Appendix G
Air Quality

Final
Air Toxic Health Risk Assessment in Support of CEQA Documentation

Newport Banning Ranch

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Section 1
Introduction

The Newport Banning Ranch property (Site) is located east of the mouth of the Santa Ana River near the Huntington Beach – Newport Beach city boundary in Orange County, California. The Site is currently operated as a crude oil and gas production facility. Oil and gas production operations on most of the Site are being managed by Horizontal Drilling, LLC and their operating affiliate, West Newport Oil Company (WNOC). WNOC has approximately 85 active/idle wells spread across most of the approximately 400 acre property. In addition, the City of Newport Beach (City) operates 12 oil wells and one water injection well as well as an oil processing facility located at the West Coast Highway entrance area.

The proposed Project is the development of up to 1,375 residential dwelling units, 75,000 square feet of commercial uses, and a 75-room visitor serving resort/hotel with associated accommodations. To make room for these homes and facilities, the current oilfield operations will be consolidated onto approximately 20 acres in two general locations with a road running between these two locations.

This Human Health Risk Assessment (HHRA) addresses potential health impacts for people exposed to toxic air contaminants (TACs) anticipated to be released during operation of the consolidated oilfield as well as from the new sources associated with the proposed residential and commercial area operations. Incremental TAC emission inventories, dispersion modeling, and health risk assessments will be determined for two cases:

1. Incremental operational impacts of the project after final build-out on the surrounding community. This analysis will include traffic emissions of TACs from motor vehicles operated by the residents living in the project's residential development and the workers/visitors to the commercial and resort areas, and TAC emissions of natural gas water heaters, landscaping equipment, hearths, consumer products, and architectural coating for the homes and other buildings in the Project area. This analysis will also include the potential incremental impact of consolidating the oil field operations.

2. Operational impacts of the consolidated oil field on the Site's Project area. Although the oilfield operations are ongoing and part of the existing conditions or baseline, the proposed project will place new residences and commercial buildings in areas where no such receptors currently exist. The Project area tends to be downwind of the consolidated oil field areas based on prevailing wind direction. Thus, the proposed project could result in oilfield operational impacts to those residences/buildings that are part of the project.

Section 2
Toxic Air Contaminant (TAC) Human Health Risk Assessment (HHRA) Modeling Protocol

This protocol describes the methods and analyses used to conduct a human health risk assessment (HHRA) associated with potential exposure to toxic air contaminants (TACs) emitted from ongoing and future oilfield operations at the Newport Banning Ranch site, as well as from the proposed residential/commercial development as described in Section 1.3 below. The purpose of the HHRA will be to estimate potential incremental long-term (cancer and chronic non-cancer) and acute risks from operating emissions. The basic steps that will be followed to complete the HHRA include:

1. Estimate TAC emissions from: (a) on-going (baseline) oilfield operations on the project site, (b) future oilfield operations after consolidation of the operations, and (c) future operations of the proposed residential and commercial development on the project site.

2. Compare annual TAC emissions to SCAQMD Risk Assessment Procedures Tier 1 thresholds.

3. If TAC emissions exceed Tier 1 thresholds in Step 2, conduct refined air dispersion modeling to determine TAC exposure concentrations at worker and residential receptors.

4. Apply TAC toxicity values and human inhalation parameters using the HARP model to calculate risks.

5. Identify uncertainties in the analysis.

The HHRA will be used to determine the potential health risks that future oilfield operations will have on the proposed residential and commercial development on the Site, and to determine the potential incremental risks that operations of the proposed residential and commercial development along with operations of the consolidated oil field will have on existing residents and workers that live and work near the project site.

2.1 TAC Emission Estimation Methodology

TAC inventories will be developed for the on-going (baseline) oilfield operations on the project site, the future consolidated oilfield operations, and the residential, commercial, and recreational development. Various sources and methods will be used to estimate baseline and future TAC emissions. Often, TAC emissions are determined from source respirable particulate matter (PM_{10}) and volatile organic compound (VOC) emissions and source-specific speciation profiles developed by the California

Air Resources Board (CARB). The speciation profiles that will be used on this project are listed in **Table 2-1**.

Table 2-1
TAC Emission Source and CARB Speciation Profile

Emission Source	PM_{10} Profile	VOC Profile
Natural Gas	121- Residential-Natural Gas	3 – External combustion boiler – natural gas
Landscape	399 – Gasoline Vehicles-No Catalyst	401 – Gasoline – non-cat – stabilized exhaust – ABR IUS summer 1996
Hearth	121- Residential-Natural Gas	3 – External combustion boiler – natural gas
Consumer Products	NA	814 – EPA Composite Consumer Products 9/29/95
Architectural Coatings	NA	717 – Architectural surface coating – water based paint
Diesel Exhaust	425 – Diesel Vehicle Exhaust	818 – Farm equipment – diesel – light & heavy
Gasoline Exhaust	399 – Gasoline Vehicles-No Catalyst 400 – Gasoline Vehicles-Catalyst	401 – Gasoline – non-cat – stabilized exhaust – ABR IUS summer 1996 441 – Gasoline – catalyst – stabilized exhaust – ARB Summer 2003
Paved Road Dust	471 – Paved Road Dust, 1997 and after	NA

Source: California Air Resources Board 2009a.

The list of TACs of concern used in this HHRA was selected based on the TACs identified under California Assembly Bill 2588 (AB 2588) of 1987 for which the CalEPA, Office of Environmental Health Hazard Assessment (OEHHA) has developed cancer slope factors, chronic reference levels, or acute reference levels.

2.1.1 Baseline Oilfield Operations on the Project Site

Operations of the City of Newport Beach (City) oil field include well workovers and maintenance activities, as well as oil/water separation and crude oil storage and loading. Operations of the West Newport Oil Company (WNOC) oil field include well maintenance, well workovers, well drilling, and general oilfield activities (such as oil/water separation and crude oil storage and loading). WNOC has approximately 85 active wells available for oil operations with approximately 58 operating at any one time. The City operates approximately 12 oil wells on the Site, as well as one water injection well and an oil processing facility located at the West Coast Highway entrance area. In addition, baseline oilfield operations include mowing of approximately 120 acres twice per year for vegetation control and fire suppression. Mowing is assumed to be unnecessary in the consolidated oilfield scenario.

2.1.1.1 Stationary Source Methodology

The air toxics emissions from existing permitted stationary equipment on the City and WNOC sites will be obtained from SCAQMD Annual Emissions Reports (AERs), the most recently available being from 2008. The AERs typically include annual emissions of TACs for the listed equipment. Therefore, baseline operating TAC emissions will be obtained directly from the AERs for the City and WNOC sites.

2.1.1.2 Mobile Source Methodology

Emissions from mobile equipment used in regular well drilling & maintenance activities are not included in the AERs. Estimates will be made for ongoing oilfield operations maintenance and other related activities for the 13 City wells and the 58 WNOC wells. These estimates will include emissions from well maintenance equipment used for well drilling, well abandonment, well workovers, site mowing, and other general maintenance activities. The equipment and operating characteristics for each well maintenance activity will be obtained through discussions with City and WNOC staff familiar with oilfield operations.

Off-road equipment used for well maintenance includes drill rigs, hydralifts, backhoes, and forklifts - equipment is not typically licensed for travel on public roadways. Daily emissions for off-road equipment are calculated by multiplying an emission factor by the horsepower, load factor, and daily operational hours for each type of equipment. Annual off-road emissions are derived from the daily emissions estimates, the duration of each operational activity, and days of operation for each piece of equipment per activity.

Unless otherwise provided by the City or WNOC, off-road equipment horsepower ratings are assumed to be equivalent to the most common horsepower rating in the fleet in CARB's off-road database for the equipment types used on the Site. Off-road exhaust emission factors for VOC and PM_{10} are developed using the CARB OFFROAD2007 Model. Off-road load factors are from SCAQMD's CEQA Air Quality Handbook, SCAQMD, Table A9-8-D. It is assumed that all equipment operates eight hours per day with the exception of the drill rigs which operate 24 hours per day.

On-road on-site equipment PM_{10} and VOC emissions generated from crew and material haul truck trips, cement trucks, and vacuum trucks are calculated using emission factors from the CARB emission factor model EMFAC2007, Version 2.3. The SCAQMD compiled EMFAC2007 factors are used and the most conservative fleet mix of summer versus winter is used.

On-road on-site equipment types will be substituted with vehicle types corresponding to CARB vehicle classes. Emission factors for gasoline-powered vehicles are derived from EMFAC2007 Burden Model peak emissions (winter, annual, summer), taking the weighted average of vehicle types and simplifying into two categories: passenger vehicles and delivery trucks. Emissions factors for heavy duty diesel vehicles are

based on the Heavy-Heavy-Duty Diesel Truck (HHDT) emission factors from EMFAC2007 Burden Model.

EMFAC2007 emission factors, expressed in pounds per mile, are used to calculate emissions in pounds per day. The EMFAC factors account for start-up, running, and idling. In addition, the VOC emission factors include diurnal, hot soak, running, and resting emissions, and the PM_{10} factors include tire and brake wear.

On-road off-site equipment consists mainly of worker vehicle trips. The PM_{10} and VOC emissions will be calculated using the same methodology assumed for on-road on-site vehicles. In general, the EMFAC2007 emissions factors are multiplied by the total VMT for each vehicle type to obtain emissions in pounds per day. Annual emissions are then calculated using the proposed annual days per activity listed in Table 1-2.

Additional sources of PM_{10} emissions associated with construction activities are related to fugitive dust from both off- and on-road vehicle travel. All calculations of on-road vehicle emissions include an estimate of fugitive dust from paved or un-paved on-road travel. It is assumed that all roads on the oilfield are unpaved and all off-site travel takes place on paved roads. Fugitive dust emissions (PM_{10}) are calculated using the URBEMIS model, USEPA's AP-42, and SCAQMD's CEQA Air Quality Handbook. Daily fugitive dust emissions are calculated for each piece of construction equipment or construction activity, from which annual and peak hourly fugitive dust emissions are determined.

Fugitive dust emissions for vehicles traveling on paved roads are calculated using the paved road dust factor for high average daily trip (ADT) roads under average conditions developed by Midwest Research Institute (MRI 1996). All automobiles are assumed to travel on paved roads. On-road on-site equipment is assumed to travel on un-paved roads, and emission factors are calculated for unpaved road dust using USEPA's AP-42, Chapter 13.

2.1.2 Future Consolidated Oilfield Operations

It is anticipated that the oilfield consolidation will be completed before the proposed residential and commercial development is started. Therefore, the analysis of future operational emissions will include both the consolidated oilfield and the residential, commercial, and recreational development.

2.1.2.1 Stationary Source Methodology

The air toxics emissions from the existing City and WNOC stationary sources obtained from SCAQMD 2008 AERs will be used as a reasonable estimate of future emissions from the permitted oilfield stationary equipment in the consolidated oilfield. After consolidation, it is expected that oilfield production activity in the future would be no greater than the activity in 2008. Therefore, emissions from stationary equipment would be equal to or less than the 2008 inventories.

2.1.2.2 Mobile Source Methodology

The level of activity associated with on-road and off-road mobile equipment that perform oilfield maintenance such as well drilling, abandonments, and workovers will remain the same for the City and WNOC oilfields after the consolidation. The activities would, however, be limited geographically to the consolidated oil field sites. The level of emissions from on-road vehicles traveling on the site will decrease due to the decrease in travel distances in the consolidated scenario. These vehicles would not travel over the entire site, but would be limited to traveling to and from the two consolidated locations.

2.1.3 Future Proposed Residential, Commercial, and Recreational Operations

The inventory of the operational emissions of the planned Newport Banning Ranch development includes five major land use characteristics.[1] These are open space, parks and recreation areas, a visitor-serving resort and other complementary commercial uses, low, medium low and medium density residential areas, a mixed-use residential district; and roadways to serve these areas. The proposed project includes up to 1,375 residential units, 75,000 square feet of commercial uses, and 75 visitor serving resort accommodations. Of the existing approximately 401 acre site, 65 acres would be developed for residential dwelling units, 21 acres would be developed for mixed-use residential,11 acres would be developed for a visitor-serving resort/residential uses, 52 acres would be developed for parks and recreation uses, and 252 acres would be reserved for open space use.

The acreage set aside for open space would be divided into lowland open space/public trails and facilities, upland open space/public trails and facilities, and consolidated oil facilities. Approximately 20 acres are designated oil fields for use as an oil production facilities consolidation area. All other wells within proposed development or other open space would be abandoned and remediated. There would be two remaining oil sites connected by a 0.5 mile access road. One site is located in the southwestern corner of the property and the other is located in the central portion of the site contiguous to the lowland open space.

Emissions from operation of the residential, commercial, and other proposed project development after completion will be calculated using the Urban Emissions model (URBEMIS [version 9.2.4]). Source generating operational emissions associated with the residential and commercial units include motor vehicles, appliances (such as gas water heaters, home furnaces, etc), emissions from architectural coating, consumer products, and miscellaneous outdoor equipment, fireplaces, etc. Toxic emissions will be determined from PM_{10} and VOC emissions from gasoline and diesel motor vehicle traffic, natural gas combustion, and home furnaces, as well as VOC emissions from consumer products and architectural coating activities. The first year of expected

[1] *Newport Banning Ranch Planned Community Development Plan*. December 2008.

proposed project operations will be 2013 with the consolidation of oil facilities and commencement of site remediation activities.

2.2 Compare TAC Emissions to SCAQMD Tier 1 Risk Assessment Thresholds

An emission screening level HHRA will be performed using the hourly (lbs/hr) and annual (lbs/yr) TAC emissions inventories from the Proposed Project residential and commercial operations as well as the City and WNOC consolidated oil operations described in Section 2.1. The Tier 1 HHRA will follow SCAQMD air toxics risk assessment procedures for Rules 1401 and 212[2]. The analysis will be based on the assumption that the nearest existing residential receptors are no closer than 100 meters from the Proposed Project operations. If the Tier 1 analysis indicates that TAC emissions exceed the Tier 1 thresholds, then operational risks will be modeled using EPA's AERMOD dispersion model and CARB's Hotspots Analysis Reporting Program (HARP).

2.3 Air Dispersion Modeling Methodology

Dispersion modeling will be conducted using AERMOD air dispersion modeling software for the baseline, consolidated oilfield, and residential and commercial operational emissions. The dispersion analysis will be used to determine the exposure concentrations of emitted pollutants at receptors located along the Site fenceline and at selected locations in the Proposed Project residential, mixed use, and recreational areas. The results will be used in the HARP model to determine the health risks associated with the resulting distributed pollutant concentrations.

The following three scenarios will be modeled in AERMOD:

- Baseline Conditions: The existing TAC emissions from the WNOC and City oilfields will be modeled in AERMOD to determine the baseline TAC concentrations at the existing fenceline receptors. The baseline sources will include those on-site sources described in Section 2.1.1, above. The fenceline receptors will be used to conservatively represent the existing nearby residential and worker receptors.

- Proposed Project Conditions: The future TAC emissions from the Proposed Project residential and commercial site operations as well as consolidated WNOC and City oilfields will be modeled in AERMOD to determine the future TAC concentrations at the existing fenceline receptors. The future Proposed Project sources will include those on-site sources described in Sections 2.1.2 and 2.1.3, above. The fenceline receptors will be used to conservatively represent the existing nearby residential and worker receptors.

[2] South Coast Air Quality Management District, Risk Assessment Procedures for Rules 1401 and 212, Version 7, July 2005.

- Future Oilfield Impact on Development Area: The consolidated oilfield operational emissions will be modeled in AERMOD to determine the exposure concentration from these sources on the Proposed Project residential, commercial, and recreational areas. The consolidated oil field sources will include those on-site sources described in Section 2.1.2, above.

All sources included in the AERMOD analysis will be modeled as area sources types. Since the AERMOD results will be used as input to the HARP risk assessment model, each source must be modeled with a 1 gram per second (g/s) total emission rate. The AERMOD model requires that emissions for area sources be input as a flux in units of grams per second per square meter of source area (g/s/m2). Therefore, to input a flux that is equivalent to 1 g/s mass emission rate, the reciprocal of the source surface area (in square meters) multiplied by 1 g/s is used as the flux.

Area sources used to represent stationary oilfield source, vehicle exhaust, and residential/commercial operational emissions will be modeled at five meters above ground, following the SCAQMD Local Significant Threshold methodology.[3] Following the same guidance, areas sources used to represent fugitive dust emissions will be modeled at ground level. All models will be run for a 1-hour and period averages to generate results compatible with the requirements of HARP and the HHRA.

Meteorological data will be obtained for the most representative nearby monitoring station, and upper air data will be obtained for the same time period from San Diego. Due to the proximity of the Site to the Pacific Ocean and Orange County John Wayne Airport (SNA), the airport data was selected as the nearby meteorological station with the most representative data.

All scenarios will be modeled with elevated terrain, and site terrain elevation data will be obtained from the United States Geological Survey (USGS) digital elevation model (DEM) files. Terrain elevations will be applied to all sources and receptors included in the AERMOD analyses.

Finally, it is anticipated that diesel particulate matter (DPM) will produce the majority of the risk from Proposed Project sources. Impacts to health risk from DPM are entirely through the inhalation pathway. Therefore, all receptors will be modeled as flagpole receptors with a height of 1.8 meters to obtain TAC concentrations in the approximate breathing zone, following the general guidance provided by OEHHA (2003).

2.4 TAC HARP Modeling Methodology

The emissions of toxic air pollutants that are anticipated to contribute significantly to cancer/chronic or acute risk, as estimated from the screening analysis described in Section 2.2 will be included in the HARP risk assessment calculations. As required by

[3] SCAQMD, 2003.

the HARP protocol, the chronic air toxic modeling for fenceline, residential, and commercial receptors is conducted for a 70 year period assuming that a person is located at each receptor grid 24-hours per day, 365 days per year for 70 years. The chronic modeling for receptors in the recreational areas assumes that the maximum exposure time would be 8 hours per day, 245 days per year. The acute air toxic modeling is conducted for the peak one-hour exposure. In addition to the inhalation pathway, four other exposure pathways were chosen in the analysis as recommended by OEHHA and SCAQMD guidelines. The non-inhalation pathways will include ingestion of home grown produce, dermal contact, soil ingestion and ingestion of mother's milk.

The analysis of the project impact on existing, offsite receptors (homes, businesses and schools) will be conducted by subtracting the baseline risk from the risks determined after project completion from the Proposed Project consolidated oilfield, residential, and commercial areas. Incremental chronic cancer risks and non-cancer hazards reflect the increase or decrease of potential exposures under the future conditions relative to the existing baseline. The potential effects of nearby projects that are reasonably foreseeable and expected to occur during the same time period as that analyzed for this development project will be discussed qualitatively. It is assumed that sufficient documentation exists for these other projects to identify their potential impacts to air quality and health risks without additional emissions or dispersion modeling analyses.

The determination of significance will be made using the SCAQMD TAC Thresholds for maximum incremental cancer risk and project incremental hazard index (HI) shown in **Table 2-2**. The incremental cancer risk is reported as the increase in cancer cases per million people exposed to the incremental TAC concentration. The maximum HI is determined using a two-step calculation. First, each incremental TAC concentration at each receptor is determined by multiplying the hourly emissions of each TAC by the dispersion factor (X/Q) and dividing by the TAC reference exposure level (REL) set by the State. The resulting ratio for each TAC is called the hazard quotient (HQ). Second, the HQs for all TACs are summed at each receptor, producing the HI at each receptor. HI's are calculated for chronic non-cancer risk (HI_C) and acute risk (HI_A). The peak HI's are reported for comparison to the significance thresholds. These risk calculations are generated using HARP and the TAC emission rates for each scenario. Finally, the HI values are reported by body organs or systems affected (e.g., cardiovascular, central nervous system, respiratory system, kidneys, etc.). The organs or systems with the greatest impact will be noted.

Table 2-2
SCAQMD TAC Thresholds

	Maximum Incremental Cancer Risk	Cancer Burden	Hazard Index (Chronic & Acute)
SCAQMD Significance Thresholds	≥ 10 in a million	> 0.5 excess cancer cases in areas ≥ 1 in a million risk	≥ 1.0 (project increment)

Source: SCAQMD 1993 and 2009.

2.5 Identify Uncertainties in the Analysis

A number of uncertainties are inherent in estimates of potential carcinogenic risk and non-carcinogenic hazard indices presented in a risk assessment. These uncertainties are generally associated with assumptions, models, and extrapolations that comprise the risk assessment process. Uncertainties in the baseline and proposed project HHRA will be evaluated qualitatively and described. Examples could include uncertainties in assumptions made about current and future site parameters, oilfield equipment, the influence of other sources of toxic air pollutants in the greater Newport Beach and Orange County area air dispersion modeling in general and exposure assumptions for other parameters. The intent of the qualitative uncertainty analyses will be to establish a level of confidence in the results of the HHRA analysis.

The focus of the uncertainty discussion will be on diesel exhaust particulates in particular as well as formaldehyde and benzene. These toxic air contaminants are likely to be the most important contributors to potential human health risks. In particular, diesel exhaust particulates may account for essentially all non-cancer health threats estimated in the analyses. As an example of the uncertainty inherent in the diesel exhaust particulate inventory, emissions estimates for on-road and off-road equipment are based on state-wide inventories of current vehicles and vehicle emissions.

Section 3
Toxic Air Contaminant Emission Inventories

Emission inventories of PM_{10} and VOC were developed following the methodology described in Section 2.1 for the baseline WNOC and City oilfields, the future consolidated oilfield, and the planned residential, commercial, and recreational development. These inventories are summarized in **Table 3-1**.

Table 3-1
Total PM_{10} and VOC Emissions for Each Scenario

	VOC		PM_{10}	
Scenario	**lbs/hr**	**lbs/yr**	**lbs/hr**	**lbs/yr**
2008 Baseline (Total)	5.8	8,134	10.3	2,623
Future Consolidated Oilfield	5.2	7,850	2.2	590
Future Development	18.0	52,640	21.0	61,120
Proposed Project Operations (Total)	23.1	60,490	23.2	61,710

Source: CDM 2009.

Note: Numbers may not add to exact totals due to rounding

Detailed emission inventories including emissions factors for on-road and off-road vehicles, oilfield maintenance equipment details, the WNOC and City AERs, speciated criteria pollutant inventories, and URBEMIS results for the residential, commercial, and recreational development area may be found in Attachment A. The hourly and annual TAC emissions for each of the scenarios considered are presented in **Tables 3-2 and 3-3**, respectively. The remainder of this section provides clarification of the approach used for developing the TAC emission inventories for each scenario.

Table 3-2
Peak Hourly Operational TAC Emission Rates for Project Scenarios

Toxic Air Contaminant	Baseline lbs/hr	Consolidated Oilfield lbs/hr	Combined Oilfield and Development lbs/hr	Incremental Project over Baseline lbs/hr
1,1,1-trichloroethane	-	-	0.927601	0.927601
1,3-butadiene	0.002453	0.001256	0.027273	0.024819
2-ethoxyethanol {cellosolve} {egee}	-	-	0.010581	0.010581
2-ethoxyethyl acetate {cellosolve acetate}	-	-	0.012345	0.012345
acetaldehyde	0.094807	0.048504	0.068443	(0.026365)
acrolein (2-propenal)	0.000001	0.000001	0.006107	0.006106
ammonia	0.146466	0.146466	0.146466	-
arsenic	0.000147	0.000030	0.000040	(0.000108)
benzene	0.050258	0.037651	0.178799	0.128541
bromine	0.000183	0.000038	0.000038	(0.000145)
cadmium	0.000146	0.000032	0.000034	(0.000112)
chlorine	0.008332	0.001693	0.008466	0.000133
chlorobenzene	-	-	0.007054	0.007054
chloropicrin	-	-	0.028216	0.028216
chromium VI	0.000024	0.000005	0.000013	(0.000011)
copper	0.001539	0.000309	0.000468	(0.001071)
dichloromethane {methylene chloride}	-	-	0.089954	0.089954
ethyl chloride	-	-	0.005772	0.005772
ethylbenzene	0.003940	0.002016	0.062020	0.058080
ethylene glycol	-	-	0.308132	0.308132
ethylene oxide	-	-	0.038797	0.038797
formaldehyde	0.192551	0.099891	0.237282	0.044731
isomers of xylene	0.013455	0.006887	0.428363	0.414908
isopropyl alcohol	-	-	0.514942	0.514942
lead	0.001277	0.000258	0.000353	(0.000924)
manganese	0.008856	0.001774	0.002431	(0.006426)
mercury	0.000151	0.000032	0.000039	(0.000112)
methyl ethyl ketone (mek) (2-butanone)	0.019044	0.009743	0.248182	0.229138
methyl t-butyl ether (mtbe)	0.000013	-	0.080083	0.080070
m-xylene	0.007902	0.004045	0.224748	0.216845
n-hexane	0.002035	0.001042	0.215951	0.213916
nickel	0.000367	0.000075	0.000129	(0.000238)
o-cresol (2-methyl-benzenol)	-	-	0.005291	0.005291
o-xylene	0.004328	0.002215	0.104041	0.099713
PAHs, total, with components not reported	0.000011	0.000011	0.000011	-
p-dichlorobenzene	-	-	0.319193	0,319193
perchloroethylene	-	-	0.093466	0.093466
phenol (carbolic acid)	-	-	0.001764	0.001764
propylene	0.033505	0.017144	0.167940	0.134434
propylene glycol methyl ether {1-methoxy-2-propanol}	-	-	0.029980	0.029980
p-xylene	0.001225	0.000627	0.353385	0.352160
selenium	0.000034	0.000008	0.000009	(0.000025)
sulfates	0.063973	0.013986	0.013986	(0.049987)
styrene	0.000749	0.000383	0.007479	0.006730
toluene	0.019032	0.009741	0.895532	0.876500
vanadium	0.000759	0.000154	0.000208	(0.000551)

Source: CDM 2009.

Table 3-3
Peak Annual Operational TAC Emission Rates for Project Scenarios

Toxic Air Contaminant	Baseline	Consolidated Oilfield	Combined Oilfield and Development	Incremental Project over Baseline
	lbs/yr	lbs/yr	lbs/yr	lbs/yr
1,1,1-trichloroethane	-	-	1,353.9235	1,353.9235
1,3-butadiene	0.5633	0.3463	62.1385	61.5752
2-ethoxyethanol {cellosolve} {egee}	-	-	15.4440	15.4440
2-ethoxyethyl acetate {cellosolve acetate}	-	-	18.0180	18.0180
acetaldehyde	0.2468	0.1518	33.5081	33.2613
acrolein (2-propenal)	0.1383	0.0850	14.8664	14.7282
ammonia	427.6800	427.6800	427.6800	-
arsenic	0.0346	0.0064	0.0353	0.0007
benzene	74.0657	73.0259	384.6753	310.6096
bromine	0.0456	0.0121	0.0121	(0.0335)
cadmium	0.0300	0.0055	0.0122	(0.0178)
chlorine	2.5121	0.9754	21.4133	18.9011
chlorobenzene	-	-	10.2960	10.2960
chloropicrin	-	-	41.1840	41.1840
chromium VI	0.0062	0.0017	0.0267	0.0205
copper	0.3685	0.0718	0.5379	0.1694
dichloromethane {methylene chloride}	-	-	131.8380	131.8380
diesel particulate matter	232.7182	84.5562	89.4899	(143.2283)
ethyl chloride	-	-	8.4840	8.4840
ethylbenzene	1.0979	0.6750	134.6434	133.5455
ethylene glycol	-	-	449.7975	449.7975
ethylene oxide	-	-	56.6280	56.6280
formaldehyde	9.9900	9.3199	256.9630	246.9729
isomers of xylene	5.0235	3.0887	618.2742	613.2507
isopropyl alcohol	-	-	751.6075	751.6075
lead	0.2999	0.0555	0.3308	0.0309
manganese	2.1149	0.3950	2.3086	0.1936
mercury	0.0323	0.0060	0.0260	(0.0063)
methyl ethyl ketone (mek) (2-butanone)	0.0195	-	347.5594	347.5399
methyl t-butyl ether (mtbe)	1.9879	1.2223	201.9115	199.9236
m-xylene	3.7279	2.2921	481.8024	478.0745
n-hexane	1.6223	0.9975	382.7590	381.1367
nickel	0.0894	0.0202	0.1844	0.0950
o-cresol (2-methyl-benzenol)	-	-	7.7220	7.7220
o-xylene	1.2956	0.7966	204.0061	202.7106
pahs, total, with components not reported	0.0310	0.0310	0.0310	-
p-dichlorobenzene	-	-	465.8937	465.8937
perchloroethylene	-	-	136.4220	136.4220
phenol (carbolic acid)	-	-	2.5740	2.5740
propylene	3.2036	1.9697	356.3175	353.1140
propylene glycol methyl ether	-	-	43.7580	43.7580
p-xylene	-	-	514.8000	514.8000
selenium	0.0069	0.0013	0.0057	(0.0012)
sulfates	16.7476	6.3810	6.3810	(10.3666)
styrene	0.1290	0.0793	15.8316	15.7025
toluene	6.0220	3.7027	1,546.4945	1,540.4725
vanadium	0.1776	0.0329	0.1905	0.0129

Source: CDM 2009.

3.1 Baseline WNOC and City Oilfield Emissions

The baseline WNOC and City oilfield emissions inventory was developed according to the methodology described in Section 2.1.1. The results of the unspeciated inventory for VOC and PM_{10} emissions are shown above in Table 2.1.

It was assumed in this inventory that operational emissions occur 8 hours per day, with the exception of oil rigs that operate 24 hours per day. All on-road vehicles, mainly vacuum trucks, cement trucks, and crew trucks/vans were assumed to travel a maximum of five (5) miles per on-site trip on unpaved roads. The perimeter of the site is roughly four (4) miles, thus 5 miles was estimated as a conservative on-site travel distance. Equipment details for the WNOC maintenance equipment were obtained from the WNOC in-use off-road diesel vehicle report to SCAQMD attached to their 2008 AER. Equipment details for the City oilfield maintenance equipment were obtained through discussions with City employees and their oilfield contractor.

Table 3-4 lists the total new wells drilled, abandoned, and worked over for the WNOC and City oilfields per year. Emissions were determined for a single maintenance activity and then multiplied by the total expected number of activities per year.

Table 3-4
Oilfield Maintenance Activities

Maintenance Activity	WNOC	City	Total Activity
New Well Drilling	3	0	3
Well Abandonments	1	0	1
Well Workovers	81	13	94
Oilfield Mowing	2x per year	NA	2x per year

Sources: Aera Energy LLC 2009; City of Newport Beach 2009a and 2009b.

Both the City and the WNOC provided lists of equipment expected to operate performing other general maintenance activities in addition to the activity listed in Table 3-4. The City and the WNOC provided equipment details and annual operating days or operating hours for these pieces of equipment. All equipment details are provided in Attachment A.

3.2 Consolidated Oilfield Emissions

The Proposed Project consolidated oilfield inventory was development following the methodology described in Section 2.1.2. The consolidated oilfield inventory is identical to the inventory described in Section 3.1 with the exception of the on-site travel distance. In the consolidated oilfield scenario, it is assumed that all on-road vehicles travel a maximum of one (1) mile per on-site trip on unpaved roads. The one

mile distance represents approximately the round trip from the Pacific Coast Highway entrance to the Site to the WNOC consolidation area and back.

3.3 Residential and Commercial Development

Emissions from the Proposed Project residential and commercial area operations including the visitor-serving resort and the recreational areas were quantified according to the methodology described in Section 2.1.3. Detailed TAC inventories including the results from the URBEMIS model may be found in Attachment A.

The emission sources included in the inventory were natural gas fuel combustion for building heat and hearth fuel (winter only), landscaping equipment fuel combustion, consumer products and architectural coating. It was assumed that the portion of the trips generated by the development that occurs on the Proposed Project site is 1 mile round trip for residential trips and 0.2 miles round trip for commercial trips. The remaining length of trips generated by residential and commercial buildings is assumed to occur off-site and was therefore not included in the HHRA. The commercial development is near the outer boundary of the project site; therefore it is expected to generate shorter onsite trip distances than the residential areas. Fugitive road dust was accounted for and it was assumed that all roads in the development area are paved. No mitigation measures were applied to area sources or to vehicle trips and associated emissions.

Section 4
Air Dispersion Modeling

Air dispersion modeling was performed using AERMOD according to the methodology described in Section 2.3 for the baseline, consolidated oilfield and development area scenarios. The AERMOD output files are included in Attachment B.

4.1 Sources and Receptors

The number and locations of sources and receptors for each scenario are described below. Since the dispersion modeling was conducted to provide inputs to the HARP risk assessment model, each source is modeled with a one gram per second (1 g/s) emissions rate for both peak hourly and annual average calculations, as required for HARP modeling. The actual emission rates for each TAC are direct inputs to the HARP model. Essentially, AERMOD is used to determine the concentration-to-emissions ratio (χ/Q) for each source-receptor pair. To produce a 1 g/s emission rate for area sources, an emission flux in grams per second per square meter ($g/s/m^2$) must be determined for each area source. This flux for each source is determined by dividing 1 g/s by that source's area (in m^2). These source-specific fluxes are used as the emission rates for each source in the AERMOD runs.

4.1.1 Baseline Model

The baseline WNOC oilfield was treated as two adjacent areas to account for the large number of wells located over the majority of the current site area. Creating the two areas in the model provides a better representation of the distinct differences in elevation between the low-lying northwest and upper eastern portions of the Site. The City oilfield was modeled as a separate area source as pictured on **Figure 4-1**. Figure 4-1 illustrates the baseline City and WNOC oilfield sources as well as the fenceline receptors at the Newport Banning Ranch property boundary.

