
| 08:00 AM | 16 | 154 | **70** | 240 | 33 | 243 | **21** | 297 | 43 | 129 | **31** | 203 | 44 | 119 | 35 | 198 | 938 |
| Total Volume | 122 | 683 | 244 | 1049 | 176 | 1014 | 63 | 1253 | 191 | 704 | 84 | 979 | 149 | 497 | 170 | 816 | 4097 |
| % App. Total | 11.6 | 65.1 | 23.3 | | 14 | 80.9 | 5 | | 19.5 | 71.9 | 8.6 | | 18.3 | 60.9 | 20.8 | | |
| PHF | .635 | .854 | .871 | .851 | .815 | .918 | .750 | .930 | .955 | .789 | .677 | .832 | .810 | .863 | .850 | .850 | .897 |

Counts Unlimited Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of El Monte
N/S: Peck Road
E/W: Lower Azusa Road
Weather: Sunny

File Name : ELMPELAAM
Site Code : 00000014
Start Date : 9/13/2012
Page No : 2




Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:15 AM | | | | 07:15 AM | | | | 07:30 AM | | | | 07:30 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 27 | 130 | 47 | 204 | 47 | **276** | 14 | **337** | 50 | **223** | 21 | **294** | 34 | 128 | 48 | 210 |
| +15 mins. | 31 | 199 | 67 | 297 | 42 | 254 | 11 | 307 | 48 | 220 | 14 | 282 | **46** | **144** | **50** | **240** |
| +30 mins. | **48** | **200** | 60 | **308** | **54** | 241 | 17 | 312 | 43 | 129 | **31** | 203 | 44 | 119 | 35 | 198 |
| +45 mins. | 16 | 154 | **70** | 240 | 33 | 243 | **21** | 297 | **56** | 174 | 16 | 246 | 38 | 110 | 32 | 180 |
| Total Volume | 122 | 683 | 244 | 1049 | 176 | 1014 | 63 | 1253 | 197 | 746 | 82 | 1025 | 162 | 501 | 165 | 828 |
| % App. Total | 11.6 | 65.1 | 23.3 | | 14 | 80.9 | 5 | | 19.2 | 72.8 | 8 | | 19.6 | 60.5 | 19.9 | |
| PHF | .635 | .854 | .871 | .851 | .815 | .918 | .750 | .930 | .879 | .836 | .661 | .872 | .880 | .870 | .825 | .863 |

Counts Unlimited Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of El Monte
N/S: Peck Road
E/W: Lower Azusa Road
Weather: Sunny

File Name : ELMPELAPM
Site Code : 00000014
Start Date : 9/13/2012
Page No : 1

Groups Printed- Total Volume

| | Peck Road Southbound | | | | Lower Azusa Road Westbound | | | | Peck Road Northbound | | | | Lower Azusa Road Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 59 | 161 | 37 | 257 | 23 | 134 | 41 | 198 | 41 | 115 | 21 | 177 | 48 | 164 | 41 | 253 | 885 |
| 04:15 PM | 45 | 185 | 31 | 261 | 51 | 161 | 33 | 245 | 35 | 114 | 18 | 167 | 63 | 185 | 46 | 294 | 967 |
| 04:30 PM | 69 | 184 | 39 | 292 | 42 | 136 | 40 | 218 | 41 | 116 | 6 | 163 | 49 | 187 | 46 | 282 | 955 |
| 04:45 PM | 42 | 167 | 35 | 244 | 37 | 179 | 41 | 257 | 44 | 132 | 16 | 192 | 57 | 169 | 53 | 279 | 972 |
| Total | 215 | 697 | 142 | 1054 | 153 | 610 | 155 | 918 | 161 | 477 | 61 | 699 | 217 | 705 | 186 | 1108 | 3779 |
| 05:00 PM | 61 | 193 | 29 | 283 | 53 | 151 | 43 | 247 | 44 | 138 | 32 | 214 | 64 | 200 | 59 | 323 | 1067 |
| 05:15 PM | 52 | 183 | 34 | 269 | 50 | 151 | 38 | 239 | 41 | 132 | 23 | 196 | 57 | 195 | 58 | 310 | 1014 |
| 05:30 PM | 54 | 174 | 38 | 266 | 34 | 155 | 37 | 226 | 42 | 135 | 22 | 199 | 60 | 189 | 51 | 300 | 991 |
| 05:45 PM | 48 | 177 | 44 | 269 | 41 | 144 | 41 | 226 | 43 | 159 | 17 | 219 | 69 | 197 | 56 | 322 | 1036 |
| Total | 215 | 727 | 145 | 1087 | 178 | 601 | 159 | 938 | 170 | 564 | 94 | 828 | 250 | 781 | 224 | 1255 | 4108 |
| Grand Total | 430 | 1424 | 287 | 2141 | 331 | 1211 | 314 | 1856 | 331 | 1041 | 155 | 1527 | 467 | 1486 | 410 | 2363 | 7887 |
| Apprch % | 20.1 | 66.5 | 13.4 | | 17.8 | 65.2 | 16.9 | | 21.7 | 68.2 | 10.2 | | 19.8 | 62.9 | 17.4 | | |
| Total % | 5.5 | 18.1 | 3.6 | 27.1 | 4.2 | 15.4 | 4 | 23.5 | 4.2 | 13.2 | 2 | 19.4 | 5.9 | 18.8 | 5.2 | 30 | |

| | Peck Road Southbound | | | | Lower Azusa Road Westbound | | | | Peck Road Northbound | | | | Lower Azusa Road Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 05:00 PM | | | | | | | | | | | | | | | | | |
| 05:00 PM | **61** | **193** | 29 | **283** | **53** | 151 | **43** | **247** | **44** | 138 | **32** | 214 | 64 | **200** | **59** | **323** | **1067** |
| 05:15 PM | 52 | 183 | 34 | 269 | 50 | 151 | 38 | 239 | 41 | 132 | 23 | 196 | 57 | 195 | 58 | 310 | 1014 |
| 05:30 PM | 54 | 174 | 38 | 266 | 34 | **155** | 37 | 226 | 42 | 135 | 22 | 199 | 60 | 189 | 51 | 300 | 991 |
| 05:45 PM | 48 | 177 | **44** | 269 | 41 | 144 | 41 | 226 | 43 | **159** | 17 | **219** | **69** | 197 | 56 | 322 | 1036 |
| Total Volume | 215 | 727 | 145 | 1087 | 178 | 601 | 159 | 938 | 170 | 564 | 94 | 828 | 250 | 781 | 224 | 1255 | 4108 |
| % App. Total | 19.8 | 66.9 | 13.3 | | 19 | 64.1 | 17 | | 20.5 | 68.1 | 11.4 | | 19.9 | 62.2 | 17.8 | | |
| PHF | .881 | .942 | .824 | .960 | .840 | .969 | .924 | .949 | .966 | .887 | .734 | .945 | .906 | .976 | .949 | .971 | .963 |

Counts Unlimited Inc.
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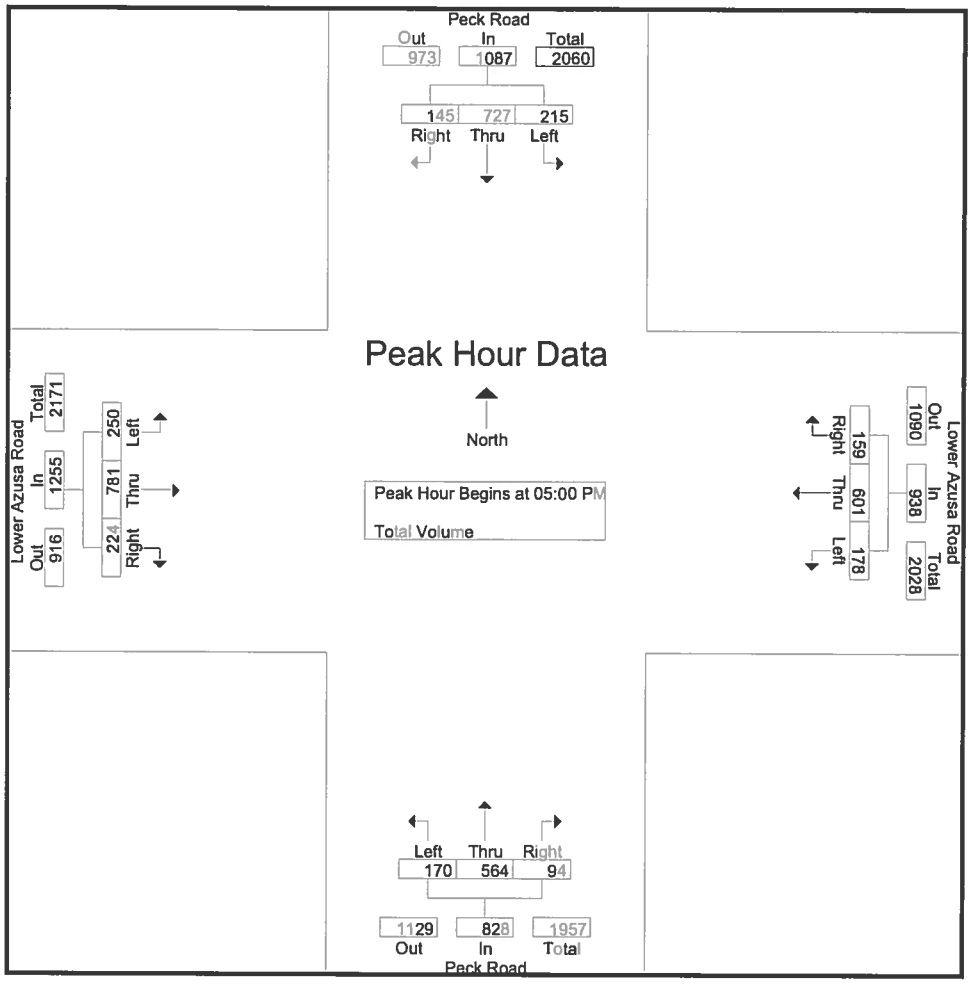
Corona, CA 92878
(951) 268-6268

City of El Monte
N/S: Peck Road
E/W: Lower Azusa Road
Weather: Sunny

File Name : ELMPELAPM
Site Code : 00000014
Start Date : 9/13/2012
Page No : 2




Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 04:30 PM | | | | 04:45 PM | | | | 05:00 PM | | | | 05:00 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | **69** | 184 | **39** | **292** | 37 | **179** | 41 | **257** | 44 | 138 | **32** | 214 | 64 | **200** | **59** | **323** |
| +15 mins. | 42 | 167 | 35 | 244 | **53** | 151 | **43** | 247 | 41 | 132 | 23 | 196 | 57 | 195 | 58 | 310 |
| +30 mins. | 61 | **193** | 29 | 283 | 50 | 151 | 38 | 239 | 42 | 135 | 22 | 199 | 60 | 189 | 51 | 300 |
| +45 mins. | 52 | 183 | 34 | 269 | 34 | 155 | 37 | 226 | 43 | **159** | 17 | **219** | **69** | 197 | 56 | 322 |
| Total Volume | 224 | 727 | 137 | 1088 | 174 | 636 | 159 | 969 | 170 | 564 | 94 | 828 | 250 | 781 | 224 | 1255 |
| % App. Total | 20.6 | 66.8 | 12.6 | | 18 | 65.6 | 16.4 | | 20.5 | 68.1 | 11.4 | | 19.9 | 62.2 | 17.8 | |
| PHF | .812 | .942 | .878 | .932 | .821 | .888 | .924 | .943 | .966 | .887 | .734 | .945 | .906 | .976 | .949 | .971 |

Counts Unlimited Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of El Monte
N/S: Peck Road
E/W: Ramona Boulevard
Weather: Sunny

File Name : ELMPERAAM
Site Code : 00002222
Start Date : 6/6/2013
Page No : 1

Groups Printed- Total Volume

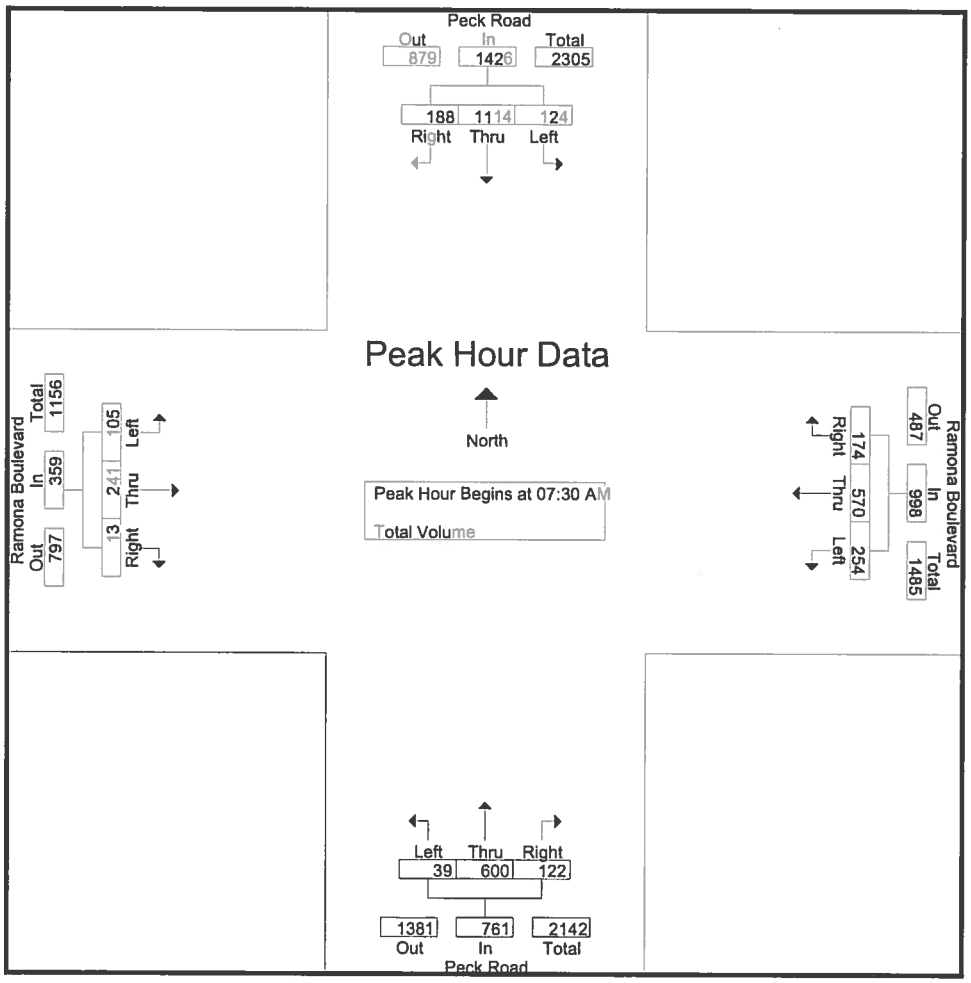
| | Peck Road Southbound | | | | Ramona Boulevard Westbound | | | | Peck Road Northbound | | | | Ramona Boulevard Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 07:00 AM | 28 | 160 | 15 | 203 | 55 | 127 | 30 | 212 | 3 | 96 | 32 | 131 | 15 | 31 | 6 | 52 | 598 |
| 07:15 AM | 26 | 236 | 37 | 299 | 63 | 141 | 38 | 242 | 9 | 124 | 24 | 157 | 6 | 36 | 3 | 45 | 743 |
| 07:30 AM | 30 | 266 | 41 | 337 | 62 | 165 | 55 | 282 | 15 | 145 | 30 | 190 | 21 | 43 | 2 | 66 | 875 |
| 07:45 AM | 28 | 320 | 55 | 403 | 77 | 181 | 45 | 303 | 9 | 150 | 26 | 185 | 24 | 67 | 4 | 95 | 986 |
| Total | 112 | 982 | 148 | 1242 | 257 | 614 | 168 | 1039 | 36 | 515 | 112 | 663 | 66 | 177 | 15 | 258 | 3202 |
| 08:00 AM | 32 | 297 | 54 | 383 | 67 | 121 | 38 | 226 | 8 | 178 | 35 | 221 | 26 | 70 | 5 | 101 | 931 |
| 08:15 AM | 34 | 231 | 38 | 303 | 48 | 103 | 36 | 187 | 7 | 127 | 31 | 165 | 34 | 61 | 2 | 97 | 752 |
| 08:30 AM | 27 | 197 | 35 | 259 | 56 | 104 | 50 | 210 | 9 | 144 | 23 | 176 | 18 | 31 | 6 | 55 | 700 |
| 08:45 AM | 27 | 186 | 11 | 224 | 64 | 98 | 38 | 200 | 22 | 122 | 35 | 179 | 35 | 58 | 1 | 94 | 697 |
| Total | 120 | 911 | 138 | 1169 | 235 | 426 | 162 | 823 | 46 | 571 | 124 | 741 | 113 | 220 | 14 | 347 | 3080 |
| Grand Total | 232 | 1893 | 286 | 2411 | 492 | 1040 | 330 | 1862 | 82 | 1086 | 236 | 1404 | 179 | 397 | 29 | 605 | 6282 |
| Apprch % | 9.6 | 78.5 | 11.9 | | 26.4 | 55.9 | 17.7 | | 5.8 | 77.4 | 16.8 | | 29.6 | 65.6 | 4.8 | | |
| Total % | 3.7 | 30.1 | 4.6 | 38.4 | 7.8 | 16.6 | 5.3 | 29.6 | 1.3 | 17.3 | 3.8 | 22.3 | 2.8 | 6.3 | 0.5 | 9.6 | |

| | Peck Road Southbound | | | | Ramona Boulevard Westbound | | | | Peck Road Northbound | | | | Ramona Boulevard Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 07:30 AM | | | | | | | | | | | | | | | | | |
| 07:30 AM | 30 | 266 | 41 | 337 | 62 | 165 | **55** | 282 | **15** | 145 | 30 | 190 | 21 | 43 | 2 | 66 | 875 |
| 07:45 AM | 28 | **320** | **55** | **403** | **77** | **181** | 45 | **303** | 9 | 150 | 26 | 185 | 24 | 67 | 4 | 95 | **986** |
| 08:00 AM | 32 | 297 | 54 | 383 | 67 | 121 | 38 | 226 | 8 | **178** | **35** | **221** | 26 | **70** | **5** | **101** | 931 |
| 08:15 AM | **34** | 231 | 38 | 303 | 48 | 103 | 36 | 187 | 7 | 127 | 31 | 165 | **34** | 61 | 2 | 97 | 752 |
| Total Volume | 124 | 1114 | 188 | 1426 | 254 | 570 | 174 | 998 | 39 | 600 | 122 | 761 | 105 | 241 | 13 | 359 | 3544 |
| % App. Total | 8.7 | 78.1 | 13.2 | | 25.5 | 57.1 | 17.4 | | 5.1 | 78.8 | 16 | | 29.2 | 67.1 | 3.6 | | |
| PHF | .912 | .870 | .855 | .885 | .825 | .787 | .791 | .823 | .650 | .843 | .871 | .861 | .772 | .861 | .650 | .889 | .899 |