The baseline model includes a set of 35 property boundary receptors with 52 intermediate receptors spaced 100 meters apart, for a total of 87 receptors. For a conservative determination of health risk, all receptors are modeled as residential receptors at the property boundary. It is assumed that this method will overestimate the maximum health risk.

4.1.2 Proposed Project Impact on Fenceline Receptors

The Proposed Project residential and commercial locations were modeled as five separate area sources to represent the proposed residential, mixed used, and resort districts in the *Newport Banning Ranch Conceptual Master Land Use Plan – Exhibit 5*. The residential and commercial development emissions were spread into these sources according to the ratio of each individual source area relative to the total new development area. The five area sources are shown on **Figure 4-2**.

The 87 fenceline receptors described in Section 4.1 were included in this model run to determine the change in risk at each receptor due to operations in the Proposed Project consolidated oilfield and residential/commercial areas.

4.1.3 Consolidated Oilfield Impact on Residential Receptors

The consolidated oilfield was modeled as two separate smaller area sources connected by a roadway comprising a total of approximately 20 acres containing the oilfield emissions attributable to the City and WNOC wells, maintenance equipment, and the roadway connecting these two sites which represents a source for vehicle emissions. These sources are pictured on **Figure 4-3**.

To determine the impact of the proposed consolidated oilfield on the proposed residential/commercial areas, a series of 52 receptors were placed in the Proposed Project residential, commercial, and recreational areas. The emissions sources in the consolidated oilfield were then modeled to determine the exposure concentrations at these receptor locations.

4.2 Meteorological Data

AERMOD-ready meteorological data was purchased from Trinity Consultants for 2008 from John Wayne Airport (SNA), the most representative station to the site and upper air data was be obtained for the same time period from San Diego. The 2008 SNA wind rose pictured in **Figure 4-4** was generated from the AERMOD-ready meteorological data sets purchased from Trinity Consultants. The wind rose shows that a majority of the winds come onshore from the southwest. In general, impacts to the development area and fenceline receptors can be expected to occur in the northeast area of the property, with lower impacts expected in the south.

4.3 Terrain Files

Site terrain elevation data was obtained for the site from the United States Geological Survey (USGS) digital elevation model (DEM) files. The specific DEM files that covered the Project Site were Newport Beach A and Newport Beach D.

Figure 4-1
Baseline Operational Sources

Figure 4-2
Proposed Project Operational Sources

Figure 4-3
Future Oilfield Impact on Development Area

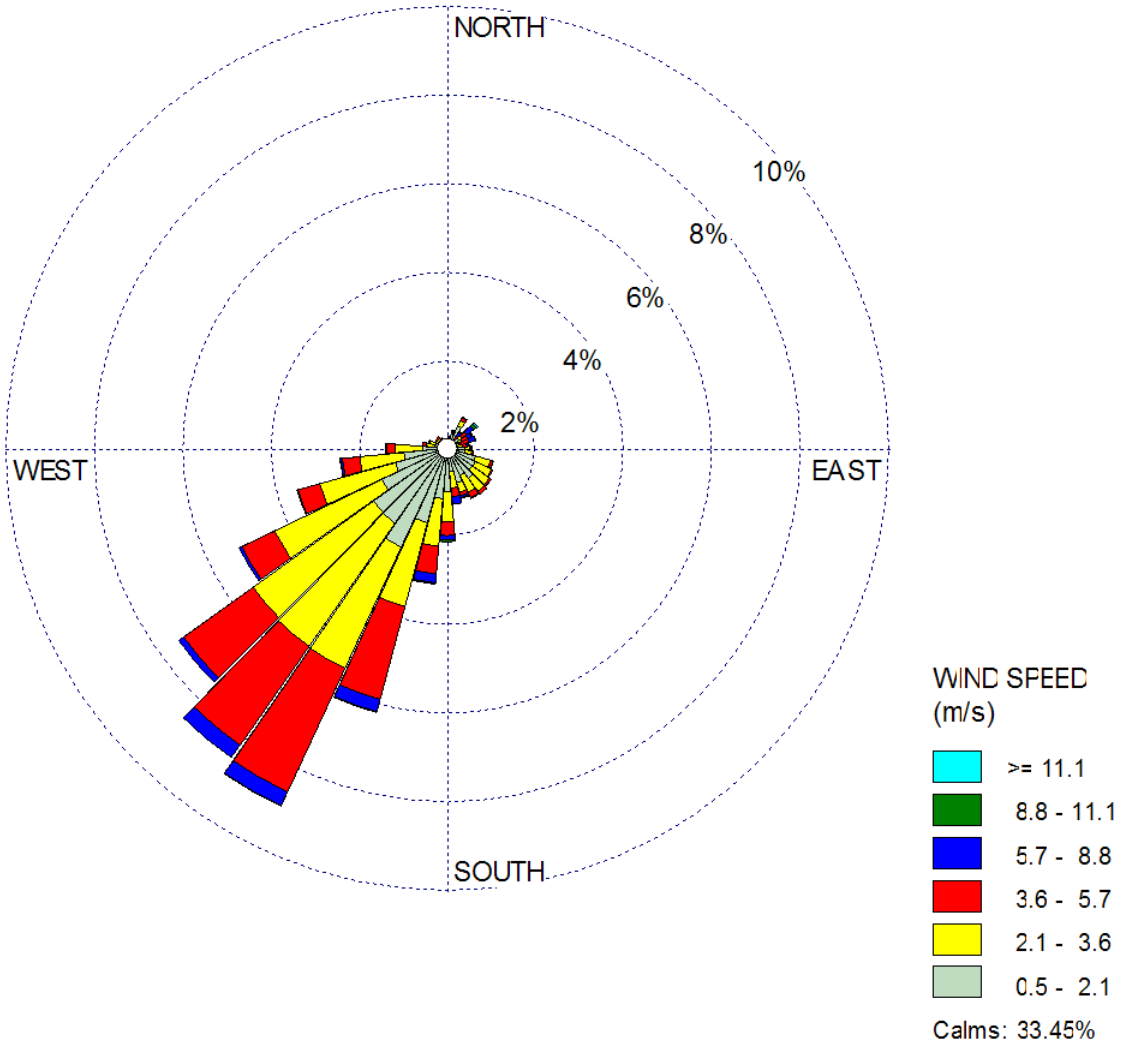

Figure 4-4
2008 Wind Rose for Orange County John Wayne Airport (SNA)

Section 5
Human Health Risk Assessment (HHRA)

The HHRA is performed according to the SCAQMD's *Risk Assessment Procedures for Rules 1401 and 1402* following the tiered analysis approach beginning with Tier 1 described in Section 5.1 and then Tier 4 described in Section 5.2.

5.1 Tier 1 Analysis

Tier 1 involves a simple look-up table (Table 1A) in which the equipment's emissions or source specific units (Table 1B) are compared to Screening Emission Levels. The Screening Emission Levels are pollutant emission thresholds which are not expected to produce a maximum individual cancer risk (MICR) greater than one in one million nor a hazard index (acute or chronic) greater than one.

Tier 1 Assessment Procedure

1. Calculate the Pollutant Screening Index (PSI_p) for each pollutant. For each compound, divide the maximum annual emissions (in pounds per year) of each pollutant (Qyr) by the Pollutant Screening Level (PSL_p) in pounds per year, as contained in Table 1A. For each acute compound, divide the maximum hourly emission (Qhr) of each pollutant by the Pollutant Screening Level (PSL_p) as contained in Table 1A.

    a. $PSI_{cancer\ and/or\ chronic} = Qyr / PSL_p$

    b. $PSI_{acute} = Qhr / PSL_p$

2. Calculate the Application Screening Index (ASI). Sum up the individual PSI for all chronic and carcinogenic pollutants, and separately for all acute pollutants.

    a. $ASI_{cancer\ and/or\ chronic} = \sum PSI_p$

    b. $ASI_{acute} = \sum PSI_p$

3. If either the cumulative cancer/chronic hazard or acute screening index exceeds one (1), the screening step failed, and a more detailed Tier 4 health risk assessment will be conducted (using HARP).

The emissions associated with the baseline and consolidated oilfield include the TAC emissions reported in the 2008 AER reports to SCAQMD from WNOC, the City of Newport Beach, and the Armstrong Oil Company (which operates one of the oil loading facilities). In addition, mobile equipment TAC emissions are estimated for well drilling, well workovers, and well abandonment. The Tier 1 emissions thresholds were those based on an assumed distance of 100 meters to the nearest receptor.

All toxic compounds from diesel and gasoline vehicle exhaust, oil field fugitive emissions, fugitive dust, and residential sources were analyzed in the Tier 1 analysis. The two cases for health risk assessment, as noted in Section 1, include the proposed project's incremental impact on existing receptors surrounding the site, and the future consolidated oilfield impacts on the proposed project residential, parks, and commercial areas. The detailed calculation results are presented in Attachment C.

The peak $ASI_{cancer/chronic}$ and ASI_{acute} values for the proposed project's incremental impacts on existing receptors are both greater than one (1). The new residential and commercial areas of the proposed project are estimated to generate several TACs from gasoline vehicles associated with residential, recreational parks, mixed-use, and commercial development, as well as emissions from natural gas combustion, hearths, landscaping equipment, architectural coating, and consumer products. These sources contribute to increased impacts to both the Tier 1 cancer/chronic and acute risk.

The peak $ASI_{cancer/chronic}$ value for the consolidated oilfield impacts on the proposed project residential and commercial areas is greater than one (1). The sources contributing to the peak cancer and chronic impacts are the mobile diesel equipment, both off-road and on-road vehicles, and the stationary equipment used to store and load crude oil. The peak ASI_{acute} value for the consolidated oilfield impacts on the proposed project residential, commercial, and recreational areas is less than 1. The sources contributing to the acute impacts are the stationary equipment used to store and load crude oil, and fugitive dust from paved road travel on the site.

Assuming that the ratio of PSI/ASI for a given compound can be used to roughly describe the contribution of that compound to total risk under a given scenario, the major TAC contributors to cancer/chronic and acute health risk are summarized in **Table 5-1**. For the proposed project incremental impacts scenario, acrolein accounts for the majority of acute impacts, and are associated with the residential and commercial development sources noted above. The decrease in cancer/chronic impacts under the proposed project incremental scenario is due to reduced emissions of DPM from equipment.

The consolidated oilfield cancer/chronic impacts to new residential and commercial areas are driven by DPM from mobile equipment (81%), as well as benzene (11%) and total PAHs (5%) from stationary sources. The acute impacts are due to formaldehyde (73%), arsenic (10%) and sulfates (8%) from stationary sources and mobile equipment.

Table 5-1
Tier 1 Analysis Major HHRA Contributors

Scenario	TAC	Contribution to Cancer/Chronic Risk	Contribution to Acute Risk
Proposed Project Incremental Impacts on Existing Receptors	**Tier 1 ASI Values ->**		
	1,3-Butadiene	29%	0%
	Benzene	25%	<1%
	P-dichlorobenzene	15%	0%
	Ethylene Oxide	14%	0%
	Chromium VI	8%	0%
	Formaldehyde	4%	1%
	Perchloroethylene	2%	<1%
	Acrolein	1%	94%
	Chloropicrin	<1%	3%
Consolidated Oilfield Impacts on New (Proposed Project) Residential, Commercial, and Recreational Areas	**Tier 1 ASI Values ->**		
	DPM	81%	0%
	Benzene	11%	2%
	PAHs (Total)	5%	0%
	Formaldehyde	<1%	73%
	Arsenic	1%	10%
	Sulfates	0%	8%
	Chromium VI	1%	0%
	Ammonia	<1%	3%
	Mercury	<1%	1%
	Nickel	<1%	1%

Source: CDM 2009.

Since each scenario produced at least one ASI value that exceeded one, both scenarios were analyzed for health risk using the HARP model. The TACs chosen for the HARP analysis included those in Table 5-1, as well as all other compounds designated as TACs by CARB that are emitted by project-related sources. The complete list of TACs analyzed in HARP is shown in **Table 5-2**.

Table 5-2
Selected TACs Chemical Values

CAS	Compound	Cancer PF (Inh)	Cancer PF (Oral)	Chronic REL (Inh)	Chronic REL (Oral)	Acute REL
		$(mg/kg\text{-}d)^{-1}$	$(mg/kg\text{-}d)^{-1}$	$\mu g/m^3$	(mg/kg-d)	$\mu g/m^3$
9901	Diesel Exhaust Particulate Matter	1.10E+00	*	5.00E+00	*	*
71-55-6	1,1,1-TCA	*	*	1.00E+03	*	6.80E+04
7664-41-7	Ammonia	*	*	2.00E+02	*	3.20E+03
7440-38-2	Arsenic	1.20E+01	1.50E+00	1.50E-02	3.50E-06	2.00E-01
7440-43-9	Cadmium	1.50E+01	*	2.00E-02	5.00E-04	*
7782-50-5	Chlorine	*	*	2.00E-01	*	2.10E+02
18540-29-9	Chromium VI	5.10E+02	*	2.00E-01	2.00E-02	*
9960	Sulfates	*	*	*	*	1.20E+02
75-0700	Acetaldehyde	1.00E-02	*	1.40E+02	*	4.70E+02
107-02-8	Acrolein	*	*	3.50E-01	*	2.50E+00
71-43-2	Benzene	1.00E-01	*	6.00E+01	*	1.30E+03
7726-95-6	Bromine	*	*	*	*	*
106-99-0	Butadiene, 1,3-	6.00E-01	*	2.00E+01	*	*
76-06-2	Chloropicrin	*	*	4.00E-01	*	2.90E+01
108-90-7	Chlorobenzene	*	*	1.00E+03	*	*
7440-50-8	Copper	*	*	*	*	1.00E+02
106-46-7	Dichlorobenzene, p-	4.00E-02	*	8.00E+02	*	*
75-09-2	Dichloromethane	3.50E-03	*	4.00E+02	*	1.40E+04
110-80-5	EGEE	*	*	7.00E+01	*	3.70E+02
111-15-9	EGEEA	*	*	3.00E+02	*	1.40E+02
100-41-4	Ethyl Benzene	8.70E-03	*	2.00E+03	*	*
75-00-3	Ethyl Chloride	*	*	3.00E+04	*	*
75-21-8	Ethylene oxide	3.10E-01	*	3.00E+01	*	*
107-21-1	Ethylene Glycol	*	*	4.00E+02	*	*
50-00-0	Formaldehyde	2.10E-02	*	9.00E+00	*	5.50E+01
110-54-3	Hexane	*	*	7.00E+03	*	*
67-63-0	Isopropyl alcohol	*	*	7.00E+03	*	3.20E+03
7439-92-1	Lead	4.20E-02	8.50E-03	*	*	*
7439-96-5	Manganese	*	*	9.00E-02	*	*
78-93-3	Methyl Ethyl Ketone	*	*	*	*	1.30E+04
7439-97-6	Mercury	*	*	3.00E-02	1.60E-04	6.00E-01
75-09-2	Methylene Chloride	3.50E-03	*	4.00E+02	*	1.40E+04
1634-04-4	Methyl T-butyl Ether	1.80E-03	*	8.00E+03	*	*
108-38-3	m-Xylene	*	*	7.00E+02	*	2.20E+04
7440-02-0	Nickel	9.10E-01	*	5.00E-02	5.00E-02	6.00E+00
95-48-7	o-Cresol	*	*	6.00E+02	*	*
95-47-6	o-Xylene	*	*	7.00E+02	*	2.20E+04

Table 5-2 (continued)
Selected TACs Chemical Values

CAS	Compound	Cancer PF (Inh)	Cancer PF (Oral)	Chronic REL (Inh)	Chronic REL (Oral)	Acute REL
		$(mg/kg\text{-}d)^{-1}$	$(mg/kg\text{-}d)^{-1}$	$\mu g/m^3$	(mg/kg-d)	$\mu g/m^3$
1150	PAHs (total)	3.90E+00	1.20E+01	*	*	*
127-18-4	Perchloroethylene	2.10E-02	*	3.50E+01	*	2.00E+04
108-95-2	Phenol	*	*	2.00E+02	*	5.80E+03
107-98-2	PGME	*	*	7.00E+03	*	*
115-07-1	Propylene	*	*	3.00E+03	*	*
106-42-3	p-Xylene	*	*	7.00E+02	*	2.20E+04
7782-49-2	Selenium	*	*	2.00E+01	*	*
100-42-5	Styrene	*	*	9.00E+02	*	2.10E+04
108-88-3	Toluene	*	*	3.00E+02	*	3.70E+04
7440-62-2	Vanadium	*	*	*	*	3.00E+01
1330-20-7	Xylenes	*	*	7.00E+02	*	2.20E+04

Source: OEHHA 2003, 2009.
* No chemical health value exists for this category.
PF = Potency Factor
REL = Reference Exposure Level
mg/kg-d = milligrams per kilogram-day
$\mu g/m^3$ = micrograms per cubic meter

5.2 Tier 4 (HARP) Analysis

The 20 compounds described in Section 5.1 were analyzed in the Tier 4 HHRA using the HARP model. **Table 5-3** summarizes the results of the HARP analysis as described in Section 2.4. HARP output files are included in Attachment D.

Table 5-3
HARP HHRA Acute, Chronic and Cancer Maximum Incremental Risks

Scenario	Maximum Incremental Risk		
	Cancer	Chronic Non-cancer	Acute
SCAQMD Significance Thresholds	Risk ≥ 10 in a million	$HI_C \geq 1.0$	$HI_A \geq 1.0$
Proposed Project Impact on Existing Fenceline Receptors[a]	**Peak = 4 in a million** (-8 to +4 in a million) Avg = -0.7 in a million	**Peak HI = 0.08** (Range -0.02 to +0.08) Average HI = 0.02	**Peak HI = 0.09** (Range -0.02 to +0.09) Average HI = 0.04
Significant? (Yes/No)	**No**	**No**	**No**
Consolidated Oilfield Impact on Proposed Project Residential/ Commercial Areas[b]	**Peak = 3 in a million** (0.1 to 3 in a million) Avg = 0.7 in a million	**Peak HI = 0.01** (Range 0.0002 to 0.01) Average HI = 0.003	**Peak HI = 0.03** (Range 0.01 to 0.03) Average HI = 0.02
Consolidated Oilfield Impact on Proposed Project Recreational Areas[b]	**Peak = 1 in a million** (0.06 to 1 in a million) Avg = 0.4 in a million	**Peak HI = 0.01** (Range 0.0003 to 0.01) Average HI = 0.006	**Peak HI = 0.05** (Range 0.02 to 0.05) Average HI = 0.03
Significant? (Yes/No)	**No**	**No**	**No**

Source: SCAQMD 2009; CDM 2009.

a. The incremental risk at an existing fenceline receptor is the change from the Baseline condition to the Proposed Project (Consolidated oilfield, Residential/ Commercial and Recreational Areas). A negative value indicates a beneficial change or reduction in risk.
b. Since the proposed residential, commercial and recreational developments do not currently exist and could be downwind of the consolidated oilfield activities based on the windrose (see Figure 4-4), it is assumed that the baseline risk for this case is zero (0), and the total risk from the consolidated oilfield represents the incremental risk at these locations.

5.2.1 Proposed Project Incremental Impacts to Existing Receptors

The proposed project incremental impacts to existing receptors were determined by running HARP twice, as described in Section 2.4. HARP was run once for the baseline conditions and a second time for the proposed future conditions with the consolidated oilfield operations and new residential, commercial, and recreational area activities. The difference (future project minus baseline) represents the proposed project's incremental impacts to existing receptors.

5.2.1.1 Cancer Risk

The HARP analysis indicates that the peak incremental cancer risk impact at existing fenceline receptors will be approximately 4 per million population, which is less than the SCAQMD significance threshold of 10 per million. The peak impact location is on

the east side of the property very near proposed residential development. The majority of the cancer risk is caused by 1,3-butadiene (29%), benzene (24%), p-dichlorobenzene (15%), ethylene oxide (14%), and chromium VI (9%). The majority of 1,3-butadiene and benzene and all of p-dichlorobenzene and ethylene oxide are emitted by the residential and commercial development. 1,3-butadiene and benzene are emitted from mobile vehicle gasoline combustion and landscaping equipment, and benzene is also emitted from architectural coating and home heating equipment. Chromium VI is emitted from all stationary and mobile fuel combustion, as well as from road dust. P-dichlorobenzene and ethylene oxide are emitted from the use of household consumer products.

The oilfield consolidation does provide cancer risk reductions at 40 percent of the receptors, with the average fenceline incremental cancer risk being -0.7 per million. The maximum reduction at any fenceline receptor is 8 per million. The reductions are due to the relocation of oilfield activities away from most of the fenceline receptors, as well as the decreases due to the reduction in mobile equipment traveling distance and time for the oilfield operations noted in Sections 3 and 5.1. Decreases in travel time and distance will reduce emissions from diesel engine exhaust and unpaved road dust.

5.2.1.2 Chronic Non-Cancer Risk

The HARP analysis indicates that the peak incremental chronic non-cancer risk impacts at existing receptors will increase slightly when compared to the Baseline conditions. The project incremental HI_C (0.08) is less than one (1) and therefore is not significant. The TACs associated with chronic risk that contribute substantially to this risk level include chloropicrin (31%), chlorine (29%), arsenic (16%), acrolein (13%), and formaldehyde (8%). Chlorine and arsenic are emitted from road dust, and chlorine is also emitted from gasoline vehicles. Chloropicrin is emitted from the use of household consumer products. Acrolein is emitted from landscaping equipment and gasoline motor vehicles. Formaldehyde is emitted from both gasoline and diesel vehicles and landscaping equipment, natural gas combustion in home heating equipment, and the use of consumer products. The human system primarily impacted by these TACs is the respiratory system.

As with cancer risk, the oilfield consolidation does provide HI_C reductions at 29 percent of the receptors, with the average fenceline HI_C of 0.02. The maximum reduction in the HI_C at any fenceline receptor is 0.02. The reductions are due to the relocation of oilfield activities away from most of the fenceline receptors, as well as the decreases due to the reduction in mobile equipment traveling distance and time for the oilfield operations noted in Sections 3 and 5.1. Decreases in travel time and distance will reduce emissions from diesel engine exhaust and unpaved road dust.

5.2.1.3 Acute Risks

The HARP analysis indicates that the peak incremental acute risk impacts at existing receptors will decrease 5 percent of receptors when compared to the Baseline conditions. The project incremental HI_A (0.09) is less than one (1), and therefore is not

significant. The HI_A values at existing receptors ranged from -0.02 to 0.09, with an average increase of 0.04. The TACs that contribute to this risk level impact the respiratory system and eyes. The primary contributors to the reduction in acute risk include formaldehyde (75% to the eyes), acrolein (15% to the eyes and respiratory system), acetaldehyde (4% to the eyes and respiratory system), chloropicrin (3% to the eyes and respiratory system) and ammonia (2% to the eyes and respiratory system). TAC emissions reductions are due to the decrease in emissions from diesel engine exhaust in the consolidated oilfield.

5.2.2 Consolidated Oilfield Impacts on New (Proposed Project) Residential, Commercial, and Recreational Areas

The proposed consolidated oilfield impacts to the proposed project residential and commercial area receptors were determined by running HARP once with the consolidated oilfield operations. Impacts were developed for 41 on-site receptors in the proposed residential and commercial areas and 11 on-site receptors in the proposed recreational areas. Because these are new receptors, no baseline emissions were assumed, thus the project incremental impacts are entirely from the consolidated oilfield activities.

5.2.2.1 Cancer Risk

The HARP analysis indicates that the peak incremental cancer risk impact at the residential/commercial receptors will be approximately 3 per million population, and at the recreational receptors will be approximately 1 in a million, which is less than the SCAQMD significance threshold of 10 per million. The values range from 0.1 to 3 per million across the site, with an average of approximately 0.7 per million for the residential/commercial receptors, and from 0.06 to 1 in a million with an average of 0.4 in a million for the recreational receptors. The peak impact location is northeast of the WNOC consolidated oilfield site, essentially downwind in the prevailing wind direction. The TACs that contribute to the peak residential and commercial risk include DPM (88%), PAHs (7%), and benzene (4%). Similarly, the TACs that contribute to the peak recreational risk include DPM (92%), PAHs (3%), and benzene (4%).

5.2.2.2 Chronic Non-Cancer Risk

The HARP analysis indicates that the peak consolidated oilfield chronic non-cancer risk impacts at new receptors will increase slightly when compared to the Baseline conditions. The project incremental HI_Cs for residential/commercial receptors (0.01) and for recreational receptors (0.01) are less than one (1) and therefore are not significant. The TACs that contribute substantially to the residential/commercial risk level are arsenic (79%), manganese (13%), and mercury (7%). Similarly, for recreational receptors these TACs contribute to the chronic risk 74%, 22%, and 4% respectively. The human system primarily impacted by these TACs is the central nervous system.

5.2.2.3 Acute Risks

The HARP analysis indicates that the peak incremental acute risk impacts at new receptors will increase slightly when compared to the Baseline conditions. The project incremental HI_As for residential/commercial receptors (0.03) and for recreational receptors (0.05) are less than one (1), and therefore are not significant. The HI_A values at residential/commercial receptors ranged from 0.01 to 0.03 with an average of 0.02, and at recreational receptors from 0.02 to 0.05 with an average of 0.03. The TACs that contribute to this risk level mainly impact the respiratory system and the eyes. The primary contributors to the residential/commercial risk include formaldehyde (92% to the eyes), acetaldehyde (5% to the eyes and respiratory system), and ammonia (2% to the eyes and respiratory system). Similarly, the contributors to the recreational acute risk include formaldehyde (92%), acetaldehyde (5%), and ammonia (3%) to the eyes and respiratory system.

5.2.3 Cancer Burden

The cancer burden for a project can be determined by first finding the distance at which the maximum incremental cancer risk drops below 1 per million. This distance is used to identify all census tracts or census blocks near the site that would be included in the cancer burden calculation. Finally the population for each tract/block is multiplied by the maximum incremental cancer risk in that tract/block, and the results are summed across all tracts/blocks. The resulting value is the project cancer burden (potential increase in number of cancer cases for the actual exposed population).

To determine the cancer burden for this project, several conservative simplifying assumptions were made. The assumptions and analysis included the following:

- The consolidated oilfield annual DPM emissions (85 lbs/year) were modeled using the SCREEN3 (USEPA 1995) air dispersion model for a 20 acre area source.
- The resulting concentrations (versus distance) results were multiplied by State's unit risk factor for DPM (3.0×10^{-4} $m^3/\mu g$) to determine risk level versus distance.
- The distance at which the cancer risk dropped below 1 per million was used as the radius from the consolidated oilfield site for selecting census tracts included in the cancer burden calculation.
- The peak cancer risk for the consolidated oilfield on the proposed new residential and commercial areas (4 per million) was assumed to apply to the entire population within the 1 per million radius.

The approximate distance from the 20 acre oil consolidation area of the site to the 1 in a million cancer risk isopleths based on SCREEN3 modeling, is roughly 1.25 miles. Drawing a rough boundary around the outer edge of the entire project site (not just the 20 acre consolidated oilfields) captures 19 census tracts in Newport Beach, Costa Mesa, and Huntington Beach. These census tracts have a total population of just over

86,000. Assuming that everyone in these tracts was exposed to a 4 per million incremental cancer risk, the cancer burden would be 0.34, less than the SCAQMD significance threshold of 0.5. The cancer burden has been substantially overestimated in this analysis since peak cancer risk for the new, on-site residential area is used to represent cancer to those much farther from the site with much lower incremental risk. The list of census tracts and locations are shown in Attachment E, along with the burden calculation.

Section 6
Narrative Cumulative Impacts Assessment

Unlike criteria air quality pollutants, for which standards have been established that determine acceptable levels of pollutant concentrations in the air, no standards exist that establish acceptable levels of human health risks or that identify a threshold of significance for cumulative health risk impacts. However, the discussion below addresses cumulative impacts, the project-related contribution to those impacts, and makes a determination regarding the significance of cumulative impacts.

6.1 Cumulative Cancer Risks

The SCAQMD conducted the third Multiple Air Toxics Exposure Study (MATES-III), an urban air toxics monitoring and evaluation study for the South Coast Air Basin from April 2004 through March 2006 (SCAQMD 2008). The results of MATES-III provide a follow up to MATES-II (SCAQMD 2000, data collected in 1997-1998) and update the general evaluation of cancer risks associated with TACs from all sources within the South Coast Air Basin (SCAB) developed in MATES-II. According to the study, cancer risks in the Basin range from 870 in a million to 1,400 in a million, with an average of 1,200 in a million. Although the MATES-III results are generally lower than the MATES-II results, these cancer risk estimates are high and indicate that current impacts associated with sources of TACs from past and present projects in the region are substantial. The MATES-III study is an appropriate estimate of present cumulative impacts of TAC emissions in the SCAB. DPM accounts for over 80 percent of the cancer risk throughout the Basin.

The modeled cancer risk in MATES-III also indicates that the region around the project site could have total cancer risk levels of 400 to 600 in a million, down from the MATES-II levels of 600 to 800 in a million. As noted above, DPM is the major contributor to cancer risk in the Basin. In the region near the site, the non-diesel cancer risk is less than 100 in a million, indicating that DPM is also the major contributor to cancer risk in coastal Orange County. The project will reduce DPM emissions relative to the existing conditions, and the calculated change in cancer risk ranges from a decrease of 8 in a million to an increase of 4 in a million. Therefore, the project change in cancer risk would be no more than a one percent increase or decrease relative to the background. Also, the average change over all project site fenceline receptors was a decrease. Based on the relatively high cancer risk level associated with past and present projects in the Basin, as represented by the MATES-III assessment, the Newport Banning Ranch Project would not make a cumulatively considerable contribution to the existing cancer risk in the SCAB and in coastal Orange County. The impact would be less than significant.

The above comparisons do not account for anticipated improvements in air quality in the SCAB in the future. SCAQMD and other agencies are consistently working to reduce air pollution. In particular, reductions in emission of diesel particulates are being implemented through State and federal legislation. Since diesel particulate

matter is the major contributor to estimated cancer risks, substantial reductions in diesel emissions would result in substantial reductions in cumulative cancer risks. These, and other such regulations intended to reduce TAC emissions within the Basin, would reduce cumulative impacts in the region. While continued, if not increased, regulation by the SCAQMD of point sources as well as more stringent emission controls on mobile sources would reduce TAC emissions, whether such measures would alter incremental contributions of TAC releases to cumulative impacts under the Newport Banning Ranch Project cannot be ascertained. However, it may be assumed that the DPM reductions that will occur in mobile sources throughout the SCAB will also occur in those vehicles directly affecting the project area receptors.

6.2 Cumulative Chronic Non-Cancer Health Hazards

As part of the MATES-III assessment, SCAQMD compared the averaged monitored levels of measured TACs with the Chronic Reference Exposure Levels (RELs) established by the State of California Office of Environmental Health Hazard Assessment (OEHHA). The chronic REL is the air concentration at or below which adverse non-cancer health effects would not be expected in the general population with exposure for at least a significant fraction of a lifetime. In general, the measured concentrations of air toxics were below the RELs, with one exception at the time of the MATES-III report.

When MATES-III was completed, the chronic REL for formaldehyde was 3 µg/m3 (2 ppb). All of the fixed site annual averages were above this concentration, ranging from 2.9 ppb for Anaheim (the MATES-III fixed site nearest the project site) to 4.5 ppb at Los Angeles. Formaldehyde effects include eye irritation, injury to nasal tissue, and respiratory discomfort. However, in early 2009 OEHHA revised the RELs for several toxic air contaminants. For formaldehyde, the revised chronic REL is 9 µg/m3 (7 ppb). Therefore, TAC concentrations at all MATES-III sites are under the chronic REL. The cumulative impacts of all past and present projects are less than the incremental project thresholds. It is expected that continued, if not increased, regulation by the SCAQMD of point sources as well as more stringent emission controls on mobile sources will reduce future TAC emissions. Maximum incremental chronic hazard indices for project operations impacts were estimated to be 0.08, which is more than an order of magnitude less than the threshold of significance of 1.0. Hence, the Newport Banning Ranch Project would not significantly add to the cumulative chronic non-cancer human health hazards.

6.3 Cumulative Non-Cancer Acute Health Hazards

Acute health hazards tend to be very local in extent due to the high fluctuations in peak hourly concentrations. Therefore, a given project's cumulative impacts of acute hazards do not have much influence beyond that project's boundaries. The Newport Banning Ranch Project incremental acute impacts would be less than significant, and would not expected to have a significant cumulative impact in the area.

Section 7
Uncertainties

A number of uncertainties are inherent in estimates of potential carcinogenic risk and non-carcinogenic hazard indices presented in a risk assessment. These uncertainties are inherent in assumptions, models, and extrapolations that comprise the risk assessment process. Several uncertainties that are important to the understanding of the results of the risk assessment are discussed below. The intent of this qualitative uncertainty analysis is to demonstrate that the health risk calculations produce results that tend to overestimate rather than underestimate the potential risks.

7.1 Uncertainties Associated with TAC Emissions, Concentrations and Deposition

7.1.1 Emissions

Risk estimates were based on chemical concentration estimates obtained through emissions and dispersion modeling. Emissions estimates are sensitive to the values used to represent the numerous emission source variables (e.g., future oilfield operation assumptions) and to the air toxic emission factor values used for each source. Consequently, estimated emissions values are subject to uncertainties. Different assumptions and values of variables would result in different emissions estimates. The HRA used well-accepted methods and best available emission factor data to develop estimates of emissions, and estimates and assumptions that are reasonable and appropriate. Actual emissions are unlikely to be substantially greater than those used in the analyses and may be much less. Thus, estimates for cancer risk and noncancer hazards are unlikely to be underestimated because of uncertainties in estimating emissions.