Counts Unlimited Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of El Monte
N/S: Peck Road
E/W: Ramona Boulevard
Weather: Sunny

File Name : ELMPERAAM
Site Code : 00002222
Start Date : 6/6/2013
Page No : 2




Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 07:30 AM | | | | 07:15 AM | | | | 07:30 AM | | | | 07:30 AM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 30 | 266 | 41 | 337 | 63 | 141 | 38 | 242 | **15** | 145 | 30 | 190 | 21 | 43 | 2 | 66 |
| +15 mins. | 28 | **320** | **55** | **403** | 62 | 165 | **55** | 282 | 9 | 150 | 26 | 185 | 24 | 67 | 4 | 95 |
| +30 mins. | 32 | 297 | 54 | 383 | **77** | **181** | 45 | **303** | 8 | **178** | **35** | **221** | 26 | **70** | **5** | **101** |
| +45 mins. | **34** | 231 | 38 | 303 | 67 | 121 | 38 | 226 | 7 | 127 | 31 | 165 | **34** | 61 | 2 | 97 |
| Total Volume | 124 | 1114 | 188 | 1426 | 269 | 608 | 176 | 1053 | 39 | 600 | 122 | 761 | 105 | 241 | 13 | 359 |
| % App. Total | 8.7 | 78.1 | 13.2 | | 25.5 | 57.7 | 16.7 | | 5.1 | 78.8 | 16 | | 29.2 | 67.1 | 3.6 | |
| PHF | .912 | .870 | .855 | .885 | .873 | .840 | .800 | .869 | .650 | .843 | .871 | .861 | .772 | .861 | .650 | .889 |

Counts Unlimited Inc.
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Corona, CA 92878
(951) 268-6268

City of El Monte
N/S: Peck Road
E/W: Ramona Boulevard
Weather: Sunny

File Name : ELMPERAPM
Site Code : 00002222
Start Date : 6/6/2013
Page No : 1

Groups Printed- Total Volume

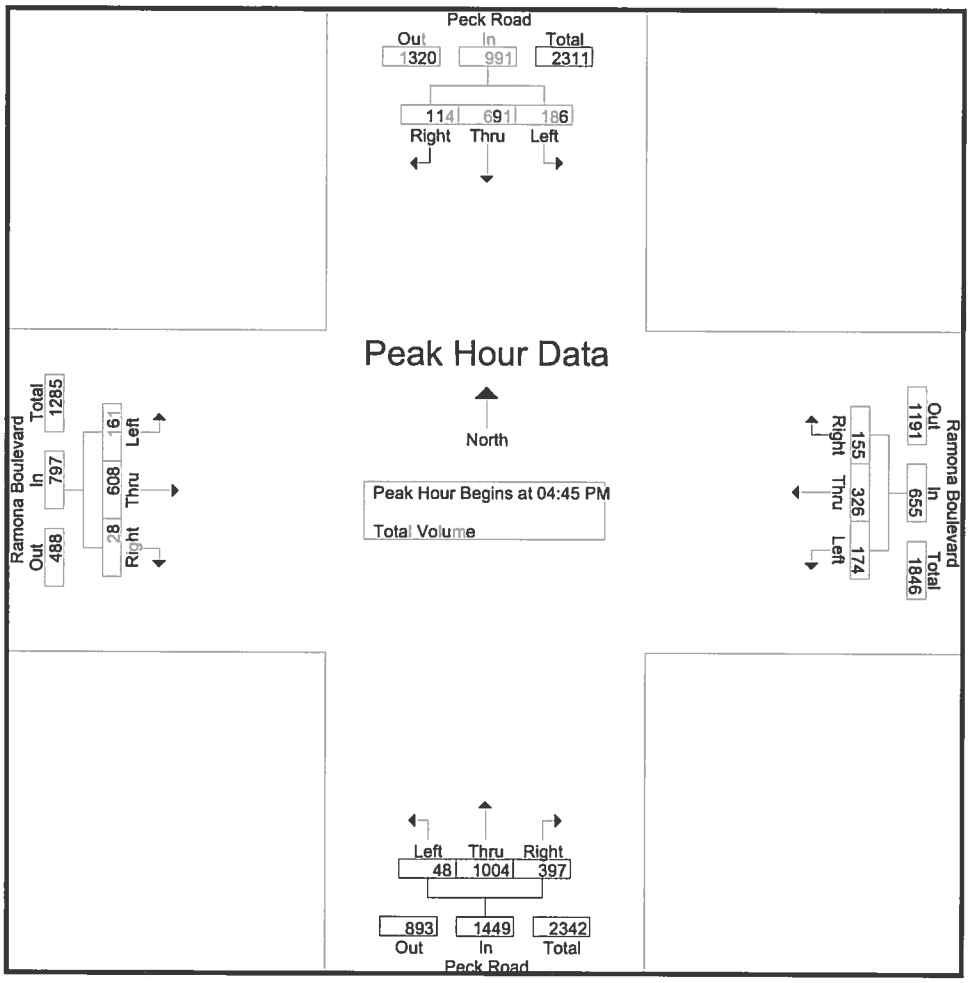
| | Peck Road Southbound | | | | Ramona Boulevard Westbound | | | | Peck Road Northbound | | | | Ramona Boulevard Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| 04:00 PM | 47 | 181 | 22 | 250 | 50 | 64 | 29 | 143 | 9 | 231 | 106 | 346 | 31 | 142 | 10 | 183 | 922 |
| 04:15 PM | 40 | 169 | 19 | 228 | 51 | 81 | 40 | 172 | 13 | 243 | 99 | 355 | 45 | 186 | 1 | 232 | 987 |
| 04:30 PM | 45 | 145 | 26 | 216 | 44 | 68 | 34 | 146 | 3 | 236 | 81 | 320 | 26 | 145 | 4 | 175 | 857 |
| 04:45 PM | 47 | 189 | 31 | 267 | 43 | 78 | 45 | 166 | 18 | 270 | 108 | 396 | 42 | 154 | 4 | 200 | 1029 |
| Total | 179 | 684 | 98 | 961 | 188 | 291 | 148 | 627 | 43 | 980 | 394 | 1417 | 144 | 627 | 19 | 790 | 3795 |
| 05:00 PM | 42 | 169 | 28 | 239 | 58 | 88 | 40 | 186 | 11 | 220 | 104 | 335 | 46 | 179 | 12 | 237 | 997 |
| 05:15 PM | 54 | 195 | 32 | 281 | 31 | 66 | 28 | 125 | 11 | 284 | 93 | 388 | 27 | 123 | 7 | 157 | 951 |
| 05:30 PM | 43 | 138 | 23 | 204 | 42 | 94 | 42 | 178 | 8 | 230 | 92 | 330 | 46 | 152 | 5 | 203 | 915 |
| 05:45 PM | 52 | 238 | 21 | 311 | 52 | 71 | 38 | 161 | 7 | 268 | 88 | 363 | 35 | 148 | 5 | 188 | 1023 |
| Total | 191 | 740 | 104 | 1035 | 183 | 319 | 148 | 650 | 37 | 1002 | 377 | 1416 | 154 | 602 | 29 | 785 | 3886 |
| Grand Total | 370 | 1424 | 202 | 1996 | 371 | 610 | 296 | 1277 | 80 | 1982 | 771 | 2833 | 298 | 1229 | 48 | 1575 | 7681 |
| Apprch % | 18.5 | 71.3 | 10.1 | | 29.1 | 47.8 | 23.2 | | 2.8 | 70 | 27.2 | | 18.9 | 78 | 3 | | |
| Total % | 4.8 | 18.5 | 2.6 | 26 | 4.8 | 7.9 | 3.9 | 16.6 | 1 | 25.8 | 10 | 36.9 | 3.9 | 16 | 0.6 | 20.5 | |

| | Peck Road Southbound | | | | Ramona Boulevard Westbound | | | | Peck Road Northbound | | | | Ramona Boulevard Eastbound | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Start Time | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Left | Thru | Right | App. Total | Int. Total |
| Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1 | | | | | | | | | | | | | | | | | |
| Peak Hour for Entire Intersection Begins at 04:45 PM | | | | | | | | | | | | | | | | | |
| 04:45 PM | 47 | 189 | 31 | 267 | 43 | 78 | **45** | 166 | **18** | 270 | **108** | **396** | 42 | 154 | 4 | 200 | **1029** |
| 05:00 PM | 42 | 169 | 28 | 239 | **58** | 88 | 40 | **186** | 11 | 220 | 104 | 335 | **46** | **179** | **12** | **237** | 997 |
| 05:15 PM | **54** | **195** | **32** | **281** | 31 | 66 | 28 | 125 | 11 | **284** | 93 | 388 | 27 | 123 | 7 | 157 | 951 |
| 05:30 PM | 43 | 138 | 23 | 204 | 42 | **94** | 42 | 178 | 8 | 230 | 92 | 330 | 46 | 152 | 5 | 203 | 915 |
| Total Volume | 186 | 691 | 114 | 991 | 174 | 326 | 155 | 655 | 48 | 1004 | 397 | 1449 | 161 | 608 | 28 | 797 | 3892 |
| % App. Total | 18.8 | 69.7 | 11.5 | | 26.6 | 49.8 | 23.7 | | 3.3 | 69.3 | 27.4 | | 20.2 | 76.3 | 3.5 | | |
| PHF | .861 | .886 | .891 | .882 | .750 | .867 | .861 | .880 | .667 | .884 | .919 | .915 | .875 | .849 | .583 | .841 | .946 |

Counts Unlimited Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of El Monte
N/S: Peck Road
E/W: Ramona Boulevard
Weather: Sunny

File Name : ELMPERAPM
Site Code : 00002222
Start Date : 6/6/2013
Page No : 2




Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

| | 05:00 PM | | | | 04:15 PM | | | | 04:45 PM | | | | 04:15 PM | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| +0 mins. | 42 | 169 | 28 | 239 | 51 | 81 | 40 | 172 | 18 | 270 | 108 | 396 | 45 | 186 | 1 | 232 |
| +15 mins. | 54 | 195 | 32 | 281 | 44 | 68 | 34 | 146 | 11 | 220 | 104 | 335 | 26 | 145 | 4 | 175 |
| +30 mins. | 43 | 138 | 23 | 204 | 43 | 78 | 45 | 166 | 11 | 284 | 93 | 388 | 42 | 154 | 4 | 200 |
| +45 mins. | 52 | 238 | 21 | 311 | 58 | 88 | 40 | 186 | 8 | 230 | 92 | 330 | 46 | 179 | 12 | 237 |
| Total Volume | 191 | 740 | 104 | 1035 | 196 | 315 | 159 | 670 | 48 | 1004 | 397 | 1449 | 159 | 664 | 21 | 844 |
| % App. Total | 18.5 | 71.5 | 10 | | 29.3 | 47 | 23.7 | | 3.3 | 69.3 | 27.4 | | 18.8 | 78.7 | 2.5 | |
| PHF | .884 | .777 | .813 | .832 | .845 | .895 | .883 | .901 | .667 | .884 | .919 | .915 | .864 | .892 | .438 | .890 |

# APPENDIX B
## Existing LOS Worksheets

Palo Verde Apartments, El Monte
Existing Conditions
AM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #1 Peck Rd & Lower Azusa Rd

| | | | |
|---|---|---|---|
| Cycle (sec): | 100 | Critical Vol./Cap.(X): | 0.875 |
| Loss Time (sec): | 10 | Average Delay (sec/veh): | xxxxxx |
| Optimal Cycle: | 89 | Level Of Service: | D |

| Street Name: | Peck Rd | | | | | | Lower Azusa Rd | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approach: | North Bound | | | South Bound | | | East Bound | | | West Bound | | |
| Movement: | L | T | R | L | T | R | L | T | R | L | T | R |
| Control: | Protected | | | Protected | | | Protected | | | Protected | | |
| Rights: | Include | | | Include | | | Include | | | Include | | |
| Min. Green: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Y+R: | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Lanes: | 1 0 | 2 0 | 1 | 1 0 | 2 0 | 1 | 1 0 | 1 1 | 0 | 1 0 | 1 1 | 0 |
| Volume Module: | | | | | | | | | | | | |
| Base Vol: | 194 | 716 | 85 | 124 | 694 | 248 | 151 | 505 | 173 | 179 | 1031 | 64 |
| Growth Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Initial Bse: | 194 | 716 | 85 | 124 | 694 | 248 | 151 | 505 | 173 | 179 | 1031 | 64 |
| User Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Volume: | 194 | 716 | 85 | 124 | 694 | 248 | 151 | 505 | 173 | 179 | 1031 | 64 |
| Reduct Vol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced Vol: | 194 | 716 | 85 | 124 | 694 | 248 | 151 | 505 | 173 | 179 | 1031 | 64 |
| PCE Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| MLF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| FinalVolume: | 194 | 716 | 85 | 124 | 694 | 248 | 151 | 505 | 173 | 179 | 1031 | 64 |
| Saturation Flow Module: | | | | | | | | | | | | |
| Sat/Lane: | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 |
| Adjustment: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Lanes: | 1.00 | 2.00 | 1.00 | 1.00 | 2.00 | 1.00 | 1.00 | 1.49 | 0.51 | 1.00 | 1.88 | 0.12 |
| Final Sat.: | 1600 | 3200 | 1600 | 1600 | 3200 | 1600 | 1600 | 2383 | 817 | 1600 | 3013 | 187 |
| Capacity Analysis Module: | | | | | | | | | | | | |
| Vol/Sat: | 0.12 | 0.22 | 0.05 | 0.08 | 0.22 | 0.16 | 0.09 | 0.21 | 0.21 | 0.11 | 0.34 | 0.34 |
| Crit Moves: | **** | | | | **** | | **** | | | | **** | |





Palo Verde Apartments, El Monte
Existing Conditions
AM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #2 Peck Rd & Ranchito St

| | | | |
|---|---|---|---|
| Cycle (sec): | 100 | Critical Vol./Cap.(X): | 0.633 |
| Loss Time (sec): | 10 | Average Delay (sec/veh): | xxxxxx |
| Optimal Cycle: | 43 | Level Of Service: | B |

| Street Name: | Peck Rd | | | | | | Ranchito St | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approach: | North Bound | | | South Bound | | | East Bound | | | West Bound | | |
| Movement: | L | T | R | L | T | R | L | T | R | L | T | R |
| Control: | Permitted | | | Permitted | | | Permitted | | | Permitted | | |
| Rights: | Include | | | Include | | | Include | | | Include | | |
| Min. Green: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Y+R: | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Lanes: | 1 0 | 1 1 | 0 | 1 0 | 1 1 | 0 | 0 0 | 1! 0 | 0 | 0 0 | 1! 0 | 0 |
| Volume Module: | | | | | | | | | | | | |
| Base Vol: | 96 | 977 | 21 | 32 | 1218 | 17 | 22 | 23 | 66 | 29 | 28 | 44 |
| Growth Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Initial Bse: | 96 | 977 | 21 | 32 | 1218 | 17 | 22 | 23 | 66 | 29 | 28 | 44 |
| User Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Volume: | 96 | 977 | 21 | 32 | 1218 | 17 | 22 | 23 | 66 | 29 | 28 | 44 |
| Reduct Vol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced Vol: | 96 | 977 | 21 | 32 | 1218 | 17 | 22 | 23 | 66 | 29 | 28 | 44 |
| PCE Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| MLF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| FinalVolume: | 96 | 977 | 21 | 32 | 1218 | 17 | 22 | 23 | 66 | 29 | 28 | 44 |
| Saturation Flow Module: | | | | | | | | | | | | |
| Sat/Lane: | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 |
| Adjustment: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Lanes: | 1.00 | 1.96 | 0.04 | 1.00 | 1.97 | 0.03 | 0.20 | 0.21 | 0.59 | 0.29 | 0.28 | 0.44 |
| Final Sat.: | 1600 | 3133 | 67 | 1600 | 3156 | 44 | 317 | 332 | 951 | 459 | 444 | 697 |
| Capacity Analysis Module: | | | | | | | | | | | | |
| Vol/Sat: | 0.06 | 0.31 | 0.31 | 0.02 | 0.39 | 0.39 | 0.01 | 0.07 | 0.07 | 0.02 | 0.06 | 0.06 |
| Crit Moves: | **** | | | | **** | | | **** | | **** | | |

Palo Verde Apartments, El Monte
Existing Conditions
AM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #3 Peck Rd & Ramona Bl

| | | | |
|---|---|---|---|
| Cycle (sec): | 100 | Critical Vol./Cap.(X): | 0.644 |
| Loss Time (sec): | 10 | Average Delay (sec/veh): | xxxxxx |
| Optimal Cycle: | 44 | Level Of Service: | B |

| Street Name: | Peck Rd | | | | | | | Ramona Bl | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approach: | North Bound | | | South Bound | | | East Bound | | | West Bound | | | |
| Movement: | L | - T | - R | L | - T | - R | L | - T | - R | L | - T | - R | |
| Control: | Protected | | | Protected | | | Protected | | | Protected | | | |
| Rights: | Include | | | Include | | | Include | | | Include | | | |
| Min. Green: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Y+R: | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | |
| Lanes: | 1 | 0 2 | 0 1 | 1 | 0 2 | 1 0 | 1 | 0 2 | 0 1 | 1 | 0 2 | 0 1 | |
| Volume Module: | | | | | | | | | | | | | |
| Base Vol: | 39 | 605 | 123 | 125 | 1123 | 190 | 106 | 243 | 13 | 256 | 575 | 175 | |
| Growth Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Initial Bse: | 39 | 605 | 123 | 125 | 1123 | 190 | 106 | 243 | 13 | 256 | 575 | 175 | |
| User Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| PHF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| PHF Volume: | 39 | 605 | 123 | 125 | 1123 | 190 | 106 | 243 | 13 | 256 | 575 | 175 | |
| Reduct Vol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Reduced Vol: | 39 | 605 | 123 | 125 | 1123 | 190 | 106 | 243 | 13 | 256 | 575 | 175 | |
| PCE Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| MLF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| FinalVolume: | 39 | 605 | 123 | 125 | 1123 | 190 | 106 | 243 | 13 | 256 | 575 | 175 | |
| Saturation Flow Module: | | | | | | | | | | | | | |
| Sat/Lane: | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | |
| Adjustment: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Lanes: | 1.00 | 2.00 | 1.00 | 1.00 | 2.57 | 0.43 | 1.00 | 2.00 | 1.00 | 1.00 | 2.00 | 1.00 | |
| Final Sat.: | 1600 | 3200 | 1600 | 1600 | 4105 | 695 | 1600 | 3200 | 1600 | 1600 | 3200 | 1600 | |
| Capacity Analysis Module: | | | | | | | | | | | | | |
| Vol/Sat: | 0.02 | 0.19 | 0.08 | 0.08 | 0.27 | 0.27 | 0.07 | 0.08 | 0.01 | 0.16 | 0.18 | 0.11 | |
| Crit Moves: | **** | | | | **** | | **** | | | | **** | | |