7.1.2 Concentrations

The dispersion model used in this analysis represents current state of the art in modeling methodology using a well-developed air dispersion model (AERMOD). Results provided offer the best estimates available to predict future ambient concentrations within the accuracy of the input data. Some uncertainties are, however, associated with dispersion modeling. The model results are sensitive to the emission source parameters and meteorological data inputs. Different assumptions, models and values or variables would result in different concentration estimates. An attempt was made to ensure that modeled concentrations would not be underestimated. For example, it was assumed that the nearest residential receptors were located on the property fenceline, which is clearly much closer to the site than actual residences.

Additionally, studies of Gaussian model accuracy have consistently confirmed the following conclusions:

- Dispersion models are more reliable for predicting long-term concentrations than for estimating short-term concentrations at specific locations.

- Dispersion models are reasonably reliable in predicting the magnitude of the highest concentrations occurring, without respect to a specific time or location.

USEPA's Guideline on Air Quality Models at 40 CFR 51, Appendix W Section 10 provides additional discussion of modeling uncertainties and sensitivities.

7.1.3 Deposition

Possible exposure pathways involving deposition of nonvolatile TACs onto soil were evaluated through a multi-pathway option in HARP. The multi-pathway analysis considered exposures to chemicals associated with project operations which potentially could be deposited onto surface soil. From soils, TACs could theoretically be incidentally ingested, dermally contacted, or taken up by garden vegetables. Resulting incremental multi-pathway cancer risk estimates and non-cancer hazards represent upper-range predictions of exposure and health risk associated with living near the Project site. Multi-pathway risk estimates were based on chemical concentration estimates obtained through emissions and dispersion modeling. Any uncertainty associated with TAC emissions estimates (Section 7.1.1) is reflected in risk estimates. As previously discussed, actual emissions are unlikely to be substantially greater than those used in the analyses.

7.2 Uncertainties Associated with Toxicity Assessment

A potentially large source of uncertainty is inherent in the derivation of the Cal/EPA and USEPA toxicity criteria (i.e., oral and inhalation reference concentration factors, and cancer slope factors). In many cases, data used to develop these factors must be extrapolated from animals to sensitive humans by the application of uncertainty factors to estimated no-observable-adverse-effects-levels (NOAELs) or lowest-observed-adverse-effects-levels (LOAELs). While designed to be protective, in many cases these uncertainty factors overestimate the magnitude of differences that may exist between human and animals, and among humans.

Derivation of cancer slope factors often involves linear extrapolation of effects at high doses to potential effects at lower doses commonly seen in environmental exposure settings. Currently, it is not known whether linear extrapolation is appropriate. Probably, the shape of the dose-response curve for carcinogenesis varies with different chemicals and mechanisms of action. Description of any such differences in quantitative terms is problematic at this time because of difficulties in observing effects at very low exposure levels. In addressing uncertainties, USEPA recognizes that risks calculated at very low levels of exposure could be overestimated by the linear extrapolation process and may even be zero.

Uncertainties in the Cal/EPA slope factor for diesel particulates are notable because diesel exposure accounts for a large fraction of total cancer risks estimated. Recent studies of some worker populations do suggest some small increase in lung cancer overall, but does not show any dose response. One would expect that the longer the exposure and/or the higher the concentration of diesel particulates in air, the greater would be the cancer incidence in an exposed population. Such a relationship is not observed in people exposed to DPM. This and other uncertainties have led USEPA to conclude that data are insufficient as a basis for developing a cancer slope factor.

Cal/EPA has recognized the possible importance of the above observation, along with other difficulties interpreting data on exposure to DPM and lung cancer incidence. However, Cal/EPA has determined to develop a cancer slope factor. This determination by Cal/EPA is subject to challenge by reasonable scientists studying the same database. Uncertainties in the DPM cancer slope factor as applied in this HRA are large and interpretation of the results of the assessment should consider these uncertainties.

7.3 Uncertainties Associated with Exposure Durations

Assumptions for exposure duration only affect estimates for incremental cancer risks. In the HRA, the exposure duration is assumed to be 70 years for residents, which is considered to be a typical lifetime. However, the average duration of a person living in a given home is generally considered to be 9 years and the high-end estimate of residence time in a given home is generally considered to be 30 years (OEHHA 2003).

Analysis of 2000 census tract data for census tracts that are located within 1 mile of the project site indicates that the residence time (duration that a person or family remains in a given home or apartment) averages around 3.3 years (50th percentile residence time). The 90th percentile residence time for those living within 1 mile of the site is 23 years and the 95th percentile residence time is 28 years. A plot of the local residence time percentiles is included in Attachment E. Using the typical lifetime (70 years) for the exposure duration for residents is likely to overestimate actual risk by a factor greater than two (2).

7.4 Summary

Human health risk was evaluated for the proposed Newport Banning Ranch project using site-specific calculations to evaluate risk. Based on the available data and the conservative exposure assumptions used in this evaluation, TACs for the Proposed Project do not pose a significant risk to human health. The risk evaluation findings are summarized as follows:

- Peak cancer risks for the existing nearby residents and workers would be less than the significance threshold for cancer risk (10 per million population), and many of the receptors' risk would decrease relative to existing conditions due to the reduction in diesel equipment travel on the site.

- Peak chronic non-cancer hazards for the existing nearby residents and workers would be less than the chronic non-cancer hazard index of one (1), and many of the receptors' risk would decrease relative to existing conditions, due to the reduction in diesel equipment travel on the site.

- Acute risk for the highest impact fenceline receptor is less than the acute hazard index of one (1).

- Cancer risks to the proposed residential and recreational areas of the project from exposure to emissions from the ongoing oilfield operations are less than the significance threshold of 10 in one million.

- Non-cancer chronic and acute hazards in the residential and recreational areas of the project from exposure to emissions from the ongoing oilfield operations are less than the significance threshold of 1.

Although several uncertainties regarding the risk calculations were identified, overall, the exposure and model assumptions tend to overestimate instead of underestimate risk. As such, the cancer risk and hazard estimates in this evaluation are considered less than significant at receptors in the vicinity of the Proposed Project.

Section 8
References

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Attachment A
TAC Emissions Calculations

Newport Banning Ranch
Summary - Baseline Oilfield Criteria Pollutant, Greenhouse Gas, and Toxic Emissions at Newport Banning Ranch

Criteria Pollutants

	CO	ROG	NOx	SOX	PM10	PM2.5	CO	ROG	NOx	SOX	PM10	PM2.5
	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(tpy)	(tpy)	(tpy)	(tpy)	(tpy)	(tpy)
WNOC Oilfield Stationary Operations[1]	1.32	15.45	4.38	14.58	0.38	0.35	0.24	2.82	0.80	2.66	0.07	0.06
City Oilfield Stationary Operations[2]	0.33	20.16	1.32	0.01	0.05	0.05	0.06	3.68	0.24	0.0010	0.010	0.009
Armstrong Stationary Operations[3]	NA	0.07	NA	NA	NA	NA	NA	0.01	NA	NA	NA	NA
WNOC Mobile Source Activities[4]	32.14	8.12	78.96	0.11	80.44	10.65	1.68	0.36	3.73	0.0057	1.29	0.23
City Mobile Source Activities[4]	14.08	2.90	21.47	0.03	1.64	1.43	0.09	0.01	0.04	0.0001	0.01	0.00
Total	**47.9**	**46.7**	**106.1**	**14.7**	**82.5**	**12.5**	**1.83**	**4.07**	**4.01**	**0.01**	**1.31**	**0.24**

Greenhouse Gases

	CO2	CH4	CO2e
	(metric tons/yr)	(metric tons/yr)	(metric tons/yr)
WNOC Oilfield Stationary Operations[1]	NA	NA	NA
City Oilfield Stationary Operations[2]	NA	NA	NA
Armstrong Stationary Operations[3]	NA	NA	NA
WNOC Mobile Source Activities[4]	482.54	0.0220	483.01
City Mobile Source Activities[4]	9.15	0.0003	9.16
Total	491.69	0.0223	492.16

ROG	ROG	PM10	PM10
(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
5.84	8,134	10.31	2,623

Toxic Air Contaminants

pounds per day (lbs/day)

	Ammonia	*Benzene*	*Formaldehyde*	*Naphthalene*	*PAHs, total, with components not reported*	*ARSENIC*	*BROMINE*	*CADMIUM*	*CHLORINE*	*CHROMIUM VI*	*COPPER*	*LEAD*	*MANGANESE*	*MERCURY*	*NICKEL*	*SELENIUM*	*SULFATES*	*VANADIUM*
WNOC Oilfield Stationary Operations[1]	9.91E-01	7.84E-02	2.24E-02	-	8.22E-05	-	-	-	-	-	-	-	-	-	-	-	-	-
City Oilfield Stationary Operations[2]	1.80E-01	1.17E-01	1.64E-04	2.74E-06	2.74E-06	-	-	-	-	-	-	-	-	-	-	-	-	-
Armstrong Stationary Operations[3]	-	4.27E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oilfield Mobile Source Activities[4]	-	2.07E-01	1.52E+00	-	-	1.18E-03	1.47E-03	1.17E-03	6.67E-02	1.95E-04	1.23E-02	1.02E-02	7.09E-02	1.21E-03	2.94E-03	2.73E-04	5.12E-01	6.07E-03
Total	**1.17E+00**	**4.02E-01**	**1.54E+00**	**2.74E-06**	**8.49E-05**	**1.18E-03**	**1.47E-03**	**1.17E-03**	**6.67E-02**	**1.95E-04**	**1.23E-02**	**1.02E-02**	**7.09E-02**	**1.21E-03**	**2.94E-03**	**2.73E-04**	**5.12E-01**	**6.07E-03**

lbs/day (continued)

	1,3-butadiene	*acetaldehyde*	*acrolein*	*ethylbenzene*	*methyl ethyl ketone (mek) (2-butanone)*	*n-hexane*	*propylene*	*m-xylene*	*o-xylene*	*p-xylene*	*styrene*	*toluene*	*methyl t-butyl ether (mtbe*
WNOC Oilfield Stationary Operations[1]	-	-	-	-	-	-	-	-	-	-	-	-	-
City Oilfield Stationary Operations[2]	-	-	-	-	-	-	-	-	-	-	-	-	-
Armstrong Stationary Operations[3]	-	-	-	-	-	-	-	-	-	-	-	-	-
Oilfield Mobile Source Activities[4]	1.96E-02	7.58E-01	7.28E-06	3.15E-02	1.52E-01	1.63E-02	2.68E-01	6.32E-02	3.46E-02	9.80E-03	5.99E-03	1.52E-01	1.05E-04
Total	**1.96E-02**	**7.58E-01**	**7.28E-06**	**3.15E-02**	**1.52E-01**	**1.63E-02**	**2.68E-01**	**6.32E-02**	**3.46E-02**	**9.80E-03**	**5.99E-03**	**1.52E-01**	**1.05E-04**

Newport Banning Ranch
Summary - Baseline Oilfield Criteria Pollutant, Greenhouse Gas, and Toxic Emissions at Newport Banning Ranch

Toxic Air Contaminants (continued)

pounds per year (lbs/yr)	Diesel Particulate Matter	Ammonia	Benzene	Formaldehyde	Naphthalene	PAHs, total, with components not reported	ARSENIC	BROMINE	CADMIUM	CHLORINE	CHROMIUM VI	COPPER	LEAD	MANGANESE	MERCURY	NICKEL	SELENIUM	SULFATES	VANADIUM
WNOC Oilfield Stationary Operations[1]	-	361.80	28.63	8.19	-	0.030	-	-	-	-	-	-	-	-	-	-	-	-	-
City Oilfield Stationary Operations[2]	-	65.88	42.58	0.06	0.0010	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-
Armstrong Stationary Operations[3]	-	-	0.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oilfield Mobile Source Activities[4,5]	232.72	-	2.70E+00	1.74E+00	-	-	3.46E-02	4.56E-02	3.00E-02	2.51E+00	6.18E-03	3.69E-01	3.00E-01	2.11E+00	3.23E-02	8.94E-02	6.92E-03	1.67E+01	1.78E-01
Total	**232.72**	**427.68**	**74.07**	**9.99**	**0.0010**	**0.031**	**0.035**	**0.046**	**0.030**	**2.51**	**0.0062**	**0.37**	**0.30**	**2.11**	**0.032**	**0.089**	**0.0069**	**16.75**	**0.18**

[1] Emissions from 2008 Annual Emissions Report to SCAQMD for West Newport Oil Company (FAC ID = 42775)
[2] Emissions from 2008 Annual Emissions Report to SCAQMD for Newport Beach City Utilities Department (FAC ID = 35189)
[3] Emissions from July 2006 - July 2007 Annual Emissions Report to SCAQMD for Armstrong Petr Corp (FAC ID = 17170)
[4] Emissions calculated from equipment and operation information obtained from WNOC and the City of Newport Beach
[5] Annual Emissions assume toxics from diesel exhaust are considered in the diesel PM cancer and chronic non-cancer health risk exposure

0.91 metric tons/short tons

pounds per year (lbs/yr)	1,3-butadiene	acetaldehyde	acrolein	ethylbenzene	methyl ethyl ketone (mek) (2-butanone)	n-hexane	propylene	m-xylene	o-xylene	p-xylene	isomers of xylene	styrene	toluene	methyl t-butyl ether (mtbe)
WNOC Oilfield Stationary Operations[1]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
City Oilfield Stationary Operations[2]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Armstrong Stationary Operations[3]	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oilfield Mobile Source Activities[4]	5.63E-01	2.47E-01	1.38E-01	1.10E+00	1.95E-02	1.62E+00	3.20E+00	3.73E+00	1.30E+00	-	5.02E+00	1.29E-01	6.02E+00	1.99E+00
Total	**0.56**	**0.25**	**0.14**	**1.10**	**0.02**	**1.62**	**3.20**	**3.73**	**1.30**	**-**	**5.02**	**0.13**	**6.02**	**1.99**

Newport Banning Ranch
Baseline Criteria Pollutant Inventory - Mobile Equipment

Maintenance Activity	WNOC	City	Activity
New Drilling	3	0	3
Abandonments	1	0	1
Well workovers	81	13	94

Oilfield Operations Equipment

Activity/Equipment		Fuel	Load Factor[a]	Partial Day Factor	HP[b]	Peak Hours/ day	Miles per trip	Peak Trips/ day	CO (lb/hr) or (lb/mi)	ROG (lb/hr) or (lb/mi)	NOX (lb/hr) or (lb/mi)	SOX (lb/hr) or (lb/mi)	PM10 (lb/hr) or (lb/mi)	PM2.5 (lb/hr) or (lb/mi)	CO2 (lb/hr) or (lb/mi)	CH4 (lb/hr) or (lb/mi)
WNOC General Use Equipment	Days Per Activity															
1 backhoe	48	Diesel	0.47	1.00	410	8			0.37029	0.10829	0.65101	0.00061	0.05945	0.05469	51.72801	0.00977
1 vacuum truck (offsite travel exhaust)	48	Diesel	1.00	1.00	310	NA	30	1	0.01361	0.00352	0.04458	0.00004	0.00216	0.00190	4.21067	-
1 vacuum truck (offsite paved road dust)	48	Dust	1.00	1.00	310	NA	30	1					0.00082	0.00014		
1 vacuum truck (on-site unpaved road dust)	48	Dust	0.41	1.00	310	NA	5	1					0.70229	0.07023		
1 vacuum truck (on-site idle exhaust)	48	Diesel	0.41	1.00	310	8			0.11024	0.03041	0.23525	0.00014	0.00474	0.00436	14.58836	-
1 tractor mower	12	Diesel	0.47	1.00	175	6			0.59032	0.14054	1.12119	0.00114	0.06341	0.05834	101.38689	0.01268
WNOC Worker - Daily Site inspection	365	Gas	1.00	1.00	NA	NA	5	1	0.01055	0.00108	0.00110	0.00001	0.00009	0.00005	1.09953	-
*City General Use Equipment**	hrs/yr															
1 repair well rig	60	Diesel	0.75	1.00	120	24			0.49342	0.10206	0.75624	0.00090	0.05970	0.05492	77.12178	0.00921
1 vacuum truck (offsite travel exhaust)	60	Diesel	1.00	1.00	400	NA	30	1	0.01361	0.00352	0.04458	0.00004	0.00216	0.00190	4.21067	-
1 vacuum truck (offsite paved road dust)	60	Dust	1.00	1.00	400	NA	30	1					0.00082	0.00014		
1 vacuum truck (on-site idle exhaust)	60	Diesel	0.41	1.00	400	8			0.11024	0.03041	0.23525	0.00014	0.00474	0.00436	14.58836	-
	days/week															
1/4 ton Chevy truck (LDT1)	6	Gas	1.00	1.00	NA	NA	30	1	0.01055	0.00108	0.00110	0.00001	0.00009	0.00005	1.09953	-
1/4 ton Chevy truck (LDT1) - Dust	6	Dust	1.00	1.00	NA	NA	30	1					0.00082	0.00014		
1 ton Chevy truck (LDT1)	1	Gas	1.00	1.00	NA	NA	30	1	0.01055	0.00108	0.00110	0.00001	0.00009	0.00005	1.09953	-
1 ton Chevy truck (LDT1) - Dust	1	Dust	1.00	1.00	NA	NA	30	1					0.00082	0.00014		
2 ton truck (LDT2)	1	Gas	1.00	1.00	NA	NA	30	1	0.01055	0.00108	0.00110	0.00001	0.00009	0.00005	1.09953	-
2 ton truck (LDT2) - Dust	1	Dust	1.00	1.00	NA	NA	30	1					0.00082	0.00014		
Drilling (prep-2, drill-8, complete-5 days)	Days Per Activity															
Well pad prep																
1 small drill rig	0.5	Diesel	0.75	0.50	0	24			0.35018	0.10549	1.46038	0.00212	0.04092	0.03765	188.1019	0.00952
1 cement truck (offsite travel exhaust)	0.5	Diesel	1.00	0.50	750	NA	30	1	0.01361	0.00352	0.04458	0.00004	0.00216	0.00190	4.21067	-
1 cement truck (offsite paved road dust)	0.5	Dust	1.00	0.50	750	NA	30	1					0.00082	0.00014		
1 cement truck (on-site unpaved road dust)	0.5	Dust	0.56	0.50	750	NA	5	1					0.70229	0.07023		
1 cement truck (on-site idle exhaust)	0.5	Diesel	0.56	0.50	750	8			0.11024	0.03041	0.23525	0.00014	0.00474	0.00436	14.58836	-
1 backhoe	0.25	Diesel	0.47	0.25	410	8			0.37029	0.10829	0.65101	0.00061	0.05945	0.05469	51.72801	0.00977
1 hydralift	0.5	Diesel	0.43	0.50	305	8			0.77621	0.20118	1.98778	0.00177	0.07709	0.07092	180.1013	0.01815
Drilling																
1 drill rig and associated equipment	7	Diesel	0.75	1.00	210	24			0.56309	0.15657	2.02261	0.00306	0.06398	0.05886	311.3085	0.01413
1 backhoe	4	Diesel	0.47	1.00	410	8			0.37029	0.10829	0.65101	0.00061	0.05945	0.05469	51.72801	0.00977
1 forklift	3	Diesel	0.30	1.00	250	8			0.33264	0.08670	0.64927	0.00063	0.03913	0.03600	56.05436	0.00782
Complete																
1 small drill rig	2	Diesel	0.75	1.00	0	24			0.35018	0.10549	1.46038	0.00212	0.04092	0.03765	188.1019	0.00952
1 vacuum truck (offsite travel exhaust)	1	Diesel	1.00	1.00	NA	NA	30	1	0.01361	0.00352	0.04458	0.00004	0.00216	0.00190	4.21067	-
1 vacuum truck (offsite paved road dust)	1	Dust	1.00	1.00	NA	NA	30	1					0.00082	0.00014		
1 vacuum truck (on-site unpaved road dust)	1	Dust	0.41	1.00	310	NA	5	1					0.70229	0.07023		
1 vacuum truck (on-site idle exhaust)	1	Diesel	0.41	1.00	310	8			0.11024	0.03041	0.23525	0.00014	0.00474	0.00436	14.58836	-
1 welding machine	1	Diesel	0.45	1.00	120	8			0.31281	0.13435	0.27920	0.00034	0.03079	0.02832	25.95807	0.01212
1 hydralift	0.5	Diesel	0.43	0.50	305	8			0.77621	0.20118	1.98778	0.00177	0.07709	0.07092	180.1013	0.01815

Newport Banning Ranch
Baseline Criteria Pollutant Inventory - Mobile Equipment

Maintenance Activity	WNOC	City	Activity
New Drilling	3	0	3
Abandonments	1	0	1
Well workovers	81	13	94

Oilfield Operations Equipment

Activity/Equipment		Fuel	Load Factor[a]	Partial Day Factor	HP[b]	Peak Hours/ day	Miles per trip	Peak Trips/ day	CO (lb/hr) or (lb/mi)	ROG (lb/hr) or (lb/mi)	NOX (lb/hr) or (lb/mi)	SOX (lb/hr) or (lb/mi)	PM10 (lb/hr) or (lb/mi)	PM2.5 (lb/hr) or (lb/mi)	CO2 (lb/hr) or (lb/mi)	CH4 (lb/hr) or (lb/mi)
Workers and Crew																
1 crew truck (15-20 round trips, 10-12 workers)	2	Diesel	1.00	1.00	NA	NA	5	20	0.01361	0.00352	0.04458	0.00004	0.00216	0.00190	4.21067	-
1 crew truck - Dust	2	Dust	1.00	1.00	NA	NA	5	20					0.70229	0.07023		
10-12 workers	15	Gas	1.00	1.00	NA	NA	30	12	0.01055	0.00108	0.00110	0.00001	0.00009	0.00005	1.09953	-
10-12 workers - Dust	15	Dust	1.00	1.00	NA	NA	30	12					0.00082	0.00014		
Well Abandonment (2-2.5 days)																
1 drill rig	1.5	Diesel	0.75	1.00	210	24			0.56309	0.15657	2.02261	0.00306	0.06398	0.05886	311.3085	0.01413
1 cement truck (offsite travel exhaust)	1	Diesel	1.00	1.00	NA	NA	30	1	0.01361	0.00352	0.04458	0.00004	0.00216	0.00190	4.21067	-
1 cement truck (offsite paved road dust)	1	Dust	1.00	1.00	NA	NA	30	1					0.00082	0.00014		
1 cement truck (on-site unpaved road dust)	1	Dust	0.56	1.00	NA	NA	5	1					0.70229	0.07023		
1 cement truck (on-site idle exhaust)	1	Diesel	0.56	1.00	750	8			0.11024	0.03041	0.23525	0.00014	0.00474	0.00436	14.58836	-
1 vacuum truck (offsite travel exhaust)	0.5	Diesel	1.00	0.50	NA	NA	30	1	0.01361	0.00352	0.04458	0.00004	0.00216	0.00190	4.21067	-
1 vacuum truck (offsite paved road dust)	0.5	Dust	1.00	0.50		NA	30	1					0.00082	0.00014		
1 vacuum truck (on-site unpaved road dust)	0.5	Dust	0.41	0.50		NA	5	1					0.70229	0.07023		
1 vacuum truck (on-site idle exhaust)	0.5	Diesel	0.41	0.50	310	8			0.11024	0.03041	0.23525	0.00014	0.00474	0.00436	14.58836	-
1 crew truck (3-5 round trips, 3 workers)	2	Diesel	1.00	1.00	NA	NA	5	5	0.01361	0.00352	0.04458	0.00004	0.00216	0.00190	4.21067	-
1 crew truck - Dust	2	Dust	1.00	1.00	NA	NA	5	5					0.70229	0.07023		
3 workers	3	Gas	1.00	1.00	NA	NA	30	3	0.01055	0.00108	0.00110	0.00001	0.00009	0.00005	1.09953	-
3 workers - Dust	3	Dust	1.00	1.00	NA	NA	30	3					0.00082	0.00014		
Well Workovers (1.5- 2 days)																
1 small drill rig	1.5	Diesel	0.75	1.00	0	24			0.35018	0.10549	1.46038	0.00212	0.04092	0.03765	188.1019	0.00952
1 vacuum truck (offsite travel exhaust)	0.5	Diesel	1.00	0.50	NA	NA	30	1	0.01361	0.00352	0.04458	0.00004	0.00216	0.00190	4.21067	-
1 vacuum truck (offsite paved road dust)	0.5	Dust	1.00	0.50	NA	NA	30	1					0.00082	0.00014		
1 vacuum truck (on-site unpaved road dust)	0.5	Dust	0.41	0.50	NA	NA	5	1					0.70229	0.07023		
1 vacuum truck (on-site idle exhaust)	0.5	Diesel	0.41	0.50	310	8			0.11024	0.03041	0.23525	0.00014	0.00474	0.00436	14.58836	-
1 crew truck (2-4 round trips, 3 workers)	1	Diesel	1.00	1.00	NA	NA	5	4	0.01361	0.00352	0.04458	0.00004	0.00216	0.00190	4.21067	-
1 crew truck - Dust	1	Dust	1.00	1.00	NA	NA	5	4					0.70229	0.07023		
3 workers	2	Gas	1.00	1.00	NA	NA	30	3	0.01055	0.00108	0.00110	0.00001	0.00009	0.00005	1.09953	-
3 workers - Dust	2	Dust	1.00	1.00	NA	NA	30	3					0.00082	0.00014		

**Per discussion with City of Newport Beach*

Equipment Details	Type	HP[b]	LF[a]
1 backhoe	Tractors/Loaders/Backhoes	410	0.465
1 cement truck (on-site idle exhaust)	:le, Diesel (33,001 to 60,000 lb)	750	0.56
1 hydralift	Cranes	305	0.43
1 small drill rig	Bore/Drill Rigs	-	0.75
1 drill rig	Bore/Drill Rigs	210	0.75
1 forklift	Forklifts	250	0.30
1 vacuum truck (on-site idle exhaust)	:le, Diesel (33,001 to 60,000 lb)	310	0.41
1 welding machine	Welders	120	0.45
1 truck mounted rig	Off-Highway Trucks	750	0.41
1 tractor mower	Tractors/Loaders/Backhoes	175	0.465
Crew van	Passenger Vehicle, Gas (<8500 lb)		1.00

Hrs/Day
8

Hrs/Day (drill rig)
24

Round trip on-site (miles)
5

per discussion with WNOC

Round trip travel to site (miles)
30

Weeks/yr
52

a. Load factors from CEQA Air Quality Handbook, SCAQMD, Diamond Bar, CA, 1993. Table A9-8-D.
b. Most common horsepower in Offroad database

0.92 'M2.5-PM10 Ratio
0.93 /12.5-PM10 Ratio

Oilfield Operations Equipment

Activity/Equipment		CO (lbs/day)	ROG (lbs/day)	NOX (lbs/day)	SOX (lbs/day)	PM10 (lbs/day)	PM2.5 (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	CO (lbs/yr)	ROG (lbs/yr)	NOX (lbs/yr)	SOX (lbs/yr)	PM10 (lbs/yr)	PM2.5 (lbs/yr)	CO2 (lbs/yr)	CH4 (lbs/yr)
WNOC General Use Equipment																	
1 backhoe		2.962	0.866	5.208	0.005	0.476	0.438	414	0.078	142.19	41.58	249.99	0.23	22.83	21.00	19,864	3.75
1 vacuum truck (offsite travel exhaust)		0.408	0.105	1.337	0.001	0.065	0.057	126	-	19.60	5.06	64.20	0.06	3.11	2.74	6,063	-
1 vacuum truck (offsite paved road dust)		-	-	-	-	0.024	0.004	-	-	-	-	-	-	1.17	0.20	-	-
1 vacuum truck (on-site unpaved road dust)		-	-	-	-	3.511	0.351	-	-	-	-	-	-	168.55	16.85	-	-
1 vacuum truck (on-site idle exhaust)		0.882	0.243	1.882	0.001	0.038	0.035	117	-	42.33	11.68	90.34	0.05	1.82	1.67	5,602	-
1 tractor mower		3.542	0.843	6.727	0.007	0.380	0.350	608	0.076	42.50	10.12	80.73	0.08	4.57	4.20	7,300	0.91
WNOC Worker - Daily Site inspection		0.053	0.005	0.006	0.000	0.000	0.000	5	-	1,001.05	102.42	104.66	1.02	8.07	5.02	104,346	-
	Subtotal -->	*7.847*	*2.064*	*15.160*	*0.014*	*4.495*	*1.235*	*1,271*	*0.154*	*1,247.68*	*170.86*	*589.91*	*1.45*	*210.11*	*51.69*	*143,174*	*4.66*
*City General Use Equipment**																	
1 repair well rig		11.842	2.449	18.150	0.022	1.433	1.318	1,851	0.221	29.61	6.12	45.37	0.05	3.58	3.30	4,627	0.55
1 vacuum truck (offsite travel exhaust)		0.408	0.105	1.337	0.001	0.065	0.057	126	-	3.06	0.79	10.03	0.01	0.49	0.43	947	-
1 vacuum truck (offsite paved road dust)		-	-	-	-	0.024	0.004	-	-	-	-	-	-	0.18	0.03	-	-
1 vacuum truck (on-site idle exhaust)		0.882	0.243	1.882	0.001	0.038	0.035	117	-	6.61	1.82	14.11	0.01	0.28	0.26	875	-
1/4 ton Chevy truck (LDT1)		0.316	0.032	0.033	0.000	0.003	0.002	33	-	98.73	10.10	10.32	0.10	0.80	0.50	10,292	-
1/4 ton Chevy truck (LDT1) - Dust		-	-	-	-	0.024	0.004	-	-	-	-	-	-	7.64	1.29	-	-
1 ton Chevy truck (LDT1)		0.316	0.032	0.033	0.000	0.003	0.002	33	-	16.46	1.68	1.72	0.02	0.13	0.08	1,715	-
1 ton Chevy truck (LDT1) - Dust		-	-	-	-	0.024	0.004	-	-	-	-	-	-	1.27	0.21	-	-
2 ton truck (LDT2)		0.316	0.032	0.033	0.000	0.003	0.002	33	-	16.46	1.68	1.72	0.02	0.13	0.08	1,715	-
2 ton truck (LDT2) - Dust		-	-	-	-	0.024	0.004	-	-	-	-	-	-	1.27	0.21	-	-
	Subtotal -->	*14.082*	*2.895*	*21.468*	*0.025*	*1.641*	*1.431*	*2,193*	*0.221*	*170.93*	*22.21*	*83.28*	*0.21*	*15.78*	*6.39*	*20,172*	*0.55*
Drilling (prep-2, drill-8, complete-5 days)																	
Well pad prep																	
1 small drill rig		4.202	1.266	17.525	0.025	0.491	0.452	2,257	0.114	12.61	3.80	52.57	0.08	1.47	1.36	6,772	0.34
1 cement truck (offsite travel exhaust)		0.408	0.105	1.337	0.001	0.065	0.057	126	-	1.23	0.32	4.01	0.00	0.19	0.17	379	-
1 cement truck (offsite paved road dust)		-	-	-	-	0.024	0.004	-	-	-	-	-	-	0.07	0.01	-	-
1 cement truck (on-site unpaved road dust)		-	-	-	-	3.511	0.351	-	-	-	-	-	-	10.53	1.05	-	-
1 cement truck (on-site idle exhaust)		0.441	0.122	0.941	0.001	0.019	0.017	58	-	1.32	0.36	2.82	0.00	0.06	0.05	175	-
1 backhoe		0.741	0.217	1.302	0.001	0.119	0.109	103	0.020	2.22	0.65	3.91	0.00	0.36	0.33	310	0.06
1 hydralift		3.105	0.805	7.951	0.007	0.308	0.284	720	0.073	9.31	2.41	23.85	0.02	0.93	0.85	2,161	0.22
	Subtotal -->	*8.897*	*2.514*	*29.056*	*0.035*	*4.538*	*1.275*	*3,266*	*0.206*	*26.69*	*7.54*	*87.17*	*0.11*	*13.61*	*3.82*	*9,797*	*0.62*
Drilling																	
1 drill rig and associated equipment		13.514	3.758	48.543	0.073	1.535	1.413	7,471	0.339	283.80	78.91	1,019.40	1.54	32.24	29.67	156,900	7.12
1 backhoe		2.962	0.866	5.208	0.005	0.476	0.438	414	0.078	35.55	10.40	62.50	0.06	5.71	5.25	4,966	0.94
1 forklift		2.661	0.694	5.194	0.005	0.313	0.288	448	0.063	23.95	6.24	46.75	0.05	2.82	2.59	4,036	0.56
	Subtotal -->	*19.138*	*5.318*	*58.945*	*0.083*	*2.324*	*2.138*	*8,334*	*0.480*	*343.30*	*95.55*	*1,128.64*	*1.64*	*40.77*	*37.51*	*165,901*	*8.62*
Complete																	
1 small drill rig		8.404	2.532	35.049	0.051	0.982	0.904	4,514	0.228	50.43	15.19	210.30	0.30	5.89	5.42	27,087	1.37
1 vacuum truck (offsite travel exhaust)		0.408	0.105	1.337	0.001	0.065	0.057	126	-	1.23	0.32	4.01	0.00	0.19	0.17	379	-
1 vacuum truck (offsite paved road dust)		-	-	-	-	0.024	0.004	-	-	-	-	-	-	0.07	0.01	-	-
1 vacuum truck (on-site unpaved road dust)		-	-	-	-	3.511	0.351	-	-	-	-	-	-	10.53	1.05	-	-
1 vacuum truck (on-site idle exhaust)		0.882	0.243	1.882	0.001	0.038	0.035	117	-	2.65	0.73	5.65	0.00	0.11	0.10	350	-
1 welding machine		2.502	1.075	2.234	0.003	0.246	0.227	208	0.097	7.51	3.22	6.70	0.01	0.74	0.68	623	0.29
1 hydralift		3.105	0.805	7.951	0.007	0.308	0.284	720	0.073	9.31	2.41	23.85	0.02	0.93	0.85	2,161	0.22
	Subtotal -->	*15.302*	*4.760*	*48.453*	*0.063*	*5.175*	*1.861*	*5,686*	*0.398*	*71.12*	*21.88*	*250.51*	*0.34*	*18.47*	*8.29*	*30,600*	*1.88*

Oilfield Operations Equipment

Activity/Equipment		CO (lbs/day)	ROG (lbs/day)	NOX (lbs/day)	SOX (lbs/day)	PM10 (lbs/day)	PM2.5 (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	CO (lbs/yr)	ROG (lbs/yr)	NOX (lbs/yr)	SOX (lbs/yr)	PM10 (lbs/yr)	PM2.5 (lbs/yr)	CO2 (lbs/yr)	CH4 (lbs/yr)
Workers and Crew																	
1 crew truck (15-20 round trips, 10-12 workers)		1.361	0.352	4.458	0.004	0.216	0.190	421	-	8.17	2.11	26.75	0.02	1.29	1.14	2,526	-
1 crew truck - Dust		-	-	-	-	70.229	7.023	-	-	-	-	-	-	421.37	42.14	-	-
10-12 workers		3.797	0.389	0.397	0.004	0.031	0.019	396	-	170.88	17.48	17.87	0.17	1.38	0.86	17,812	-
10-12 workers - Dust		-	-	-	-	0.294	0.050	-	-	-	-	-	-	13.21	2.23	-	-
	Subtotal -->	*5.159*	*0.740*	*4.855*	*0.008*	*70.769*	*7.281*	*817*	-	*179.05*	*19.59*	*44.61*	*0.20*	*437.26*	*46.37*	*20,339*	-
Well Abandonment (2-2.5 days)																	
1 drill rig		13.514	3.758	48.543	0.073	1.535	1.413	7,471	0.339	20.27	5.64	72.81	0.11	2.30	2.12	11,207	0.51
1 cement truck (offsite travel exhaust)		0.408	0.105	1.337	0.001	0.065	0.057	126	-	0.41	0.11	1.34	0.00	0.06	0.06	126	-
1 cement truck (offsite paved road dust)		-	-	-	-	0.024	0.004	-	-	-	-	-	-	0.02	0.00	-	-
1 cement truck (on-site unpaved road dust)		-	-	-	-	3.511	0.351	-	-	-	-	-	-	3.51	0.35	-	-
1 cement truck (on-site idle exhaust)		0.882	0.243	1.882	0.001	0.038	0.035	117	-	0.88	0.24	1.88	0.00	0.04	0.03	117	-
1 vacuum truck (offsite travel exhaust)		0.408	0.105	1.337	0.001	0.065	0.057	126	-	0.41	0.11	1.34	0.00	0.06	0.06	126	-
1 vacuum truck (offsite paved road dust)		-	-	-	-	0.024	0.004	-	-	-	-	-	-	0.02	0.00	-	-
1 vacuum truck (on-site unpaved road dust)		-	-	-	-	3.511	0.351	-	-	-	-	-	-	3.51	0.35	-	-
1 vacuum truck (on-site idle exhaust)		0.441	0.122	0.941	0.001	0.019	0.017	58	-	0.44	0.12	0.94	0.00	0.02	0.02	58	-
1 crew truck (3-5 round trips, 3 workers)		0.340	0.088	1.115	0.001	0.054	0.047	105	-	0.68	0.18	2.23	0.00	0.11	0.09	211	-
1 crew truck - Dust		-	-	-	-	17.557	1.756	-	-	-	-	-	-	35.11	3.51	-	-
3 workers		0.949	0.097	0.099	0.001	0.008	0.005	99	-	2.85	0.29	0.30	0.00	0.02	0.01	297	-
3 workers - Dust		-	-	-	-	0.073	0.012	-	-	-	-	-	-	0.22	0.04	-	-
	Subtotal -->	*16.944*	*4.519*	*55.254*	*0.079*	*26.486*	*4.110*	*8,103*	*0.339*	*25.94*	*6.68*	*80.84*	*0.12*	*45.03*	*6.65*	*12,142*	*0.51*
Well Workovers (1.5- 2 days)																	
1 small drill rig		8.404	2.532	35.049	0.051	0.982	0.904	4,514	0.228	1,187.53	357.74	4,952.45	7.18	138.78	127.67	637,891	32.28
1 vacuum truck (offsite travel exhaust)		0.408	0.105	1.337	0.001	0.065	0.057	126	-	38.47	9.94	125.98	0.12	6.09	5.37	11,899	-
1 vacuum truck (offsite paved road dust)		-	-	-	-	0.024	0.004	-	-	-	-	-	-	2.31	0.39	-	-
1 vacuum truck (on-site unpaved road dust)		-	-	-	-	3.511	0.351	-	-	-	-	-	-	330.78	33.08	-	-
1 vacuum truck (on-site idle exhaust)		0.441	0.122	0.941	0.001	0.019	0.017	58	-	41.54	11.46	88.64	0.05	1.79	1.64	5,497	-
1 crew truck (2-4 round trips, 3 workers)		0.272	0.070	0.892	0.001	0.043	0.038	84	-	25.65	6.62	83.99	0.08	4.06	3.58	7,933	-
1 crew truck - Dust		-	-	-	-	14.046	1.405	-	-	-	-	-	-	1,323.11	132.31	-	-
3 workers		0.949	0.097	0.099	0.001	0.008	0.005	99	-	178.86	18.30	18.70	0.18	1.44	0.90	18,644	-
3 workers - Dust		-	-	-	-	0.073	0.012	-	-	-	-	-	-	13.83	2.34	-	-
	Subtotal -->	*10.48*	*2.93*	*38.32*	*0.05*	*18.77*	*2.79*	*4,882*	*0.23*	*1,472.05*	*404.06*	*5,269.76*	*7.61*	*1,822.18*	*307.28*	*681,864*	*32.28*
	Peak Emissions *-->	46.23	11.02	100.43	0.13	82.08	12.09	12,614	0.86	3,536.75	748.37	7,534.72	11.67	2,603.21	468.00	1,083,990	49.12
	Peak Onsite Emissions *-->	40.66	10.32	97.26	0.12	81.41	11.88	11,867	0.86	2,988.11	682.19	7,273.19	10.98	2,547.80	449.61	1,013,594	49.12
	Gas	4.80	0.49	0.50	0.00	0.04	0.02	500	-	1,485.28	151.96	155.29	1.51	11.98	7.45	154,821	-
	Diesel	41.43	10.53	99.93	0.13	4.35	4.62	12,114	0.86	2,051.47	596.41	7,379.43	10.16	242.92	222.88	929,169	49.12
	Dust	-	-	-	-	77.69	7.44	-	-	-	-	-	-	2,348.32	237.68	-	-
	Peak Onsite Activity *-->	40.66	10.32	97.26	0.12	81.41	11.88	11,867	0.86	2,988.11	682.19	7,273.19	10.98	2,547.80	449.61	1,013,594	49.12
Gas/onsite	City	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	WNOC	0.05	0.01	0.01	0.00	0.00	0.00	5	-	1,001.05	102.42	104.66	1.02	8.07	5.02	104,346	-
Diesel/onsite	City	12.72	2.69	20.03	0.02	1.47	1.35	1,968	0.22	36.22	7.95	59.49	0.06	3.87	3.56	5,503	0.55
	WNOC	27.89	7.62	77.22	0.10	2.68	3.15	9,894	0.63	1,950.84	571.83	7,109.03	9.90	228.85	210.33	903,746	48.57
Unpaved Dust/onsite	City	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	WNOC	-	-	-	-	77.25	7.37	-	-	-	-	-	-	2,307.01	230.70	-	-
	Peak Offsite Activity *-->	5.56	0.70	3.17	0.01	0.67	0.21	747	-	548.64	66.17	261.54	0.69	55.41	18.39	70,396	-
	Gas/offsite	4.75	0.49	0.50	0.00	0.04	0.02	495	-	484.24	49.54	50.63	0.49	3.90	2.43	50,475	-
	Diesel/offsite	0.82	0.21	2.67	0.00	0.19	0.11	253	-	64.41	16.63	210.91	0.20	10.20	8.99	19,921	-
	Paved Dust/offsite	-	-	-	-	0.44	0.07	-	-	-	-	-	-	41.31	6.97	-	-

*Peak daily activity - assumes that workovers, drilling, and abandonments do not overlap; also during new well drilling that well pad preparation, well drilling, and well completion do not overlap.
Total peak daily emissions = General equipment use for WNOC and City sites plus new well drilling at WNOC site.

Mowing Area

122	acres
43,560	sf/acre
5,320,768	SF
2,307	linear feet/side (= linear ft/swath)
5,280	ft/mi
0.44	miles per swath
13,840	sf mowed per swath
385	swaths
168	total miles of mowing
33.64	hours
6.0	days/each mowing (2 per year)
12	days/year
6.0	ft mower deck
5	mph
6	hours/day

Newport Banning Ranch

Stationary Source Annual Emission Report - City of Newport Beach

SCAQMD 2008 Annual Emissions Report

Facility ID 35189
Company Name NEWPORT BEACH CITY - UTILITIES DEPT
Address 5800 W COAST HIGHWAY
NEWPORT BEACH, CA 92663

Select AER Year: 2008

Criteria Pollutants (Tons per Year):		**Annual Emissions**	
Pollutant ID	**Pollutant Description**	**(tons/yr)**	**(lbs/day)**
CO	Carbon Monoxide	0.06	0.33
NOX	Nitrogen Oxides	0.24	1.32
ROG	Reactive Organic Gases	3.68	20.16
SOX	Sulfur Oxides	0.001	0.01
TSP	Total Suspended Particulates	0.01	0.05

Toxic Pollutants (Pounds per Year)		**Annual Emissions**	
Pollutant ID	**Pollutant Description**	**(lbs/yr)**	**(lbs/day)**
7664417	Ammonia	65.88	0.1805
71432	Benzene	42.58	0.1167
50000	Formaldehyde	0.06	0.0002
91203	Naphthalene	0.001	0.000003
1151	PAHs, total, with components not reported	0.001	0.000003

2,000	lbs/ton
365	days/year

Newport Banning Ranch
Stationary Source Annual Emission Report - West Newport Oil Company

SCAQMD 2008 Annual Emissions Report

Facility ID 42775
Company Name WEST NEWPORT OIL CO
Address 1080 W 17TH ST
COSTA MESA, CA 92627

Select AER Year: 2008

Criteria Pollutants (Tons per Year):		**Annual Emissions**	
Pollutant ID	**Pollutant Description**	**(tons/yr)**	**(lbs/day)**
CO	Carbon Monoxide	0.24	1.32
NOX	Nitrogen Oxides	0.8	4.38
ROG	Reactive Organic Gases	2.82	15.45
SOX	Sulfur Oxides	2.66	14.58
TSP	Total Suspended Particulates	0.07	0.38

Toxic Pollutants (Pounds per Year)		**Annual Emissions**	
Pollutant ID	**Pollutant Description**	**(lbs/yr)**	**(lbs/day)**
7664417	Ammonia	361.8	0.9912
71432	Benzene	28.63	0.0784
50000	Formaldehyde	8.19	0.0224
1151	PAHs, total, with components not reported	0.03	0.000082

2,000	lbs/ton
365	days/year

Newport Banning Ranch
Stationary Source Annual Emission Report - Armstrong Petroleum Corp.

SCAQMD 2006-2007 Annual Emissions Report

Facility ID 17170
Company Name ARMSTRONG PETR CORP
Address 5800 W Coast HWY
Newport Beach, CA 92663

Select AER Year: 2006

Criteria Pollutants (Tons per Year):

Pollutant ID	Pollutant Description	Annual Emissions (tons/yr)	(lbs/day)
ROG	Reactive Organic Gases	0.013	0.07

Toxic Pollutants (Pounds per Year)

Pollutant ID	Pollutant Description	Annual Emissions (lbs/yr)	(lbs/day)
71432	Benzene	0.156	0.00043

2,000 lbs/ton
365 days/year

SCAB Fleet Average Emission Factors (Diesel)

Calendar Year: **2008**
Air Basin **South Coast**

		(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)
Equipment	**MaxHP**	**CO**	**ROG**	**NOX**	**SOX**	**PM**	**CO2**	**CH4**
Aerial Lifts	15	0.0534	0.0113	0.0736	0.0001	0.0048	8.7	0.0010
	25	0.0644	0.0249	0.1073	0.0001	0.0077	11.0	0.0022
	50	0.2011	0.0833	0.2037	0.0003	0.0203	19.6	0.0075
	120	0.2542	0.0781	0.4910	0.0004	0.0386	38.1	0.0070
	500	0.6822	0.1719	2.1178	0.0021	0.0668	213	0.0155
	750	1.2331	0.3198	3.9213	0.0039	0.1223	385	0.0289
Aerial Lifts Composite		0.2200	0.0746	0.3885	0.0004	0.0269	34.7	0.0067
Air Compressors	15	0.0530	0.0157	0.0899	0.0001	0.0068	7.2	0.0014
	25	0.0905	0.0359	0.1448	0.0002	0.0108	14.4	0.0032
	50	0.2903	0.1265	0.2442	0.0003	0.0283	22.3	0.0114
	120	0.3395	0.1112	0.6505	0.0006	0.0578	47.0	0.0100
	175	0.5136	0.1383	1.1024	0.0010	0.0600	88.5	0.0125
	250	0.3847	0.1381	1.5340	0.0015	0.0525	131	0.0125
	500	0.8107	0.2172	2.4338	0.0023	0.0844	232	0.0196
	750	1.2529	0.3420	3.8533	0.0036	0.1321	358	0.0309
	1000	2.1596	0.5751	6.3733	0.0049	0.1969	486	0.0519
Air Compressors Composite		0.3782	0.1232	0.7980	0.0007	0.0563	63.6	0.0111
Bore/Drill Rigs	15	0.0632	0.0122	0.0767	0.0002	0.0047	10.3	0.0011
	25	0.0674	0.0210	0.1343	0.0002	0.0080	16.0	0.0019
	50	0.2734	0.0813	0.2898	0.0004	0.0253	31.0	0.0073
	120	0.4934	0.1021	0.7562	0.0009	0.0597	77.1	0.0092
	175	0.7541	0.1203	1.1469	0.0016	0.0585	141	0.0109
	250	0.3502	0.1055	1.4604	0.0021	0.0409	188	0.0095
	500	0.5631	0.1566	2.0226	0.0031	0.0640	311	0.0141
	750	1.1127	0.3207	4.1945	0.0062	0.1297	615	0.0289
	1000	1.8100	0.6291	9.2766	0.0093	0.2299	928	0.0568
Bore/Drill Rigs Composite		0.5281	0.1295	1.3416	0.0017	0.0591	165	0.0117
Cement and Mortar Mixers	15	0.0394	0.0087	0.0562	0.0001	0.0037	6.3	0.0008
	25	0.1038	0.0402	0.1722	0.0002	0.0125	17.6	0.0036
Cement and Mortar Mixers Composite		0.0447	0.0113	0.0658	0.0001	0.0044	7.2	0.0010
Concrete/Industrial Saws	25	0.0681	0.0206	0.1344	0.0002	0.0079	16.5	0.0019
	50	0.3412	0.1418	0.3179	0.0004	0.0335	30.2	0.0128
	120	0.5088	0.1545	0.9632	0.0009	0.0792	74.1	0.0139
	175	0.8877	0.2192	1.8557	0.0018	0.0944	160	0.0198
Concrete/Industrial Saws Composite		0.4411	0.1460	0.7263	0.0007	0.0610	58.5	0.0132
Cranes	50	0.3359	0.1466	0.2624	0.0003	0.0320	23.2	0.0132
	120	0.3807	0.1261	0.7275	0.0006	0.0664	50.1	0.0114
	175	0.4936	0.1345	1.0417	0.0009	0.0589	80.3	0.0121
	250	0.3881	0.1392	1.3867	0.0013	0.0535	112	0.0126
	500	0.7762	0.2012	1.9878	0.0018	0.0771	180	0.0182
	750	1.3011	0.3409	3.4224	0.0030	0.1310	303	0.0308
	9999	4.8072	1.2096	13.0905	0.0098	0.4143	971	0.1091
Cranes Composite		0.6011	0.1778	1.6100	0.0014	0.0715	129	0.0160
Crawler Tractors	50	0.3714	0.1635	0.2856	0.0003	0.0352	24.9	0.0148
	120	0.5147	0.1743	1.0019	0.0008	0.0901	65.8	0.0157
	175	0.7734	0.2146	1.6473	0.0014	0.0937	121	0.0194
	250	0.6360	0.2263	2.1648	0.0019	0.0880	166	0.0204
	500	1.4050	0.3175	3.0311	0.0025	0.1222	259	0.0286
	750	2.5044	0.5713	5.5421	0.0047	0.2205	465	0.0516
	1000	3.9537	0.8802	9.2252	0.0066	0.3088	658	0.0794
Crawler Tractors Composite		0.6843	0.2068	1.5395	0.0013	0.0943	114	0.0187
Crushing/Proc. Equipment	50	0.5828	0.2519	0.4821	0.0006	0.0563	44.0	0.0227
	120	0.6048	0.1955	1.1410	0.0010	0.1031	83.1	0.0176
	175	0.9790	0.2596	2.0557	0.0019	0.1141	167	0.0234
	250	0.7004	0.2529	2.8190	0.0028	0.0959	245	0.0228
	500	1.2591	0.3442	3.8371	0.0037	0.1336	374	0.0311
	750	1.9179	0.5502	6.2394	0.0059	0.2117	589	0.0496
	9999	5.5592	1.5285	17.0748	0.0131	0.5223	1,308	0.1379
Crushing/Proc. Equipment Composite		0.7620	0.2385	1.5831	0.0015	0.1012	132	0.0215
Dumpers/Tenders	25	0.0356	0.0121	0.0681	0.0001	0.0043	7.6	0.0011
Dumpers/Tenders Composite		0.0356	0.0121	0.0681	0.0001	0.0043	7.6	0.0011

SCAB Fleet Average Emission Factors (Diesel)

Calendar Year: **2008**
Air Basin **South Coast**

		(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)
Equipment	**MaxHP**	**CO**	**ROG**	**NOX**	**SOX**	**PM**	**CO2**	**CH4**
Excavators	25	0.0677	0.0201	0.1291	0.0002	0.0077	16.4	0.0018
	50	0.3393	0.1381	0.2727	0.0003	0.0319	25.0	0.0125
	120	0.5437	0.1649	0.9632	0.0009	0.0902	73.6	0.0149
	175	0.6735	0.1674	1.2913	0.0013	0.0748	112	0.0151
	250	0.4374	0.1620	1.7260	0.0018	0.0596	159	0.0146
	500	0.7092	0.2175	2.2162	0.0023	0.0803	234	0.0196
	750	1.1724	0.3637	3.7953	0.0039	0.1352	387	0.0328
Excavators Composite		0.5828	0.1695	1.3249	0.0013	0.0727	120	0.0153
Forklifts	50	0.2020	0.0846	0.1603	0.0002	0.0192	14.7	0.0076
	120	0.2304	0.0724	0.4055	0.0004	0.0402	31.2	0.0065
	175	0.3326	0.0867	0.6493	0.0006	0.0391	56.1	0.0078
	250	0.1822	0.0716	0.8315	0.0009	0.0254	77.1	0.0065
	500	0.2573	0.0937	1.0380	0.0011	0.0340	111	0.0085
Forklifts Composite		0.2422	0.0799	0.5982	0.0006	0.0324	54.4	0.0072
Generator Sets	15	0.0749	0.0189	0.1237	0.0002	0.0077	10.2	0.0017
	25	0.1105	0.0332	0.1767	0.0002	0.0118	17.6	0.0030
	50	0.3024	0.1238	0.3155	0.0004	0.0307	30.6	0.0112
	120	0.5141	0.1558	0.9918	0.0009	0.0767	77.9	0.0141
	175	0.7531	0.1854	1.6223	0.0016	0.0771	142	0.0167
	250	0.5644	0.1859	2.2800	0.0024	0.0697	213	0.0168
	500	1.0375	0.2648	3.3136	0.0033	0.1028	337	0.0239
	750	1.6748	0.4404	5.4793	0.0055	0.1680	544	0.0397
	9999	4.1271	1.1329	12.8919	0.0105	0.3964	1,049	0.1022
Generator Sets Composite		0.3461	0.1075	0.6980	0.0007	0.0430	61.0	0.0097
Graders	50	0.3813	0.1622	0.3051	0.0004	0.0362	27.5	0.0146
	120	0.5585	0.1780	1.0405	0.0009	0.0948	75.0	0.0161
	175	0.7486	0.1956	1.5300	0.0014	0.0864	124	0.0176
	250	0.5482	0.1966	2.0220	0.0019	0.0751	172	0.0177
	500	0.8828	0.2360	2.3908	0.0023	0.0904	229	0.0213
	750	1.8609	0.5040	5.1931	0.0049	0.1935	486	0.0455
Graders Composite		0.6561	0.1936	1.6191	0.0015	0.0840	133	0.0175
Off-Highway Tractors	120	0.7625	0.2703	1.5479	0.0011	0.1355	93.7	0.0244
	175	0.8741	0.2532	1.9339	0.0015	0.1094	130	0.0228
	250	0.5852	0.2053	1.8670	0.0015	0.0812	130	0.0185
	750	4.0720	0.8003	7.4850	0.0057	0.3122	568	0.0722
	1000	6.3076	1.2211	12.1964	0.0082	0.4364	814	0.1102
Off-Highway Tractors Composite		0.8959	0.2578	2.1767	0.0017	0.1061	151	0.0233
Off-Highway Trucks	175	0.7669	0.1962	1.4779	0.0014	0.0867	125	0.0177
	250	0.4799	0.1822	1.8617	0.0019	0.0659	167	0.0164
	500	0.8739	0.2727	2.6600	0.0027	0.0984	272	0.0246
	750	1.4136	0.4454	4.4516	0.0044	0.1621	442	0.0402
	1000	2.4058	0.7106	7.9819	0.0063	0.2445	625	0.0641
Off-Highway Trucks Composite		0.8499	0.2730	2.7256	0.0027	0.0989	260	0.0246
Other Construction Equipment	15	0.0617	0.0119	0.0750	0.0002	0.0046	10.1	0.0011
	25	0.0557	0.0174	0.1110	0.0002	0.0066	13.2	0.0016
	50	0.3144	0.1244	0.2884	0.0004	0.0303	28.0	0.0112
	120	0.5538	0.1570	0.9885	0.0009	0.0842	80.9	0.0142
	175	0.5932	0.1356	1.1451	0.0012	0.0606	107	0.0122
	500	0.7066	0.1944	2.2771	0.0025	0.0770	254	0.0175
Other Construction Equipment Composite		0.4504	0.1215	1.1575	0.0013	0.0503	123	0.0110
Other General Industrial Equipmer	15	0.0391	0.0066	0.0466	0.0001	0.0026	6.4	0.0006
	25	0.0632	0.0188	0.1207	0.0002	0.0072	15.3	0.0017
	50	0.3211	0.1421	0.2473	0.0003	0.0308	21.7	0.0128
	120	0.4723	0.1605	0.8979	0.0007	0.0854	62.0	0.0145
	175	0.5860	0.1647	1.2490	0.0011	0.0726	95.9	0.0149
	250	0.4131	0.1553	1.6545	0.0015	0.0579	136	0.0140
	500	0.9583	0.2735	2.8780	0.0026	0.1032	265	0.0247
	750	1.5794	0.4552	4.8663	0.0044	0.1724	437	0.0411
	1000	2.5724	0.6979	7.5922	0.0056	0.2387	560	0.0630
Other General Industrial Equipmen Composite		0.6617	0.2025	1.8248	0.0016	0.0815	152	0.0183

SCAB Fleet Average Emission Factors (Diesel)

Calendar Year: **2008**
Air Basin **South Coast**

		(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)
Equipment	**MaxHP**	**CO**	**ROG**	**NOX**	**SOX**	**PM**	**CO2**	**CH4**
Other Material Handling Equipmer	50	0.4431	0.1961	0.3438	0.0004	0.0426	30.3	0.0177
	120	0.4596	0.1558	0.8749	0.0007	0.0827	60.7	0.0141
	175	0.7420	0.2078	1.5840	0.0014	0.0915	122	0.0188
	250	0.4403	0.1646	1.7636	0.0016	0.0616	145	0.0149
	500	0.6904	0.1952	2.0733	0.0019	0.0741	192	0.0176
	9999	3.4021	0.9197	10.0283	0.0073	0.3143	741	0.0830
Other Material Handling Equipment Composite		0.6041	0.1952	1.7655	0.0015	0.0786	141	0.0176
Pavers	25	0.0930	0.0329	0.1706	0.0002	0.0112	18.7	0.0030
	50	0.4041	0.1797	0.3191	0.0004	0.0386	28.0	0.0162
	120	0.5356	0.1823	1.0659	0.0008	0.0924	69.2	0.0164
	175	0.8121	0.2253	1.7679	0.0014	0.0977	128	0.0203
	250	0.7767	0.2693	2.5756	0.0022	0.1066	194	0.0243
	500	1.3755	0.2880	2.7966	0.0023	0.1134	233	0.0260
Pavers Composite		0.5874	0.1963	1.0796	0.0009	0.0769	77.9	0.0177
Paving Equipment	25	0.0532	0.0166	0.1061	0.0002	0.0063	12.6	0.0015
	50	0.3426	0.1525	0.2722	0.0003	0.0328	23.9	0.0138
	120	0.4189	0.1425	0.8352	0.0006	0.0721	54.5	0.0129
	175	0.6336	0.1757	1.3860	0.0011	0.0760	101	0.0159
	250	0.4852	0.1678	1.6129	0.0014	0.0665	122	0.0151
Paving Equipment Composite		0.4616	0.1479	0.9857	0.0008	0.0681	69.0	0.0133
Plate Compactors	15	0.0263	0.0052	0.0328	0.0001	0.0021	4.3	0.0005
Plate Compactors Composite		0.0263	0.0052	0.0328	0.0001	0.0021	4.3	0.0005
Pressure Washers	15	0.0359	0.0091	0.0592	0.0001	0.0037	4.9	0.0008
	25	0.0448	0.0135	0.0717	0.0001	0.0048	7.1	0.0012
	50	0.1197	0.0466	0.1429	0.0002	0.0126	14.3	0.0042
	120	0.1514	0.0438	0.2928	0.0003	0.0209	24.1	0.0040
Pressure Washers Composite		0.0692	0.0223	0.1049	0.0001	0.0077	9.4	0.0020
Pumps	15	0.0545	0.0161	0.0924	0.0001	0.0070	7.4	0.0015
	25	0.1221	0.0485	0.1954	0.0002	0.0146	19.5	0.0044
	50	0.3563	0.1479	0.3574	0.0004	0.0359	34.3	0.0133
	120	0.5221	0.1605	1.0065	0.0009	0.0798	77.9	0.0145
	175	0.7547	0.1888	1.6251	0.0016	0.0792	140	0.0170
	250	0.5452	0.1823	2.1931	0.0023	0.0688	201	0.0165
	500	1.1093	0.2801	3.4347	0.0034	0.1090	345	0.0253
	750	1.8340	0.4762	5.8162	0.0057	0.1825	571	0.0430
	9999	5.5294	1.4880	16.8363	0.0136	0.5197	1,355	0.1343
Pumps Composite		0.3194	0.1040	0.5999	0.0006	0.0424	49.6	0.0094
Rollers	15	0.0386	0.0074	0.0469	0.0001	0.0029	6.3	0.0007
	25	0.0562	0.0175	0.1121	0.0002	0.0067	13.3	0.0016
	50	0.3348	0.1438	0.2839	0.0003	0.0323	26.0	0.0130
	120	0.4271	0.1363	0.8203	0.0007	0.0703	59.0	0.0123
	175	0.6345	0.1653	1.3433	0.0012	0.0717	108	0.0149
	250	0.5083	0.1750	1.8153	0.0017	0.0684	153	0.0158
	500	0.9142	0.2235	2.3380	0.0022	0.0880	219	0.0202
Rollers Composite		0.4341	0.1328	0.8607	0.0008	0.0601	67.1	0.0120
Rough Terrain Forklifts	50	0.4479	0.1873	0.3678	0.0004	0.0427	33.9	0.0169
	120	0.4543	0.1404	0.8292	0.0007	0.0757	62.4	0.0127
	175	0.7353	0.1859	1.4705	0.0014	0.0829	125	0.0168
	250	0.4855	0.1745	1.9002	0.0019	0.0661	171	0.0157
	500	0.8189	0.2357	2.5155	0.0025	0.0905	257	0.0213
Rough Terrain Forklifts Composite		0.4869	0.1469	0.9051	0.0008	0.0759	70.3	0.0133
Rubber Tired Dozers	175	0.8866	0.2603	1.9566	0.0015	0.1120	129	0.0235
	250	0.8463	0.3011	2.6790	0.0021	0.1179	183	0.0272
	500	1.9869	0.3895	3.5050	0.0026	0.1495	265	0.0351
	750	2.9735	0.5869	5.3537	0.0040	0.2260	399	0.0530
	1000	4.7521	0.9153	9.0204	0.0060	0.3279	592	0.0826
Rubber Tired Dozers Composite		1.5961	0.3644	3.2672	0.0025	0.1409	239	0.0329

SCAB Fleet Average Emission Factors (Diesel)

Calendar Year: **2008**
Air Basin **South Coast**

		(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)
Equipment	**MaxHP**	**CO**	**ROG**	**NOX**	**SOX**	**PM**	**CO2**	**CH4**
Rubber Tired Loaders	25	0.0699	0.0212	0.1381	0.0002	0.0082	16.9	0.0019
	50	0.4267	0.1812	0.3437	0.0004	0.0406	31.1	0.0163
	120	0.4364	0.1384	0.8116	0.0007	0.0737	58.9	0.0125
	175	0.6383	0.1659	1.3029	0.0012	0.0733	106	0.0150
	250	0.4680	0.1674	1.7361	0.0017	0.0640	149	0.0151
	500	0.8884	0.2394	2.4484	0.0023	0.0919	237	0.0216
	750	1.8129	0.4955	5.1493	0.0049	0.1905	486	0.0447
	1000	2.5959	0.6887	7.7048	0.0060	0.2364	594	0.0621
Rubber Tired Loaders Composite		0.5369	0.1626	1.3014	0.0012	0.0728	109	0.0147
Scrapers	120	0.7352	0.2502	1.4405	0.0011	0.1289	93.9	0.0226
	175	0.9463	0.2636	2.0299	0.0017	0.1150	148	0.0238
	250	0.8161	0.2889	2.7553	0.0024	0.1128	209	0.0261
	500	1.7915	0.3979	3.8004	0.0032	0.1538	321	0.0359
	750	3.0787	0.6903	6.6917	0.0056	0.2675	555	0.0623
Scrapers Composite		1.4219	0.3505	3.2269	0.0027	0.1391	263	0.0316
Signal Boards	15	0.0377	0.0072	0.0450	0.0001	0.0025	6.2	0.0006
	50	0.3989	0.1661	0.3791	0.0005	0.0396	36.2	0.0150
	120	0.5473	0.1679	1.0392	0.0009	0.0854	80.2	0.0151
	175	0.8499	0.2118	1.7913	0.0017	0.0908	155	0.0191
	250	0.6902	0.2346	2.7794	0.0029	0.0895	255	0.0212
Signal Boards Composite		0.0965	0.0244	0.1739	0.0002	0.0104	16.7	0.0022
Skid Steer Loaders	25	0.0774	0.0292	0.1321	0.0002	0.0093	13.8	0.0026
	50	0.2724	0.1007	0.2552	0.0003	0.0259	25.5	0.0091
	120	0.2886	0.0756	0.4848	0.0005	0.0421	42.8	0.0068
Skid Steer Loaders Composite		0.2647	0.0879	0.3209	0.0004	0.0300	30.3	0.0079
Surfacing Equipment	50	0.1602	0.0668	0.1495	0.0002	0.0157	14.1	0.0060
	120	0.4436	0.1362	0.8544	0.0007	0.0686	63.8	0.0123
	175	0.4852	0.1206	1.0245	0.0010	0.0516	85.8	0.0109
	250	0.4314	0.1424	1.5397	0.0015	0.0555	135	0.0129
	500	0.9084	0.2091	2.2929	0.0022	0.0826	221	0.0189
	750	1.4188	0.3341	3.6763	0.0035	0.1305	347	0.0301
Surfacing Equipment Composite		0.7086	0.1751	1.7497	0.0017	0.0674	166	0.0158
Sweepers/Scrubbers	15	0.0729	0.0124	0.0870	0.0002	0.0049	11.9	0.0011
	25	0.0811	0.0245	0.1604	0.0002	0.0095	19.6	0.0022
	50	0.4265	0.1831	0.3449	0.0004	0.0410	31.6	0.0165
	120	0.5472	0.1758	0.9960	0.0009	0.0956	75.0	0.0159
	175	0.8121	0.2154	1.6539	0.0016	0.0964	139	0.0194
	250	0.3965	0.1512	1.7857	0.0018	0.0552	162	0.0136
Sweepers/Scrubbers Composite		0.5575	0.1830	0.9678	0.0009	0.0778	78.5	0.0165
Tractors/Loaders/Backhoes	25	0.0716	0.0237	0.1396	0.0002	0.0086	15.9	0.0021
	50	0.3831	0.1537	0.3222	0.0004	0.0362	30.3	0.0139
	120	0.3703	0.1083	0.6510	0.0006	0.0595	51.7	0.0098
	175	0.5903	0.1405	1.1212	0.0011	0.0634	101	0.0127
	250	0.4453	0.1598	1.7937	0.0019	0.0598	172	0.0144
	500	0.9591	0.2897	3.1387	0.0039	0.1102	345	0.0261
	750	1.4353	0.4409	4.8706	0.0058	0.1681	517	0.0398
Tractors/Loaders/Backhoes Composite		0.4063	0.1204	0.7746	0.0008	0.0599	66.8	0.0109
Trenchers	15	0.0517	0.0099	0.0617	0.0001	0.0034	8.5	0.0009
	25	0.1360	0.0412	0.2685	0.0004	0.0159	32.9	0.0037
	50	0.4556	0.2019	0.3714	0.0004	0.0438	32.9	0.0182
	120	0.4963	0.1678	0.9961	0.0008	0.0837	64.9	0.0151
	175	0.9026	0.2480	1.9770	0.0016	0.1068	144	0.0224
	250	0.9009	0.3077	2.9500	0.0025	0.1227	223	0.0278
	500	1.9131	0.3821	3.7465	0.0031	0.1515	311	0.0345
	750	3.5858	0.7263	7.1748	0.0059	0.2867	587	0.0655
Trenchers Composite		0.5080	0.1851	0.8237	0.0007	0.0688	58.7	0.0167

SCAB Fleet Average Emission Factors (Diesel)

Calendar Year: **2008**
Air Basin **South Coast**

Equipment	MaxHP	(lb/hr) CO	(lb/hr) ROG	(lb/hr) NOX	(lb/hr) SOX	(lb/hr) PM	(lb/hr) CO2	(lb/hr) CH4
Welders	15	0.0456	0.0135	0.0772	0.0001	0.0058	6.2	0.0012
	25	0.0707	0.0281	0.1131	0.0001	0.0085	11.3	0.0025
	50	0.3128	0.1344	0.2792	0.0003	0.0308	26.0	0.0121
	120	0.2778	0.0891	0.5338	0.0005	0.0456	39.5	0.0080
	175	0.5548	0.1456	1.1927	0.0011	0.0625	98.2	0.0131
	250	0.3403	0.1192	1.3579	0.0013	0.0454	119	0.0108
	500	0.5771	0.1495	1.7272	0.0016	0.0583	168	0.0135
Welders Composite		0.2309	0.0882	0.3102	0.0003	0.0288	25.6	0.0080

Source: SCAQMD CEQA Handbook and Supplemental Data, accessed on October 8, 2009, at:
http://www.aqmd.gov/ceqa/handbook/offroad/offroad.html
File: offroadEF07-25.xls

The A9-8 tables of the 1993 Handbook provide a methodology and emission factors for calculating off-road mobile source emissions from equipment such as loaders, tractors, dozers, graders, etc. Using this methodology requires relatively detailed knowledge of the types of equipment that may be used as part of a proposed project. The CEQA practitioner may use the 1993 Handbook methodology to calculate off-road mobile source emissions. Alternatively, to simplify calculating off-road mobile source emissions the CEQA practitioner may use the composite off-road emission factors from CARB's Off-Road Model. The composite off road emission factors were derived based on the equipment category (tractor, dozer, scraper, etc.), average fleet make-up for each year through 2020, vehicle population (number) in each equipment category by horsepower rating and load factor. Two types of composite emission factors have been developed - composite and horsepower-based composite factors.