Palo Verde Apartments, El Monte
Existing Conditions
PM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #1 Peck Rd & Lower Azusa Rd

| | | | |
|---|---|---|---|
| Cycle (sec): | 100 | Critical Vol./Cap.(X): | 0.872 |
| Loss Time (sec): | 10 | Average Delay (sec/veh): | xxxxxx |
| Optimal Cycle: | 88 | Level Of Service: | D |

| Street Name: | Peck Rd | | | | | | Lower Azusa Rd | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approach: | North Bound | | | South Bound | | | East Bound | | | West Bound | | |
| Movement: | L | T | R | L | T | R | L | T | R | L | T | R |
| Control: | Protected | | | Protected | | | Protected | | | Protected | | |
| Rights: | Include | | | Include | | | Include | | | Include | | |
| Min. Green: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Y+R: | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Lanes: | 1 0 | 2 0 | 1 | 1 0 | 2 0 | 1 | 1 0 | 1 1 | 0 | 1 0 | 1 1 | 0 |
| Volume Module: | | | | | | | | | | | | |
| Base Vol: | 173 | 573 | 96 | 219 | 739 | 147 | 254 | 794 | 228 | 181 | 611 | 162 |
| Growth Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Initial Bse: | 173 | 573 | 96 | 219 | 739 | 147 | 254 | 794 | 228 | 181 | 611 | 162 |
| User Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Volume: | 173 | 573 | 96 | 219 | 739 | 147 | 254 | 794 | 228 | 181 | 611 | 162 |
| Reduct Vol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced Vol: | 173 | 573 | 96 | 219 | 739 | 147 | 254 | 794 | 228 | 181 | 611 | 162 |
| PCE Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| MLF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| FinalVolume: | 173 | 573 | 96 | 219 | 739 | 147 | 254 | 794 | 228 | 181 | 611 | 162 |
| Saturation Flow Module: | | | | | | | | | | | | |
| Sat/Lane: | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 |
| Adjustment: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Lanes: | 1.00 | 2.00 | 1.00 | 1.00 | 2.00 | 1.00 | 1.00 | 1.55 | 0.45 | 1.00 | 1.58 | 0.42 |
| Final Sat.: | 1600 | 3200 | 1600 | 1600 | 3200 | 1600 | 1600 | 2486 | 714 | 1600 | 2529 | 671 |
| Capacity Analysis Module: | | | | | | | | | | | | |
| Vol/Sat: | 0.11 | 0.18 | 0.06 | 0.14 | 0.23 | 0.09 | 0.16 | 0.32 | 0.32 | 0.11 | 0.24 | 0.24 |
| Crit Moves: | **** | | | | **** | | | **** | | | **** | |





Palo Verde Apartments, El Monte
Existing Conditions
PM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #2 Peck Rd & Ranchito St

| | | | |
|---|---|---|---|
| Cycle (sec): | 100 | Critical Vol./Cap.(X): | 0.610 |
| Loss Time (sec): | 10 | Average Delay (sec/veh): | xxxxxx |
| Optimal Cycle: | 41 | Level Of Service: | B |

| Street Name: | Peck Rd | | | | | | Ranchito St | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approach: | North Bound | | | South Bound | | | East Bound | | | West Bound | | |
| Movement: | L | T | R | L | T | R | L | T | R | L | T | R |
| Control: | Permitted | | | Permitted | | | Permitted | | | Permitted | | |
| Rights: | Include | | | Include | | | Include | | | Include | | |
| Min. Green: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Y+R: | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Lanes: | 1 0 | 1 1 | 0 | 1 0 | 1 1 | 0 | 0 0 | 1! 0 | 0 | 0 0 | 1! 0 | 0 |
| Volume Module: | | | | | | | | | | | | |
| Base Vol: | 53 | 1242 | 32 | 53 | 1005 | 40 | 24 | 21 | 73 | 8 | 11 | 50 |
| Growth Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Initial Bse: | 53 | 1242 | 32 | 53 | 1005 | 40 | 24 | 21 | 73 | 8 | 11 | 50 |
| User Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Volume: | 53 | 1242 | 32 | 53 | 1005 | 40 | 24 | 21 | 73 | 8 | 11 | 50 |
| Reduct Vol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced Vol: | 53 | 1242 | 32 | 53 | 1005 | 40 | 24 | 21 | 73 | 8 | 11 | 50 |
| PCE Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| MLF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| FinalVolume: | 53 | 1242 | 32 | 53 | 1005 | 40 | 24 | 21 | 73 | 8 | 11 | 50 |
| Saturation Flow Module: | | | | | | | | | | | | |
| Sat/Lane: | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 |
| Adjustment: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Lanes: | 1.00 | 1.95 | 0.05 | 1.00 | 1.92 | 0.08 | 0.20 | 0.18 | 0.62 | 0.12 | 0.16 | 0.72 |
| Final Sat.: | 1600 | 3120 | 80 | 1600 | 3078 | 122 | 325 | 285 | 990 | 186 | 255 | 1159 |
| Capacity Analysis Module: | | | | | | | | | | | | |
| Vol/Sat: | 0.03 | 0.40 | 0.40 | 0.03 | 0.33 | 0.33 | 0.02 | 0.07 | 0.07 | 0.01 | 0.04 | 0.04 |
| Crit Moves: | | **** | | **** | | | | **** | | **** | | |

Palo Verde Apartments, El Monte
Existing Conditions
PM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Base Volume Alternative)

Intersection #3 Peck Rd & Ramona Bl

| | | | |
|---|---|---|---|
| Cycle (sec): | 100 | Critical Vol./Cap.(X): | 0.835 |
| Loss Time (sec): | 10 | Average Delay (sec/veh): | xxxxxx |
| Optimal Cycle: | 75 | Level Of Service: | D |

| Street Name: | Peck Rd | | | | | | | Ramona Bl | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approach: | North Bound | | | South Bound | | | East Bound | | | West Bound | | | |
| Movement: | L | T | R | L | T | R | L | T | R | L | T | R | |
| Control: | Protected | | | Protected | | | Protected | | | Protected | | | |
| Rights: | Include | | | Include | | | Include | | | Include | | | |
| Min. Green: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Y+R: | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | |
| Lanes: | 1 0 | 2 0 | 1 | 1 0 | 2 1 | 0 | 1 0 | 2 0 | 1 | 1 0 | 2 0 | 1 | |
| Volume Module: | | | | | | | | | | | | | |
| Base Vol: | 48 | 1012 | 400 | 188 | 697 | 115 | 162 | 613 | 28 | 175 | 329 | 156 | |
| Growth Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Initial Bse: | 48 | 1012 | 400 | 188 | 697 | 115 | 162 | 613 | 28 | 175 | 329 | 156 | |
| User Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| PHF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| PHF Volume: | 48 | 1012 | 400 | 188 | 697 | 115 | 162 | 613 | 28 | 175 | 329 | 156 | |
| Reduct Vol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Reduced Vol: | 48 | 1012 | 400 | 188 | 697 | 115 | 162 | 613 | 28 | 175 | 329 | 156 | |
| PCE Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| MLF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| FinalVolume: | 48 | 1012 | 400 | 188 | 697 | 115 | 162 | 613 | 28 | 175 | 329 | 156 | |
| Saturation Flow Module: | | | | | | | | | | | | | |
| Sat/Lane: | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | |
| Adjustment: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Lanes: | 1.00 | 2.00 | 1.00 | 1.00 | 2.58 | 0.42 | 1.00 | 2.00 | 1.00 | 1.00 | 2.00 | 1.00 | |
| Final Sat.: | 1600 | 3200 | 1600 | 1600 | 4120 | 680 | 1600 | 3200 | 1600 | 1600 | 3200 | 1600 | |
| Capacity Analysis Module: | | | | | | | | | | | | | |
| Vol/Sat: | 0.03 | 0.32 | 0.25 | 0.12 | 0.17 | 0.17 | 0.10 | 0.19 | 0.02 | 0.11 | 0.10 | 0.10 | |
| Crit Moves: | | **** | | **** | | | | **** | | **** | | | |

# APPENDIX C
## Existing with-Project LOS Worksheets

Palo Verde Apartments, El Monte
Existing + Project
AM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Peck Rd & Lower Azusa Rd

| | | | |
|---|---|---|---|
| Cycle (sec): | 100 | Critical Vol./Cap.(X): | 0.876 |
| Loss Time (sec): | 10 | Average Delay (sec/veh): | xxxxxx |
| Optimal Cycle: | 89 | Level Of Service: | D |

| Street Name: | Peck Rd | | | | | | Lower Azusa Rd | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approach: | North Bound | | | South Bound | | | East Bound | | | West Bound | | |
| Movement: | L | T | R | L | T | R | L | T | R | L | T | R |
| Control: | Protected | | | Protected | | | Protected | | | Protected | | |
| Rights: | Include | | | Include | | | Include | | | Include | | |
| Min. Green: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Y+R: | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Lanes: | 1 0 | 2 0 | 1 | 1 0 | 2 0 | 1 | 1 0 | 1 1 | 0 | 1 0 | 1 1 | 0 |
| Volume Module: | | | | | | | | | | | | |
| Base Vol: | 194 | 716 | 85 | 124 | 694 | 248 | 151 | 505 | 173 | 179 | 1031 | 64 |
| Growth Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Initial Bse: | 194 | 716 | 85 | 124 | 694 | 248 | 151 | 505 | 173 | 179 | 1031 | 64 |
| Added Vol: | 1 | 2 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| PasserByVol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Initial Fut: | 195 | 718 | 89 | 124 | 695 | 248 | 151 | 505 | 173 | 180 | 1031 | 64 |
| User Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Volume: | 195 | 718 | 89 | 124 | 695 | 248 | 151 | 505 | 173 | 180 | 1031 | 64 |
| Reduct Vol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced Vol: | 195 | 718 | 89 | 124 | 695 | 248 | 151 | 505 | 173 | 180 | 1031 | 64 |
| PCE Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| MLF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| FinalVolume: | 195 | 718 | 89 | 124 | 695 | 248 | 151 | 505 | 173 | 180 | 1031 | 64 |
| Saturation Flow Module: | | | | | | | | | | | | |
| Sat/Lane: | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 |
| Adjustment: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Lanes: | 1.00 | 2.00 | 1.00 | 1.00 | 2.00 | 1.00 | 1.00 | 1.49 | 0.51 | 1.00 | 1.88 | 0.12 |
| Final Sat.: | 1600 | 3200 | 1600 | 1600 | 3200 | 1600 | 1600 | 2383 | 817 | 1600 | 3013 | 187 |
| Capacity Analysis Module: | | | | | | | | | | | | |
| Vol/Sat: | 0.12 | 0.22 | 0.06 | 0.08 | 0.22 | 0.16 | 0.09 | 0.21 | 0.21 | 0.11 | 0.34 | 0.34 |
| Crit Moves: | **** | | | | **** | | **** | | | | **** | |





Palo Verde Apartments, El Monte
Existing + Project
AM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #2 Peck Rd & Ranchito St

| | | | |
|---|---|---|---|
| Cycle (sec): | 100 | Critical Vol./Cap.(X): | 0.637 |
| Loss Time (sec): | 10 | Average Delay (sec/veh): | xxxxxx |
| Optimal Cycle: | 43 | Level Of Service: | B |

| Street Name: | Peck Rd | | | | | | Ranchito St | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approach: | North Bound | | | South Bound | | | East Bound | | | West Bound | | |
| Movement: | L | T | R | L | T | R | L | T | R | L | T | R |
| Control: | Permitted | | | Permitted | | | Permitted | | | Permitted | | |
| Rights: | Include | | | Include | | | Include | | | Include | | |
| Min. Green: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Y+R: | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Lanes: | 1 0 | 1 1 | 0 | 1 0 | 1 1 | 0 | 0 0 | 1! 0 | 0 | 0 0 | 1! 0 | 0 |
| Volume Module: | | | | | | | | | | | | |
| Base Vol: | 96 | 977 | 21 | 32 | 1218 | 17 | 22 | 23 | 66 | 29 | 28 | 44 |
| Growth Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Initial Bse: | 96 | 977 | 21 | 32 | 1218 | 17 | 22 | 23 | 66 | 29 | 28 | 44 |
| Added Vol: | 0 | 3 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PasserByVol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Initial Fut: | 96 | 980 | 21 | 32 | 1231 | 17 | 22 | 23 | 66 | 29 | 28 | 44 |
| User Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Volume: | 96 | 980 | 21 | 32 | 1231 | 17 | 22 | 23 | 66 | 29 | 28 | 44 |
| Reduct Vol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced Vol: | 96 | 980 | 21 | 32 | 1231 | 17 | 22 | 23 | 66 | 29 | 28 | 44 |
| PCE Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| MLF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| FinalVolume: | 96 | 980 | 21 | 32 | 1231 | 17 | 22 | 23 | 66 | 29 | 28 | 44 |
| Saturation Flow Module: | | | | | | | | | | | | |
| Sat/Lane: | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 |
| Adjustment: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Lanes: | 1.00 | 1.96 | 0.04 | 1.00 | 1.97 | 0.03 | 0.20 | 0.21 | 0.59 | 0.29 | 0.28 | 0.44 |
| Final Sat.: | 1600 | 3133 | 67 | 1600 | 3156 | 44 | 317 | 332 | 951 | 459 | 444 | 697 |
| Capacity Analysis Module: | | | | | | | | | | | | |
| Vol/Sat: | 0.06 | 0.31 | 0.31 | 0.02 | 0.39 | 0.39 | 0.01 | 0.07 | 0.07 | 0.02 | 0.06 | 0.06 |
| Crit Moves: | **** | | | | **** | | | **** | | | **** | |

Palo Verde Apartments, El Monte
Existing + Project
AM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #3 Peck Rd & Ramona Bl

| | | | |
|---|---|---|---|
| Cycle (sec): | 100 | Critical Vol./Cap.(X): | 0.646 |
| Loss Time (sec): | 10 | Average Delay (sec/veh): | xxxxxx |
| Optimal Cycle: | 44 | Level Of Service: | B |

| Street Name: | Peck Rd | | | | | | | Ramona Bl | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approach: | North Bound | | | South Bound | | | East Bound | | | West Bound | | | |
| Movement: | L | T | R | L | T | R | L | T | R | L | T | R | |
| Control: | Protected | | | Protected | | | Protected | | | Protected | | | |
| Rights: | Include | | | Include | | | Include | | | Include | | | |
| Min. Green: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Y+R: | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | |
| Lanes: | 1 0 | 2 0 | 1 | 1 0 | 2 1 | 0 | 1 0 | 2 0 | 1 | 1 0 | 2 0 | 1 | |
| Volume Module: | | | | | | | | | | | | | |
| Base Vol: | 39 | 605 | 123 | 125 | 1123 | 190 | 106 | 243 | 13 | 256 | 575 | 175 | |
| Growth Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Initial Bse: | 39 | 605 | 123 | 125 | 1123 | 190 | 106 | 243 | 13 | 256 | 575 | 175 | |
| Added Vol: | 0 | 2 | 0 | 3 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | |
| PasserByVol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Initial Fut: | 39 | 607 | 123 | 128 | 1132 | 191 | 106 | 243 | 13 | 256 | 575 | 176 | |
| User Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| PHF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| PHF Volume: | 39 | 607 | 123 | 128 | 1132 | 191 | 106 | 243 | 13 | 256 | 575 | 176 | |
| Reduct Vol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Reduced Vol: | 39 | 607 | 123 | 128 | 1132 | 191 | 106 | 243 | 13 | 256 | 575 | 176 | |
| PCE Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| MLF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| FinalVolume: | 39 | 607 | 123 | 128 | 1132 | 191 | 106 | 243 | 13 | 256 | 575 | 176 | |
| Saturation Flow Module: | | | | | | | | | | | | | |
| Sat/Lane: | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | |
| Adjustment: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Lanes: | 1.00 | 2.00 | 1.00 | 1.00 | 2.57 | 0.43 | 1.00 | 2.00 | 1.00 | 1.00 | 2.00 | 1.00 | |
| Final Sat.: | 1600 | 3200 | 1600 | 1600 | 4107 | 693 | 1600 | 3200 | 1600 | 1600 | 3200 | 1600 | |
| Capacity Analysis Module: | | | | | | | | | | | | | |
| Vol/Sat: | 0.02 | 0.19 | 0.08 | 0.08 | 0.28 | 0.28 | 0.07 | 0.08 | 0.01 | 0.16 | 0.18 | 0.11 | |
| Crit Moves: | **** | | | | **** | | **** | | | | **** | | |

Palo Verde Apartments, El Monte
Existing + Project
PM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Peck Rd & Lower Azusa Rd

| | | | |
|---|---|---|---|
| Cycle (sec): | 100 | Critical Vol./Cap.(X): | 0.876 |
| Loss Time (sec): | 10 | Average Delay (sec/veh): | xxxxxx |
| Optimal Cycle: | 89 | Level Of Service: | D |

| Street Name: | Peck Rd | | | | | | Lower Azusa Rd | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approach: | North Bound | | | South Bound | | | East Bound | | | West Bound | | |
| Movement: | L - | T - | R | L - | T - | R | L - | T - | R | L - | T - | R |
| Control: | Protected | | | Protected | | | Protected | | | Protected | | |
| Rights: | Include | | | Include | | | Include | | | Include | | |
| Min. Green: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Y+R: | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Lanes: | 1 0 | 2 0 | 1 | 1 0 | 2 0 | 1 | 1 0 | 1 1 | 0 | 1 0 | 1 1 | 0 |
| Volume Module: | | | | | | | | | | | | |
| Base Vol: | 173 | 573 | 96 | 219 | 739 | 147 | 254 | 794 | 228 | 181 | 611 | 162 |
| Growth Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Initial Bse: | 173 | 573 | 96 | 219 | 739 | 147 | 254 | 794 | 228 | 181 | 611 | 162 |
| Added Vol: | 1 | 1 | 2 | 0 | 2 | 0 | 0 | 0 | 1 | 4 | 0 | 0 |
| PasserByVol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Initial Fut: | 174 | 574 | 98 | 219 | 741 | 147 | 254 | 794 | 229 | 185 | 611 | 162 |
| User Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Volume: | 174 | 574 | 98 | 219 | 741 | 147 | 254 | 794 | 229 | 185 | 611 | 162 |
| Reduct Vol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced Vol: | 174 | 574 | 98 | 219 | 741 | 147 | 254 | 794 | 229 | 185 | 611 | 162 |
| PCE Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| MLF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| FinalVolume: | 174 | 574 | 98 | 219 | 741 | 147 | 254 | 794 | 229 | 185 | 611 | 162 |
| Saturation Flow Module: | | | | | | | | | | | | |
| Sat/Lane: | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 |
| Adjustment: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Lanes: | 1.00 | 2.00 | 1.00 | 1.00 | 2.00 | 1.00 | 1.00 | 1.55 | 0.45 | 1.00 | 1.58 | 0.42 |
| Final Sat.: | 1600 | 3200 | 1600 | 1600 | 3200 | 1600 | 1600 | 2484 | 716 | 1600 | 2529 | 671 |
| Capacity Analysis Module: | | | | | | | | | | | | |
| Vol/Sat: | 0.11 | 0.18 | 0.06 | 0.14 | 0.23 | 0.09 | 0.16 | 0.32 | 0.32 | 0.12 | 0.24 | 0.24 |
| Crit Moves: | **** | | | | **** | | | **** | | **** | | |