Composite emission factors have horsepower rating and load factors already built into the emission factors, so the CEQA practitioner does not necessarily need to know these two parameters when calculating off-road mobile source emissions. Horsepower-based composite factors have load factor ratings built into the emission factors. The CEQA practitioner can choose the appropriate equipment by horsepower rating, if this is known, to tailor the analysis of the proposed project to more accurately estimate emissions. Daily emissions are calculated as follows.

E = n x H x EF :where:

E = emission in pounds per day

n = number of pieces of equipment in a specified equipment category

H = hours per day of equipment operation

EF = the off-road mobile source emission factor by equipment category or horsepower-based equipment category in pounds per hour (Off-road Mobile Source Emission Factors Scenario Years 2007 – 2025)

2008

On-Road Vehicles	CO (lb/mi)	ROG (lb/mi)	NOx (lb/mi)	SOx (lb/mi)	PM10 (lb/mi)	PM2.5 (lb/mi)	CO2 (lb/mi)
Passenger Vehicle, Gas (<8500 lb)	0.010548	0.001079	0.001103	0.000011	0.000085	0.000053	1.099532
Delivery Vehicle, Gas (>8500 lb)	0.021949	0.002993	0.023713	0.000026	0.000856	0.000739	2.719434
HHDD Vehicle, Diesel (33,001 to 60,000 lb)	0.013614	0.003516	0.044580	0.000041	0.002156	0.001900	4.210671
Paved Road Dust, All					0.000816	0.000138	
	CO (lb/hr)	**ROG (lb/hr)**	**NOx (lb/hr)**	**SOx (lb/hr)**	**PM10 (lb/hr)**	**PM2.5 (lb/hr)**	**CO2 (lb/hr)**
HHDD Vehicle, Idling (33,001 to 60,000 lb)	0.110238	0.030411	0.235250	0.000139	0.004740	0.004361	14.588362

Sources: SCAQMD CEQA Handbook and Supplemental Data, accessed on October 8, 2009, at:
http://www.aqmd.gov/ceqa/handbook/onroad/onroad.html;
Paved Road Fugitive Dust from "Improvement of Specific Emission Factors (BACM Project No. 1) Final Report," MRI, 1996; and
EMFAC 2007 Model Output for 2011 HHDT Idle (0 mph) emissions at 60 F and 60% RH.
Files: **onroadEF07-26.xls; onroadEFHHDT07_26.xls**

Highest (Most Conservative) EMFAC2007 (version 2.3) Emission Factors for On-Road Passenger Vehicles & Delivery Trucks

Projects in the SCAQMD (Scenario Years 2007 - 2026)
Derived from Peak Emissions Inventory (**Winter**, **Annual**, **Summer**)

Vehicle Class:
Passenger Vehicles (<8500 pounds) & Delivery Trucks (>8500 pounds)

The following emission factors were compiled by running the California Air Resources Board's EMFAC2007 (version 2.3) Burden Model, taking the weighted average of vehicle types and simplifying into two categories:
Passenger Vehicles & Delivery Trucks.

These emission factors can be used to calculate on-road mobile source emissions for the vehicle categories listed in the tables below, by use of the following equation:
Emissions (pounds per day) = N x TL x EF
where N = number of trips, TL = trip length (miles/day), and EF = emission factor (pounds per mile)

This methodology replaces the old EMFAC emission factors in Tables A-9-5-J-1 through A-9-5-L in Appendix A9 of the current SCAQMD CEQA Handbook. All the emission factors account for the emissions from start, running and idling exhaust. In addition, the ROG emission factors include diurnal, hot soak, running and resting emissions, and the PM10 & PM2.5 emission factors include tire and brake wear.

Scenario Year: 2008
All model years in the range 1965 to 2008

Passenger Vehicles (pounds/mile)	
CO	**0.01054844**
NOx	**0.00110288**
ROG	**0.00107919**
SOx	**0.00001075**
PM10	**0.00008505**
PM2.5	**0.00005293**
CO2	**1.09953226**
CH4	**0.00009465**

Delivery Trucks (pounds/mile)	
CO	**0.02194915**
NOx	**0.02371258**
ROG	**0.00299270**
SOx	**0.00002565**
PM10	**0.00085607**
PM2.5	**0.00073933**
CO2	**2.71943400**
CH4	**0.00014769**

Highest (Most Conservative) EMFAC2007 (version 2.3) Emission Factors for On-Road Heavy-Heavy-Duty Diesel Trucks

Projects in the SCAQMD (Scenario Years 2007 - 2026)
Derived from Peak Emissions Inventory (**Winter**, **Annual**, **Summer**)

Vehicle Class:

Heavy-Heavy-Duty Diesel Trucks (33,001 to 60,000 pounds)

The following emission factors were compiled by running the California Air Resources Board's EMFAC2007 (version 2.3) Burden Model and extracting the **Heavy-Heavy-Duty Diesel Truck (HHDT)** Emission Factors.

These emission factors can be used to calculate on-road mobile source emissions for the vehicle/emission categories listed in the tables below, by use of the following equation:

Emissions (pounds per day) = N x TL x EF

where N = number of trips, TL = trip length (miles/day), and EF = emission factor (pounds per mile)

The **HHDT-DSL** vehicle/emission category accounts for all emissions from heavy-heavy-duty diesel trucks, including start, running and idling exhaust. In addition, ROG emission factors account for diurnal, hot soak, running and resting emissions, and the PM10 & PM2.5 emission factors account for tire and brake wear.

The **HHDT-DSL, Exh** vehicle/emission category includes only the exhaust portion of PM10 & PM2.5 emissions from heavy-heavy-duty diesel trucks.

Scenario Year: 2008
All model years in the range 1965 to 2008

HHDT-DSL (pounds/mile)	
CO	0.01361368
NOx	0.04458017
ROG	0.00351579
SOx	0.00004136
PM10	0.00215635
PM2.5	0.00189990
CO2	4.21067145
CH4	0.00016269

HHDT-DSL, Exh (pounds/mile)	
PM10	0.00201296
PM2.5	0.00185303

* Includes tire wear and brake wear in PM10 and PM2.5 factors.

Paved Road Fugitive Dust from "Improvement of Specific Emission Factors (BACM Project No. 1) Final Report," MRI, 1996.

Paved Road Dust, lb/mi	
PM10	0.00081571
PM2.5	0.00013774

Used High ADT, average conditions:

9/26/2002

CALIFORNIA EMISSION INVENTORY AND REPORTING SYSTEM (CEIDARS)
-- Particulate Matter (PM) Speciation Profiles --
SUMMARY OF OVERALL SIZE FRACTIONS AND REFERENCE DOCUMENTATION

			NEW		FRACTION	FRACTION
PM2.5/PM10	PM PROFILE ID	PM_PROFILE_NAME	FORMAT	SOURCE_REF	< PM 10	< PM 2.5
0.991	114	STAT. I.C. ENGINE-DIST/DIESEL	N	KVB	0.976	0.967
0.976	116	STAT. I.C. ENGINE-DIESEL	N	KVB	0.960	0.937
0.976	119	MARINE VESSELS-LIQUID FUEL	N	KVB	0.960	0.937
1.000	120	GASEOUS MATERIAL COMBUSTION	N	KVB	1.000	1.000
1.000	121	RESIDENTIAL-NATURAL GAS	N	KVB	1.000	1.000
0.928	400	GASOLINE VEHICLES-CATALYST	N	KVB	0.970	0.900
0.920	425	DIESEL VEHICLE EXHAUST	Y	OMNI	1.000	0.920
0.212	470	UNPAVED ROAD DUST (1997 AND AFTER)	Y	CRPAQS	0.594	0.126
0.169	471	PAVED ROAD DUST (1997 AND AFTER)	Y	CRPAQS	0.457	0.077

Title : IDLING HHDT
Version : Emfac2007 V2.3 Nov 1 2006
Run Date : 2009/11/13 10:47:01
Scen Year: 2008 -- All model years in the range 1965 to 2008 selected
Season : Annual
Area : Orange
****

Year:,2008,, -- Model Years,,1965, to ,2008, Inclusive --,,,Annual
Emfac2007 Emission Factors: V2.3 Nov 1 2006
County Average,,,,, Orange,,,,,,County Average
,,,,Table 1: Running Exhaust Emissions (grams/mile; grams/idle-hour)

Pollutant Name: Reactive Org Gases,,,,Temperature: 60F,,Relative Humidity: 60%

Speed MPH	HHD DSL
0	13.794

Pollutant Name: Carbon Monoxide,,,,Temperature: 60F,,Relative Humidity: 60%

Speed MPH	HHD DSL
0	50.003

Pollutant Name: Oxides of Nitrogen,,,,Temperature: 60F,,Relative Humidity: 60%

Speed MPH	HHD DSL
0	106.707

Pollutant Name: Carbon Dioxide,,,,Temperature: 60F,,Relative Humidity: 60%

Speed MPH	HHD DSL
0	6617.135

Pollutant Name: Sulfur Dioxide,,,,Temperature: 60F,,Relative Humidity: 60%

Speed MPH	HHD DSL
0	0.063

Pollutant Name: PM10,,,,Temperature: 60F,,Relative Humidity: 60%

Speed MPH	HHD DSL
0	2.15

Pollutant Name: PM2.5,,,,Temperature: 60F,,Relative Humidity: 60%

Speed MPH	HHD DSL
0	1.978

Newport Banning Ranch
Unpaved Road Dust

$E = k\ (s/12)^a (W/3)^b$

E = size-specific emission factor (lb/VMT)
s = surface material silt content (%)
W = mean vehicle weight (tons)
k, a, b = empirical constants

	PM10	PM2.5
s	2	2
W	20	20
a	0.9	0.9
b	0.45	0.45
k	1.5	0.15

	PM10	PM2.5
lbs/mi	0.702286	0.070229

Source: U.S. Environmental Protection Agency, AP-42, "Compilation of Air Pollutant Emission Factors - Volume I: Stationary Point and Area Sources," Chapter 13, Section 13.2.2 - Unpaved Roads, November 2006.

Newport Banning Ranch
Mobile Equipment Baseline TAC Inventory

Emission Rates

Onsite	VOC		PM10		
Equipment	lbs/day	lbs/yr	lbs/day	lbs/yr	
City Diesel	2.69	7.95	1.47	3.87	<- Diesel PM
WNOC Diesel	6.78	561.71	2.30	224.29	<- Diesel PM
City Gasoline	-	-	-	-	
WNOC Gasoline	0.01	102.42	0.0	8.07	
Unpaved Road Dust	NA	NA	77.25	2,307.01	
Mowing Diesel	0.84	10.12	0.38	4.57	<- Diesel PM

PM10 - CARB Toxics

	ARSENIC	*BROMINE*	*CADMIUM*	*CHLORINE*	*CHROMIUM VI*	*COPPER*	*LEAD*	*MANGANESE*	*MERCURY*	*NICKEL*	*SELENIUM*	*SULFATES*	*VANADIUM*
	lbs/day	*lbs/day*	*lbs/day*	*lbs/day*	*lbs/day*	*lbs/day*	*lbs/day*	*lbs/day*	*lbs/day*	*lbs/day*	*lbs/day*	*lbs/day*	*lbs/day*
City Diesel	7.35E-06	2.65E-05	5.88E-05	5.06E-04	2.52E-06	3.68E-05	6.18E-05	5.88E-05	4.41E-05	2.79E-05	1.47E-05	2.56E-02	4.26E-05
WNOC Diesel	1.15E-05	4.15E-05	9.22E-05	7.93E-04	3.95E-06	5.76E-05	9.68E-05	9.22E-05	6.91E-05	4.38E-05	2.30E-05	4.02E-02	6.68E-05
City Gasoline	-	-	-	-	-	-	-	-	-	-	-	-	-
WNOC Gasoline	-	2.13E-07	-	2.98E-05	3.04E-08	2.13E-07	-	2.13E-07	-	2.13E-07	-	1.91E-04	-
Unpaved Road Dust	1.16E-03	1.39E-03	1.00E-03	6.52E-02	1.88E-04	1.22E-02	1.00E-02	7.07E-02	1.08E-03	2.86E-03	2.32E-04	4.39E-01	5.95E-03
Mowing Diesel	1.90E-06	6.85E-06	1.52E-05	1.31E-04	6.52E-07	9.51E-06	1.60E-05	1.52E-05	1.14E-05	7.23E-06	3.80E-06	6.63E-03	1.10E-05
Total -->	**1.18E-03**	**1.47E-03**	**1.17E-03**	**6.67E-02**	**1.95E-04**	**1.23E-02**	**1.02E-02**	**7.09E-02**	**1.21E-03**	**2.94E-03**	**2.73E-04**	**5.12E-01**	**6.07E-03**
City	*7.35E-06*	*2.65E-05*	*5.88E-05*	*5.06E-04*	*2.52E-06*	*3.68E-05*	*6.18E-05*	*5.88E-05*	*4.41E-05*	*2.79E-05*	*1.47E-05*	*2.56E-02*	*4.26E-05*
WNOC	*1.15E-05*	*4.17E-05*	*9.22E-05*	*8.22E-04*	*3.98E-06*	*5.78E-05*	*9.68E-05*	*9.24E-05*	*6.91E-05*	*4.40E-05*	*2.30E-05*	*4.03E-02*	*6.68E-05*

	lbs/yr	*lbs/yr*	*lbs/yr*	*lbs/yr*	*lbs/yr*	*lbs/yr*	*lbs/yr*	*lbs/yr*	*lbs/yr*	*lbs/yr*	*lbs/yr*	*lbs/yr*	*lbs/yr*
City Diesel*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WNOC Diesel*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
City Gasoline	-	-	-	-	-	-	-	-	-	-	-	-	-
WNOC Gasoline	-	4.04E-03	-	5.65E-01	5.77E-04	4.04E-03	-	4.04E-03	-	4.04E-03	-	3.63E+00	-
Unpaved Road Dust	3.46E-02	4.15E-02	3.00E-02	1.95E+00	5.60E-03	3.65E-01	3.00E-01	2.11E+00	3.23E-02	8.54E-02	6.92E-03	1.31E+01	1.78E-01
Mowing Diesel*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total -->	**0.035**	**0.046**	**0.030**	**2.512**	**0.0062**	**0.369**	**0.300**	**2.115**	**0.032**	**0.089**	**0.007**	**16.748**	**0.178**
City	-	-	-	-	-	-	-	-	-	-	-	-	-
WNOC	-	*4.04E-03*	-	*5.65E-01*	*5.77E-04*	*4.04E-03*	-	*4.04E-03*	-	*4.04E-03*	-	*3.63E+00*	-

*Diesel chronic risk is calculated from total diesel PM10 emissions, not from its speciated exhaust TACs.

Newport Banning Ranch
Mobile Equipment Baseline TAC Inventory

VOC - CARB Toxics

	1,3-butadiene	acetaldehyde	acrolein	benzene	ethylbenzene	formaldehyde	methyl ethyl ketone (mek) (2-butanone)	n-hexane	propylene	m-xylene	o-xylene	p-xylene	isomers of xylene	styrene	toluene	methyl t-butyl ether (mt
	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
City Diesel	5.12E-03	1.98E-01	-	5.39E-02	8.21E-03	3.96E-01	3.98E-02	4.23E-03	6.99E-02	1.65E-02	9.02E-03	2.56E-03	2.80E-02	1.56E-03	3.97E-02	-
WNOC Diesel	1.29E-02	4.98E-01	-	1.36E-01	2.07E-02	9.97E-01	1.00E-01	1.06E-02	1.76E-01	4.14E-02	2.27E-02	6.44E-03	7.06E-02	3.93E-03	9.99E-02	-
City Gasoline	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WNOC Gasoline	2.97E-05	1.30E-05	7.28E-06	1.42E-04	5.78E-05	9.17E-05	1.03E-06	8.55E-05	1.69E-04	1.96E-04	6.83E-05	-	2.65E-04	6.80E-06	3.17E-04	1.05E-04
Mowing Diesel	1.60E-03	6.20E-02	-	1.69E-02	2.57E-03	1.24E-01	1.25E-02	1.32E-03	2.19E-02	5.15E-03	2.82E-03	8.01E-04	8.78E-03	4.89E-04	1.24E-02	-
Total -->	**0.0196**	**0.7585**	**0.0000**	**0.2065**	**0.0315**	**1.5178**	**0.1523**	**0.0163**	**0.2680**	**0.0632**	**0.0346**	**0.0098**	**0.1076**	**0.0060**	**0.1523**	**0.0001**
City	*5.12E-03*	*1.98E-01*	-	*5.39E-02*	*8.21E-03*	*3.96E-01*	*3.98E-02*	*4.23E-03*	*6.99E-02*	*1.65E-02*	*9.02E-03*	*2.56E-03*	*2.80E-02*	*1.56E-03*	*3.97E-02*	-
WNOC	*1.29E-02*	*4.98E-01*	*7.28E-06*	*1.36E-01*	*2.07E-02*	*9.98E-01*	*1.00E-01*	*1.07E-02*	*1.76E-01*	*4.16E-02*	*2.28E-02*	*6.44E-03*	*7.08E-02*	*3.94E-03*	*1.00E-01*	*1.05E-04*

*Diesel chronic risk is calculated from total diesel PM10 emissions, not from its speciated exhaust TACs - No VOC TACs from diesel equipment are analyzed separately for cancer and chronic non-cancer risks.

	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr
City Diesel*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WNOC Diesel*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
City Gasoline	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WNOC Gasoline	5.63E-01	2.47E-01	1.38E-01	2.70E+00	1.10E+00	1.74E+00	1.95E-02	1.62E+00	3.20E+00	3.73E+00	1.30E+00	-	5.02E+00	1.29E-01	6.02E+00	1.99E+00
Mowing Diesel*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total -->	5.63E-01	2.47E-01	1.38E-01	2.70E+00	1.10E+00	1.74E+00	1.95E-02	1.62E+00	3.20E+00	3.73E+00	1.30E+00	-	5.02E+00	1.29E-01	6.02E+00	1.99E+00
City	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WNOC	*0.56*	*0.25*	*0.14*	*2.70E+00*	*1.10E+00*	*1.74E+00*	*1.95E-02*	*1.62E+00*	*3.20E+00*	*3.73E+00*	*1.30E+00*	-	*5.02E+00*	*1.29E-01*	*6.02E+00*	*1.99E+00*

Pounds per Hour (lbs/hr)	**diesel particulate matter**	**ammonia**	**ARSENIC**	**CADMIUM**	**CHROMIUM VI**	**1,3-butadiene**	**acetaldehyde**	**benzene**	**formaldehyde**	**SULFATES**	**PAHs, total, with components not reported**	**Chlorine**	**BROMINE**	**COPPER**	**LEAD**	**MANGANESE**	**VANADIUM**
MOW1	0.0022	-	0.000000011	0.000000090	0.0000000038	0.00000943	0.00036488	0.00009930	0.00073017	0.00003902	-	0.00000077	0.00000004	0.00000006	0.00000009	0.00000009	0.00000006
MOW2	0.0176	-	0.000000088	0.00000070	0.000000030	0.00007418	0.00287093	0.00078128	0.00574498	0.00030704	-	0.00000606	0.00000032	0.00000044	0.00000074	0.00000070	0.00000051
MOW3	0.0038	-	0.000000019	0.00000015	0.000000007	0.00001597	0.00061813	0.00016821	0.00123694	0.00006611	-	0.00000130	0.00000007	0.00000009	0.00000016	0.00000015	0.00000011
MOW4	0.0075	-	0.000000038	0.00000030	0.000000013	0.00003160	0.00122292	0.00033280	0.00244717	0.00013079	-	0.00000258	0.00000014	0.00000019	0.00000032	0.00000030	0.00000022
MOW5	0.0164	-	0.000000082	0.00000066	0.000000028	0.00006909	0.00267369	0.00072760	0.00535030	0.00028595	-	0.00000564	0.00000030	0.00000041	0.00000069	0.00000066	0.00000048
NBOPS	0.1838	0.02256164	0.00000092	0.00000735	0.00000032	0.00063951	0.0247490	0.02131723	0.04954554	0.00320405	0.00000034	0.00006324	0.00000331	0.00000460	0.00000772	0.00000735	0.00000533
WNOCEAST	0.1543	0.06640203	0.00000077	0.00000617	0.00000027	0.00086480	0.033392	0.01437941	0.06832690	0.00270272	0.00000551	0.00005509	0.00000279	0.00000387	0.00000648	0.00000619	0.00000448
WNOCFEST	-	-	0.00007763	0.00006728	0.00001257	-	-	-	-	0.02942001	-	0.00436772	0.00009315	0.00081765	0.00067275	0.00473515	0.00039848
WNOC_FNW	-	-	0.00006722	0.00005826	0.00001088	-	-	-	-	0.02547681	-	0.00378231	0.00008067	0.00070806	0.00058258	0.00410049	0.00034507
WNOC_NW	0.1336	0.05750208	0.00000067	0.00000535	0.00000023	0.00074889	0.02891601	0.01245212	0.05916896	0.00234047	0.0000048	0.00004770	0.00000242	0.00000335	0.00000561	0.00000536	0.00000388

Pounds per year (lbs/yr)	**diesel particulate matter**	**ammonia**	**ARSENIC**	**CADMIUM**	**CHROMIUM VI**	**1,3-butadiene**	**acetaldehyde**	**benzene**	**formaldehyde**	**SULFATES**	**PAHs, total, with components not reported**	**Chlorine**	**BROMINE**	**COPPER**	**LEAD**	**MANGANESE**	**VANADIUM**
MOW1	0.2149	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOW2	1.6912	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOW3	0.3641	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOW4	0.7204	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOW5	1.5750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NBOPS	3.86629	65.88	-	-	-	-	-	42.58	0.06	-	0.0010	-	-	-	-	-	-
WNOCEAST	120.19831	193.8939	-	-	0.00031	0.3019	0.1323	16.8736	5.3217	1.9466	0.0161	0.3028	0.0022	0.0022	-	0.0022	-
WNOCFEST	-	-	0.0185	0.0161	0.0030	-	-	-	-	7.0287	-	1.0435	0.0223	0.1953	0.1607	1.1313	0.0952
WNOC_FNW	-	-	0.0161	0.0139	0.0026	-	-	-	-	6.0866	-	0.9036	0.0193	0.1692	0.1392	0.9796	0.0824
WNOC_NW	104.08797	167.9061	-	-	0.00027	0.2614	0.1145	14.6120	4.6084	1.6857	0.0139	0.2622	0.0019	0.0019	-	0.0019	-

AERMOD Sources

ID	**Area (m^2)**		**Unit Emissions**
NBOPS	15,317		6.53E-05
WNOCEAST	557,941	54%	1.79E-06
WNOCFEST	557,941	54%	1.79E-06
WNOC_FNW	483,160	46%	2.07E-06
NWOC_NW	483,160	46%	2.07E-06
MOW1	23,272	5%	4.30E-05
MOW2	183,102	37%	5.46E-06
MOW3	39,423	8%	2.54E-05
MOW4	77,996	16%	1.28E-05
MOW5	170,523	34%	5.86E-06

	m2	*acres*
Total WNOC	1,041,101	257
Mowing	494,316	122

Input Adjustment
1.00E+00

8 hrs/day

Pounds per Hour (lbs/hr)	MERCURY	NICKEL	SELENIUM	acrolein	methyl ethyl ketone (mek) (2-butanone)	propylene	styrene	toluene	p-xylene	ethylbenzene	methyl t-butyl ether (mtbe)	m-xylene	n-hexane	o-xylene
MOW1	0.00000007	0.00000004	0.00000002	-	0.00007329	0.00012887	0.00000288	0.00007310	0.00000471	0.00001514	-	0.00003032	0.00000779	0.00001662
MOW2	0.00000053	0.00000033	0.00000018	-	0.00057668	0.00101398	0.00002265	0.00057512	0.00003709	0.00011909	-	0.00023856	0.00006130	0.00013080
MOW3	0.00000011	0.00000007	0.00000004	-	0.00012416	0.00021832	0.00000488	0.00012383	0.00000799	0.00002564	-	0.00005136	0.00001320	0.00002816
MOW4	0.00000023	0.00000014	0.00000008	-	0.00024565	0.00043192	0.00000965	0.00024498	0.00001580	0.00005073	-	0.00010162	0.00002611	0.00005572
MOW5	0.00000049	0.00000031	0.00000016	-	0.00053707	0.00094432	0.00002109	0.00053561	0.00003454	0.00011090	-	0.00022217	0.00005709	0.00012181
NBOPS	0.00000552	0.00000349	0.00000184	-	0.00497134	0.00874108	0.00019522	0.00495788	0.00031975	0.00102658	-	0.00205653	0.00052844	0.00112756
WNOCEAST	0.00000463	0.00000295	0.00000154	0.00000049	0.00670725	0.01180451	0.00026384	0.00671028	0.00043140	0.00138891	0.00000702	0.00278776	0.00071868	0.00152584
WNOCFEST	0.00007245	0.00019148	0.00001553	-	-	-	-	-	-	-	-	-	-	-
WNOC_FNW	0.00006274	0.00016581	0.00001344	-	-	-	-	-	-	-	-	-	-	-
WNOC_NW	0.00000401	0.00000255	0.00000134	0.00000042	0.00580827	0.01022234	0.00022848	0.00581090	0.00037358	0.00120275	0.00000608	0.00241412	0.00062235	0.00132133

Pounds per year (lbs/yr)	MERCURY	NICKEL	SELENIUM	acrolein	methyl ethyl ketone (mek) (2-butanone)	propylene	styrene	toluene	p-xylene	ethylbenzene	methyl t-butyl ether (mtbe)	m-xylene	n-hexane	o-xylene
MOW1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOW2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOW3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOW4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOW5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NBOPS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WNOCEAST	-	0.0022	-	0.0741	0.0104	1.7168	0.0692	3.2273	-	0.5884	1.0653	1.9978	0.8694	0.6943
WNOCFEST	0.0173	0.0457	0.0037	-	-	-	-	-	-	-	-	-	-	-
WNOC_FNW	0.0150	0.0396	0.0032	-	-	-	-	-	-	-	-	-	-	-
WNOC_NW	-	0.0019	-	0.0642	0.0090	1.4867	0.0599	2.7947	-	0.5095	0.9225	1.7301	0.7529	0.6012

Profile 425 - DIESEL VEHICLE EXHAUST

CHEMICAL NAME	SPECIE	CAS	SAROAD	WEIGHT % of PM TOTAL	WEIGHT % of PM 10	PM10 FRACTION	WEIGHT % of PM 2.5	CARB?
ARSENIC	AS	7440382	12103	0.00040	0.00050	0.00001	0.0013	Y
BROMINE	BR	7726956	12109	0.00110	0.00180	0.00002	0.0005	Y
CADMIUM	CD	7440439	12110	0.00670	0.00400	0.00004	0.0069	Y
CHLORINE	CL	7782505	12115	0.02740	0.03440	0.00034	0.0519	Y
COPPER	CU	7440508	12114	0.00300	0.00250	0.00003	0.0012	Y
LEAD	PB	7439921	12128	0.00300	0.00420	0.00004	0.0007	Y
CHROMIUM VI	CR6	7440473	12112	0.00014	0.00017	0.00000	0.00000	Y
MANGANESE	MN	7439965	12132	0.00230	0.00400	0.00004	0.0017	Y
MERCURY	HG	7439976	12142	0.00260	0.00300	0.00003	0.0015	Y
NICKEL	NI	7440020	12136	0.00160	0.00190	0.00002	0.0004	Y
SELENIUM	SE	7782492	12154	0.00050	0.00100	0.00001	0.0002	Y
SULFATES	SO4	14808798	12403	1.82500	1.74290	0.01743	1.8638	Y
VANADIUM	V	7440622	12164	0.00150	0.00290	0.00003	0.0022	Y
AMMONIUM ION	NH4	14798039	12301	0.3297	0.3369		0.3322	N
CHROMIUM	CR	7440473	12112	0.001	0.0012		0	N
SILICON	SI	7440213	12165	0.2869	0.2488		0.1427	N
ALUMINUM	AL	7429905	12101	0.0312	0.0176		0	N
ANTIMONY	SB	7440360	12102	0.0139	0.0036		0.0151	N
BARIUM	BA	7440393	12107	0.0518	0.0251		0.0394	N
CALCIUM	CA	7440702	12111	0.0884	0.0548		0.0318	N
ELEM CARBON	C(E)	7440440	12116	25.7133	26.1005		26.4363	N
ORGANIC CARBON	C(ORG)		11102	68.7109	68.8796		69.3523	N
CARBONATE ION	R2CO3		12501	0.0592	0.0119		0.0963	N
COBALT	CO	7440484	12113	0.0006	0.0011		0.0008	N
GALLIUM	GA	7440553	12124	0	0.0008		0	N
INDIUM	IN	7440746	12131	0.0051	0.0057		0.0123	N
IRON	FE	7439896	12126	0.1018	0.0525		0.0132	N
LANTHANUM	LA	7439910	12146	0.0436	0.0181		0.0595	N
MOLYBDENUM	MO	7439987	12134	0	0.0006		0	N
NITRATES	NO3	14797558	12306	0.0357	0.0291		0.0278	N
PALLADIUM	PD	7440053	12151	0.0003	0.0016		0.003	N
PHOSPHOROUS	P	7723140	12152	0.0123	0.0127		0.0056	N
POTASSIUM	K	7440097	12180	0.0259	0.0154		0.0034	N
RUBIDIUM	RB	7440177	12176	0.0008	0.0007		0.0005	N
SILVER	AG	7440224	12166	0.0015	0.0028		0.0073	N
SODIUM	NA	7440235	12184	0.0298	0.0224		0.0343	N
STRONTIUM	SR	7440246	12168	0.0014	0.0014		0.0005	N
SULFUR	S	7704349	12169	1.2727	1.3269		1.2517	N
TIN	SN	7440315	12160	0.0049	0.008		0.011	N
TITANIUM	TI	7440326	12161	0.0107	0.0054		0.0028	N
YTTRIUM	Y	7440655	12183	0.0003	0.0012		0.0006	N
ZINC	ZN	7440666	12167	0.04	0.0438		0.0278	N
ZIRCONIUM	ZR	7440677	12185	0.0011	0.0008		0.0025	N
UNKNOWN	UNK		12000	3.0764	2.71		2.0217	N
				100.0013	100.0012		100.0009	

Profile 400 - GASOLINE VEHICLES-CATALYST

CHEMICAL NAME	SPECIE	CAS	SAROAD	WEIGHT % of PM TOTAL	WEIGHT % of PM 10	PM10 FRACTION	WEIGHT % of PM 2.5	CARB?
BROMINE	BR	7726956	12109	0.05	0.05	0.00050	0.05	Y
CHLORINE	CL	7782505	12115	7	7	0.07000	7	Y
COPPER	CU	7440508	12114	0.05	0.05	0.00050	0.05	Y
MANGANESE	MN	7439965	12132	0.05	0.05	0.00050	0.05	Y
NICKEL	NI	7440020	12136	0.05	0.05	0.00050	0.05	Y
SULFATES	SO4	14808798	12403	45	45	0.45000	45	Y
CHROMIUM VI	CR6	7440473	12112	0.007	0.007	0.00007	0.007	Y
CHROMIUM	CR	7440473	12112	0.05	0.05		0.05	N
CALCIUM	CA	7440702	12111	0.55	0.55		0.55	N
COBALT	CO	7440484	12113	0.05	0.05		0.05	N
ELEM CARBON	C(E)	7440440	12116	20	20		20	N
IRON	FE	7439896	12126	0.05	0.05		0.05	N
NITRATES	NO3	14797558	12306	0.55	0.55		0.55	N
POTASSIUM	K	7440097	12180	0.55	0.55		0.55	N
ZINC	ZN	7440666	12167	0.05	0.05		0.05	N
OTHER	OTHER	99999	12999	25.95	25.95		25.95	N
				100	100		100	

Profile 470 - UNPAVED ROAD DUST, 1997 and after

CHEMICAL NAME	SPECIE	CAS	SAROAD	WEIGHT % of PM TOTAL	WEIGHT % of PM 10	PM10 FRACTION	WEIGHT % of PM 2.5	CARB?
ARSENIC	AS	7440382	12103	0.0015	0.0015	0.00002	0.0015	Y
BROMINE	BR	7726956	12109	0.0018	0.0018	0.00002	0.0018	Y
CADMIUM	CD	7440439	12110	0.0013	0.0013	0.00001	0.0013	Y
CHLORINE	CL	7782505	12115	0.0844	0.0844	0.000844	0.0844	Y
CHROMIUM VI	CR6			0.00024	0.00024	0.0000024	0.00024	Y
COPPER	CU	7440508	12114	0.0158	0.0158	0.000158	0.0158	Y
LEAD	PB	7439921	12128	0.013	0.013	0.00013	0.013	Y
MANGANESE	MN	7439965	12132	0.0915	0.0915	0.000915	0.0915	Y
MERCURY	HG	7439976	12142	0.0014	0.0014	0.000014	0.0014	Y
NICKEL	NI	7440020	12136	0.0037	0.0037	0.000037	0.0037	Y
SELENIUM	SE	7782492	12154	0.0003	0.0003	0.000003	0.0003	Y
VANADIUM	V	7440622	12164	0.0077	0.0077	0.000077	0.0077	Y
SULFATES	SO4	14808798	12403	0.5685	0.5685	0.005685	0.5685	Y
ALUMINUM	AL	7429905	12101	9.9408	9.9408	0.09941	9.9408	N
AMMONIUM ION	NH4	14798039	12301	0.1033	0.1033	0.00103	0.1033	N
ANTIMONY	SB	7440360	12102	0.0081	0.0081	0.00008	0.0081	N
BARIUM	BA	7440393	12107	0.0697	0.0697	0.00070	0.0697	N
CALCIUM	CA	7440702	12111	5.633	5.633	0.05633	5.633	N
ELEM CARBON	C(E)	7440440	12116	0.1164	0.1164	0.001164	0.1164	N
ORGANIC CARBON	C(ORG)		11102	3.3684	3.3684	0.033684	3.3684	N
CARBONATE ION	R2CO3		12501			0		N
CHROMIUM	CR	7440473	12112	0.0017	0.0017	0.000017	0.0017	N
COBALT	CO	7440484	12113	0.0005	0.0005	0.000005	0.0005	N
GALLIUM	GA	7440553	12124	0.0005	0.0005	0.000005	0.0005	N
GOLD	AU	7440575	12143	0.0011	0.0011	0.000011	0.0011	N
INDIUM	IN	7440746	12131	0	0	0	0	N
IRON	FE	7439896	12126	5.2316	5.2316	0.052316	5.2316	N
LANTHANUM	LA	7439910	12146	0.0812	0.0812	0.000812	0.0812	N
MAGNESIUM	MG	7439954	12140	0.7556	0.7556	0.007556	0.7556	N
MOLYBDENUM	MO	7439987	12134	0.001	0.001	0.00001	0.001	N
NITRATES	NO3	14797558	12306	0.752	0.752	0.00752	0.752	N
PALLADIUM	PD	7440053	12151	0.0007	0.0007	0.000007	0.0007	N
PHOSPHOROUS	P	7723140	12152	0.1096	0.1096	0.001096	0.1096	N
POTASSIUM	K	7440097	12180	2.7222	2.7222	0.027222	2.7222	N
RUBIDIUM	RB	7440177	12176	0.0141	0.0141	0.000141	0.0141	N
SILICON	SI	7440213	12165	32.4839	32.4839	0.324839	32.4839	N
SILVER	AG	7440224	12166	0	0	0	0	N
SODIUM	NA	7440235	12184	0.2687	0.2687	0.002687	0.2687	N
STRONTIUM	SR	7440246	12168	0.0423	0.0423	0.000423	0.0423	N
SULFUR	S	7704349	12169	0.2928	0.2928	0.002928	0.2928	N
THALLIUM	TL	7440280	12173	0.004	0.004	0.00004	0.004	N
TIN	SN	7440315	12160	0.0076	0.0076	0.000076	0.0076	N
TITANIUM	TI	7440326	12161	0.4289	0.4289	0.004289	0.4289	N
URANIUM	U	7440611	12179	0.0022	0.0022	0.000022	0.0022	N
YTTRIUM	Y	7440655	12183	0.0031	0.0031	0.000031	0.0031	N
ZINC	ZN	7440666	12167	0.0374	0.0374	0.000374	0.0374	N
ZIRCONIUM	ZR	7440677	12185	0.0117	0.0117	0.000117	0.0117	N
UNKNOWN	UNK		12000	37.2875	37.2875	0.372875	37.2875	N
POTASSIUM+(SOL)	K-A			0.1288	0.1288	0.001288	0.1288	N
CHLORIDE ION	CL-	16887006	12203	0.118	0.118	0.00118	0.118	N
PHOSPHATE	PO4	14265442		0.0157	0.0157	0.000157	0.0157	N

CHROMEVI to CHROMIUM 1/7

Profile 441 - Gasoline - catalyst - stabilized exhaust - ARB summer 2003					Profile 818 - Farm equipment - diesel - light & heavy - (ems=actual we				
CHEM_NAME	SAROAD	ORGFRAC	CAS	CARB?	CHEM_NAME	SAROAD	ORGFRAC	CAS	CARB?
1,3-butadiene	43218	0.0055	106990	Y	1,3-butadiene	43218	0.0019	106990	Y
acetaldehyde	43503	0.00241	75070	Y	acetaldehyde	43503	0.07353	75070	Y
acrolein	43505	0.00135	107028	Y	benzene	45201	0.02000998	71432	Y
benzene	45201	0.02636	71432	Y	ethylbenzene	45203	0.00305	100414	Y
ethylbenzene	45203	0.01072	100414	Y	formaldehyde	43502	0.14714	50000	Y
formaldehyde	43502	0.01698998	50000	Y	methyl ethyl ketone (mek) (2-butanone)	43552	0.01476998	78933	Y
methyl ethyl ketone (mek) (2-butanone)	43552	0.00019	78933	Y	m-xylene	45205	0.00611	108383	Y
methyl t-butyl ether (mtbe)	43378	0.01941	1634044	Y	n-hexane	43231	0.00157	110543	Y
m-xylene	45205	0.03639998	108383	Y	o-xylene	45204	0.00335	95476	Y
n-hexane	43231	0.01584	110543	Y	propylene	43205	0.02596998	115071	Y
o-xylene	45204	0.01264998	95476	Y	p-xylene	45206	0.00095	106423	Y
propylene	43205	0.03127998	115071	Y	styrene	45220	0.00058	100425	Y
styrene	45220	0.00126	100425	Y	toluene	45202	0.01473	108883	Y
toluene	45202	0.05879998	108883	Y	methyl n-butyl ketone	43559	0.00899	591786	N
propionaldehyde	43504	0.00039	123386	N	propionaldehyde	43504	0.0097	123386	N
1-(1,1-dimethylethyl)-3,5-dimethylbenzene	45256	0.0001	98191	N	(1-methylpropyl)benzene	45234	0.00051	135988	N
1,2,3,4-tetramethylbenzene	91109	0.00019	488233	N	(2-methylpropyl)benzene	45235	0.00126	538932	N
1,2,3,5-tetramethylbenzene	91104	0.00029	527537	N	1,2,3-trimethylbenzene	45225	0.0012	526738	N
1,2,3-trimethylbenzene	45225	0.00174	526738	N	1,2,4-trimethylbenzene	45208	0.0053	95636	N
1,2,4,5-tetramethylbenzene	91103	0.00019	95932	N	1,2-diethylbenzene (ortho)	98154	0.00086	135013	N
1,2,4-trimethylbenzene	45208	0.00985	95636	N	1,2-propadiene	43208	0.00466	463490	N
1,2,4-trimethylcyclopentene	43400	0.00126	2815589	N	1,3,5-trimethylbenzene	45207	0.00194	108678	N
1,2-butadiene {methylallene}	43221	0.0001	590192	N	1-butene	43213	0.00666	106989	N
1,2-dimethyl-3-ethylbenzene	45254	0.0001	933982	N	1-methyl-2-ethylbenzene	99915	0.00138	611143	N
1,2-dimethyl-4-ethylbenzene	45252	0.00106	934805	N	1-methyl-3-ethylbenzene	99912	0.00247	620144	N
1,2-propadiene	43208	0.00145	463490	N	1-pentene	43224	0.00324	109671	N
1,3,5-trimethylbenzene	45207	0.00396	108678	N	2,2,4-trimethylpentane	43276	0.00298	540841	N
1,3,5-trimethylcyclohexane	98061	0.00068	1839630	N	2,2-dimethylbutane	43291	0.00061	75832	N
1,3-diethylbenzene (meta)	45113	0.00029	141935	N	2,3,4-trimethylpentane	43279	0.00015	565753	N
1,3-dimethyl-4-ethylbenzene	45251	0.00048	874419	N	2,3-dimethyl-1-butene	43234	0.00028	563780	N
1,3-dimethyl-5-ethylbenzene	45257	0.00116	934747	N	2,3-dimethylhexane	98139	0.00011	584941	N
1,3-dipropylbenzene	45237	0.0001	17171721	N	2,3-dimethylpentane	43274	0.00073	565593	N
1,4-diethylbenzene (para)	45114	0.00068	105055	N	2,4-dimethylhexane	43277	0.00036	589435	N
1,4-dimethyl-2-ethylbenzene	45250	0.00048	1758889	N	2,4-dimethylpentane	43271	0.00019	108087	N
1-butene	43213	0.00425	106989	N	2-methylheptane	98140	0.00057	592278	N
1-hexene	43245	0.00048	592416	N	2-methylhexane	43275	0.00115	591764	N
1-methyl-2-ethylbenzene	99915	0.0028	611143	N	2-methylpentane	43229	0.00392	107835	N
1-methyl-2-isopropylbenzene	91096	0.00048	527844	N	3,3-dimethyl-1-butene	98169	0.0282	558372	N
1-methyl-2-n-butylbenzene	45243	0.0001		N	3-methylhexane	43295	0.00348	589344	N
1-methyl-2n-propylbenzene	98178	0.0001	1074175	N	3-methylpentane	43230	0.00115	96140	N
1-methyl-3-ethylbenzene	99912	0.00811	620144	N	acetone	43551	0.07507	67641	N
1-methyl-3-isopropylbenzene	98153	0.00029	535773	N	acetylene	43206	0.04254	74862	N
1-methyl-3n-propylbenzene	98152	0.00154	1074437	N	alkene ketone	98078	0.01749		N
1-methyl-4-ethylbenzene	99914	0.00338	622968	N	benzaldehyde	45501	0.00699	100527	N
1-methyl-4-ethylcyclohexane	92001	0.0001	6236880	N	b-methylstyrene	98020	0.00047	637503	N
1-pentene	43224	0.00135	109671	N	butyraldehyde	43510	0.01867998	123728	N
1-propyne	43209	0.00232	74997	N	c10 aromatics	98050	0.00079		N
2,2,3-trimethylbutane	43160	0.0001	464062	N	c5 aldehyde	43512	0.0011		N
2,2,4-trimethylheptane	98174	0.00019	14720742	N	c6 aldehydes	98095	0.03799		N
2,2,4-trimethylhexane	45222	0.00077	16747265	N	c9 aromatics	98049	0.00497		N
2,2,4-trimethylpentane	43276	0.01719	540841	N	cis-2-butene	43217	0.00094	590181	N
2,2,5-triethylheptane	43252	0.00058		N	cis-2-pentene	43227	0.0003	627203	N
2,2,5-trimethylhexane	98033	0.00319	3522949	N	cyclohexane	43248	0.00026	110827	N
2,2-dimethylbutane	43291	0.00637	75832	N	cyclohexanone	43264	0.00107	108941	N
2,2-dimethylhexane	98138	0.00068	590738	N	cyclopentane	43242	0.00012	287923	N
2,2-dimethyloctane	98175	0.0001	15869871	N	ethane	43202	0.00565	74840	N
2,3,4-trimethylpentane	43279	0.00599	565753	N	ethanol	43302	0.00009	64175	N
2,3,5-trimethylhexane	98141	0.00019	1069530	N	ethylene	43203	0.14377	74851	N
2,3-dimethyl-1-butene	43234	0.0001	563780	N	ethylhexane	90081	0.00061		N
2,3-dimethylbutane	98001	0.01051998	79298	N	indan	98044	0.00188	496117	N
2,3-dimethylhexane	98139	0.00241	584941	N	isobutane	43214	0.01221998	75285	N
2,3-dimethyloctane	98183	0.0001	7146603	N	isobutylene	43215	0.00922	115117	N
2,3-dimethylpentane	43274	0.01438998	565593	N	isomers of butylbenzene	45105	0.00127		N
2,4-dimethyl-2-pentene	90062	0.00019	625650	N	isomers of diethylbenzene	45106	0.00135		N
2,4-dimethylheptane	98142	0.00068	2213232	N	isopentane	98132	0.00602	78784	N

Profile 441 - Gasoline - catalyst - stabilized exhaust - ARB summer 2003				
CHEM_NAME	SAROAD	ORGFRAC	CAS	CARB?
2,4-dimethylhexane	43277	0.0027	589435	N
2,4-dimethyloctane	98149	0.00039	4032944	N
2,4-dimethylpentane	43271	0.00434	108087	N
2,5-dimethylhexane	43278	0.00338	592132	N
2,5-dimethyloctane	98176	0.00039	15869893	N
2,6-dimethylheptane	98157	0.00174	1072055	N
2,6-dimethyloctane	98177	0.0001	2051301	N
2-methyl-1-butene	43225	0.0029	563462	N
2-methyl-1-pentene	98040	0.00068	763291	N
2-methyl-2-butene	43228	0.00415	513359	N
2-methyl-2-pentene	98004	0.00077	625274	N
2-methyl-2-propenal	43506	0.00087	78853	N
2-methylheptane	98140	0.00338	592278	N
2-methylindan	91108	0.00019	824635	N
2-methylnonane	90047	0.00087	871830	N
2-methyloctane	98146	0.0001	3221612	N
2-methylpentane	43229	0.03716998	107835	N
2-methyl-trans-3-hexene	91006	0.00039	692240	N
3,3-dimethyloctane	98184	0.00039	4110445	N
3,3-dimethylpentane	90040	0.0001	562492	N
3,4-dimethylheptane	91069	0.00039	922281	N
3,5-dimethylheptane	98144	0.00145	926829	N
3-ethylpentane	43300	0.00261	617787	N
3-methyl-1-butene	43223	0.00232	563451	N
3-methyl-1-pentene	43211	0.00106	760203	N
3-methyl-cis-2-hexene	90029	0.0001	10574364	N
3-methylcyclopentene	43272	0.00068	1120623	N
3-methylheptane	43298	0.00599	589811	N
3-methylhexane	43295	0.00763	589344	N
3-methyloctane	98172	0.00299	2216333	N
3-methylpentane	43230	0.02181998	96140	N
4-methyl-1-pentene	98135	0.0001	691372	N
4-methylheptane	43297	0.00154	589537	N
4-methylindan	91107	0.0001	824226	N
4-methyloctane	98173	0.00232	2216344	N
4-methyl-trans-2-pentene	43293	0.00058	674760	N
5-methylindan	91106	0.00019	874351	N
acetone	43551	0.00164	67641	N
acetylene	43206	0.03320998	74862	N
benzaldehyde	45501	0.00164	100527	N
butyraldehyde	43510	0.00019	123728	N
c6 aldehydes	98095	0.00019		N
cis-1,2-dimethylcyclohexane	91055	0.00029	2207014	N
cis-1,3-dimethylcyclohexane	98180	0.00077	638040	N
cis-1,3-dimethylcyclopentane	91018	0.00232	2532583	N
cis-1,trans-2,3-trimethylcyclopentane	91038	0.00058	15890401	N
cis-1-methyl-3-ethylcyclopentane	90080	0.00068	2613663	N
cis-2-butene	43217	0.00174	590181	N
cis-2-heptene	91028	0.0001	6443921	N
cis-2-hexene	98035	0.00039	7688213	N
cis-2-pentene	43227	0.00116	627203	N
crotonaldehyde	98156	0.00029	4170303	N
cyclohexane	43248	0.00608	110827	N
cyclohexene	43273	0.00087	110838	N
cyclopentane	43242	0.00357	287923	N
cyclopentene	43292	0.00193	142290	N
ethane	43202	0.01051998	74840	N
ethanol	43302	0.00068	64175	N
ethylcyclopentane	98057	0.00145	1640897	N
ethylene	43203	0.06497998	74851	N
indan	98044	0.00087	496117	N
isobutane	43214	0.00019	75285	N
isobutylene	43215	0.03341	115117	N
isopentane	98132	0.06835999	78784	N
isoprene	43243	0.00145	78795	N
isopropylbenzene (cumene)	98043	0.0001	98828	N
isovaleraldehyde	98056	0.00039	590863	N
methane	43201	0.18719986	74828	N
methyl alcohol	43301	0.00406	67561	N
methylcyclohexane	43261	0.00608	108872	N

Profile 818 - Farm equipment - diesel - light & heavy - (ems=actual we				
CHEM_NAME	SAROAD	ORGFRAC	CAS	CARB?
isopropylbenzene (cumene)	98043	0.00015	98828	N
methane	43201	0.04084	74828	N
methyl alcohol	43301	0.0003	67561	Y
methylcyclohexane	43261	0.00068	108872	N
methylcyclopentane	43262	0.00149	96377	N
naphthalene	98046	0.00085	91203	N
n-butane	43212	0.00104	106978	N
n-decane	43238	0.00529	124185	N
n-heptane	43232	0.00068	142825	N
n-nonane	43235	0.0023	111842	N
n-octane	43233	0.0014	111659	N
n-pentane	43220	0.00175	109660	N
n-propylbenzene	45209	0.00122	103651	N
n-undecane	43241	0.00261	1120214	N
propane	43204	0.00185	74986	N
t-butylbenzene	45215	0.00006	98066	N
trans-2-butene	43216	0.00195	624646	N
trans-2-pentene	43226	0.0004	646048	N
unidentified	99999	0.13862		N

Profile 441 - Gasoline - catalyst - stabilized exhaust - ARB summer 2003				
CHEM_NAME	SAROAD	ORGFRAC	CAS	CARB?
methylcyclopentane	43262	0.02761	96377	N
naphthalene	98046	0.00048	91203	N
n-butane	43212	0.00782	106978	N
n-decane	43238	0.00154	124185	N
n-dodecane	43255	0.0001	112403	N
n-heptane	43232	0.00502	142825	N
n-nonane	43235	0.00174	111842	N
n-octane	43233	0.00386	111659	N
n-pentane	43220	0.02761	109660	N
n-pentylbenzene	45255	0.0001	538681	N
n-propylbenzene	45209	0.00232	103651	N
n-undecane	43241	0.0001	1120214	N
propane	43204	0.00058	74986	N
tolualdehyde	45502	0.00222	620235	N
trans-1,3-dimethylcyclohexane	98059	0.00039	2207036	N
trans-1,3-dimethylcyclopentane	91019	0.00261	1759586	N
trans-1,4-dimethylcyclohexane	98181	0.00039	2207047	N
trans-1-methyl-3-ethylcyclopentane	91044	0.00106	2613652	N
trans-2-butene	43216	0.00241	624646	N
trans-2-heptene	91026	0.0001	14686136	N
trans-2-hexene	98034	0.00126	4050457	N
trans-2-pentene	43226	0.00212	646048	N
trans-3-heptene	98006	0.00048	14686147	N
trans-3-hexene	98136	0.00048	13269528	N
vinylacetylene	98134	0.00068	689974	N

Profile 818 - Farm equipment - diesel - light & heavy - (ems=actual we				
CHEM_NAME	SAROAD	ORGFRAC	CAS	CARB?

Newport Banning Ranch
Summary - Future Consolidated Oilfield Criteria Pollutant, Greenhouse Gas, and Toxic Emissions at Newport Banning Ranch

Criteria Pollutants

	CO	ROG	NOx	SOX	PM10	PM2.5	CO	ROG	NOx	SOX	PM10	PM2.5
	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(tpy)	(tpy)	(tpy)	(tpy)	(tpy)	(tpy)
WNOC Oilfield Stationary Operations[1]	1.32	15.45	4.38	14.58	0.38	0.35	0.24	2.82	0.80	2.66	0.07	0.06
City Oilfield Stationary Operations[2]	0.33	20.16	1.32	0.01	0.05	0.05	0.06	3.68	0.24	0.0010	0.010	0.009
Armstrong Stationary Operations[3]	NA	0.07	NA	NA	NA	NA	NA	0.01	NA	NA	NA	NA
WNOC Mobile Source Activities[4]	24.86	4.50	30.76	0.10	16.86	2.70	1.32	0.23	1.40	0.0056	0.28	0.07
City Mobile Source Activities[4]	12.79	1.19	11.73	0.03	0.54	0.42	0.06	0.01	0.03	0.0001	0.01	0.00
Total	**39.3**	**41.4**	**48.2**	**14.7**	**17.8**	**3.5**	**1.43**	**3.93**	**1.67**	**0.01**	**0.29**	**0.08**

Greenhouse Gases

	CO2	CH4	CO2e
	(metric tons/yr)	(metric tons/yr)	(metric tons/yr)
WNOC Oilfield Stationary Operations[1]	NA	NA	NA
City Oilfield Stationary Operations[2]	NA	NA	NA
Armstrong Stationary Operations[3]	NA	NA	NA
WNOC Mobile Source Activities[4]	475.50	0.0139	475.79
City Mobile Source Activities[4]	9.16	0.0001	9.17
Total	484.66	0.0140	484.96

ROG	ROG	PM10	PM10
(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
5.17	7,850	2.23	590

Toxic Air Contaminants

pounds per day (lbs/day)

	Ammonia	*Benzene*	*Formaldehyde*	*Naphthalene*	*PAHs, total, with components not reported*	*ARSENIC*	*BROMINE*	*CADMIUM*	*CHLORINE*	*CHROMIUM VI*	*COPPER*	*LEAD*	*MANGANESE*	*MERCURY*	*NICKEL*	*SELENIUM*	*SULFATES*	*VANADIUM*
WNOC Oilfield Stationary Operations[1]	9.91E-01	7.84E-02	2.24E-02	-	8.22E-05	-	-	-	-	-	-	-	-	-	-	-	-	-
City Oilfield Stationary Operations[2]	1.80E-01	1.17E-01	1.64E-04	2.74E-06	2.74E-06	-	-	-	-	-	-	-	-	-	-	-	-	-
Armstrong Stationary Operations[3]	-	4.27E-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oilfield Mobile Source Activities[4]	-	1.06E-01	7.77E-01	-	-	2.39E-04	3.03E-04	2.56E-04	1.35E-02	3.99E-05	2.48E-03	2.07E-03	1.42E-02	2.57E-04	5.98E-04	6.00E-05	1.12E-01	1.23E-03
Total	**1.17E+00**	**3.01E-01**	**7.99E-01**	**2.74E-06**	**8.49E-05**	**2.39E-04**	**3.03E-04**	**2.56E-04**	**1.35E-02**	**3.99E-05**	**2.48E-03**	**2.07E-03**	**1.42E-02**	**2.57E-04**	**5.98E-04**	**6.00E-05**	**1.12E-01**	**1.23E-03**

lbs/day (continued)

	1,3-butadiene	*acetaldehyde*	*acrolein*	*ethylbenzene*	*methyl ethyl ketone (mek) (2-butanone)*	*n-hexane*	*propylene*	*m-xylene*	*o-xylene*	*p-xylene*	*styrene*	*toluene*	*methyl t-butyl ether (mtbe)*
WNOC Oilfield Stationary Operations[1]	-	-	-	-	-	-	-	-	-	-	-	-	-
City Oilfield Stationary Operations[2]	-	-	-	-	-	-	-	-	-	-	-	-	-
Armstrong Stationary Operations[3]	-	-	-	-	-	-	-	-	-	-	-	-	-
Oilfield Mobile Source Activities[4]	1.00E-02	3.88E-01	4.48E-06	1.61E-02	7.79E-02	8.34E-03	1.37E-01	3.24E-02	1.77E-02	5.01E-03	3.06E-03	7.79E-02	6.44E-05
Total	**1.00E-02**	**3.88E-01**	**4.48E-06**	**1.61E-02**	**7.79E-02**	**8.34E-03**	**1.37E-01**	**3.24E-02**	**1.77E-02**	**5.01E-03**	**3.06E-03**	**7.79E-02**	**6.44E-05**

Newport Banning Ranch
Summary - Future Consolidated Oilfield Criteria Pollutant, Greenhouse Gas, and Toxic Emissions at Newport Banning Ranch

Toxic Air Contaminants (continued)

pounds per year (lbs/yr)	Diesel Particulate Matter	Ammonia	Benzene	Formaldehyde	Naphthalene	PAHs, total, with components not reported	ARSENIC	BROMINE	CADMIUM	CHLORINE	CHROMIUM VI	COPPER	LEAD	MANGANESE	MERCURY	NICKEL	SELENIUM	SULFATES	VANADIUM
WNOC Oilfield Stationary Operations[1]	-	361.80	28.630	8.19	-	0.030	-	-	-	-	-	-	-	-	-	-	-	-	-
City Oilfield Stationary Operations[2]	-	65.88	42.58	0.06	0.0010	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-
Armstrong Stationary Operations[3]	-	-	0.156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oilfield Mobile Source Activities[4,5]	84.56	-	1.66	1.07	-	-	0.0064	0.0121	0.0055	0.98	0.0017	0.072	0.055	0.40	0.0060	0.020	0.0013	6.38	0.033
Total	**84.56**	**427.68**	**73.03**	**9.32**	**0.0010**	**0.031**	**0.0064**	**0.0121**	**0.0055**	**0.98**	**0.0017**	**0.072**	**0.055**	**0.40**	**0.0060**	**0.020**	**0.0013**	**6.38**	**0.033**

pounds per year (lbs/yr)	1,3-butadiene	acetaldehyde	acrolein	ethylbenzene	methyl ethyl ketone (mek) (2-butanone)	n-hexane	propylene	m-xylene	o-xylene	p-xylene	isomers of xylene	styrene	toluene	methyl t-butyl ether (mtbe)
WNOC Oilfield Stationary Operations1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
City Oilfield Stationary Operations2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Armstrong Stationary Operations3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oilfield Mobile Source Activities4	0.346	0.152	0.085	0.675	0.012	0.997	1.970	2.292	0.797	-	3.089	0.079	3.703	1.222
	0.35	0.15	0.09	0.68	0.01	1.00	1.97	2.29	0.80	-	3.09	0.08	3.70	1.22

[1] Emissions from 2008 Annual Emissions Report to SCAQMD for West Newport Oil Company (FAC ID = 42775

[2] Emissions from 2008 Annual Emissions Report to SCAQMD for Newport Beach City Utilities Department (FAC ID = 35189

[3] Emissions from July 2006 - July 2007 Annual Emissions Report to SCAQMD for Armstrong Petr Corp (FAC ID = 17170

[4] Emissions calculated from equipment and operation information obtained from WNOC and the City of Newport Beacl

[5] Annual Emissions assume toxics from diesel exhaust are considered in the diesel PM cancer and chronic non-cancer health risk exposure

0.91 metric tons/short tons

Newport Banning Ranch

Future Consolidated Oilfield Criteria Pollutant Inventory - Mobile Equipment

Future Maintenance Activity	WNOC	City	Activity
New Drilling	3	0	3
Abandonments	1	0	1
Well workovers	81	13	94

Oilfield Operations Equipment

Activity/Equipment	Days Per Activity	Fuel	Load Factor[a]	Partial Day Factor	HP[b]	Peak Hours/ day	Miles per trip	Peak Trips/ day	CO (lb/hr) or (lb/mi)	ROG (lb/hr) or (lb/mi)	NOX (lb/hr) or (lb/mi)	SOX (lb/hr) or (lb/mi)	PM10 (lb/hr) or (lb/mi)	PM2.5 (lb/hr) or (lb/mi)	CO2 (lb/hr) or (lb/mi)	CH4 (lb/hr) or (lb/mi)
WNOC General Use Equipment																
1 backhoe	48	Diesel	0.47	1.00	79	8			0.34800	0.05767	0.38704	0.00061	0.02934	0.02699	51.72802	0.00520
1 vacuum truck (offsite travel exhaust)	48	Diesel	1.00	1.00	410	NA	30	1	0.00767	0.00179	0.02123	0.00004	0.00105	0.00088	4.20902	-
1 vacuum truck (offsite paved road dust)	48	Dust	1.00	1.00	410	NA	30	1					0.00082	0.00014		
1 vacuum truck (on-site unpaved road dust)	48	Dust	0.41	1.00	410	NA	1	1					0.70229	0.07023		
1 vacuum truck (on-site idle exhaust)	48	Diesel	0.41	1.00	410	8			0.09833	0.02165	0.25922	0.00014	0.00215	0.00198	14.58836	-
WNOC Worker - Daily Site inspection	365	Gas	1.00	1.00	NA	NA	5	1	0.00614	0.00066	0.00060	0.00001	0.00009	0.00006	1.10193	-
*City General Use Equipment**	hrs/yr															
1 repair well rig	60	Diesel	0.75	1.00	120	24			0.46760	0.03755	0.37358	0.00090	0.01605	0.01477	77.12177	0.00339
1 vacuum truck (offsite travel exhaust)	60	Diesel	1.00	1.00	400	NA	30	1	0.00767	0.00179	0.02123	0.00004	0.00105	0.00088	4.20902	-
1 vacuum truck (offsite paved road dust)	60	Dust	1.00	1.00	400	NA	30	1					0.00082	0.00014		
1 vacuum truck (on-site idle exhaust)	60	Diesel	0.41	1.00	400	8			0.09833	0.02165	0.25922	0.00014	0.00215	0.00198	14.58836	-
	days/week															
1/4 ton Chevy truck (LDT1)	6	Gas	1.00	1.00	NA	NA	30	1	0.00614	0.00066	0.00060	0.00001	0.00009	0.00006	1.10193	-
1/4 ton Chevy truck (LDT1) - Dust	6	Dust	1.00	1.00	NA	NA	30	1					0.00082	0.00014		
1 ton Chevy truck (LDT1)	1	Gas	1.00	1.00	NA	NA	30	1	0.00614	0.00066	0.00060	0.00001	0.00009	0.00006	1.10193	-
1 ton Chevy truck (LDT1) - Dust	1	Dust	1.00	1.00	NA	NA	30	1					0.00082	0.00014		
2 ton truck (LDT2)	1	Gas	1.00	1.00	NA	NA	30	1	0.00614	0.00066	0.00060	0.00001	0.00009	0.00006	1.10193	-
2 ton truck (LDT2) - Dust	1	Dust	1.00	1.00	NA	NA	30	1					0.00082	0.00014		
Drilling (prep-2, drill-8, complete-5 days)	Days Per Activity															
Well pad prep																
1 small drill rig	0.5	Diesel	0.75	0.5	210	24			0.34250	0.06807	0.48998	0.00212	0.01438	0.01323	188.1019	0.00614
1 cement truck (offsite travel exhaust)	0.5	Diesel	1.00	0.5	500	NA	30	1	0.00767	0.00179	0.02123	0.00004	0.00105	0.00088	4.20902	-
1 cement truck (offsite paved road dust)	0.5	Dust	1.00	0.5	500	NA	30	1					0.00082	0.00014		
1 cement truck (on-site unpaved road dust)	0.5	Dust	0.56	0.5	500	NA	1	1					0.70229	0.07023		
1 cement truck (on-site idle exhaust)	0.5	Diesel	0.56	0.5	500	8			0.09833	0.02165	0.25922	0.00014	0.00215	0.00198	14.58836	-
1 backhoe	0.25	Diesel	0.47	0.25	79	8			0.34800	0.05767	0.38704	0.00061	0.02934	0.02699	51.72802	0.00520
1 hydralift	0.5	Diesel	0.43	0.5	350	8			0.46629	0.13927	1.18121	0.00177	0.04263	0.03922	180.1013	0.01257
Drilling																
1 drill rig and associated equipment	7	Diesel	0.75	1.00	320	24			0.55105	0.11175	0.76918	0.00306	0.02356	0.02168	311.3086	0.01008
1 backhoe	4	Diesel	0.47	1.00	79	8			0.34800	0.05767	0.38704	0.00061	0.02934	0.02699	51.72802	0.00520
1 forklift	3	Diesel	0.30	1.00	175	8			0.33156	0.04861	0.34416	0.00063	0.01886	0.01735	56.05437	0.00439
Complete																
1 small drill rig	2	Diesel	0.75	1.00	210	24			0.34250	0.06807	0.48998	0.00212	0.01438	0.01323	188.1019	0.00614
1 vacuum truck (offsite travel exhaust)	1	Diesel	1.00	1.00	NA	NA	30	1	0.00767	0.00179	0.02123	0.00004	0.00105	0.00088	4.20902	-
1 vacuum truck (offsite paved road dust)	1	Dust	1.00	1.00	NA	NA	30	1					0.00082	0.00014		
1 vacuum truck (on-site unpaved road dust)	1	Dust	0.41	1.00	410	NA	1	1					0.70229	0.07023		
1 vacuum truck (on-site idle exhaust)	1	Diesel	0.41	1.00	410	8			0.09833	0.02165	0.25922	0.00014	0.00215	0.00198	14.58836	-
1 welding machine	1	Diesel	0.45	1.00	50	8			0.25642	0.08005	0.23456	0.00034	0.01998	0.01838	25.95805	0.00722
1 hydralift	0.5	Diesel	0.43	0.5	350	8			0.46629	0.13927	1.18121	0.00177	0.04263	0.03922	180.1013	0.01257
Workers and Crew																
1 crew truck (15-20 round trips, 10-12 workers)	2	Diesel	1.00	1.00	NA	NA	1	20	0.00767	0.00179	0.02123	0.00004	0.00105	0.00088	4.20902	-
1 crew truck - Dust	2	Dust	1.00	1.00	NA	NA	1	20					0.70229	0.07023		
10-12 workers	15	Gas	1.00	1.00	NA	NA	30	12	0.00614	0.00066	0.00060	0.00001	0.00009	0.00006	1.10193	-
10-12 workers - Dust	15	Dust	1.00	1.00	NA	NA	30	12					0.00082	0.00014		