Palo Verde Apartments, El Monte
Existing + Project
PM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #2 Peck Rd & Ranchito St

| | | | |
|---|---|---|---|
| Cycle (sec): | 100 | Critical Vol./Cap.(X): | 0.614 |
| Loss Time (sec): | 10 | Average Delay (sec/veh): | xxxxxx |
| Optimal Cycle: | 41 | Level Of Service: | B |

| Street Name: | Peck Rd | | | | | | Ranchito St | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approach: | North Bound | | | South Bound | | | East Bound | | | West Bound | | |
| Movement: | L - | T - | R | L - | T - | R | L - | T - | R | L - | T - | R |
| Control: | Permitted | | | Permitted | | | Permitted | | | Permitted | | |
| Rights: | Include | | | Include | | | Include | | | Include | | |
| Min. Green: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Y+R: | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Lanes: | 1 0 | 1 1 | 0 | 1 0 | 1 1 | 0 | 0 0 | 1! 0 | 0 | 0 0 | 1! 0 | 0 |
| Volume Module: | | | | | | | | | | | | |
| Base Vol: | 53 | 1242 | 32 | 53 | 1005 | 40 | 24 | 21 | 73 | 8 | 11 | 50 |
| Growth Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Initial Bse: | 53 | 1242 | 32 | 53 | 1005 | 40 | 24 | 21 | 73 | 8 | 11 | 50 |
| Added Vol: | 0 | 13 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PasserByVol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Initial Fut: | 53 | 1255 | 32 | 53 | 1012 | 40 | 24 | 21 | 73 | 8 | 11 | 50 |
| User Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Volume: | 53 | 1255 | 32 | 53 | 1012 | 40 | 24 | 21 | 73 | 8 | 11 | 50 |
| Reduct Vol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced Vol: | 53 | 1255 | 32 | 53 | 1012 | 40 | 24 | 21 | 73 | 8 | 11 | 50 |
| PCE Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| MLF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| FinalVolume: | 53 | 1255 | 32 | 53 | 1012 | 40 | 24 | 21 | 73 | 8 | 11 | 50 |
| Saturation Flow Module: | | | | | | | | | | | | |
| Sat/Lane: | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 |
| Adjustment: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Lanes: | 1.00 | 1.95 | 0.05 | 1.00 | 1.92 | 0.08 | 0.20 | 0.18 | 0.62 | 0.12 | 0.16 | 0.72 |
| Final Sat.: | 1600 | 3120 | 80 | 1600 | 3078 | 122 | 325 | 285 | 990 | 186 | 255 | 1159 |
| Capacity Analysis Module: | | | | | | | | | | | | |
| Vol/Sat: | 0.03 | 0.40 | 0.40 | 0.03 | 0.33 | 0.33 | 0.02 | 0.07 | 0.07 | 0.01 | 0.04 | 0.04 |
| Crit Moves: | | **** | | **** | | | | **** | | **** | | |

Palo Verde Apartments, El Monte
Existing + Project
PM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #3 Peck Rd & Ramona Bl

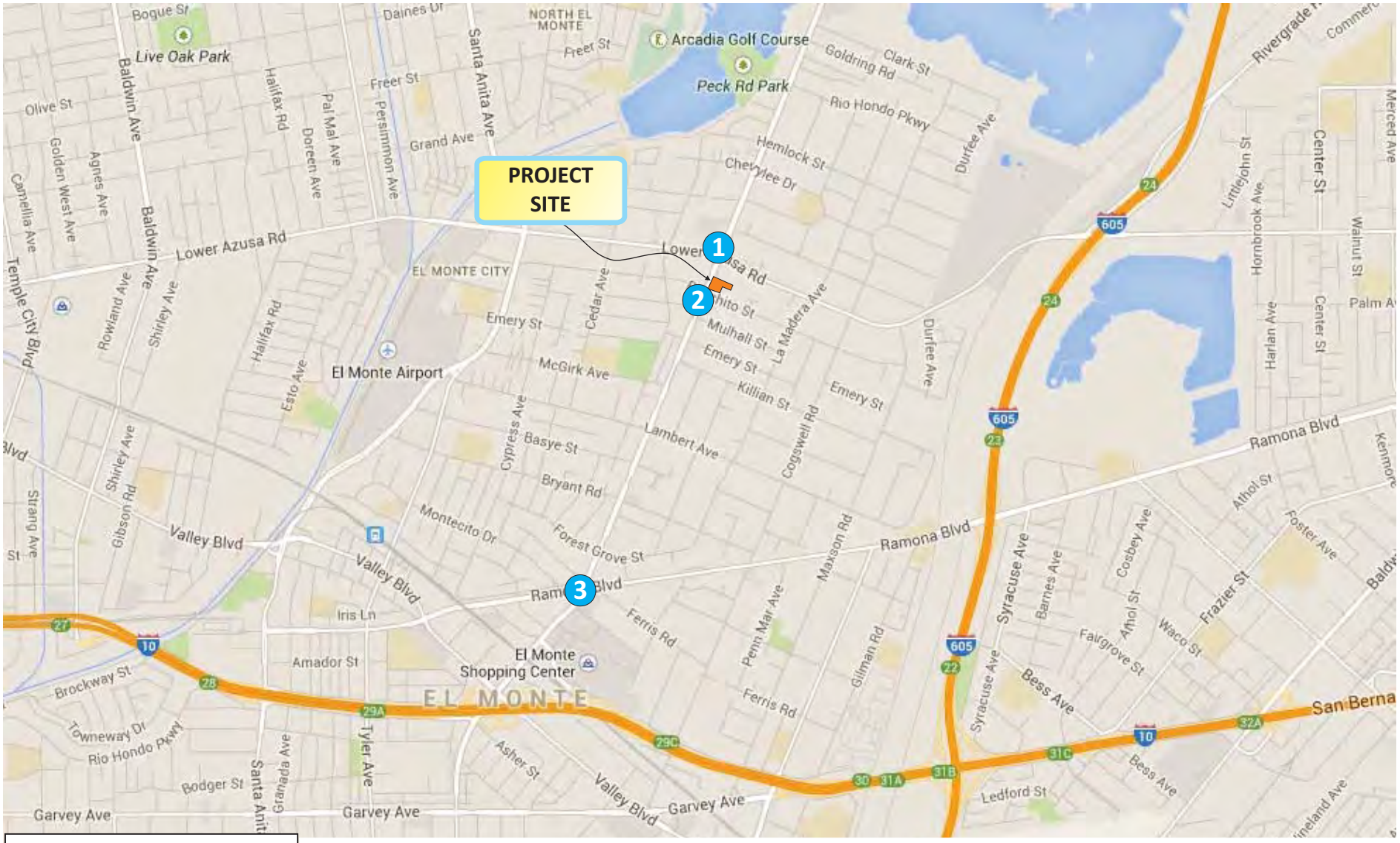
| | | | |
|---|---|---|---|
| Cycle (sec): | 100 | Critical Vol./Cap.(X): | 0.839 |
| Loss Time (sec): | 10 | Average Delay (sec/veh): | xxxxxx |
| Optimal Cycle: | 77 | Level Of Service: | D |

| Street Name: | Peck Rd | | | | | | | Ramona Bl | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approach: | North Bound | | | South Bound | | | East Bound | | | West Bound | | | |
| Movement: | L | T | R | L | T | R | L | T | R | L | T | R | |
| Control: | Protected | | | Protected | | | Protected | | | Protected | | | |
| Rights: | Include | | | Include | | | Include | | | Include | | | |
| Min. Green: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Y+R: | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | |
| Lanes: | 1 0 | 2 0 | 1 | 1 0 | 2 1 | 0 | 1 0 | 2 0 | 1 | 1 0 | 2 0 | 1 | |
| Volume Module: | | | | | | | | | | | | | |
| Base Vol: | 48 | 1012 | 400 | 188 | 697 | 115 | 162 | 613 | 28 | 175 | 329 | 156 | |
| Growth Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Initial Bse: | 48 | 1012 | 400 | 188 | 697 | 115 | 162 | 613 | 28 | 175 | 329 | 156 | |
| Added Vol: | 0 | 9 | 0 | 2 | 5 | 1 | 1 | 0 | 0 | 0 | 0 | 3 | |
| PasserByVol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Initial Fut: | 48 | 1021 | 400 | 190 | 702 | 116 | 163 | 613 | 28 | 175 | 329 | 159 | |
| User Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| PHF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| PHF Volume: | 48 | 1021 | 400 | 190 | 702 | 116 | 163 | 613 | 28 | 175 | 329 | 159 | |
| Reduct Vol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Reduced Vol: | 48 | 1021 | 400 | 190 | 702 | 116 | 163 | 613 | 28 | 175 | 329 | 159 | |
| PCE Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| MLF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| FinalVolume: | 48 | 1021 | 400 | 190 | 702 | 116 | 163 | 613 | 28 | 175 | 329 | 159 | |
| Saturation Flow Module: | | | | | | | | | | | | | |
| Sat/Lane: | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | |
| Adjustment: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Lanes: | 1.00 | 2.00 | 1.00 | 1.00 | 2.57 | 0.43 | 1.00 | 2.00 | 1.00 | 1.00 | 2.00 | 1.00 | |
| Final Sat.: | 1600 | 3200 | 1600 | 1600 | 4119 | 681 | 1600 | 3200 | 1600 | 1600 | 3200 | 1600 | |
| Capacity Analysis Module: | | | | | | | | | | | | | |
| Vol/Sat: | 0.03 | 0.32 | 0.25 | 0.12 | 0.17 | 0.17 | 0.10 | 0.19 | 0.02 | 0.11 | 0.10 | 0.10 | |
| Crit Moves: | | **** | | **** | | | | **** | | **** | | | |

# APPENDIX D
## Related Project Trip Generation and Assignment

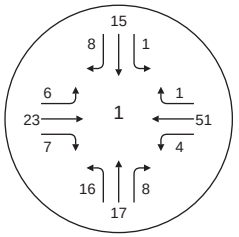
| City | Map # | Address | Land Use | ITE Code | Size | Unit | Daily | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | In | Out | Total | In | Out | Total |
| El Monte | E1 | 12417-12467 Denholm Drive | Single Family Homes | 210 | 62 | DU | 590 | 12 | 35 | 47 | 39 | 23 | 62 |
| El Monte | E2 | 4610 Peck Road | Condominiums | 230 | 23 | DU | 134 | 2 | 9 | 11 | 8 | 4 | 12 |
| El Monte | E3 | 4127-4123 Rowland Drive | Condominiums | 230 | 69 | DU | 401 | 5 | 26 | 31 | 24 | 12 | 36 |
| El Monte | E4 | Walmart - 4000 Arden Drive | Free-standing Discount Superstore | 813 | 182.500 | TSF | 9,262 | 189 | 149 | 338 | 389 | 405 | 794 |
| | | | Less pass-by trips | | | | -1,667 | -34 | -27 | -61 | -109 | -113 | -222 |
| | | | TOTAL 4 | | | | 7,595 | 155 | 122 | 277 | 280 | 292 | 572 |
| El Monte | E5 | 12346 Valley Boulevard | Retail | | 27.280 | TSF | 1,165 | 16 | 10 | 26 | 49 | 53 | 102 |
| | | | Less pass-by trips | | | | -280 | -4 | -2 | -6 | -17 | -18 | -35 |
| | | | TOTAL 5 | | | | 885 | 12 | 8 | 20 | 32 | 35 | 67 |
| El Monte | E6 | 9235 Whitmore Street | Office | 710 | 60.000 | TSF | 662 | 82 | 11 | 93 | 15 | 74 | 89 |
| El Monte | E7 | 10525 Valley Boulevard | Light Industrial/Warehousing | 150 | 24.400 | TSF | 87 | 6 | 1 | 7 | 2 | 6 | 8 |
| El Monte | E8 | 4213 Temple City Boulevard | Light Industrial/Warehousing/Commercial | 110 | 502.390 | TSF | 3,502 | 407 | 55 | 462 | 60 | 427 | 487 |
| El Monte | E9 | 4304 Temple City Boulevard | Light Industrial | 110 | 24.950 | TSF | 174 | 20 | 3 | 23 | 3 | 21 | 24 |
| El Monte | E10 | 9133 Garvey Avenue | Light Industrial | 110 | 96.660 | TSF | 674 | 78 | 11 | 89 | 12 | 82 | 94 |
| El Monte | E11 | Gateway TOD - Between I-10,Valley Boulevard, Rio Hondo Channel, and Santa Anita Avenue | Condominiums | 230 | 485 | DU | 2818 | 36 | 177 | 213 | 169 | 83 | 252 |
| | | | Retail | 820 | 25.000 | TSF | 1,068 | 15 | 9 | 24 | 45 | 48 | 93 |
| | | | Less pass-by trips | | | | -256 | -4 | -2 | -6 | -15 | -16 | -31 |
| | | | Internal | | | | -360 | -4 | -18 | -22 | -20 | -11 | -31 |
| | | | TOTAL 11 | | | | 3,240 | 40 | 166 | 206 | 178 | 102 | 280 |
| El Monte | E12 | 9920 W. Valley | Hotel | 310 | 133 | Rooms | 1474 | 43 | 30 | 73 | 62 | 50 | 112 |
| El Monte | E13 | 4422-4236 Bannister Avenue | Single Family Homes | 210 | 23 | DU | 219 | 4 | 13 | 17 | 14 | 9 | 23 |
| El Monte | E14 | 11301-11401 Garvey Avenue | Townhomes | 230 | 114 | DU | 662 | 9 | 41 | 50 | 40 | 19 | 59 |
| | | | Retail | 820 | 6.000 | TSF | 256 | 4 | 2 | 6 | 11 | 11 | 22 |
| | | | TOTAL 14 | | | | 918 | 13 | 43 | 56 | 51 | 30 | 81 |
| El Monte | E15 | 11640-11710 Valley Boulevard | Townhomes | 230 | 78 | DU | 453 | 6 | 28 | 34 | 27 | 14 | 41 |
| | | | Retail | 820 | 30.000 | TSF | 1281 | 18 | 11 | 29 | 53 | 58 | 111 |
| | | | TOTAL 15 | | | | 1,734 | 24 | 39 | 63 | 80 | 72 | 152 |
| El Monte | E16 | NEC Valley and Santa Anita | Shopping Center | 820 | 115.000 | TSF | 4,911 | 68 | 42 | 110 | 205 | 222 | 427 |
| El Monte | E17 | 4400 Temple City Boulevard | Light Industrial/Commercial | 110 | 111.380 | TSF | 776 | 90 | 12 | 102 | 13 | 95 | 108 |
| El Monte | E18 | 3708 Cypress Avenue | Single Family Homes | 210 | 12 | DU | 114 | 2 | 7 | 9 | 8 | 4 | 12 |
| El Monte | E19 | 11022-11048 Garvey Avenue | Townhomes | 230 | 70 | DU | 407 | 5 | 26 | 31 | 24 | 12 | 36 |
| | | | Retail | 820 | 2.154 | TSF | 92 | 1 | 1 | 2 | 4 | 4 | 8 |
| | | | TOTAL 19 | | | | 499 | 6 | 27 | 33 | 28 | 16 | 44 |
| El Monte | E20 | 12432 Valley Boulevard | Shopping Center | 820 | 29.928 | TSF | 1,278 | 18 | 11 | 29 | 53 | 58 | 111 |
| El Monte | E21 | 5229 Hammill Road | Single Family Homes | 210 | 3 | DU | 29 | 1 | 1 | 2 | 2 | 1 | 3 |
| El Monte | E22 | 4455 Cogswell Road | Single Family Homes | 210 | 2 | DU | 19 | 1 | 1 | 2 | 1 | 1 | 2 |
| El Monte | E23 | 10606 Valley Boulevard | Restaurant | 932 | 7.600 | TSF | 966 | 45 | 37 | 82 | 45 | 30 | 75 |
| El Monte | E24 | 12345 Dahlia Avenue | Single Family Homes | 210 | 2 | DU | 19 | 1 | 1 | 2 | 1 | 1 | 2 |
| El Monte | E25 | 4731 Cedar Avenue | Single Family Homes | 210 | 2 | DU | 19 | 1 | 1 | 2 | 1 | 1 | 2 |
| El Monte | E26 | 12228 Chosen Street | Manufacturing | 140 | 29.365 | TSF | 112 | 16 | 5 | 21 | 8 | 13 | 21 |
| El Monte | E27 | 2728 Durfee Avenue | Office | 710 | 1.625 | TSF | 18 | 3 | 0 | 3 | 0 | 2 | 2 |

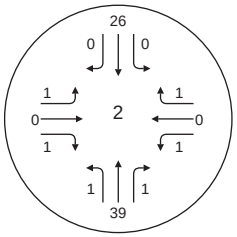
| City | Map # | Address | Land Use | ITE Code | Size | Unit | Daily | AM Peak Hour | | | PM Peak Hour | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | In | Out | Total | In | Out | Total |
| El Monte | E28 | Flair Spectrum 9400 Flair Drive | Hotel | 310 | 250 | Rooms | 21,317 | 377 | 348 | 725 | 757 | 659 | 1,416 |
| | | | Outlet Center | 823 | 640.000 | TSF | | | | | | | |
| | | | Restaurant | 931 | 50.000 | TSF | | | | | | | |
| | | | Condominiums | 230 | 600 | DU | | | | | | | |
| El Monte | E29 | 11707 Garvey Avenue | Retail | 820 | 5.700 | TSF | 243 | 3 | 2 | 5 | 10 | 11 | 21 |
| | | | Seniour Housing | 252 | 29 | DU | 100 | 2 | 4 | 6 | 4 | 3 | 7 |
| | | | Assisted Living | 254 | 87 | DU | 231 | 8 | 4 | 12 | 8 | 11 | 19 |
| | | | TOTAL 29 | | | | 574 | 13 | 10 | 23 | 22 | 25 | 47 |
| El Monte | E30 | 9846 Giovanne Street | Condominiums | 230 | 2 | DU | 12 | 0 | 1 | 1 | 1 | 0 | 1 |
| El Monte | E31 | 10620 Hickson Street | Light Industrial | 110 | 65.000 | TSF | 453 | 53 | 7 | 60 | 8 | 55 | 63 |
| El Monte | E32 | 11830 & 11842 Lambert Avenue | Single Family Homes | 210 | 6 | DU | 57 | 1 | 4 | 5 | 4 | 2 | 6 |
| El Monte | E33 | 11511 Lower Azusa Road | Single Family Homes | 210 | 2 | DU | 19 | 1 | 1 | 2 | 1 | 1 | 2 |
| El Monte | E34 | 12217 Magnolia Street | Single Family Homes | 210 | 3 | DU | 29 | 1 | 1 | 2 | 2 | 1 | 3 |
| El Monte | E35 | 2711 Meeker Avenue | Single Family Homes | 210 | 2 | DU | 19 | 1 | 1 | 2 | 1 | 1 | 2 |
| El Monte | E36 | 12045 Ranchito Street | Single Family Homes | 210 | 3 | DU | 29 | 1 | 1 | 2 | 2 | 1 | 3 |
| El Monte | E37 | 3268 Rosemead Boulevard | Office | 710 | 12.200 | TSF | 135 | 17 | 2 | 19 | 3 | 15 | 18 |
| El Monte | E38 | 4301 Temple City Boulevard | Office | 710 | 5.691 | TSF | 63 | 8 | 1 | 9 | 1 | 7 | 8 |
| El Monte | E39 | 12300 Valley Boulevard | Retail | 820 | 6.000 | TSF | 256 | 4 | 2 | 6 | 11 | 11 | 22 |
| | | | Hotel | 310 | 50 | DU | 409 | 16 | 11 | 27 | 15 | 15 | 30 |
| | | | TOTAL 40 | | | | 665 | 20 | 13 | 33 | 26 | 26 | 52 |
| El Monte | E40 | SE Corner of Ramona Blvd and Tyler Ave. | Apartments | 220 | 40 | DU | 266 | 4 | 16 | 20 | 16 | 9 | 25 |
| TOTAL | | | | | | | 54,687 | 1,652 | 1,123 | 2,775 | 2,069 | 2,485 | 4,554 |

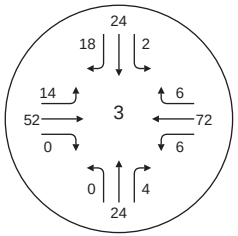



**Legend**

- Project Site Location
- # Study Intersection and Reference Number
- XX Intersection Volumes



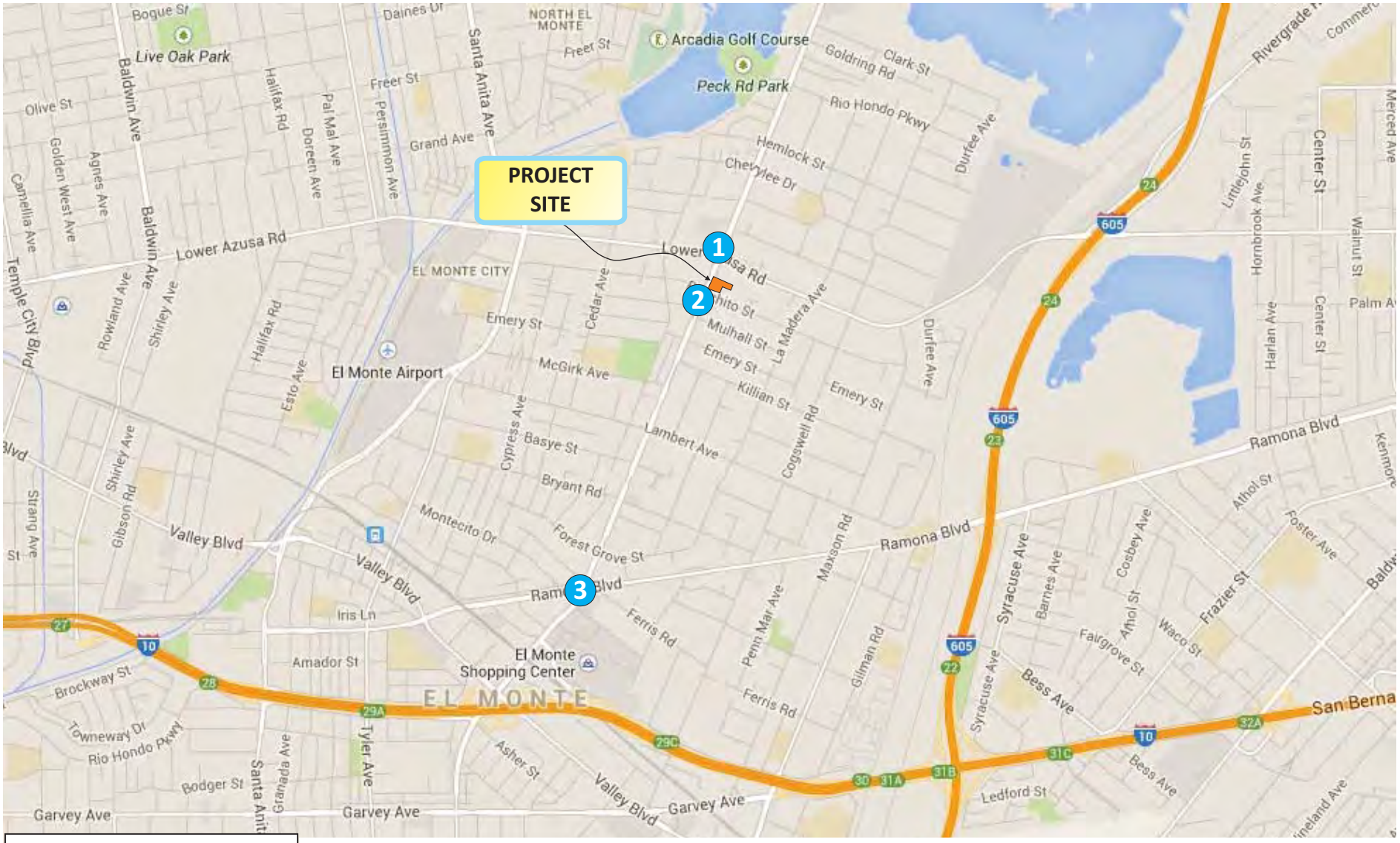



KOA CORPORATION
PLANNING & ENGINEERING

Palo Verde Apartments - El Monte

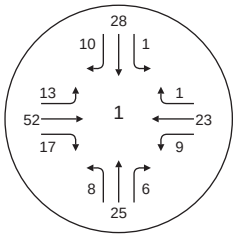
Appendix D-1

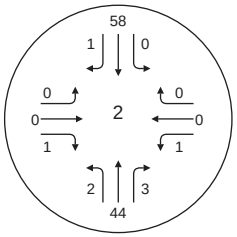
Related Project - Weekday AM Peak Hour Turn Volumes

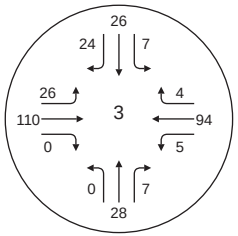



**Legend**

- Project Site Location
- # Study Intersection and Reference Number
- XX Intersection Volumes



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PLANNING & ENGINEERING

Palo Verde Apartments - El Monte

Appendix D-2

Related Project - Weekday PM Peak Hour Turn Volumes

# APPENDIX E
## Opening Year (2017) Without-Project LOS Worksheets

Palo Verde Apartments, El Monte
Future 2017 without Project
AM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Peck Rd & Lower Azusa Rd

| | | | |
|---|---|---|---|
| Cycle (sec): | 100 | Critical Vol./Cap.(X): | 0.928 |
| Loss Time (sec): | 10 | Average Delay (sec/veh): | xxxxxx |
| Optimal Cycle: | 117 | Level Of Service: | E |

| Street Name: | Peck Rd | | | | | | Lower Azusa Rd | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approach: | North Bound | | | South Bound | | | East Bound | | | West Bound | | |
| Movement: | L - | T - | R | L - | T - | R | L - | T - | R | L - | T - | R |
| Control: | Protected | | | Protected | | | Protected | | | Protected | | |
| Rights: | Include | | | Include | | | Include | | | Include | | |
| Min. Green: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Y+R: | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Lanes: | 1 0 | 2 0 | 1 | 1 0 | 2 0 | 1 | 1 0 | 1 1 | 0 | 1 0 | 1 1 | 0 |
| Volume Module: | | | | | | | | | | | | |
| Base Vol: | 194 | 716 | 85 | 124 | 694 | 248 | 151 | 505 | 173 | 179 | 1031 | 64 |
| Growth Adj: | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 |
| Initial Bse: | 199 | 734 | 87 | 127 | 711 | 254 | 155 | 517 | 177 | 183 | 1056 | 66 |
| Added Vol: | 1 | 15 | 0 | 1 | 11 | 3 | 2 | 3 | 1 | 0 | 21 | 1 |
| Rel Projs: | 15 | 2 | 8 | 0 | 4 | 5 | 4 | 20 | 6 | 4 | 30 | 0 |
| Initial Fut: | 215 | 751 | 95 | 128 | 726 | 262 | 161 | 540 | 184 | 187 | 1107 | 67 |
| User Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Volume: | 215 | 751 | 95 | 128 | 726 | 262 | 161 | 540 | 184 | 187 | 1107 | 67 |
| Reduct Vol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced Vol: | 215 | 751 | 95 | 128 | 726 | 262 | 161 | 540 | 184 | 187 | 1107 | 67 |
| PCE Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| MLF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| FinalVolume: | 215 | 751 | 95 | 128 | 726 | 262 | 161 | 540 | 184 | 187 | 1107 | 67 |
| Saturation Flow Module: | | | | | | | | | | | | |
| Sat/Lane: | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 |
| Adjustment: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Lanes: | 1.00 | 2.00 | 1.00 | 1.00 | 2.00 | 1.00 | 1.00 | 1.49 | 0.51 | 1.00 | 1.89 | 0.11 |
| Final Sat.: | 1600 | 3200 | 1600 | 1600 | 3200 | 1600 | 1600 | 2386 | 814 | 1600 | 3019 | 181 |
| Capacity Analysis Module: | | | | | | | | | | | | |
| Vol/Sat: | 0.13 | 0.23 | 0.06 | 0.08 | 0.23 | 0.16 | 0.10 | 0.23 | 0.23 | 0.12 | 0.37 | 0.37 |
| Crit Moves: | **** | | | | **** | | **** | | | | **** | |





Palo Verde Apartments, El Monte
Future 2017 without Project
AM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #2 Peck Rd & Ranchito St

| | | | |
|---|---|---|---|
| Cycle (sec): | 100 | Critical Vol./Cap.(X): | 0.658 |
| Loss Time (sec): | 10 | Average Delay (sec/veh): | xxxxxx |
| Optimal Cycle: | 45 | Level Of Service: | B |

| Street Name: | Peck Rd | | | | | | Ranchito St | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approach: | North Bound | | | South Bound | | | East Bound | | | West Bound | | |
| Movement: | L - | T - | R | L - | T - | R | L - | T - | R | L - | T - | R |
| Control: | Permitted | | | Permitted | | | Permitted | | | Permitted | | |
| Rights: | Include | | | Include | | | Include | | | Include | | |
| Min. Green: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Y+R: | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Lanes: | 1 0 | 1 1 | 0 | 1 0 | 1 1 | 0 | 0 0 | 1! 0 | 0 | 0 0 | 1! 0 | 0 |
| Volume Module: | | | | | | | | | | | | |
| Base Vol: | 96 | 977 | 21 | 32 | 1218 | 17 | 22 | 23 | 66 | 29 | 28 | 44 |
| Growth Adj: | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 |
| Initial Bse: | 98 | 1001 | 22 | 33 | 1248 | 17 | 23 | 24 | 68 | 30 | 29 | 45 |
| Added Vol: | 1 | 16 | 1 | 0 | 12 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Rel Projs: | 0 | 23 | 0 | 0 | 14 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| Initial Fut: | 99 | 1040 | 23 | 33 | 1274 | 17 | 24 | 24 | 70 | 32 | 29 | 46 |
| User Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Volume: | 99 | 1040 | 23 | 33 | 1274 | 17 | 24 | 24 | 70 | 32 | 29 | 46 |
| Reduct Vol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced Vol: | 99 | 1040 | 23 | 33 | 1274 | 17 | 24 | 24 | 70 | 32 | 29 | 46 |
| PCE Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| MLF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| FinalVolume: | 99 | 1040 | 23 | 33 | 1274 | 17 | 24 | 24 | 70 | 32 | 29 | 46 |
| Saturation Flow Module: | | | | | | | | | | | | |
| Sat/Lane: | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 |
| Adjustment: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Lanes: | 1.00 | 1.96 | 0.04 | 1.00 | 1.97 | 0.03 | 0.20 | 0.20 | 0.60 | 0.30 | 0.27 | 0.43 |
| Final Sat.: | 1600 | 3132 | 68 | 1600 | 3157 | 43 | 323 | 323 | 954 | 477 | 431 | 692 |
| Capacity Analysis Module: | | | | | | | | | | | | |
| Vol/Sat: | 0.06 | 0.33 | 0.33 | 0.02 | 0.40 | 0.40 | 0.01 | 0.07 | 0.07 | 0.02 | 0.07 | 0.07 |
| Crit Moves: | **** | | | | **** | | | **** | | **** | | |

Palo Verde Apartments, El Monte
Future 2017 without Project
AM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #3 Peck Rd & Ramona Bl

| | | | |
|---|---|---|---|
| Cycle (sec): | 100 | Critical Vol./Cap.(X): | 0.697 |
| Loss Time (sec): | 10 | Average Delay (sec/veh): | xxxxxx |
| Optimal Cycle: | 50 | Level Of Service: | B |

| Street Name: | Peck Rd | | | | | | | Ramona Bl | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approach: | North Bound | | | South Bound | | | East Bound | | | West Bound | | | |
| Movement: | L - | T - | R | L - | T - | R | L - | T - | R | L - | T - | R | |
| Control: | Protected | | | Protected | | | Protected | | | Protected | | | |
| Rights: | Include | | | Include | | | Include | | | Include | | | |
| Min. Green: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Y+R: | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | |
| Lanes: | 1 0 | 2 0 | 1 | 1 0 | 2 1 | 0 | 1 0 | 2 0 | 1 | 1 0 | 2 0 | 1 | |
| Volume Module: | | | | | | | | | | | | | |
| Base Vol: | 39 | 605 | 123 | 125 | 1123 | 190 | 106 | 243 | 13 | 256 | 575 | 175 | |
| Growth Adj: | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | |
| Initial Bse: | 40 | 620 | 126 | 128 | 1151 | 195 | 109 | 249 | 13 | 262 | 589 | 179 | |
| Added Vol: | 0 | 14 | 2 | 0 | 14 | 3 | 4 | 25 | 0 | 4 | 41 | 1 | |
| Rel Projs: | 0 | 10 | 2 | 2 | 10 | 15 | 10 | 27 | 0 | 2 | 31 | 5 | |
| Initial Fut: | 40 | 644 | 130 | 130 | 1175 | 213 | 123 | 301 | 13 | 268 | 661 | 185 | |
| User Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| PHF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| PHF Volume: | 40 | 644 | 130 | 130 | 1175 | 213 | 123 | 301 | 13 | 268 | 661 | 185 | |
| Reduct Vol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Reduced Vol: | 40 | 644 | 130 | 130 | 1175 | 213 | 123 | 301 | 13 | 268 | 661 | 185 | |
| PCE Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| MLF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| FinalVolume: | 40 | 644 | 130 | 130 | 1175 | 213 | 123 | 301 | 13 | 268 | 661 | 185 | |
| Saturation Flow Module: | | | | | | | | | | | | | |
| Sat/Lane: | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | |
| Adjustment: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Lanes: | 1.00 | 2.00 | 1.00 | 1.00 | 2.54 | 0.46 | 1.00 | 2.00 | 1.00 | 1.00 | 2.00 | 1.00 | |
| Final Sat.: | 1600 | 3200 | 1600 | 1600 | 4064 | 736 | 1600 | 3200 | 1600 | 1600 | 3200 | 1600 | |
| Capacity Analysis Module: | | | | | | | | | | | | | |
| Vol/Sat: | 0.02 | 0.20 | 0.08 | 0.08 | 0.29 | 0.29 | 0.08 | 0.09 | 0.01 | 0.17 | 0.21 | 0.12 | |
| Crit Moves: | **** | | | | **** | | **** | | | | **** | | |

Palo Verde Apartments, El Monte
Future 2017 without Project
PM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Peck Rd & Lower Azusa Rd

| | | | |
|---|---|---|---|
| Cycle (sec): | 100 | Critical Vol./Cap.(X): | 0.931 |
| Loss Time (sec): | 10 | Average Delay (sec/veh): | xxxxxx |
| Optimal Cycle: | 119 | Level Of Service: | E |

| Street Name: | Peck Rd | | | | | | Lower Azusa Rd | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approach: | North Bound | | | South Bound | | | East Bound | | | West Bound | | |
| Movement: | L - | T - | R | L - | T - | R | L - | T - | R | L - | T - | R |
| Control: | Protected | | | Protected | | | Protected | | | Protected | | |
| Rights: | Include | | | Include | | | Include | | | Include | | |
| Min. Green: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Y+R: | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Lanes: | 1 0 | 2 0 | 1 | 1 0 | 2 0 | 1 | 1 0 | 1 1 | 0 | 1 0 | 1 1 | 0 |
| Volume Module: | | | | | | | | | | | | |
| Base Vol: | 173 | 573 | 96 | 219 | 739 | 147 | 254 | 794 | 228 | 181 | 611 | 162 |
| Growth Adj: | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 |
| Initial Bse: | 177 | 587 | 98 | 224 | 757 | 151 | 260 | 814 | 234 | 185 | 626 | 166 |
| Added Vol: | 1 | 24 | 0 | 1 | 27 | 6 | 6 | 22 | 1 | 0 | 3 | 1 |
| Rel Projs: | 7 | 1 | 6 | 0 | 1 | 4 | 7 | 30 | 16 | 9 | 20 | 0 |
| Initial Fut: | 185 | 612 | 104 | 225 | 785 | 161 | 273 | 866 | 251 | 194 | 649 | 167 |
| User Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Volume: | 185 | 612 | 104 | 225 | 785 | 161 | 273 | 866 | 251 | 194 | 649 | 167 |
| Reduct Vol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced Vol: | 185 | 612 | 104 | 225 | 785 | 161 | 273 | 866 | 251 | 194 | 649 | 167 |
| PCE Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| MLF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| FinalVolume: | 185 | 612 | 104 | 225 | 785 | 161 | 273 | 866 | 251 | 194 | 649 | 167 |
| Saturation Flow Module: | | | | | | | | | | | | |
| Sat/Lane: | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 |
| Adjustment: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Lanes: | 1.00 | 2.00 | 1.00 | 1.00 | 2.00 | 1.00 | 1.00 | 1.55 | 0.45 | 1.00 | 1.59 | 0.41 |
| Final Sat.: | 1600 | 3200 | 1600 | 1600 | 3200 | 1600 | 1600 | 2481 | 719 | 1600 | 2545 | 655 |
| Capacity Analysis Module: | | | | | | | | | | | | |
| Vol/Sat: | 0.12 | 0.19 | 0.07 | 0.14 | 0.25 | 0.10 | 0.17 | 0.35 | 0.35 | 0.12 | 0.26 | 0.26 |
| Crit Moves: | **** | | | | **** | | | **** | | **** | | |