Newport Banning Ranch

Future Consolidated Oilfield Criteria Pollutant Inventory - Mobile Equipment

Future Maintenance Activity	WNOC	City	Activity
New Drilling	3	0	3
Abandonments	1	0	1
Well workovers	81	13	94

Oilfield Operations Equipment

Activity/Equipment	Days Per Activity	Fuel	Load Factor[a]	Partial Day Factor	HP[b]	Peak Hours/ day	Miles per trip	Peak Trips/ day	CO (lb/hr) or (lb/mi)	ROG (lb/hr) or (lb/mi)	NOX (lb/hr) or (lb/mi)	SOX (lb/hr) or (lb/mi)	PM10 (lb/hr) or (lb/mi)	PM2.5 (lb/hr) or (lb/mi)	CO2 (lb/hr) or (lb/mi)	CH4 (lb/hr) or (lb/mi)
Well Abandonment (2-2.5 days)																
1 drill rig	1.5	Diesel	0.75	1.00	320	24			0.55105	0.11175	0.76918	0.00306	0.02356	0.02168	311.3086	0.01008
1 cement truck (offsite travel exhaust)	1	Diesel	1.00	1.00	NA	NA	30	1	0.00767	0.00179	0.02123	0.00004	0.00105	0.00088	4.20902	-
1 cement truck (offsite paved road dust)	1	Dust	1.00	1.00	NA	NA	30	1					0.00082	0.00014		
1 cement truck (on-site unpaved road dust)	1	Dust	0.56	1.00	NA	NA	1	1					0.70229	0.07023		
1 cement truck (on-site idle exhaust)	1	Diesel	0.56	1.00	500	8			0.09833	0.02165	0.25922	0.00014	0.00215	0.00198	14.58836	-
1 vacuum truck (offsite travel exhaust)	0.5	Diesel	1.00	0.5	NA	NA	30	1	0.00767	0.00179	0.02123	0.00004	0.00105	0.00088	4.20902	-
1 vacuum truck (offsite paved road dust)	0.5	Dust	1.00	0.5		NA	30	1					0.00082	0.00014		
1 vacuum truck (on-site unpaved road dust)	0.5	Dust	0.41	0.5		NA	1	1					0.70229	0.07023		
1 vacuum truck (on-site idle exhaust)	0.5	Diesel	0.41	0.5	410	8			0.09833	0.02165	0.25922	0.00014	0.00215	0.00198	14.58836	-
1 crew truck (3-5 round trips, 3 workers)	2	Diesel	1.00	1.00	NA	NA	1	5	0.00767	0.00179	0.02123	0.00004	0.00105	0.00088	4.20902	-
1 crew truck - Dust	2	Dust	1.00	1.00	NA	NA	1	5					0.70229	0.07023		
3 workers	3	Gas	1.00	1.00	NA	NA	30	3	0.00614	0.00066	0.00060	0.00001	0.00009	0.00006	1.10193	-
3 workers - Dust	3	Dust	1.00	1.00	NA	NA	30	3					0.00082	0.00014		
															Subtotal -->	
Well Workovers (1.5- 2 days)																
1 small drill rig	1.5	Diesel	0.75	1.00	210	24			0.34250	0.06807	0.48998	0.00212	0.01438	0.01323	188.1019	0.00614
1 vacuum truck (offsite travel exhaust)	0.5	Diesel	1.00	0.5	NA	NA	30	1	0.00767	0.00179	0.02123	0.00004	0.00105	0.00088	4.20902	-
1 vacuum truck (offsite paved road dust)	0.5	Dust	1.00	0.5	NA	NA	30	1					0.00082	0.00014		
1 vacuum truck (on-site unpaved road dust)	0.5	Dust	0.41	0.5	NA	NA	1	1					0.70229	0.07023		
1 vacuum truck (on-site idle exhaust)	0.5	Diesel	0.41	0.5	410	8			0.09833	0.02165	0.25922	0.00014	0.00215	0.00198	14.58836	-
1 crew truck (2-4 round trips, 3 workers)	1	Diesel	1.00	1.00	NA	NA	1	4	0.00767	0.00179	0.02123	0.00004	0.00105	0.00088	4.20902	-
1 crew truck - Dust	1	Dust	1.00	1.00	NA	NA	1	4					0.70229	0.07023		
3 workers	2	Gas	1.00	1.00	NA	NA	30	3	0.00614	0.00066	0.00060	0.00001	0.00009	0.00006	1.10193	-
3 workers - Dust	2	Dust	1.00	1.00	NA	NA	30	3					0.00082	0.00014		

**Per discussion with City of Newport Beach*

Equipment Details	Type	HP[b]	LF[a]
1 backhoe	Tractors/Loaders/Backhoes	79	0.465
1 cement truck (on-site idle exhaust)	icle, Diesel (33,001 to 60,000 lb)	500	0.56
1 hydralift	Cranes	350	0.43
1 small drill rig	Bore/Drill Rigs	210	0.75
1 drill rig	Bore/Drill Rigs	320	0.75
1 forklift	Forklifts	175	0.30
1 vacuum truck (on-site idle exhaust)	icle, Diesel (33,001 to 60,000 lb)	410	0.41
1 welding machine	Welders	50	0.45
1 truck mounted rig	Off-Highway Trucks	500	0.41
Crew van	Passenger Vehicle, Gas (<8500 lb)		1.00

Hrs/Day
8

Hrs/Day (drill rig)
24

Round trip on-site (miles)
5

per discussion with WNOC

Round trip travel to site (miles)
30

Weeks/yr
52

a. Load factors from CEQA Air Quality Handbook, SCAQMD, Diamond Bar, CA, 1993. Table A9-8-D.

b. Most common horsepower in Offroad database

0.92 PM2.5-PM10 Ratio

0.93 M2.5-PM10 Ratio

Newport Banning Ranch
Future Consolidated Oilfield Criteria Pollutant Inventory - Mobile Equipment

Oilfield Operations Equipment

Activity/Equipment		CO (lbs/day)	ROG (lbs/day)	NOX (lbs/day)	SOX (lbs/day)	PM10 (lbs/day)	PM2.5 (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	CO (lbs/yr)	ROG (lbs/yr)	NOX (lbs/yr)	SOX (lbs/yr)	PM10 (lbs/yr)	PM2.5 (lbs/yr)	CO2 (lbs/yr)	CH4 (lbs/yr)
WNOC General Use Equipment																	
1 backhoe		2.784	0.461	3.096	0.005	0.235	0.216	413.824	0.042	133.63	22.15	148.62	0.23	11.26	10.36	19,863.56	2.00
1 vacuum truck (offsite travel exhaust)		0.230	0.054	0.637	0.001	0.031	0.026	126.271	-	11.04	2.57	30.57	0.06	1.51	1.27	6,060.99	-
1 vacuum truck (offsite paved road dust)		-	-	-	-	0.024	0.004	-	-	-	-	-	-	1.17	0.20	-	-
1 vacuum truck (on-site unpaved road dust)		-	-	-	-	0.702	0.070	-	-	-	-	-	-	33.71	3.37	-	-
1 vacuum truck (on-site idle exhaust)		0.787	0.173	2.074	0.001	0.017	0.016	116.707	-	37.76	8.31	99.54	0.05	0.83	0.76	5,601.93	-
WNOC Worker - Daily Site inspection		0.031	0.003	0.003	0.000	0.000	0.000	5.510	-	582.79	62.97	57.12	1.02	8.79	5.71	104,573.00	-
	Subtotal -->	*3.831*	*0.691*	*5.810*	*0.007*	*1.011*	*0.333*	*662.311*	*0.042*	*765.22*	*96.00*	*335.85*	*1.36*	*57.27*	*21.67*	*136,099.48*	*2.00*
*City General Use Equipment**																	
1 repair well rig		11.222	0.901	8.966	0.022	0.385	0.354	1,850.922	0.081	28.06	2.25	22.41	0.05	0.96	0.89	4,627.31	0.20
1 vacuum truck (offsite travel exhaust)		0.230	0.054	0.637	0.001	0.031	0.026	126.271	-	1.73	0.40	4.78	0.01	0.24	0.20	947.03	-
1 vacuum truck (offsite paved road dust)		-	-	-	-	0.024	0.004	-	-	-	-	-	-	0.18	0.03	-	-
1 vacuum truck (on-site idle exhaust)		0.787	0.173	2.074	0.001	0.017	0.016	116.707	-	5.90	1.30	15.55	0.01	0.13	0.12	875.30	-
1/4 ton Chevy truck (LDT1)		0.184	0.020	0.018	0.000	0.003	0.002	33.058	-	57.48	6.21	5.63	0.10	0.87	0.56	10,314.05	-
1/4 ton Chevy truck (LDT1) - Dust		-	-	-	-	0.024	0.004	-	-	-	-	-	-	7.64	1.29	-	-
1 ton Chevy truck (LDT1)		0.184	0.020	0.018	0.000	0.003	0.002	33.058	-	9.58	1.04	0.94	0.02	0.14	0.09	1,719.01	-
1 ton Chevy truck (LDT1) - Dust		-	-	-	-	0.024	0.004	-	-	-	-	-	-	1.27	0.21	-	-
2 ton truck (LDT2)		0.184	0.020	0.018	0.000	0.003	0.002	33.058	-	9.58	1.04	0.94	0.02	0.14	0.09	1,719.01	-
2 ton truck (LDT2) - Dust		-	-	-	-	0.024	0.004	-	-	-	-	-	-	1.27	0.21	-	-
	Subtotal -->	*12.792*	*1.188*	*11.731*	*0.025*	*0.540*	*0.419*	*2,193.074*	*0.081*	*112.32*	*12.24*	*50.26*	*0.21*	*12.85*	*3.70*	*20,201.70*	*0.20*
Drilling (prep-2, drill-8, complete-5 days)																	
Well pad prep																	
1 small drill rig		4.110	0.817	5.880	0.025	0.173	0.159	2,257.222	0.074	12.33	2.45	17.64	0.08	0.52	0.48	6,771.67	0.22
1 cement truck (offsite travel exhaust)		0.230	0.054	0.637	0.001	0.031	0.026	126.271	-	0.69	0.16	1.91	0.00	0.09	0.08	378.81	-
1 cement truck (offsite paved road dust)		-	-	-	-	0.012	0.002	-	-	-	-	-	-	0.04	0.01	-	-
1 cement truck (on-site unpaved road dust)		-	-	-	-	0.351	0.035	-	-	-	-	-	-	1.05	0.11	-	-
1 cement truck (on-site idle exhaust)		0.393	0.087	1.037	0.001	0.009	0.008	58.353	-	1.18	0.26	3.11	0.00	0.03	0.02	175.06	-
1 backhoe		0.696	0.115	0.774	0.001	0.059	0.054	103.456	0.010	2.09	0.35	2.32	0.00	0.18	0.16	310.37	0.03
1 hydralift		1.865	0.557	4.725	0.007	0.171	0.157	720.405	0.050	5.60	1.67	14.17	0.02	0.51	0.47	2,161.22	0.15
	Subtotal -->	*7.295*	*1.629*	*13.052*	*0.035*	*0.805*	*0.441*	*3,265.708*	*0.134*	*21.88*	*4.89*	*39.16*	*0.11*	*2.42*	*1.32*	*9,797.12*	*0.40*
Drilling																	
1 drill rig and associated equipment		13.225	2.682	18.460	0.073	0.566	0.520	7,471.407	0.242	277.73	56.32	387.66	1.54	11.88	10.93	156,899.54	5.08
1 backhoe		2.784	0.461	3.096	0.005	0.235	0.216	413.824	0.042	33.41	5.54	37.16	0.06	2.82	2.59	4,965.89	0.50
1 forklift		2.652	0.389	2.753	0.005	0.151	0.139	448.435	0.035	23.87	3.50	24.78	0.05	1.36	1.25	4,035.91	0.32
	Subtotal -->	*18.662*	*3.532*	*24.310*	*0.083*	*0.951*	*0.875*	*8,333.666*	*0.319*	*335.01*	*65.36*	*449.60*	*1.64*	*16.05*	*14.77*	*165,901.34*	*5.90*
Complete																	
1 small drill rig		8.220	1.634	11.759	0.051	0.345	0.317	4,514.445	0.147	49.32	9.80	70.56	0.30	2.07	1.90	27,086.67	0.88
1 vacuum truck (offsite travel exhaust)		0.230	0.054	0.637	0.001	0.031	0.026	126.271	-	0.69	0.16	1.91	0.00	0.09	0.08	378.81	-
1 vacuum truck (offsite paved road dust)		-	-	-	-	0.024	0.004	-	-	-	-	-	-	0.07	0.01	-	-
1 vacuum truck (on-site unpaved road dust)		-	-	-	-	0.702	0.070	-	-	-	-	-	-	2.11	0.21	-	-
1 vacuum truck (on-site idle exhaust)		0.787	0.173	2.074	0.001	0.017	0.016	116.707	-	2.36	0.52	6.22	0.00	0.05	0.05	350.12	-
1 welding machine		2.051	0.640	1.876	0.003	0.160	0.147	207.664	0.058	6.15	1.92	5.63	0.01	0.48	0.44	622.99	0.17
1 hydralift		1.865	0.557	4.725	0.007	0.171	0.157	720.405	0.050	5.60	1.67	14.17	0.02	0.51	0.47	2,161.22	0.15
	Subtotal -->	*13.153*	*3.058*	*21.071*	*0.063*	*1.451*	*0.738*	*5,685.492*	*0.255*	*64.12*	*14.07*	*98.49*	*0.34*	*5.39*	*3.17*	*30,599.81*	*1.21*
Workers and Crew																	
1 crew truck (15-20 round trips, 10-12 workers)		0.153	0.036	0.425	0.001	0.021	0.018	84.180	-	0.92	0.21	2.55	0.00	0.13	0.11	505.08	-
1 crew truck - Dust		-	-	-	-	14.046	1.405	-	-	-	-	-	-	84.27	8.43	-	-
10-12 workers		2.211	0.239	0.217	0.004	0.033	0.022	396.694	-	99.49	10.75	9.75	0.17	1.50	0.97	17,851.24	-
10-12 workers - Dust		-	-	-	-	0.294	0.050	-	-	-	-	-	-	13.21	2.23	-	-

Newport Banning Ranch
Future Consolidated Oilfield Criteria Pollutant Inventory - Mobile Equipment

Oilfield Operations Equipment

Activity/Equipment		CO (lbs/day)	ROG (lbs/day)	NOX (lbs/day)	SOX (lbs/day)	PM10 (lbs/day)	PM2.5 (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	CO (lbs/yr)	ROG (lbs/yr)	NOX (lbs/yr)	SOX (lbs/yr)	PM10 (lbs/yr)	PM2.5 (lbs/yr)	CO2 (lbs/yr)	CH4 (lbs/yr)
	Subtotal -->	*2.364*	*0.275*	*0.641*	*0.005*	*14.394*	*1.493*	*480.875*	-	*100.41*	*10.96*	*12.30*	*0.18*	*99.11*	*11.74*	*18,356.32*	-
Well Abandonment (2-2.5 days)																	
1 drill rig		13.225	2.682	18.460	0.073	0.566	0.520	7,471.407	0.242	19.84	4.02	27.69	0.11	0.85	0.78	11,207.11	0.36
1 cement truck (offsite travel exhaust)		0.230	0.054	0.637	0.001	0.031	0.026	126.271	-	0.23	0.05	0.64	0.00	0.03	0.03	126.27	-
1 cement truck (offsite paved road dust)		-	-	-	-	0.024	0.004	-	-	-	-	-	-	0.02	0.00	-	-
1 cement truck (on-site unpaved road dust)		-	-	-	-	0.702	0.070	-	-	-	-	-	-	0.70	0.07	-	-
1 cement truck (on-site idle exhaust)		0.787	0.173	2.074	0.001	0.017	0.016	116.707	-	0.79	0.17	2.07	0.00	0.02	0.02	116.71	-
1 vacuum truck (offsite travel exhaust)		0.230	0.054	0.637	0.001	0.031	0.026	126.271	-	0.23	0.05	0.64	0.00	0.03	0.03	126.27	-
1 vacuum truck (offsite paved road dust)		-	-	-	-	0.012	0.002	-	-	-	-	-	-	0.01	0.00	-	-
1 vacuum truck (on-site unpaved road dust)		-	-	-	-	0.351	0.035	-	-	-	-	-	-	0.35	0.04	-	-
1 vacuum truck (on-site idle exhaust)		0.393	0.087	1.037	0.001	0.009	0.008	58.353	-	0.39	0.09	1.04	0.00	0.01	0.01	58.35	-
1 crew truck (3-5 round trips, 3 workers)		0.038	0.009	0.106	0.000	0.005	0.004	21.045	-	0.08	0.02	0.21	0.00	0.01	0.01	42.09	-
1 crew truck - Dust		-	-	-	-	3.511	0.351	-	-	-	-	-	-	7.02	0.70	-	-
3 workers		0.553	0.060	0.054	0.001	0.008	0.005	99.174	-	1.66	0.18	0.16	0.00	0.02	0.02	297.52	-
3 workers - Dust		-	-	-	-	0.073	0.012	-	-	-	-	-	-	0.22	0.04	-	-
		15.456	*3.118*	*23.005*	*0.079*	*5.343*	*1.082*	*8,019.227*	*0.242*	*23.21*	*4.59*	*32.45*	*0.12*	*9.31*	*1.73*	*11,974.32*	*0.36*
Well Workovers (1.5- 2 days)																	
1 small drill rig		8.220	1.634	11.759	0.051	0.345	0.317	4,514.445	0.147	1,161.47	230.84	1,661.61	7.18	48.76	44.86	637,891.07	20.83
1 vacuum truck (offsite travel exhaust)		0.230	0.054	0.637	0.001	0.031	0.026	126.271	-	21.67	5.05	59.99	0.12	2.96	2.49	11,894.70	-
1 vacuum truck (offsite paved road dust)		-	-	-	-	0.012	0.002	-	-	-	-	-	-	1.15	0.19	-	-
1 vacuum truck (on-site unpaved road dust)		-	-	-	-	0.351	0.035	-	-	-	-	-	-	33.08	3.31	-	-
1 vacuum truck (on-site idle exhaust)		0.393	0.087	1.037	0.001	0.009	0.008	58.353	-	37.05	8.16	97.67	0.05	0.81	0.75	5,496.89	-
1 crew truck (2-4 round trips, 3 workers)		0.031	0.007	0.085	0.000	0.004	0.004	16.836	-	2.89	0.67	8.00	0.02	0.39	0.33	1,585.96	-
1 crew truck - Dust		-	-	-	-	2.809	0.281	-	-	-	-	-	-	264.62	26.46	-	-
3 workers		0.553	0.060	0.054	0.001	0.008	0.005	99.174	-	104.13	11.25	10.21	0.18	1.57	1.02	18,684.30	-
3 workers - Dust		-	-	-	-	0.073	0.012	-	-	-	-	-	-	13.83	2.34	-	-
	Subtotal -->	*9.427*	*1.841*	*13.572*	*0.054*	*3.644*	*0.691*	*4,815.079*	*0.147*	*1,327.21*	*255.97*	*1,837.47*	*7.54*	*367.18*	*81.74*	*675,552.92*	*20.83*
Peak Emissions *-->		37.65	5.69	42.49	0.12	17.40	3.12	11,669.93	0.44	2,749.39	464.08	2,855.57	11.50	569.57	139.84	1,068,483.03	30.90
Peak Onsite Emissions *-->		34.43	5.28	40.95	0.11	16.82	2.97	10,921.52	0.44	2,431.19	425.17	2,727.52	10.81	520.26	126.15	997,985.02	30.90
	Gas	2.79	0.30	0.27	0.00	0.04	0.03	501.38	-	864.70	93.43	84.75	1.51	13.04	8.47	155,158.13	-
	Diesel	34.85	5.38	42.22	0.12	1.46	1.55	11,168.55	0.44	1,884.69	370.65	2,770.82	9.99	89.51	81.91	913,324.90	30.90
	Dust	-	-	-	-	15.89	1.55	-	-	-	-	-	-	467.02	49.46	-	-
Peak Onsite Activity *-->		34.43	5.28	40.95	0.11	16.82	2.97	10,921.52	0.44	2,431.19	425.17	2,727.52	10.81	520.26	126.15	997,985.02	30.90
Gas/Onsite	City	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	WNOC	0.03	0.00	0.00	0.00	0.00	0.00	5.51	-	582.79	62.97	57.12	1.02	8.79	5.71	104,573.00	-
Diesel/onsite	City	12.01	1.07	11.04	0.02	0.40	0.37	1,967.63	0.08	33.96	3.55	37.97	0.06	1.09	1.00	5,502.61	0.20
	WNOC	22.39	4.20	29.90	0.09	0.97	1.12	8,948.38	0.36	1,814.45	358.64	2,632.43	9.73	83.46	76.74	887,909.41	30.70
Unpaved Dust/onsite	City	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	WNOC	-	-	-	-	15.45	1.47	-	-	-	-	-	-	426.92	42.69	-	-
Peak Offsite Activity *-->		3.22	0.41	1.54	0.01	0.58	0.15	748.41	-	318.19	38.91	128.05	0.68	49.31	13.70	70,498.01	-
Gas/offsite		2.76	0.30	0.27	0.00	0.04	0.03	495.87	-	281.91	30.46	27.63	0.49	4.25	2.76	50,585.12	-
Diesel/offsite		0.46	0.11	1.27	0.00	0.09	0.05	252.54	-	36.28	8.45	100.42	0.19	4.95	4.16	19,912.88	-
Paved Dust/offsite		-	-	-	-	0.44	0.07	-	-	-	-	-	-	40.10	6.77	-	-

*Peak daily activity - assumes that workovers, drilling, and abandonments do not overlap; also during new well drilling that well pad preparation, well drilling, and well completion do not overlap.
Total peak daily emissions = General equipment use for WNOC and City sites plus new well drilling at WNOC site.

Newport Banning Ranch
Mobile Equipment Future Consolidated Oilfield TAC Inventory

Emission Rates

Onsite	VOC		PM10		
Equipment	lbs/day	lbs/yr	lbs/day	lbs/yr	
City Diesel	1.07	3.55	0.40	1.09	<- Diesel PM
WNOC Diesel	4.20	358.64	0.97	83.46	<- Diesel PM
City Gasoline	-	-	-	-	
WNOC Gasoline	0.00	62.97	0.00	8.79	
Unpaved Road Dust	NA	NA	15.45	426.92	

PM10 - CARB Toxics

	ARSENIC	*BROMINE*	*CADMIUM*	*CHLORINE*	*CHROMIUM VI*	*COPPER*	*LEAD*	*MANGANESE*	*MERCURY*	*NICKEL*	*SELENIUM*	*SULFATES*	*VANADIUM*	*1*
	lbs/day	*lbs/day*	*lbs/day*	*lbs/day*	*lbs/day*	*lbs/day*	*lbs/day*	*lbs/day*	*lbs/day*	*lbs/day*	*lbs/day*	*lbs/day*	*lbs/day*	*2*
City Diesel	2.01E-06	7.24E-06	1.61E-05	1.38E-04	6.90E-07	1.01E-05	1.69E-05	1.61E-05	1.21E-05	7.65E-06	4.02E-06	7.01E-03	1.17E-05	*3*
WNOC Diesel	4.83E-06	1.74E-05	3.86E-05	3.32E-04	1.66E-06	2.41E-05	4.06E-05	3.86E-05	2.90E-05	1.83E-05	9.66E-06	1.68E-02	2.80E-05	*4*
City Gasoline	-	-	-	-	-	-	-	-	-	-	-	-	-	*5*
WNOC Gasoline	-	2.31E-07	-	3.24E-05	3.31E-08	2.31E-07	-	2.31E-07	-	2.31E-07	-	2.08E-04	-	*6*
Unpaved Road Dust	2.32E-04	2.78E-04	2.01E-04	1.30E-02	3.75E-05	2.44E-03	2.01E-03	1.41E-02	2.16E-04	5.72E-04	4.64E-05	8.78E-02	1.19E-03	*7*
Total -->	**2.39E-04**	**3.03E-04**	**2.56E-04**	**1.35E-02**	**3.99E-05**	**2.48E-03**	**2.07E-03**	**1.42E-02**	**2.57E-04**	**5.98E-04**	**6.00E-05**	**1.12E-01**	**1.23E-03**	*8*
City	*2.01E-06*	*7.24E-06*	*1.61E-05*	*1.38E-04*	*6.90E-07*	*1.01E-05*	*1.69E-05*	*1.61E-05*	*1.21E-05*	*7.65E-06*	*4.02E-06*	*7.01E-03*	*1.17E-05*	*9*
WNOC	*4.83E-06*	*1.76E-05*	*3.86E-05*	*3.65E-04*	*1.69E-06*	*2.44E-05*	*4.06E-05*	*3.89E-05*	*2.90E-05*	*1.86E-05*	*9.66E-06*	*1.70E-02*	*2.80E-05*	*10*
														11
	lbs/yr	*lbs/yr*	*lbs/yr*	*lbs/yr*	*lbs/yr*	*lbs/yr*	*lbs/yr*	*lbs/yr*	*lbs/yr*	*lbs/yr*	*lbs/yr*	*lbs/yr*	*lbs/yr*	*12*
City Diesel*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	*13*
WNOC Diesel*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	*14*
City Gasoline	-	-	-	-	-	-	-	-	-	-	-	-	-	*15*
WNOC Gasoline	-	4.39E-03	-	6.15E-01	6.28E-04	4.39E-03	-	4.39E-03	-	4.39E-03	-	3.95E+00	-	*16*
Unpaved Road Dust	6.40E-03	7.68E-03	5.55E-03	3.60E-01	1.04E-03	6.75E-02	5.55E-02	3.91E-01	5.98E-03	1.58E-02	1.28E-03	2.43E+00	3.29E-02	*17*
Total -->	**0.006**	**0.012**	**0.006**	**0.975**	**0.002**	**0.072**	**0.055**	**0.395**	**0.006**	**0.020**	**0.001**	**6.381**	**0.033**	*18*
City	-	-	-	-	-	-	-	-	-	-	-	-	-	*19*
WNOC	-	*4.39E-03*	-	*6.15E-01*	*6.28E-04*	*4.39E-03*	-	*4.39E-03*	-	*4.39E-03*	-	*3.95E+00*	-	*20*

*Diesel chronic risk is calculated from total diesel PM10 emissions, not from its speciated exhaust TACs.