Palo Verde Apartments, El Monte
Future 2017 without Project
PM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #2 Peck Rd & Ranchito St

| | | | |
|---|---|---|---|
| Cycle (sec): | 100 | Critical Vol./Cap.(X): | 0.638 |
| Loss Time (sec): | 10 | Average Delay (sec/veh): | xxxxxx |
| Optimal Cycle: | 43 | Level Of Service: | B |

| Street Name: | Peck Rd | | | | | | Ranchito St | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approach: | North Bound | | | South Bound | | | East Bound | | | West Bound | | |
| Movement: | L - | T - | R | L - | T - | R | L - | T - | R | L - | T - | R |
| Control: | Permitted | | | Permitted | | | Permitted | | | Permitted | | |
| Rights: | Include | | | Include | | | Include | | | Include | | |
| Min. Green: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Y+R: | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Lanes: | 1 0 | 1 1 | 0 | 1 0 | 1 1 | 0 | 0 0 | 1! 0 | 0 | 0 0 | 1! 0 | 0 |
| Volume Module: | | | | | | | | | | | | |
| Base Vol: | 53 | 1242 | 32 | 53 | 1005 | 40 | 24 | 21 | 73 | 8 | 11 | 50 |
| Growth Adj: | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 |
| Initial Bse: | 54 | 1273 | 33 | 54 | 1030 | 41 | 25 | 22 | 75 | 8 | 11 | 51 |
| Added Vol: | 1 | 25 | 2 | 0 | 28 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Rel Projs: | 1 | 19 | 1 | 0 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Initial Fut: | 56 | 1317 | 36 | 54 | 1088 | 42 | 25 | 22 | 76 | 9 | 11 | 51 |
| User Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Volume: | 56 | 1317 | 36 | 54 | 1088 | 42 | 25 | 22 | 76 | 9 | 11 | 51 |
| Reduct Vol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced Vol: | 56 | 1317 | 36 | 54 | 1088 | 42 | 25 | 22 | 76 | 9 | 11 | 51 |
| PCE Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| MLF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| FinalVolume: | 56 | 1317 | 36 | 54 | 1088 | 42 | 25 | 22 | 76 | 9 | 11 | 51 |
| Saturation Flow Module: | | | | | | | | | | | | |
| Sat/Lane: | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 |
| Adjustment: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Lanes: | 1.00 | 1.95 | 0.05 | 1.00 | 1.93 | 0.07 | 0.20 | 0.18 | 0.62 | 0.13 | 0.16 | 0.71 |
| Final Sat.: | 1600 | 3115 | 85 | 1600 | 3081 | 119 | 323 | 282 | 995 | 205 | 252 | 1143 |
| Capacity Analysis Module: | | | | | | | | | | | | |
| Vol/Sat: | 0.04 | 0.42 | 0.42 | 0.03 | 0.35 | 0.35 | 0.02 | 0.08 | 0.08 | 0.01 | 0.04 | 0.04 |
| Crit Moves: | | **** | | **** | | | | **** | | **** | | |

Palo Verde Apartments, El Monte
Future 2017 without Project
PM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #3 Peck Rd & Ramona Bl

| | | | |
|---|---|---|---|
| Cycle (sec): | 100 | Critical Vol./Cap.(X): | 0.903 |
| Loss Time (sec): | 10 | Average Delay (sec/veh): | xxxxxx |
| Optimal Cycle: | 102 | Level Of Service: | E |

| Street Name: | Peck Rd | | | | | | | Ramona Bl | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approach: | North Bound | | | South Bound | | | East Bound | | | West Bound | | | |
| Movement: | L | T | R | L | T | R | L | T | R | L | T | R | |
| Control: | Protected | | | Protected | | | Protected | | | Protected | | | |
| Rights: | Include | | | Include | | | Include | | | Include | | | |
| Min. Green: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Y+R: | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | |
| Lanes: | 1 0 | 2 0 | 1 | 1 0 | 2 1 | 0 | 1 0 | 2 0 | 1 | 1 0 | 2 0 | 1 | |
| Volume Module: | | | | | | | | | | | | | |
| Base Vol: | 48 | 1012 | 400 | 188 | 697 | 115 | 162 | 613 | 28 | 175 | 329 | 156 | |
| Growth Adj: | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | |
| Initial Bse: | 49 | 1037 | 410 | 193 | 714 | 118 | 166 | 628 | 29 | 179 | 337 | 160 | |
| Added Vol: | 0 | 24 | 4 | 1 | 23 | 8 | 7 | 71 | 0 | 3 | 62 | 1 | |
| Rel Projs: | 0 | 4 | 3 | 6 | 3 | 16 | 19 | 39 | 0 | 2 | 32 | 3 | |
| Initial Fut: | 49 | 1065 | 417 | 200 | 740 | 142 | 192 | 738 | 29 | 184 | 431 | 164 | |
| User Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| PHF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| PHF Volume: | 49 | 1065 | 417 | 200 | 740 | 142 | 192 | 738 | 29 | 184 | 431 | 164 | |
| Reduct Vol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Reduced Vol: | 49 | 1065 | 417 | 200 | 740 | 142 | 192 | 738 | 29 | 184 | 431 | 164 | |
| PCE Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| MLF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| FinalVolume: | 49 | 1065 | 417 | 200 | 740 | 142 | 192 | 738 | 29 | 184 | 431 | 164 | |
| Saturation Flow Module: | | | | | | | | | | | | | |
| Sat/Lane: | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | |
| Adjustment: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Lanes: | 1.00 | 2.00 | 1.00 | 1.00 | 2.52 | 0.48 | 1.00 | 2.00 | 1.00 | 1.00 | 2.00 | 1.00 | |
| Final Sat.: | 1600 | 3200 | 1600 | 1600 | 4028 | 772 | 1600 | 3200 | 1600 | 1600 | 3200 | 1600 | |
| Capacity Analysis Module: | | | | | | | | | | | | | |
| Vol/Sat: | 0.03 | 0.33 | 0.26 | 0.12 | 0.18 | 0.18 | 0.12 | 0.23 | 0.02 | 0.12 | 0.13 | 0.10 | |
| Crit Moves: | | **** | | **** | | | | **** | | **** | | | |

# APPENDIX F
## Opening Year (2017) with-Project LOS Worksheets

Palo Verde Apartments, El Monte
Future 2017 with Project Conditions
AM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Peck Rd & Lower Azusa Rd

| | | | |
|---|---|---|---|
| Cycle (sec): | 100 | Critical Vol./Cap.(X): | 0.929 |
| Loss Time (sec): | 10 | Average Delay (sec/veh): | xxxxxx |
| Optimal Cycle: | 117 | Level Of Service: | E |

| Street Name: | Peck Rd | | | | | | Lower Azusa Rd | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approach: | North Bound | | | South Bound | | | East Bound | | | West Bound | | |
| Movement: | L - | T - | R | L - | T - | R | L - | T - | R | L - | T - | R |
| Control: | Protected | | | Protected | | | Protected | | | Protected | | |
| Rights: | Include | | | Include | | | Include | | | Include | | |
| Min. Green: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Y+R: | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Lanes: | 1 0 | 2 0 | 1 | 1 0 | 2 0 | 1 | 1 0 | 1 1 | 0 | 1 0 | 1 1 | 0 |
| Volume Module: | | | | | | | | | | | | |
| Base Vol: | 194 | 716 | 85 | 124 | 694 | 248 | 151 | 505 | 173 | 179 | 1031 | 64 |
| Growth Adj: | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 |
| Initial Bse: | 199 | 734 | 87 | 127 | 711 | 254 | 155 | 517 | 177 | 183 | 1056 | 66 |
| Added Vol: | 2 | 17 | 4 | 1 | 11 | 3 | 2 | 3 | 1 | 1 | 21 | 1 |
| Rel Projs: | 15 | 2 | 8 | 0 | 4 | 5 | 4 | 20 | 6 | 4 | 30 | 0 |
| Initial Fut: | 216 | 753 | 99 | 128 | 726 | 262 | 161 | 540 | 184 | 188 | 1107 | 67 |
| User Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Volume: | 216 | 753 | 99 | 128 | 726 | 262 | 161 | 540 | 184 | 188 | 1107 | 67 |
| Reduct Vol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced Vol: | 216 | 753 | 99 | 128 | 726 | 262 | 161 | 540 | 184 | 188 | 1107 | 67 |
| PCE Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| MLF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| FinalVolume: | 216 | 753 | 99 | 128 | 726 | 262 | 161 | 540 | 184 | 188 | 1107 | 67 |
| Saturation Flow Module: | | | | | | | | | | | | |
| Sat/Lane: | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 |
| Adjustment: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Lanes: | 1.00 | 2.00 | 1.00 | 1.00 | 2.00 | 1.00 | 1.00 | 1.49 | 0.51 | 1.00 | 1.89 | 0.11 |
| Final Sat.: | 1600 | 3200 | 1600 | 1600 | 3200 | 1600 | 1600 | 2386 | 814 | 1600 | 3019 | 181 |
| Capacity Analysis Module: | | | | | | | | | | | | |
| Vol/Sat: | 0.13 | 0.24 | 0.06 | 0.08 | 0.23 | 0.16 | 0.10 | 0.23 | 0.23 | 0.12 | 0.37 | 0.37 |
| Crit Moves: | **** | | | | **** | | **** | | | | **** | |





Palo Verde Apartments, El Monte
Future 2017 with Project Conditions
AM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #2 Peck Rd & Ranchito St

| | | | |
|---|---|---|---|
| Cycle (sec): | 100 | Critical Vol./Cap.(X): | 0.662 |
| Loss Time (sec): | 10 | Average Delay (sec/veh): | xxxxxx |
| Optimal Cycle: | 46 | Level Of Service: | B |

| Street Name: | Peck Rd | | | | | | Ranchito St | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approach: | North Bound | | | South Bound | | | East Bound | | | West Bound | | |
| Movement: | L - | T - | R | L - | T - | R | L - | T - | R | L - | T - | R |
| Control: | Permitted | | | Permitted | | | Permitted | | | Permitted | | |
| Rights: | Include | | | Include | | | Include | | | Include | | |
| Min. Green: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Y+R: | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Lanes: | 1 0 | 1 1 | 0 | 1 0 | 1 1 | 0 | 0 0 | 1! 0 | 0 | 0 0 | 1! 0 | 0 |
| Volume Module: | | | | | | | | | | | | |
| Base Vol: | 96 | 977 | 21 | 32 | 1218 | 17 | 22 | 23 | 66 | 29 | 28 | 44 |
| Growth Adj: | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 |
| Initial Bse: | 98 | 1001 | 22 | 33 | 1248 | 17 | 23 | 24 | 68 | 30 | 29 | 45 |
| Added Vol: | 1 | 19 | 1 | 0 | 25 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Rel Projs: | 0 | 23 | 0 | 0 | 14 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| Initial Fut: | 99 | 1043 | 23 | 33 | 1287 | 17 | 24 | 24 | 70 | 32 | 29 | 46 |
| User Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Volume: | 99 | 1043 | 23 | 33 | 1287 | 17 | 24 | 24 | 70 | 32 | 29 | 46 |
| Reduct Vol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced Vol: | 99 | 1043 | 23 | 33 | 1287 | 17 | 24 | 24 | 70 | 32 | 29 | 46 |
| PCE Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| MLF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| FinalVolume: | 99 | 1043 | 23 | 33 | 1287 | 17 | 24 | 24 | 70 | 32 | 29 | 46 |
| Saturation Flow Module: | | | | | | | | | | | | |
| Sat/Lane: | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 |
| Adjustment: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Lanes: | 1.00 | 1.96 | 0.04 | 1.00 | 1.97 | 0.03 | 0.20 | 0.20 | 0.60 | 0.30 | 0.27 | 0.43 |
| Final Sat.: | 1600 | 3132 | 68 | 1600 | 3157 | 43 | 323 | 323 | 954 | 477 | 431 | 692 |
| Capacity Analysis Module: | | | | | | | | | | | | |
| Vol/Sat: | 0.06 | 0.33 | 0.33 | 0.02 | 0.41 | 0.41 | 0.01 | 0.07 | 0.07 | 0.02 | 0.07 | 0.07 |
| Crit Moves: | **** | | | | **** | | | **** | | **** | | |

Palo Verde Apartments, El Monte
Future 2017 with Project Conditions
AM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #3 Peck Rd & Ramona Bl

| | | | |
|---|---|---|---|
| Cycle (sec): | 100 | Critical Vol./Cap.(X): | 0.699 |
| Loss Time (sec): | 10 | Average Delay (sec/veh): | xxxxxx |
| Optimal Cycle: | 50 | Level Of Service: | B |

| Street Name: | Peck Rd | | | | | | | Ramona Bl | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approach: | North Bound | | | | South Bound | | | East Bound | | | | West Bound | | | |
| Movement: | L | - T | - R | | L | - T | - R | L | - T | - R | | L | - T | - R | |
| Control: | Protected | | | | Protected | | | Protected | | | | Protected | | | |
| Rights: | Include | | | | Include | | | Include | | | | Include | | | |
| Min. Green: | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| Y+R: | 4.0 | 4.0 | 4.0 | | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | | 4.0 | 4.0 | 4.0 | |
| Lanes: | 1 | 0 2 | 0 | 1 | 1 | 0 2 | 1 | 0 | 1 | 0 2 | 0 | 1 | 1 | 0 2 | 0 1 |
| Volume Module: | | | | | | | | | | | | | | | |
| Base Vol: | 39 | 605 | 123 | | 125 | 1123 | 190 | 106 | 243 | 13 | | 256 | 575 | 175 | |
| Growth Adj: | 1.02 | 1.02 | 1.02 | | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | | 1.02 | 1.02 | 1.02 | |
| Initial Bse: | 40 | 620 | 126 | | 128 | 1151 | 195 | 109 | 249 | 13 | | 262 | 589 | 179 | |
| Added Vol: | 0 | 17 | 2 | | 3 | 23 | 4 | 4 | 25 | 0 | | 4 | 41 | 2 | |
| Rel Projs: | 0 | 10 | 2 | | 2 | 10 | 15 | 10 | 27 | 0 | | 2 | 31 | 5 | |
| Initial Fut: | 40 | 647 | 130 | | 133 | 1184 | 214 | 123 | 301 | 13 | | 268 | 661 | 186 | |
| User Adj: | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | |
| PHF Adj: | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | |
| PHF Volume: | 40 | 647 | 130 | | 133 | 1184 | 214 | 123 | 301 | 13 | | 268 | 661 | 186 | |
| Reduct Vol: | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 | 0 | |
| Reduced Vol: | 40 | 647 | 130 | | 133 | 1184 | 214 | 123 | 301 | 13 | | 268 | 661 | 186 | |
| PCE Adj: | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | |
| MLF Adj: | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | |
| FinalVolume: | 40 | 647 | 130 | | 133 | 1184 | 214 | 123 | 301 | 13 | | 268 | 661 | 186 | |
| Saturation Flow Module: | | | | | | | | | | | | | | | |
| Sat/Lane: | 1600 | 1600 | 1600 | | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | | 1600 | 1600 | 1600 | |
| Adjustment: | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 | |
| Lanes: | 1.00 | 2.00 | 1.00 | | 1.00 | 2.54 | 0.46 | 1.00 | 2.00 | 1.00 | | 1.00 | 2.00 | 1.00 | |
| Final Sat.: | 1600 | 3200 | 1600 | | 1600 | 4066 | 734 | 1600 | 3200 | 1600 | | 1600 | 3200 | 1600 | |
| Capacity Analysis Module: | | | | | | | | | | | | | | | |
| Vol/Sat: | 0.02 | 0.20 | 0.08 | | 0.08 | 0.29 | 0.29 | 0.08 | 0.09 | 0.01 | | 0.17 | 0.21 | 0.12 | |
| Crit Moves: | **** | | | | | **** | | **** | | | | | **** | | |

Palo Verde Apartments, El Monte
Future 2017 with Project Conditions
PM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #1 Peck Rd & Lower Azusa Rd

| | | | |
|---|---|---|---|
| Cycle (sec): | 100 | Critical Vol./Cap.(X): | 0.936 |
| Loss Time (sec): | 10 | Average Delay (sec/veh): | xxxxxx |
| Optimal Cycle: | 122 | Level Of Service: | E |

| Street Name: | Peck Rd | | | | | | Lower Azusa Rd | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approach: | North Bound | | | South Bound | | | East Bound | | | West Bound | | |
| Movement: | L - | T - | R | L - | T - | R | L - | T - | R | L - | T - | R |
| Control: | Protected | | | Protected | | | Protected | | | Protected | | |
| Rights: | Include | | | Include | | | Include | | | Include | | |
| Min. Green: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Y+R: | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Lanes: | 1 0 | 2 0 | 1 | 1 0 | 2 0 | 1 | 1 0 | 1 1 | 0 | 1 0 | 1 1 | 0 |
| Volume Module: | | | | | | | | | | | | |
| Base Vol: | 173 | 573 | 96 | 219 | 739 | 147 | 254 | 794 | 228 | 181 | 611 | 162 |
| Growth Adj: | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 |
| Initial Bse: | 177 | 587 | 98 | 224 | 757 | 151 | 260 | 814 | 234 | 185 | 626 | 166 |
| Added Vol: | 2 | 25 | 2 | 1 | 29 | 6 | 6 | 22 | 2 | 4 | 3 | 1 |
| Rel Projs: | 7 | 1 | 6 | 0 | 1 | 4 | 7 | 30 | 16 | 9 | 20 | 0 |
| Initial Fut: | 186 | 613 | 106 | 225 | 787 | 161 | 273 | 866 | 252 | 198 | 649 | 167 |
| User Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Volume: | 186 | 613 | 106 | 225 | 787 | 161 | 273 | 866 | 252 | 198 | 649 | 167 |
| Reduct Vol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced Vol: | 186 | 613 | 106 | 225 | 787 | 161 | 273 | 866 | 252 | 198 | 649 | 167 |
| PCE Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| MLF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| FinalVolume: | 186 | 613 | 106 | 225 | 787 | 161 | 273 | 866 | 252 | 198 | 649 | 167 |
| Saturation Flow Module: | | | | | | | | | | | | |
| Sat/Lane: | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 |
| Adjustment: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Lanes: | 1.00 | 2.00 | 1.00 | 1.00 | 2.00 | 1.00 | 1.00 | 1.55 | 0.45 | 1.00 | 1.59 | 0.41 |
| Final Sat.: | 1600 | 3200 | 1600 | 1600 | 3200 | 1600 | 1600 | 2479 | 721 | 1600 | 2545 | 655 |
| Capacity Analysis Module: | | | | | | | | | | | | |
| Vol/Sat: | 0.12 | 0.19 | 0.07 | 0.14 | 0.25 | 0.10 | 0.17 | 0.35 | 0.35 | 0.12 | 0.26 | 0.26 |
| Crit Moves: | **** | | | | **** | | | **** | | **** | | |





Palo Verde Apartments, El Monte
Future 2017 with Project Conditions
PM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #2 Peck Rd & Ranchito St

| | | | |
|---|---|---|---|
| Cycle (sec): | 100 | Critical Vol./Cap.(X): | 0.643 |
| Loss Time (sec): | 10 | Average Delay (sec/veh): | xxxxxx |
| Optimal Cycle: | 44 | Level Of Service: | B |

| Street Name: | Peck Rd | | | | | | Ranchito St | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approach: | North Bound | | | South Bound | | | East Bound | | | West Bound | | |
| Movement: | L - | T - | R | L - | T - | R | L - | T - | R | L - | T - | R |
| Control: | Permitted | | | Permitted | | | Permitted | | | Permitted | | |
| Rights: | Include | | | Include | | | Include | | | Include | | |
| Min. Green: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Y+R: | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 |
| Lanes: | 1 0 | 1 1 | 0 | 1 0 | 1 1 | 0 | 0 0 | 1! 0 | 0 | 0 0 | 1! 0 | 0 |
| Volume Module: | | | | | | | | | | | | |
| Base Vol: | 53 | 1242 | 32 | 53 | 1005 | 40 | 24 | 21 | 73 | 8 | 11 | 50 |
| Growth Adj: | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 |
| Initial Bse: | 54 | 1273 | 33 | 54 | 1030 | 41 | 25 | 22 | 75 | 8 | 11 | 51 |
| Added Vol: | 1 | 38 | 2 | 0 | 34 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Rel Projs: | 1 | 19 | 1 | 0 | 30 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Initial Fut: | 56 | 1330 | 36 | 54 | 1094 | 42 | 25 | 22 | 76 | 9 | 11 | 51 |
| User Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| PHF Volume: | 56 | 1330 | 36 | 54 | 1094 | 42 | 25 | 22 | 76 | 9 | 11 | 51 |
| Reduct Vol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced Vol: | 56 | 1330 | 36 | 54 | 1094 | 42 | 25 | 22 | 76 | 9 | 11 | 51 |
| PCE Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| MLF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| FinalVolume: | 56 | 1330 | 36 | 54 | 1094 | 42 | 25 | 22 | 76 | 9 | 11 | 51 |
| Saturation Flow Module: | | | | | | | | | | | | |
| Sat/Lane: | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 |
| Adjustment: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Lanes: | 1.00 | 1.95 | 0.05 | 1.00 | 1.93 | 0.07 | 0.20 | 0.18 | 0.62 | 0.13 | 0.16 | 0.71 |
| Final Sat.: | 1600 | 3116 | 84 | 1600 | 3082 | 118 | 323 | 282 | 995 | 205 | 252 | 1143 |
| Capacity Analysis Module: | | | | | | | | | | | | |
| Vol/Sat: | 0.04 | 0.43 | 0.43 | 0.03 | 0.35 | 0.35 | 0.02 | 0.08 | 0.08 | 0.01 | 0.04 | 0.04 |
| Crit Moves: | | **** | | **** | | | | **** | | **** | | |

Palo Verde Apartments, El Monte
Future 2017 with Project Conditions
PM Peak Hour

Level Of Service Computation Report
ICU 1(Loss as Cycle Length %) Method (Future Volume Alternative)

Intersection #3 Peck Rd & Ramona Bl

| | | | |
|---|---|---|---|
| Cycle (sec): | 100 | Critical Vol./Cap.(X): | 0.907 |
| Loss Time (sec): | 10 | Average Delay (sec/veh): | xxxxxx |
| Optimal Cycle: | 104 | Level Of Service: | E |

| Street Name: | Peck Rd | | | | | | | Ramona Bl | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Approach: | North Bound | | | South Bound | | | East Bound | | | West Bound | | | |
| Movement: | L - | T - | R | L - | T - | R | L - | T - | R | L - | T - | R | |
| Control: | Protected | | | Protected | | | Protected | | | Protected | | | |
| Rights: | Include | | | Include | | | Include | | | Include | | | |
| Min. Green: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Y+R: | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | |
| Lanes: | 1 0 | 2 0 | 1 | 1 0 | 2 1 | 0 | 1 0 | 2 0 | 1 | 1 0 | 2 0 | 1 | |
| Volume Module: | | | | | | | | | | | | | |
| Base Vol: | 48 | 1012 | 400 | 188 | 697 | 115 | 162 | 613 | 28 | 175 | 329 | 156 | |
| Growth Adj: | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | |
| Initial Bse: | 49 | 1037 | 410 | 193 | 714 | 118 | 166 | 628 | 29 | 179 | 337 | 160 | |
| Added Vol: | 0 | 33 | 4 | 2 | 28 | 8 | 8 | 71 | 0 | 3 | 62 | 4 | |
| Rel Projs: | 0 | 4 | 3 | 6 | 3 | 16 | 19 | 39 | 0 | 2 | 32 | 3 | |
| Initial Fut: | 49 | 1074 | 417 | 201 | 745 | 142 | 193 | 738 | 29 | 184 | 431 | 167 | |
| User Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| PHF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| PHF Volume: | 49 | 1074 | 417 | 201 | 745 | 142 | 193 | 738 | 29 | 184 | 431 | 167 | |
| Reduct Vol: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Reduced Vol: | 49 | 1074 | 417 | 201 | 745 | 142 | 193 | 738 | 29 | 184 | 431 | 167 | |
| PCE Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| MLF Adj: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| FinalVolume: | 49 | 1074 | 417 | 201 | 745 | 142 | 193 | 738 | 29 | 184 | 431 | 167 | |
| Saturation Flow Module: | | | | | | | | | | | | | |
| Sat/Lane: | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | |
| Adjustment: | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | |
| Lanes: | 1.00 | 2.00 | 1.00 | 1.00 | 2.52 | 0.48 | 1.00 | 2.00 | 1.00 | 1.00 | 2.00 | 1.00 | |
| Final Sat.: | 1600 | 3200 | 1600 | 1600 | 4032 | 768 | 1600 | 3200 | 1600 | 1600 | 3200 | 1600 | |
| Capacity Analysis Module: | | | | | | | | | | | | | |
| Vol/Sat: | 0.03 | 0.34 | 0.26 | 0.13 | 0.18 | 0.18 | 0.12 | 0.23 | 0.02 | 0.12 | 0.13 | 0.10 | |
| Crit Moves: | | **** | | **** | | | | **** | | **** | | | |

# APPENDIX I: CONSULTATION LETTERS

# COUNTY OF LOS ANGELES FIRE DEPARTMENT

**Fire Prevention Division**
**Land Development Unit**
**5823 Rickenbacker Road**
**Commerce, California 90040-3027**
**Office (323) 890-4243 Fax (323) 890-9783**

**DATE:** **02-10-2014** **SITE PLAN DATE:** **12-18-2014**

**TO:** **City of El Monte Planning Department**

**PROJECT #:** CUP 22-14

**LOCATION:** 4704 & 4716 Peck Road

☐ The Fire Department Land Development Unit has no additional requirements for this permit.

☒ The required fire flow for this development is **3875** gallons per minute for **3** hours. The water mains in the street fronting this property must be capable of delivering this flow at 20 psi residual pressure. 3 Hydrant(s) flowing simultaneously may be used to achieve the required fire flow.

☒ All fire hydrants shall be 6" X 4" X 2 1/2" and conform to AWWA C503-75 or approved equal standard. All installations must meet Fire Department specifications. Fire hydrant systems must be installed in accordance with the Utility Manual of Ordinance 7834 and all installations must be inspected and flow tested prior to final approval.

Install **1** public fire hydrant(s).
Install ____ private on-site fire hydrant(s).
Provide Fire Flow Test for ____ existing public fire hydrant(s).

☒ **Water:** Per San Gabriel Valley, Water Company, the existing public fire hydrant at Ranchito St. and Peck Road meets the current Fire Department requirements. The required fire flow may be reduced by the Fire Prevention Enginnering Unit during the Building Plan Check Phase. One new public fire hydrant is required on Peck Road at the north property line. All required public fire hydrants shall be installed, tested and accepted prior to beginning construction. Fire Code 501.4

☒ **Access:** The proposed access is adequate as depicted on the site plan dated 12-18-2014 filed in the LDU office.

☒ **Conditions for Approval:** The method of gate control and gate requirements shall be subject to review by the Fire Department Engineering Unit during the permit plan approval phase.

☒ **Comments:** THIS PROJECT IS CLEARED FOR PUBLIC HEARING BY THE FIRE DEPARTMENT.

Inspector: Claudia Soiza

FORM 196
Rev. 04/03

# COUNTY OF LOS ANGELES FIRE DEPARTMENT
## FIRE PREVENTION DIVISION

Fire Prevention Engineering
5823 Rickenbacker Road
Commerce, CA 90040
Telephone (323) 890-4125 Fax (323) 890-4129

## Information on Fire Flow Availability for Building Permit

**For All Buildings Other Than Single Family Dwellings (R-3)**

**INSTRUCTIONS:**

Complete parts I, II (A) when:
Verifying fire flow, fire hydrant location and fire hydrant size.

Complete parts I, II (A), & II (B) when:
For buildings equipped with fire sprinkler systems, and/or private on-site fire hydrants.

**PROJECT INFORMATION**
**(To Be Completed By Applicant)**

**PART I**

Building Address: 4704-4716 Peck Road

City or Area: El Monte

Nearest Cross Street: Ranchito St.

Distance of Nearest Cross Street: Ranchito St. borders site to the south

Applicant: Hollywood Community Housing Corporatic Telephone: (323) 454-6207

Address: 5020 Santa Monica Blvd.

City: Los Angeles, CA 90029

Occupancy (Use of Building): R2 Sprinklered: Yes [X] No [ ]

Type of Construction: Type V-A

Square Footage: 82,756 SF Number of Stories: 3

Present Zoning: MMU

Eleanor Wardwing
Applicant's Signature
Project Manager

7/24/14
Date

**PART II-A** **INFORMATION ON FIRE FLOW AVAILABILITY**
**(To be completed by Water Purveyor)**

Location Ranchito St. and Peck Rd.

Hydrant Number 3836E

Distance from Nearest Property Line see map Size of Hydrant 6"x4"x2½" Size of Water main 16"

Static PSI 80 Residual PSI 70 Orifice size 4" Pitot 45

Fire Flow at 20 PSI 5000 GPM Duration 5 hrs. Flow Test Date / Time 8-1-14/9:40a.m.

---

Location

Hydrant Number

Distance from Nearest Property Line Size of Hydrant Size of Water main

Static PSI Residual PSI Orifice size Pitot

Fire Flow at 20 PSI Duration Flow Test Date / Time

---

Location

Hydrant Number

Distance from Nearest Property Line Size of Hydrant Size of Water main

Static PSI Residual PSI Orifice size Pitot

Fire Flow at 20 PSI Duration Flow Test Date / Time

---

**PART II-B** **SPRINKLERED BUILDINGS/PRIVATE FIRE HYDRANTS ONLY**

Detector Location (check one) ☐ Above Grade ☐ Below Grade ☐ Either

Backflow Protection Required (Fire Sprinklers/Private Hydrant) (check one) ☐ Yes ☐ No

Minimum Type of Protection Required (check one) ☐ Single Check Detector Assembly

☐ Double Check Detector Assembly ☐ Reduced Pressure Principle Detector Assembly

---

San Gabriel Valley Water Company
Water Purveyor

Signature Keith Hueston

August 8, 2014
Date

Engineering Aide
Title

**This Information is Considered Valid for Twelve Months**

Fire Department approval of building plans shall be required prior to the issuance of a Building Permit by the jurisdictional Building Department. Any deficiencies in water systems will need to be resolved by the Fire Prevention Division only prior to this department's approval of building plans.

# SAN GABRIEL VALLEY WATER COMPANY

Mailing Address: Attn: Eleanor Atkins
Hollywood Community Housing Corporation
5020 Santa Monica Blvd.
Los Angeles, CA 90029

Subject: 4704-4716 Peck Rd. El Monte, CA 91732
49 units, new construction building
3 stories - 19 one-bedrooms, 15 two-bedrooms and 15 three-bedrooms

:

: San Gabriel Valley Water Company is a public utility regulated by the State of California Public Utilities Commission. The company supplies water to customers in its service area in accordance with the company's tariff schedules and rules filed with the California Public Utilities Commission.

The subject property is located entirely within the service area of San Gabriel Valley Water Company. Adequate line and storage capacity for domestic water purposes exists, and following completion of necessary financial arrangements and execution of appropriate agreements, those facilities can be extended to provide public utility water service to the subject development.

The existing water main located in the street fronting the site may not be capable of providing the required fire flow for this development. Please contact the fire department to ascertain the fire flow requirements for this development and then discuss those requirements and the domestic water service requirements with us as soon as possible.

If you have any question or need additional information, please call me.

Very truly yours,

Matt Y. Yucelen, P. E.
Chief Engineer

MYY:jp

AT&T California
8633 Grand Avenue
Rosemead, CA 91770-1220

T:
F: 626.285.7065

July 18, 2014

Eleanor Atkins
Hollywood Community Housing Corporation
5020 Santa Monica Blvd.
Los Angeles, CA 90029

**Re: 49-unit multi-family housing development located at the 4704-4716 Peck Road in the city of El Monte, CA 91732**

**APNs: 8547-014-010 and 8547-014-011**

Dear Ms. Atkins:

This is to inform you that AT&T will provide service to the above-described location.

Please feel free to call this office on (626) 570-7633, should you have any further questions on this matter.

Sincerely,

Dennis Terrazone
Engineer

USA Proud Sponsor of the U.S. Olympic Team

Will Serve Letter Only

SOUTHERN CALIFORNIA
EDISON
An EDISON INTERNATIONAL Company

July 21, 2014

Hollywood Community Housing Corp

4704-4716 Peck, El Monte

Your project is located in Southern California Edison (SCE) service territory. SCE will serve the above subject project's electrical requirements per the California Public Utilities Commission and Federal Energy Regulatory Commission tariffs.

SCE may need to conduct utility studies, where applicable, to assess whether additions or modifications to the existing electric infrastructure are required to serve this project as indicated in Appendix (B) attached hereto. This Will-Serve letter does not imply that either: (i) these studies have been completed, or (ii) that any required California Environmental Quality Act (CEQA) analysis of project-related electric utility impacts has been conducted.

I am the SCE Representative currently assigned to this project. SCE or Applicant will design and construct all required electrical infrastructure to serve this project provided you enter into the applicable contractual agreements with SCE identify scope of electrical utility work required, and supply the following information:

- Site plans as required
- Required contracts and agreements (fully executed)
- Applicable fees
- Local permits
- Required easement documents

Your project will be scheduled for construction once SCE has all the necessary information for your project and you have submitted or agreed to the applicable requirements as stated above, and paid any necessary fees.

If your project will not require SCE services, please notify us so that we can update our records.

SCE appreciates your business. If you have any questions, please feel free to call me at 909 592 3737 -Jeff Burt

Sincerely,

SCE Design Service Representative

Enclosure: Appendix B

The Gas Company
A Sempra Energy utility™

1919 S. State College Blvd.
Anaheim, CA 92806-6114

September 29, 2014

Hollywood Community Housing Corporation
5020 Santa Monica Blvd.
Los Angeles, CA 90029

Attn: Eleanor Atkins

**Subject: Will Serve Request for Residential Development for 4704-4716 Peck Rd., El Monte; Los Angeles Co. APN# 8547-014-010; -011**

Thank you for inquiring about the availability of natural gas service for your project. We are pleased to inform you that Southern California Gas Company (SoCalGas) has facilities in the area where the above named project is being proposed. The service would be in accordance with SoCalGas' policies and extension rules on file with the California Public Utilities Commission (Commission) at the time contractual arrangements are made.

This letter should not be considered a contractual commitment to serve the proposed project, and is only provided for informational purposes only. The availability of natural gas service is based upon natural gas supply conditions and is subject to changes in law or regulation. As a public utility, SoCalGas is under the jurisdiction of the Commission and certain federal regulatory agencies, and gas service will be provided in accordance with the rules and regulations in effect at the time service is provided. Natural gas service is also subject to environmental regulations, which could affect the construction of a main or service line extension (for example, if hazardous wastes were encountered in the process of installing the line). Applicable regulations will be determined once a contract with SoCalGas is executed.

If you need assistance choosing the appropriate gas equipment for your project, or would like to discuss the most effective applications of energy efficiency techniques, please contact our area Service Center at 800-427-2200.

Thank you again for choosing clean, reliable, and safe natural gas, your best energy value.

Armando Torrez
Planning Supervisor
SouthEast Region - Anaheim Planning & Engineering

AT/ps
wilserv.doc

# El Monte Union High School District

3537 Johnson Avenue • El Monte, California 91731
(626) 444-9005

**Board of Trustees**

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*Interim Superintendent*

**Michael P. Bishop**
*Interim Chief Business Official*

**Sergio Flores, Ed.D.**
*Asst. Superintendent-Educational Services*

**Edward A. Zuniga**
*Asst. Superintendent-Personnel*

March 2, 2015

Ms. Jennifer Kelley
Parker Environmental Consultants
25000 Avenue Stanford, Suite 209
Santa Clarita, CA 91355

Dear Ms. Kelley:

According to the referenced area for construction for a new subdivision, Palo Verde Apartments Project (Proposed Project), Arroyo High School would be the school servicing this area.

The EMUHSD's response to the CEQA Initial Study Questions are:

1. Which schools would serve the Proposed Project?
   a. Name and address:
      *Arroyo High School, 4921 N. Cedar Ave., El Monte, CA 91732*
   b. The track type: *single/traditional track (August to June)*
   c. The current enrollment (2014-2015) and the capacity:
      - *2266 students*
      - *According to draft of Master Plan: district capacity for AHS of 2,847*
   d. If there are planned improvements to add capacity through expansion: *None*

2. Are there plans to build any new schools that would serve the project area? *Not at the present time*

3. How does the El Monte Union High School measure the number of new students generated by the Proposed Project who may move into the local area? Please provide generations rates.

   *According to the Justification Study prepared by the Dolinka Group, page 5 states:*

   *C. Student Generation Factors—SGFs for the high school level for each of the residential land use categories were calculated by Dolinka Group. Dolinka calculated SGFs for the School District through an analysis which consisted of cross-reference the School District's actual enrollment data against residential data from the Office of the Assessor for the County.*

   *Page 8, table 3 indicates:*
   *Students matched: 4,438*
   *Single family units: 21,470*
   *SGF: .2067*

If you need any further information please let me know.

Sincerely,

Mary L. Willis

Mary L. Willis, Ed.D.
Superintendent

**CEQA Initial Study Questions**

1. Which fire station(s) would serve the Proposed Project? For each station, please
provide:

*Fire Station 169, is the jurisdictional station (1st-due) for this project. It is located at 5112 N. Peck Road, EL Monte, CA 91732.*

a. The numbers and rank of staff

*Fire Station 169 is staff with three uniform personnel; 1-Captain, 1-Fire Fighter Specialist and 1-Fire Fighter.*

b. The equipment types (engines, trucks, rescue ambulances, etc.)

*Fire Station 169 has 1-Engine (Engine 169).*

c. The distance and estimated response times to the project location

*Fire Station 169 is approximately .5 miles from the project site and based on this distance, Engine 169 is estimated to have a response time of 1.7 minutes.*

d. The call types and volumes within a given time frame (month, year-to-date, etc.)

*During 2014, Fire Station 169 responded to a total of 1,312 emergency incidents, of which 37 were fire, 1,146 were medical and 129 were other.*

e. Any other unique or distinct function (USAR, helicopters, boats, etc)

*No.*

2. What is the current average response within the LA County Fire Department system?
What is the desired response time? Do the fire stations meet the desired response times of the LA County Fire Department?

*The Fire Department uses national guidelines of a 5-minute response time for the 1st-arriving unit for fire and EMS responses and 8 minutes for the advanced life support (paramedic) unit in urban areas. The project is within an urban area and currently these times are being met.*

3. What is the current average types and volume of calls within the LA County Fire
Department system? Are the fire stations that would serve the project above or below
average for calls?

*In 2014, the Fire Department responded to 358,235 calls within its jurisdiction, of
which 8,080 were fire, 277,122 were emergency medical services, and 73,033
were other types.*

*The call volume for Fire Station 169 is comparable to other fire stations with similarly sized jurisdictions.*

If you any additional questions, please let me know.

Loretta Bagwell, Planning Analyst
Planning Division
Los Angeles County Fire Department
(323) 881-2404
Loretta.Bagwell@fire.lacounty.gov

Q1. El Monte Police Department

a. 109 Sworn officers and 40 Civilian Staff

b. El Monte City Limits.

    a. We do not serve County areas around the city or South El Monte which is a separate City.

c. 4.5 Minutes is the average priority 1 Response time. 15 minutes on Priority 2 calls

d. Please see attached spread sheet on Crime stats.

Q2. We are currently below our budgeted sworn officer compliment. While we are meeting service demands, our focus is on core services and delivering emergency operations functions to the community. Several investigative and community support programs are not staff due to limited personnel who are dedicated to patrol operations.

Q3. Our traditional response times are 3-4 minutes. While current response time is in excess of 4 minutes, we are concurrent with industry standards for response times.

Q4. The population of El Monte is estimated at 120,000 people. Our normal complement of officers is 121, but at a current staffing level of sworn officers at 109 it is below industry standard staffing for a city of our size and area.

Thank you,

Lt. Christopher Williams
(626) 580-2160
El Monte Police
Detective Bureau

# El Monte Police Department

## Monthly Report

## DECEMBER 2014

### Total Part 1 Crimes

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total | % +/- | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2010** | 298 | 277 | 282 | 296 | 313 | 247 | 271 | 234 | 219 | 245 | 226 | 296 | 3,204 | | |
| **2011** | 255 | 214 | 236 | 224 | 233 | 221 | 195 | 202 | 189 | 246 | 257 | 232 | 2,704 | -15.6% | |
| **2012** | 277 | 197 | 218 | 236 | 234 | 180 | 186 | 211 | 196 | 251 | 190 | 247 | 2,623 | -3.0% | |
| **2013** | 245 | 203 | 199 | 163 | 178 | 225 | 191 | 208 | 199 | 221 | 274 | 218 | 2,524 | -3.8% | 2524 |
| **2014** | 253 | 200 | 210 | 188 | 190 | 198 | 194 | 211 | 205 | 208 | 242 | 253 | 2,552 | 1.1% | |
| **Projection** | 269 | 223 | 234 | 230 | 240 | 218 | 211 | 214 | 201 | 241 | 237 | 248 | 2764 | | |

### Violent Crime: (Homicide, Rape, Robbery, Aggravated Assault)

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total | % +/- | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2010** | 63 | 46 | 51 | 36 | 73 | 57 | 40 | 58 | 42 | 52 | 49 | 39 | 606 | | |
| **2011** | 31 | 26 | 34 | 42 | 43 | 42 | 34 | 39 | 30 | 37 | 32 | 29 | 419 | -30.9% | |
| **2012** | 35 | 25 | 39 | 28 | 38 | 32 | 35 | 41 | 31 | 40 | 19 | 33 | 396 | -5.5% | |
| **2013** | 21 | 16 | 29 | 36 | 33 | 33 | 26 | 33 | 29 | 27 | 31 | 26 | 340 | -14.1% | 340 |
| **2014** | 41 | 21 | 30 | 26 | 24 | 33 | 26 | 38 | 30 | 31 | 15 | 23 | 338 | -0.6% | |
| **Projection** | 38 | 28 | 38 | 36 | 47 | 41 | 34 | 43 | 33 | 39 | 33 | 32 | 440 | | |

### Non Violent Crime: (Burglary, Theft, Auto Theft)

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total | % +/- | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2010** | 235 | 231 | 231 | 260 | 240 | 190 | 231 | 176 | 177 | 193 | 177 | 257 | 2,598 | | |
| **2011** | 224 | 188 | 202 | 182 | 190 | 179 | 161 | 163 | 159 | 209 | 225 | 203 | 2,285 | -12.0% | |
| **2012** | 242 | 172 | 179 | 208 | 196 | 148 | 151 | 170 | 165 | 211 | 171 | 214 | 2,227 | -2.5% | |
| **2013** | 224 | 187 | 170 | 127 | 145 | 192 | 165 | 175 | 170 | 194 | 243 | 192 | 2,184 | -1.9% | 2184 |
| **2014** | 212 | 179 | 180 | 162 | 166 | 165 | 168 | 173 | 175 | 177 | 227 | 230 | 2,214 | 1.4% | |
| **Projection** | 231 | 195 | 196 | 194 | 193 | 177 | 177 | 171 | 168 | 202 | 204 | 217 | 2324 | | |

## Homicide

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total | % +/- | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2010** | 1 | 1 | | | 1 | 1 | | | 2 | | | | 6 | | |
| **2011** | | | | | 1 | | | | | | | | 1 | -83% | |
| **2012** | | | | 1 | 1 | | | | | 1 | 1 | | 4 | 300.0% | |
| **2013** | | | | | | 1 | | | | 2 | | | 3 | -25.0% | 3 |
| **2014** | | | 1 | | | | | | 1 | | | | 2 | -33.3% | |
| **Projection** | 0 | 0 | | 0 | 1 | 1 | | | 1 | 1 | 0 | | 4 | | |

## Rape

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total | % +/- | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2010** | 2 | 2 | 3 | 2 | 4 | 1 | 3 | 5 | 1 | 1 | 2 | 1 | 27 | | |
| **2011** | | 5 | 2 | 1 | 4 | 3 | 6 | 3 | 1 | 2 | 2 | 5 | 34 | 26% | |
| **2012** | 3 | 1 | 3 | 2 | 3 | 2 | 1 | | 2 | 2 | | 1 | 20 | -41.2% | |
| **2013** | | 1 | 1 | | 1 | 3 | 1 | 1 | 4 | 1 | | 1 | 14 | -30.0% | 14 |
| **2014** | 2 | 2 | 1 | | 1 | 1 | 2 | 2 | 2 | 8 | 1 | 1 | 23 | 64.3% | |
| **Projection** | 1 | 2 | 2 | 1 | 3 | 2 | 3 | 2 | 2 | 2 | 1 | 2 | 24 | | |

## Robbery

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total | % +/- | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2010** | 22 | 27 | 18 | 14 | 30 | 17 | 19 | 24 | 19 | 26 | 22 | 27 | 265 | | |
| **2011** | 16 | 8 | 17 | 19 | 10 | 22 | 12 | 17 | 17 | 22 | 19 | 17 | 196 | -26% | |
| **2012** | 19 | 14 | 18 | 14 | 22 | 18 | 18 | 23 | 12 | 19 | 12 | 14 | 203 | 3.6% | |
| **2013** | 12 | 6 | 12 | 12 | 13 | 20 | 16 | 13 | 13 | 9 | 12 | 17 | 155 | -23.6% | 155 |
| **2014** | 22 | 10 | 13 | 8 | 13 | 15 | 11 | 17 | 18 | 15 | 8 | 14 | 164 | 5.8% | |
| **Projection** | 17 | 14 | 16 | 15 | 19 | 19 | 16 | 19 | 15 | 19 | 16 | 19 | 205 | | |

## Aggravated Assaults (Does not Include Simple Assault)

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total | % +/- | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2010** | 38 | 16 | 30 | 20 | 38 | 38 | 18 | 29 | 20 | 25 | 25 | 11 | 308 | | |
| **2011** | 15 | 13 | 15 | 22 | 28 | 17 | 16 | 19 | 12 | 13 | 11 | 7 | 188 | -39.0% | |
| **2012** | 13 | 10 | 18 | 11 | 12 | 12 | 16 | 18 | 17 | 18 | 6 | 18 | 169 | -10.1% | |
| **2013** | 9 | 9 | 16 | 24 | 19 | 9 | 9 | 19 | 12 | 15 | 19 | 8 | 168 | -0.6% | 168 |
| **2014** | 17 | 9 | 15 | 18 | 10 | 17 | 13 | 19 | 9 | 8 | 6 | 8 | 149 | -11.3% | |
| **Projection** | 19 | 12 | 20 | 19 | 24 | 19 | 15 | 21 | 15 | 18 | 15 | 11 | 208 | | |

## Burglary

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total | % +/- | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2010** | 44 | 35 | 49 | 55 | 74 | 55 | 57 | 37 | 54 | 54 | 43 | 50 | 607 | | |
| **2011** | 41 | 43 | 39 | 57 | 43 | 48 | 39 | 34 | 34 | 45 | 65 | 54 | 542 | -10.7% | |
| **2012** | 57 | 50 | 45 | 43 | 52 | 35 | 42 | 45 | 39 | 52 | 49 | 58 | 567 | 4.6% | |
| **2013** | 50 | 51 | 52 | 41 | 47 | 40 | 32 | 35 | 51 | 54 | 64 | 51 | 568 | 0.2% | 568 |
| **2014** | 47 | 45 | 33 | 43 | 35 | 29 | 36 | 32 | 38 | 29 | 53 | 43 | 463 | -18.5% | |
| **Projection** | 48 | 45 | 46 | 49 | 54 | 45 | 43 | 38 | 45 | 51 | 55 | 53 | 571 | | |

## Theft (includes vehicle burglary)

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total | % +/- | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2010** | 114 | 124 | 107 | 110 | 110 | 88 | 100 | 80 | 77 | 74 | 95 | 115 | 1,194 | | |
| **2011** | 104 | 85 | 101 | 77 | 107 | 88 | 77 | 82 | 93 | 109 | 108 | 106 | 1,137 | -5% | |
| **2012** | 117 | 89 | 83 | 95 | 94 | 77 | 75 | 83 | 76 | 105 | 86 | 100 | 1,080 | -5.0% | |
| **2013** | 114 | 87 | 81 | 58 | 78 | 95 | 87 | 101 | 81 | 90 | 96 | 72 | 1,040 | -3.7% | 1040 |
| **2014** | 104 | 93 | 97 | 92 | 88 | 92 | 81 | 97 | 94 | 102 | 99 | 129 | 1,168 | 12.3% | |
| **Projection** | 112 | 96 | 93 | 85 | 97 | 87 | 85 | 87 | 82 | 95 | 96 | 98 | 1113 | | |

## Auto Theft

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total | % +/- | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2010** | 77 | 72 | 75 | 95 | 56 | 47 | 74 | 59 | 46 | 65 | 39 | 92 | 797 | | |
| **2011** | 79 | 60 | 62 | 48 | 40 | 43 | 45 | 47 | 32 | 55 | 52 | 43 | 606 | -24.0% | |
| **2012** | 68 | 33 | 51 | 70 | 50 | 36 | 34 | 42 | 50 | 54 | 36 | 56 | 580 | -4.3% | |
| **2013** | 60 | 49 | 37 | 28 | 20 | 57 | 46 | 39 | 38 | 50 | 83 | 69 | 576 | -0.7% | 576 |
| **2014** | 61 | 41 | 50 | 27 | 43 | 44 | 51 | 44 | 43 | 46 | 75 | 58 | 583 | 1.2% | |
| **Projection** | 71 | 54 | 56 | 60 | 42 | 46 | 50 | 47 | 42 | 56 | 53 | 65 | 640 | | |

## Arson

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total | % +/- | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2010** | | | 2 | 2 | 2 | 2 | 1 | 1 | | | | | 10 | | |
| **2011** | | 2 | | | | 2 | 1 | | | 1 | | | 6 | -40.0% | |
| **2012** | | 2 | | 1 | 2 | 1 | 1 | 1 | 2 | 2 | 1 | 2 | 15 | 150.0% | |
| **2013** | 1 | | | 1 | 1 | 1 | 1 | | 4 | 1 | 1 | | 11 | -26.7% | 11 |
| **2014** | 1 | | | | | | 1 | | | 1 | 2 | | 5 | -54.5% | |
| **Projection** | 0 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 11 | | |

## Adult Arrests

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total | % +/- | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2010** | 209 | 223 | 259 | 231 | 241 | 211 | 264 | 236 | 198 | 218 | 205 | 217 | 2,712 | | |
| **2011** | 259 | 219 | 270 | 273 | 291 | 284 | 328 | 249 | 263 | 266 | 218 | 225 | 3,145 | 16.0% | |
| **2012** | 229 | 247 | 241 | 218 | 258 | 239 | 246 | 252 | 210 | 233 | 175 | 188 | 2,736 | -13.0% | |
| **2013** | 209 | 240 | 306 | 252 | 269 | 287 | 269 | 276 | 241 | 231 | 277 | 268 | 3,125 | 14.2% | 3125 |
| **2014** | 255 | 219 | 220 | 269 | 320 | 276 | 274 | 274 | 247 | 279 | 257 | 229 | 3,119 | -0.2% | |
| **Projection** | 227 | 232 | 269 | 244 | 265 | 255 | 277 | 253 | 228 | 237 | 219 | 225 | 2930 | | |

## Juvenile Arrests

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total | % +/- | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2010** | 32 | 30 | 51 | 39 | 37 | 22 | 33 | 28 | 39 | 54 | 26 | 42 | 433 | | |
| **2011** | 48 | 32 | 51 | 54 | 47 | 28 | 23 | 53 | 40 | 45 | 42 | 24 | 487 | 12% | |
| **2012** | 49 | 37 | 41 | 30 | 32 | 35 | 22 | 44 | 15 | 14 | 25 | 18 | 362 | -25.7% | |
| **2013** | 27 | 33 | 47 | 36 | 54 | 32 | 12 | 31 | 26 | 24 | 31 | 5 | 358 | -1.1% | 358 |
| **2014** | 22 | 15 | 18 | 22 | 11 | 32 | 21 | 30 | 13 | 20 | 17 | 21 | 242 | -32.4% | |
| **Projection** | 39 | 33 | 48 | 40 | 43 | 29 | 23 | 39 | 30 | 34 | 31 | 22 | 410 | | |

## Total Arrests

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total | % +/- | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2010** | 241 | 253 | 310 | 270 | 278 | 233 | 297 | 264 | 237 | 272 | 231 | 259 | 3,145 | | |
| **2011** | 307 | 251 | 321 | 327 | 338 | 312 | 351 | 302 | 303 | 311 | 260 | 249 | 3,632 | 15% | |
| **2012** | 278 | 284 | 282 | 248 | 290 | 274 | 268 | 296 | 225 | 247 | 200 | 206 | 3,098 | -14.7% | |
| **2013** | 236 | 273 | 353 | 288 | 323 | 319 | 281 | 307 | 267 | 255 | 308 | 273 | 3,483 | 12.4% | 3483 |
| **2014** | 277 | 234 | 238 | 291 | 331 | 308 | 295 | 304 | 260 | 299 | 274 | 250 | 3,361 | -3.5% | |
| **Projection** | 266 | 265 | 317 | 283 | 307 | 285 | 299 | 292 | 258 | 271 | 250 | 247 | 3340 | | |

## Cases Cleared by Arrest or Exception

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total | % +/- | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2010** | 49 | 77 | 96 | 104 | 72 | 80 | 53 | 83 | 65 | 54 | 40 | 87 | 860 | | |
| **2011** | 64 | 61 | 61 | 64 | 76 | 81 | 63 | 90 | 61 | 50 | 77 | 43 | 791 | -8.0% | |
| **2012** | 73 | 63 | 71 | 92 | 106 | 66 | 76 | 77 | 54 | 87 | 49 | 57 | 871 | 10.1% | |
| **2013** | 53 | 44 | 49 | 68 | 48 | 54 | 59 | 65 | 66 | 77 | 35 | 47 | 665 | -23.7% | 665 |
| **2014** | 45 | 74 | 77 | 75 | 69 | 49 | 69 | 51 | 62 | 45 | 51 | 50 | 717 | 7.8% | |
| **Projection** | 60 | 61 | 69 | 82 | 76 | 70 | 63 | 79 | 62 | 67 | 50 | 59 | 797 | | |

## Clearances Involving Persons Under 18 Years of Age

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total | % +/- | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2010** | 3 | 8 | 9 | 11 | 7 | 5 | 2 | 3 | 3 | 2 | 1 | 10 | 64 | | |
| **2011** | 6 | 9 | 6 | 6 | 4 | 1 | | 1 | 4 | | 3 | 4 | 44 | -31.3% | |
| **2012** | 7 | 5 | 5 | 14 | 6 | 8 | 3 | 9 | 4 | 6 | 5 | 4 | 76 | 72.7% | |
| **2013** | 2 | 3 | 3 | 5 | 3 | 4 | 5 | 7 | 6 | 4 | 2 | 1 | 45 | -40.8% | 45 |
| **2014** | 3 | 2 | 5 | 6 | 4 | | 1 | 2 | 2 | 3 | 1 | 2 | 31 | -31.1% | |
| **Projection** | 5 | 6 | 6 | 9 | 5 | 5 | 3 | 5 | 4 | 3 | 3 | 5 | 57 | | |

**Crime Statistics:**

Taken from the UCR run the day of this report.

**Arrest Statistics:**

Run using option DARINQ.  Adults and juveniles are run seperately.

**Clearances:**

Taken from the UCR run the day of this report. (Includes simple assault)

**Projection:**

Each month is projected based on the average for the same month over the previous 4 yrs.

**Modified Projection:**

The modified pojection includes the actual numbers for those that are known and the projected for the months ahead.

**Percent +/-:**

The percentage of change is the sum of the current year minus the previous year, divided by the previous year and multiplied by 100.

**Part 1 Crimes:**

Includes; Homicide, Rape, Robbery, Assault, Burglary, Theft, Auto Theft and Arson.  (Arson is not included in this report).

**Violent Crimes**

Homicide, Rape,  Assault.

**Non Violent Crimes:**

Robbery, Burglary, Theft, Auto Theft  (Note: UCR counts vehicle burglary as a theft and is reflected the same in this report.)

**Year to Date Percent Change:**

The year to date percentage of change is the sum of the current year minus the sum of the same number of months of the previous year, divided by the sum of those months and multiplied by 100.