Newport Banning Ranch
Mobile Equipment Future Consolidated Oilfield TAC Inventory

VOC - CARB Toxics

	1,3-butadiene	acetaldehyde	acrolein	benzene	ethylbenzene	formaldehyde	methyl ethyl ketone (mek) (2-butanone)	n-hexane	propylene	m-xylene	o-xylene	p-xylene	isomers of xylene	styrene	toluene	methyl t-butyl ether (mtbe)	1
	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	2
City Diesel	2.04E-03	7.90E-02	-	2.15E-02	3.28E-03	1.58E-01	1.59E-02	1.69E-03	2.79E-02	6.57E-03	3.60E-03	1.02E-03	1.12E-02	6.23E-04	1.58E-02	-	3
WNOC Diesel	7.98E-03	3.09E-01	-	8.41E-02	1.28E-02	6.18E-01	6.21E-02	6.60E-03	1.09E-01	2.57E-02	1.41E-02	3.99E-03	4.37E-02	2.44E-03	6.19E-02	-	4
City Gasoline	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
WNOC Gasoline	1.82E-05	8.00E-06	4.48E-06	8.75E-05	3.56E-05	5.64E-05	6.30E-07	5.26E-05	1.04E-04	1.21E-04	4.20E-05	-	1.63E-04	4.18E-06	1.95E-04	6.44E-05	6
Total -->	**0.0100**	**0.3880**	**0.0000**	**0.1057**	**0.0161**	**0.7765**	**0.0779**	**0.0083**	**0.1371**	**0.0324**	**0.0177**	**0.0050**	**0.0551**	**0.0031**	**0.0779**	**0.0001**	7
City	*2.04E-03*	*7.90E-02*	*-*	*2.15E-02*	*3.28E-03*	*1.58E-01*	*1.59E-02*	*1.69E-03*	*2.79E-02*	*6.57E-03*	*3.60E-03*	*1.02E-03*	*1.12E-02*	*6.23E-04*	*1.58E-02*	*-*	8
WNOC	*8.00E-03*	*3.09E-01*	*4.48E-06*	*8.42E-02*	*1.29E-02*	*6.18E-01*	*6.21E-02*	*6.65E-03*	*1.09E-01*	*2.58E-02*	*1.41E-02*	*3.99E-03*	*4.39E-02*	*2.44E-03*	*6.21E-02*	*6.44E-05*	9
																	10

*Diesel chronic risk is calculated from total diesel PM10 emissions, not from its speciated exhaust TACs - No VOC TACs from diesel equipment are analyzed separately for cancer and chronic non-cancer risks. 11

	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	lbs/yr	12
City Diesel*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13
WNOC Diesel*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14
City Gasoline	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
WNOC Gasoline	3.46E-01	1.52E-01	8.50E-02	1.66E+00	6.75E-01	1.07E+00	1.20E-02	9.97E-01	1.97E+00	2.29E+00	7.97E-01	-	3.09	7.93E-02	3.70E+00	1.22E+00	16
Total -->	0.35	0.15	0.09	1.66	0.68	1.07	0.01	1.00	1.97	2.29	0.80	-	3.09	0.08	3.70	1.22	17
City	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18
WNOC	*3.46E-01*	*1.52E-01*	*8.50E-02*	*1.66E+00*	*6.75E-01*	*1.07E+00*	*1.20E-02*	*9.97E-01*	*1.97E+00*	*2.29E+00*	*7.97E-01*	*-*	*3.09E+00*	*7.93E-02*	*3.70E+00*	*1.22E+00*	19

Newport Banning Ranch
Future Consolidated Oilfield
HARP Model Inputs

Pounds per Hour (lbs/hr)	**diesel particulate matter**	**ARSENIC**	**CADMIUM**	**CHROMIUM VI**	**1,3-butadiene**	**acetaldehyde**	**ammonia**	**benzene**	**formaldehyde**	**SULFATES**	**chlorine**	**PAHs, total, with components not reported**	**acrolein**	**BROMINE**	**COPPER**	**LEAD**	**MANGANESE**	**VANADIUM**
WNOC	0.104420	0.000000522	0.00000418	0.000000183	0.00087	0.03342	0.12390	0.01896	0.06968	0.00184	0.000039	0.000010274	0.000000484	0.000002	0.000003	0.000004	0.000004	0.000003
NBOPS	0.050299	0.000000251	0.00000201	0.000000086	0.00026	0.00988	0.02256	0.01727	0.01978	0.00088	0.000017	0.000000342	-	0.000001	0.000001	0.000002	0.000002	0.000001
TRUCKS2	0.016274	0.000000081	0.00000065	0.000000028	0.00013	0.00521	-	0.00142	0.01042	0.00029	0.0000061	-	0.000000075	0.0000003	0.0000004	0.0000007	0.0000007	0.0000005
TRUCKS_F	-	0.000028969	0.00002511	0.000004690	-	-	-	-	-	0.01098	0.001630	-	-	0.000035	0.000305	0.000251	0.001767	0.000149

Pounds per year (lbs/yr)	**diesel particulate matter**	**ARSENIC**	**CADMIUM**	**CHROMIUM VI**	**1,3-butadiene**	**acetaldehyde**	**ammonia**	**benzene**	**formaldehyde**	**SULFATES**	**Chlorine**	**PAHs, total, with components not reported**	**acrolein**	**BROMINE**	**COPPER**	**LEAD**	**MANGANESE**	**VANADIUM**
WNOC	72.21	-	-	0.00054	0.29964	0.13130	361.80	30.22209	9.11561	3.42083	0.53213	0.03000	0.07355	0.00380	0.00380	-	0.00380	-
NBOPS	1.09	-	-	-	-	-	65.88	42.58000	0.06000	-	-	0.0010	-	-	-	-	-	-
TRUCKS2	11.25	-	-	0.000085	0.04670	0.02046	-	0.22382	0.14426	0.53314	0.08293	-	0.01146	0.00059	0.00059	-	0.00059	-
TRUCKS_F	-	0.00640	0.005550	0.0010	-	-	-	-	-	2.42704	0.36032	-	-	0.00768	0.06745	0.05550	0.39063	0.03287

Input Adjustment
1.00E+00

8 hrs/day

AERMOD Sources

ID	**Area (m^2)**		**Unit Emissions**
NBOPS	15,317		6.53E-05
WNOC	47,862	87%	2.09E-05
TRUCKS2	7,459	13%	1.34E-04
TRUCKS_F	7,459		1.34E-04
Total WNOC	55,321		

Newport Banning Ranch
Future Consolidated Oilfield
HARP Model Inputs

Pounds per Hour (lbs/hr)	**MERCURY**	**NICKEL**	**SELENiUM**	**methyl ethyl ketone (mek) (2-butanone)**	**propylene**	**styrene**	**toluene**	**p-xylene**	**ethylbenzene**	**methyl t-butyl ether (mtbe)**	**m-xylene**	**n-hexane**	**o-xylene**
WNOC	0.000003	0.000002	0.000001	0.006713	0.011814	0.000264	0.006716	0.000432	0.001390	0.000007	0.002790	0.000719	0.001527
NBOPS	0.000002	0.000001	0.000001	0.001984	0.003488	0.000078	0.001978	0.000128	0.000410	-	0.000821	0.000211	0.000450
TRUCKS2	0.0000005	0.0000003	0.0000002	0.0010462	0.0018413	0.0000412	0.0010467	0.0000673	0.0002166	0.0000011	0.0004348	0.0001121	0.0002380
TRUCKS_F	0.000027	0.000071	0.000006	-	-	-	-	-	-	-	-	-	-

Pounds per year (lbs/yr)	**MERCURY**	**NICKEL**	**SELENiUM**	**methyl ethyl ketone (mek) (2-butanone)**	**propylene**	**styrene**	**toluene**	**p-xylene**	**ethylbenzene**	**methyl t-butyl ether (mtbe)**	**m-xylene**	**n-hexane**	**o-xylene**
WNOC	-	0.00380	-	0.01035	1.70413	0.06864	3.20342	-	0.58402	1.05745	1.98307	0.86296	0.68917
NBOPS	-	-	-	-	-	-	-	-	-	-	-	-	-
TRUCKS2	-	0.00059	-	0.00161	0.26559	0.01070	0.49926	-	0.09102	0.16481	0.30906	0.13449	0.10741
TRUCKS_F	0.00598	0.01580	0.00128	-	-	-	-	-	-	-	-	-	-

Newport Banning Ranch
Proposed Project Residential and Commercial Development
Criteria, Greenhouse Gas, and Toxic Air Emissions

Criteria Pollutants

	CO	ROG	NOx	SOX	PM10	PM2.5	CO	ROG	NOx	SOX	PM10	PM2.5
	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)
Residential and Commercial	34.63	76.21	26.32	-	0.74	0.73	12,640	29,120	6,520	-	40	40
Vehicles	676.76	67.43	78.94	1.00	167.33	32.38	243,640	23,520	25,480	360	61,080	11,800
Total	711.4	143.6	105.3	1.0	168.1	33.1	256,280	52,640	32,000	360	61,120	11,840

Includes offsite vehicle travel

Greenhouse Gases

	CO2	CH4	CO2e
	(metric tons/yr)	(metric tons/yr)	(metric tons/yr)
Residential and Commercial	33,500	NA	33,500
Vehicles	89,852	NA	89,852
Total	123,352	-	123,352

includes offsite vehicle travel

ROG	ROG	PM10	PM10
(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)
18.0	52,640	21.0	61,120

Toxic Air Contaminants

Pounds per day (lbs/day)	**ARSENIC**	**CADMIUM**	**CHLORINE**	**CHROMIUM VI**	**COPPER**	**LEAD**	**MANGANESE**	**MERCURY**	**NICKEL**	**SELENIUM**	**VANADIUM**	**1,1,1-trichloroethane**	**1,3-butadiene**	**2-ethoxyethanol {cellosolve} {egee}**
Residential and Commercial	0.0E+00	0.00E+00	5.60E-03	5.71E-06	4.00E-05	0.00E+00	4.00E-05	0.00E+00	4.00E-05	0.00E+00	0.00E+00	3.71E+00	3.34E-02	4.23E-02
Vehicles	7.95E-05	1.88E-05	4.86E-02	6.11E-05	1.23E-03	7.58E-04	5.21E-03	5.54E-05	3.97E-04	1.23E-05	4.34E-04	3.71E+00	1.75E-01	4.23E-02
Total	**7.95E-05**	**1.88E-05**	**5.42E-02**	**6.68E-05**	**1.27E-03**	**7.58E-04**	**5.25E-03**	**5.54E-05**	**4.37E-04**	**1.23E-05**	**4.34E-04**	**7.42E+00**	**2.08E-01**	**8.46E-02**

Pounds per year (lbs/yr)	**Diesel Particulate Matter**	**ARSENIC**	**CADMIUM**	**CHLORINE**	**CHROMIUM VI**	**COPPER**	**LEAD**	**MANGANESE**	**MERCURY**	**NICKEL**	**SELENIUM**	**VANADIUM**	**1,1,1-trichloroethane**	**1,3-butadiene**
Residential and Commercial		0.00E+00	0.00E+00	1.40E+00	1.43E-03	1.00E-02	0.00E+00	1.00E-02	0.00E+00	1.00E-02	0.00E+00	0.00E+00	1.35E+03	1.23E+01
Vehicles	4.93E+00	2.89E-02	6.66E-03	1.90E+01	2.36E-02	4.56E-01	2.75E-01	1.90E+00	2.00E-02	1.54E-01	4.44E-03	1.58E-01	0.00E+00	4.95E+01
Total	**4.93E+00**	**2.89E-02**	**6.66E-03**	**2.04E+01**	**2.50E-02**	**4.66E-01**	**2.75E-01**	**1.91E+00**	**2.00E-02**	**1.64E-01**	**4.44E-03**	**1.58E-01**	**1.35E+03**	**6.18E+01**

NOTE: Annual Emissions do not include toxics from diesel exhaust as diesel PM is considered to be a toxic air pollutant for chronic health risk exposure

0.91 metric tons/short tons

Pounds per day (lbs/day)	2-ethoxyethyl acetate {cellosolve acetate}	acetaldehyde	acrolein (2-propenal)	benzene	chlorobenzene	chloropicrin	dichloromethane {methylene chloride}	ethyl chloride	ethylbenzene	ethylene glycol	ethylene oxide	formaldehyde	isomers of xylene	isopropyl alcohol	methyl ethyl ketone (mek) (2-butanone)
Residential and Commercial	4.94E-02	3.02E-02	7.25E-03	2.25E-01	2.82E-02	1.13E-01	3.60E-01	2.31E-02	1.03E-01	1.23E+00	1.55E-01	2.96E-01	1.69E+00	2.06E+00	9.48E-01
Vehicles	4.94E-02	1.29E-01	4.16E-02	9.05E-01	2.82E-02	1.13E-01	3.60E-01	2.31E-02	3.77E-01	1.23E+00	1.55E-01	8.03E-01	1.69E+00	2.06E+00	9.60E-01
Total	**9.88E-02**	**1.60E-01**	**4.88E-02**	**1.13E+00**	**5.64E-02**	**2.26E-01**	**7.20E-01**	**4.62E-02**	**4.80E-01**	**2.47E+00**	**3.10E-01**	**1.10E+00**	**3.37E+00**	**4.12E+00**	**1.91E+00**

Pounds per year (lbs/yr)	2-ethoxyethanol {cellosolve} {egee}	2-ethoxyethyl acetate {cellosolve acetate}	acetaldehyde	acrolein (2-propenal)	benzene	chlorobenzene	chloropicrin	dichloromethane {methylene chloride}	ethyl chloride	ethylbenzene	ethylene glycol	ethylene oxide	formaldehyde	isomers of xylene	isopropyl alcohol
Residential and Commercial	1.54E+01	1.80E+01	1.11E+01	2.66E+00	7.52E+01	1.03E+01	4.12E+01	1.32E+02	8.48E+00	3.76E+01	4.50E+02	5.66E+01	9.39E+01	6.15E+02	7.52E+02
Vehicles	0.00E+00	0.00E+00	2.23E+01	1.21E+01	2.36E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E+01	0.00E+00	0.00E+00	1.54E+02	0.00E+00	0.00E+00
Total	**1.54E+01**	**1.80E+01**	**3.34E+01**	**1.48E+01**	**3.12E+02**	**1.03E+01**	**4.12E+01**	**1.32E+02**	**8.48E+00**	**1.34E+02**	**4.50E+02**	**5.66E+01**	**2.48E+02**	**6.15E+02**	**7.52E+02**

Pounds per day (lbs/day)	methyl t-butyl ether (mtbe)	m-xylene	n-hexane	o-cresol (2-methyl-benzenol)	o-xylene	p-dichlorobenzene	perchloroethylene	phenol (carbolic acid)	propylene	propylene glycol methyl ether {1-methoxy-2-propanol}	p-xylene	styrene	toluene
Residential and Commercial	7.50E-02	4.19E-01	6.59E-01	2.12E-02	2.46E-01	1.28E+00	3.74E-01	7.05E-03	1.97E-01	1.20E-01	1.41E+00	1.23E-02	2.79E+00
Vehicles	5.66E-01	1.35E+00	1.06E+00	2.12E-02	5.69E-01	1.28E+00	3.74E-01	7.05E-03	1.01E+00	1.20E-01	1.41E+00	4.45E-02	4.29E+00
Total	**6.41E-01**	**1.77E+00**	**1.72E+00**	**4.23E-02**	**8.15E-01**	**2.55E+00**	**7.48E-01**	**1.41E-02**	**1.21E+00**	**2.40E-01**	**2.82E+00**	**5.68E-02**	**7.09E+00**

Pounds per year (lbs/yr)	methyl ethyl ketone (mek) (2-butanone)	methyl t-butyl ether (mtbe)	m-xylene	n-hexane	o-cresol (2-methyl-benzenol)	o-xylene	p-dichlorobenzene	perchloroethylene	phenol (carbolic acid)	propylene	propylene glycol methyl ether {1-methoxy-2-propanol}	p-xylene	styrene	toluene
Residential and Commercial	3.46E+02	2.75E+01	1.53E+02	2.41E+02	7.72E+00	8.99E+01	4.66E+02	1.36E+02	2.57E+00	7.25E+01	4.38E+01	5.15E+02	4.50E+00	1.02E+03
Vehicles	1.76E+00	1.73E+02	3.26E+02	1.41E+02	0.00E+00	1.13E+02	0.00E+00	0.00E+00	0.00E+00	2.82E+02	0.00E+00	0.00E+00	1.13E+01	5.26E+02
Total	**3.48E+02**	**2.01E+02**	**4.80E+02**	**3.82E+02**	**7.72E+00**	**2.03E+02**	**4.66E+02**	**1.36E+02**	**2.57E+00**	**3.54E+02**	**4.38E+01**	**5.15E+02**	**1.58E+01**	**1.54E+03**

Newport Banning Ranch
Toxic Inventory - Both On and Offsite

Proposed Project Residential & Commercial Development

	VOC		PM10	
	lbs/day	lbs/yr	lbs/day	lbs/yr
Natural Gas	1.35	500	0.03	20
Hearth	0.51	-	0.71	-
Landscape	4.03	1,480	0.08	20
Consumer Products	70.54	25,740	-	-
Architectural Coatings	3.81	1,400	-	-
Vehicles - Gasoline	60.88	22,697	15.74	5,746
Vehicles - Gasoline - Not Cat	1.01	377	0.26	95
Vehicles - Diesel	1.20	446	0.31	113
Vehicles Paved Road Dust	NA	NA	151.02	55,125

	Dust	PM10
Total	90%	10%

2000 lbs/ton

PM - TACs

	ARSENIC	BROMINE	CADMIUM	CHLORINE	CHROMIUM VI	COPPER	LEAD	MANGANESE	MERCURY	NICKEL	SELENIUM	SULFATES	VANADIUM	
	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	2
Natural Gas	-	-	-	-	-	-	-	-	-	-	-	6.00E-03	-	3
Hearth - Natural Gas	-	-	-	-	-	-	-	-	-	-	-	1.42E-01	-	4
Landscape	-	4.00E-05	-	5.60E-03	5.71E-06	4.00E-05	-	4.00E-05	-	4.00E-05	-	3.60E-02	-	5
Consumer Products	-	-	-	-	-	-	-	-	-	-	-	-	-	6
Architectural Coatings	-	-	-	-	-	-	-	-	-	-	-	-	-	7
Subtotal: Res&Comm Buildings	-	*4.00E-05*	-	*5.60E-03*	*5.71E-06*	*4.00E-05*	-	*4.00E-05*	-	*4.00E-05*	-	*1.84E-01*	-	8
Vehicles - Gasoline	-	7.87E-03	-	1.10E+00	1.12E-03	7.87E-03	-	7.87E-03	-	7.87E-03	-	7.08E+00	-	9
Vehicles - Gasoline - Not Cat	-	1.31E-04	-	1.83E-02	1.87E-05	1.31E-04	-	1.31E-04	-	1.31E-04	-	1.18E-01	-	10
Vehicles - Diesel	1.55E-06	5.57E-06	1.24E-05	1.06E-04	5.31E-07	7.74E-06	1.30E-05	1.24E-05	9.29E-06	5.88E-06	3.10E-06	5.40E-03	8.98E-06	11
Vehicles Paved Road Dust	1.96E-03	1.81E-03	4.53E-04	8.05E-02	3.67E-04	2.24E-02	1.87E-02	1.21E-01	1.36E-03	1.81E-03	3.02E-04	4.07E-01	1.07E-02	12
Subtotal: Vehicles	*1.96E-03*	*9.82E-03*	*4.65E-04*	*1.20E+00*	*1.51E-03*	*3.04E-02*	*1.87E-02*	*1.29E-01*	*1.37E-03*	*9.82E-03*	*3.05E-04*	*7.61E+00*	*1.07E-02*	13
Total	1.96E-03	9.86E-03	4.65E-04	1.21E+00	1.52E-03	3.04E-02	1.87E-02	1.29E-01	1.37E-03	9.86E-03	3.05E-04	7.80E+00	1.07E-02	14

	Diesel Particulate Matter	ARSENIC	BROMINE	CADMIUM	CHLORINE	CHROMIUM VI	COPPER	LEAD	MANGANESE	MERCURY	NICKEL	SELENIUM	SULFATES	VANADIUM	
	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	2
Natural Gas	NA	-	-	-	-		-	-	-	-	-	-	4.00	-	3
Hearth - Natural Gas	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Landscape	NA	-	0.010	-	1.400	0.001	0.010	-	0.010	-	0.010	-	9.000	-	5
Consumer Products	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	6
Architectural Coatings	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	7
Subtotal: Res&Comm Buildings	-	-	*0.01*	-	*1.40*	*0.00*	*0.01*	-	*0.01*	-	*0.01*	-	*13.00*	-	8
Vehicles - Gasoline	NA	-	2.87	-	402.24	0.41	2.87	-	2.87	-	2.87	-	2,585.84	-	9
Vehicles - Gasoline - Not Cat	NA	-	0.05	-	6.67	0.01	0.05	-	0.05	-	0.05	-	42.90	-	10
Vehicles - Diesel	113.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11
Vehicles Paved Road Dust	NA	0.72	0.66	0.17	29.38	0.13	8.16	6.84	44.10	0.50	0.66	0.11	148.40	3.91	12
Subtotal: Vehicles	*112.99*	*0.72*	*3.58*	*0.17*	*438.30*	*0.55*	*11.08*	*6.84*	*47.02*	*0.50*	*3.58*	*0.11*	*2,777.13*	*3.91*	13
Total	112.995	0.717	3.592	0.165	439.696	0.553	11.089	6.836	47.031	0.496	3.592	0.110	2,790.130	3.914	14

Newport Banning Ranch
Toxic Inventory - Both On and Offsite

Proposed Project Residential & Commercial Development

VOC - TACs

	1,1,1-trichloroethane (lbs/day)	1,3-butadiene (lbs/day)	2-ethoxyethanol {cellosolve} {egee} (lbs/day)	2-ethoxyethyl acetate {cellosolve acetate} (lbs/day)	acetaldehyde (lbs/day)	acrolein (2-propenal) (lbs/day)	benzene (lbs/day)	chlorobenzene (lbs/day)	chloropicrin (lbs/day)	dichloromethane {methylene chloride} (lbs/day)	ethyl chloride (lbs/day)	ethylbenzene (lbs/day)	ethylene glycol (lbs/day)	ethylene oxide (lbs/day)	formaldehyde (lbs/day)
Natural Gas	-	-	-	-	-	-	0.05	-	-	-	-	-	-	-	0.11
Hearth - Natural Gas	-	-	-	-	-	-	0.02	-	-	-	-	-	-	-	0.04
Landscape	-	0.03	-	-	0.03	0.01	0.14	-	-	-	-	0.06	-	-	0.13
Consumer Products	3.71	-	0.04	0.05	-	-	-	0.03	0.11	0.15	-	0.04	1.21	0.16	0.02
Architectural Coatings	-	-	-	-	-	-	0.01	-	-	0.21	0.02	-	0.02	-	-
Subtotal: Res&Comm Buildings	*3.71*	*0.03*	*0.04*	*0.05*	*0.03*	*0.01*	*0.22*	*0.03*	*0.11*	*0.36*	*0.02*	*0.10*	*1.23*	*0.16*	*0.30*
Vehicles - Gasoline	-	0.33	-	-	0.15	0.08	1.60	-	-	-	-	0.65	-	-	1.03
Vehicles - Gasoline - Not Cat	-	0.01	-	-	0.01	0.00	0.03	-	-	-	-	0.02	-	-	0.03
Vehicles - Diesel	-	0.00	-	-	0.09	-	0.02	-	-	-	-	0.00	-	-	0.18
Subtotal: Vehicles	-	*0.35*	-	-	*0.24*	*0.08*	*1.66*	-	-	-	-	*0.67*	-	-	*1.24*
Total	3.710	0.379	0.042	0.049	0.273	0.091	1.888	0.028	0.113	0.360	0.023	0.774	1.233	0.155	1.538

	1,1,1-trichloroethane (lbs/yr)	1,3-butadiene (lbs/yr)	2-ethoxyethanol {cellosolve} {egee} (lbs/yr)	2-ethoxyethyl acetate {cellosolve acetate} (lbs/yr)	acetaldehyde (lbs/yr)	acrolein (2-propenal) (lbs/yr)	benzene (lbs/yr)	chlorobenzene (lbs/yr)	chloropicrin (lbs/yr)	dichloromethane {methylene chloride} (lbs/yr)	ethyl chloride (lbs/yr)	ethylbenzene (lbs/yr)	ethylene glycol (lbs/yr)	ethylene oxide (lbs/yr)	formaldehyde (lbs/yr)
Natural Gas	-	-	-	-	-	-	20.00	-	-	-	-	-	-	-	40.00
Hearth - Natural Gas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Landscape	-	12.28	-	-	11.10	2.66	50.91	-	-	-	-	22.20	-	-	46.18
Consumer Products	1,353.92	-	15.44	18.02	-	-	-	10.30	41.18	54.05	-	15.44	442.73	56.63	7.72
Architectural Coatings	-	-	-	-	-	-	4.24	-	-	77.78	8.48	-	7.07	-	-
Subtotal: Res&Comm Buildings	*1,353.92*	*12.28*	*15.44*	*18.02*	*11.10*	*2.66*	*75.15*	*10.30*	*41.18*	*131.84*	*8.48*	*37.64*	*449.80*	*56.63*	*93.90*
Vehicles - Gasoline	-	124.83	-	-	54.70	30.64	598.30	-	-	-	-	243.31	-	-	385.62
Vehicles - Gasoline - Not Cat	-	3.13	-	-	2.82	0.68	12.95	-	-	-	-	5.65	-	-	11.75
Vehicles - Diesel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Subtotal: Vehicles	-	*127.96*	-	-	*57.52*	*31.32*	*611.25*	-	-	-	-	*248.96*	-	-	*397.37*
Total	1,353.923	140.244	15.444	18.018	68.624	33.983	686.404	10.296	41.184	131.838	8.484	286.605	449.797	56.628	491.270

*Diesel chronic risk is calculated from total diesel PM10 emissions, not from its speciated exhaust TACs - No VOC TACs from diesel equipment are analyzed separately for cancer and chronic non-cancer risks.

VOC - TACs (cont.)

	isomers of xylene (lbs/day)	isopropyl alcohol (lbs/day)	methyl ethyl ketone (mek) (2-butanone) (lbs/day)	methyl t-butyl ether (mtbe) (lbs/day)	m-xylene (lbs/day)	n-hexane (lbs/day)	o-cresol (2-methyl-benzenol) (lbs/day)	o-xylene (lbs/day)	p-dichlorobenzene (lbs/day)	perchloroethylene (lbs/day)	phenol (carbolic acid) (lbs/day)	propylene (lbs/day)	propylene glycol methyl ether {1-methoxy-2-propanol} (lbs/day)	p-xylene (lbs/day)	styrene (lbs/day)	toluene (lbs/day)
Natural Gas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03
Hearth - Natural Gas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
Landscape	-	-	0.00	0.07	0.18	0.05	-	0.06	-	-	-	0.20	-	-	0.01	0.27
Consumer Products	1.69	2.06	0.95	-	0.24	0.61	0.02	0.18	1.28	0.37	0.01	-	0.12	1.41	0.01	2.48
Architectural Coatings	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Res&Comm Buildings	*1.69*	*2.06*	*0.95*	*0.07*	*0.42*	*0.66*	*0.02*	*0.25*	*1.28*	*0.37*	*0.01*	*0.20*	*0.12*	*1.41*	*0.01*	*2.79*
Vehicles - Gasoline	-	-	0.01	1.18	2.22	0.96	-	0.77	-	-	-	1.90	-	-	0.08	3.58
Vehicles - Gasoline - Not Cat	-	-	0.00	0.02	0.04	0.01	-	0.02	-	-	-	0.05	-	-	0.00	0.07
Vehicles - Diesel	-	-	0.02	-	0.01	0.00	-	0.00	-	-	-	0.03	-	0.00	0.00	0.02
Subtotal: Vehicles	-	-	*0.03*	*1.20*	*2.27*	*0.98*	-	*0.79*	-	-	-	*1.98*	-	*0.00*	*0.08*	*3.67*
Total	1.686	2.060	0.978	1.275	2.688	1.639	0.021	1.036	1.277	0.374	0.007	2.182	0.120	1.412	0.091	6.460

	isomers of xylene (lbs/yr)	isopropyl alcohol (lbs/yr)	methyl ethyl ketone (mek) (2-butanone) (lbs/yr)	methyl t-butyl ether (mtbe) (lbs/yr)	m-xylene (lbs/yr)	n-hexane (lbs/yr)	o-cresol (2-methyl-benzenol) (lbs/yr)	o-xylene (lbs/yr)	p-dichlorobenzene (lbs/yr)	perchloroethylene (lbs/yr)	phenol (carbolic acid) (lbs/yr)	propylene (lbs/yr)	propylene glycol methyl ether {1-methoxy-2-propanol} (lbs/yr)	p-xylene (lbs/yr)	styrene (lbs/yr)	toluene (lbs/yr)
Natural Gas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.00
Hearth - Natural Gas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Landscape	-	-	0.89	27.53	65.86	19.39	-	22.94	-	-	-	72.52	-	-	1.92	100.49
Consumer Products	615.19	751.61	344.92	-	87.52	221.36	7.72	66.92	465.89	136.42	2.57	-	43.76	514.80	2.57	906.05
Architectural Coatings	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Res&Comm Buildings	*615.19*	*751.61*	*345.80*	*27.53*	*153.38*	*240.75*	*7.72*	*89.86*	*465.89*	*136.42*	*2.57*	*72.52*	*43.76*	*514.80*	*4.50*	*1,016.54*
Vehicles - Gasoline	-	-	4.31	440.55	826.18	359.52	-	287.12	-	-	-	709.97	-	-	28.60	1,334.59
Vehicles - Gasoline - Not Cat	-	-	0.23	7.00	16.76	4.93	-	5.84	-	-	-	18.45	-	-	0.49	25.57
Vehicles - Diesel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Subtotal: Vehicles	-	-	*4.54*	*447.56*	*842.93*	*364.46*	-	*292.95*	-	-	-	*728.42*	-	-	*29.09*	*1,360.16*
Total	615.185	751.607	350.342	475.083	996.308	605.207	7.722	382.819	465.894	136.422	2.574	800.937	43.758	514.800	33.586	2,376.70

Newport Banning Ranch
Toxic Inventory - Onsite Only

Proposed Project Residential & Commercial Development

	VOC		PM10	
	lbs/day	lbs/yr	lbs/day	lbs/yr
Natural Gas	1.35	500	0.03	20
Hearth	0.51	-	0.71	-
Landscape	4.03	1,480	0.08	20
Consumer Products	70.54	25,740	-	-
Architectural Coatings	3.81	1,400	-	-
Vehicles - Gasoline	24.89	8,782	0.64	251
Vehicles - Gasoline - Not Cat	0.41	146	0.01	4
Vehicles - Diesel	0.49	173	0.01	5
Vehicles Paved Road Dust	NA	NA	6.11	2,220

2000 lbs/ton

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PM - TACs

	ARSENIC	BROMINE	CADMIUM	CHLORINE	CHROMIUM VI	COPPER	LEAD	MANGANESE	MERCURY	NICKEL	SELENIUM	SULFATES	VANADIUM	
	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)	2
Natural Gas	-	-	-	-	-	-	-	-	-	-	-	6.00E-03	-	3
Hearth - Natural Gas	-	-	-	-	-	-	-	-	-	-	-	1.42E-01	-	4
Landscape	-	4.00E-05	-	5.60E-03	5.71E-06	4.00E-05	-	4.00E-05	-	4.00E-05	-	3.60E-02	-	5
Consumer Products	-	-	-	-	-	-	-	-	-	-	-	-	-	6
Architectural Coatings	-	-	-	-	-	-	-	-	-	-	-	-	-	7
Subtotal: Res&Comm Buildings	-	*4.00E-05*	-	*5.60E-03*	*5.71E-06*	*4.00E-05*	-	*4.00E-05*	-	*4.00E-05*	-	*1.84E-01*	-	8
Vehicles - Gasoline	-	3.18E-04	-	4.46E-02	4.55E-05	3.18E-04	-	3.18E-04	-	3.18E-04	-	2.87E-01	-	9
Vehicles - Gasoline - Not Cat	-	5.28E-06	-	7.40E-04	7.55E-07	5.28E-06	-	5.28E-06	-	5.28E-06	-	4.75E-03	-	10
Vehicles - Diesel	6.26E-08	2.25E-07	5.01E-07	4.31E-06	2.15E-08	3.13E-07	5.26E-07	5.01E-07	3.76E-07	2.38E-07	1.25E-07	2.18E-04	3.63E-07	11
Vehicles Paved Road Dust	7.94E-05	7.33E-05	1.83E-05	3.26E-03	1.48E-05	9.04E-04	7.58E-04	4.89E-03	5.50E-05	7.33E-05	1.22E-05	1.64E-02	4.34E-04	12
Subtotal: Vehicles	*7.95E-05*	*3.97E-04*	*1.88E-05*	*4.86E-02*	*6.11E-05*	*1.23E-03*	*7.58E-04*	*5.21E-03*	*5.54E-05*	*3.97E-04*	*1.23E-05*	*3.08E-01*	*4.34E-04*	13
Total	7.95E-05	4.37E-04	1.88E-05	5.42E-02	6.68E-05	1.27E-03	7.58E-04	5.25E-03	5.54E-05	4.37E-04	1.23E-05	4.92E-01	4.34E-04	14

	Diesel Particulate Matter	ARSENIC	BROMINE	CADMIUM	CHLORINE	CHROMIUM VI	COPPER	LEAD	MANGANESE	MERCURY	NICKEL	SELENIUM	SULFATES	VANADIUM	
	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	(lbs/yr)	2
Natural Gas	NA	-	-	-	-	-	-	-	-	-	-	-	4.00	-	3
Hearth - Natural Gas	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Landscape	NA	-	0.010	-	1.400	0.001	0.010	-	0.010	-	0.010	-	9.000	-	5
Consumer Products	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	6
Architectural Coatings	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	7
Subtotal: Res&Comm Buildings	-	-	*0.01*	-	*1.40*	*0.001*	*0.01*	-	*0.01*	-	*0.01*	-	*13.00*	-	8
Vehicles - Gasoline	NA	-	0.13	-	17.56	0.018	0.13	-	0.13	-	0.13	-	112.91	-	9
Vehicles - Gasoline - Not Cat	NA	-	0.00	-	0.29	0.000	0.00	-	0.00	-	0.00	-	1.87	-	10
Vehicles - Diesel	4.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11
Vehicles Paved Road Dust	NA	0.03	0.03	0.01	1.18	0.005	0.33	0.28	1.78	0.02	0.03	0.00	5.98	0.16	12
Subtotal: Vehicles	*4.93*	*0.03*	*0.15*	*0.01*	*19.04*	*0.024*	*0.46*	*0.28*	*1.90*	*0.02*	*0.15*	*0.00*	*120.76*	*0.16*	13
Total	4.934	0.029	0.164	0.007	20.438	0.025	0.466	0.275	1.914	0.020	0.164	0.004	133.756	0.158	14

Newport Banning Ranch
Toxic Inventory - Onsite Only

Proposed Project Residential & Commercial Development

VOC - TACs

	1,1,1-trichloroethane (lbs/day)	1,3-butadiene (lbs/day)	2-ethoxyethanol {cellosolve} {egee} (lbs/day)	2-ethoxyethyl acetate {cellosolve acetate} (lbs/day)	acetaldehyde (lbs/day)	acrolein (2-propenal) (lbs/day)	benzene (lbs/day)	chlorobenzene (lbs/day)	chloropicrin (lbs/day)	dichloromethane {methylene chloride} (lbs/day)	ethyl chloride (lbs/day)	ethylbenzene (lbs/day)	ethylene glycol (lbs/day)	ethylene oxide (lbs/day)	formaldehyde (lbs/day)
Natural Gas	-	-	-	-	-	-	0.05	-	-	-	-	-	-	-	0.11
Hearth - Natural Gas	-	-	-	-	-	-	0.02	-	-	-	-	-	-	-	0.04
Landscape	-	0.03	-	-	0.03	0.01	0.14	-	-	-	-	0.06	-	-	0.13
Consumer Products	3.71	-	0.04	0.05	-	-	-	0.03	0.11	0.15	-	0.04	1.21	0.16	0.02
Architectural Coatings	-	-	-	-	-	-	0.01	-	-	0.21	0.02	-	0.02	-	-
Subtotal: Res&Comm Buildings	*3.71*	*0.03*	*0.04*	*0.05*	*0.03*	*0.01*	*0.22*	*0.03*	*0.11*	*0.36*	*0.02*	*0.10*	*1.23*	*0.16*	*0.30*
Vehicles - Gasoline	-	0.14	-	-	0.06	0.03	0.66	-	-	-	-	0.27	-	-	0.42
Vehicles - Gasoline - Not Cat	-	0.00	-	-	0.00	0.00	0.01	-	-	-	-	0.01	-	-	0.01
Vehicles - Diesel	-	0.00	-	-	0.04	-	0.01	-	-	-	-	0.00	-	-	0.07
Subtotal: Vehicles	-	*0.14*	-	-	*0.10*	*0.03*	*0.68*	-	-	-	-	*0.27*	-	-	*0.51*
Total	**3.710**	**0.175**	**0.042**	**0.049**	**0.129**	**0.042**	**0.905**	**0.028**	**0.113**	**0.360**	**0.023**	**0.377**	**1.233**	**0.155**	**0.803**

	1,1,1-trichloroethane (lbs/yr)	1,3-butadiene (lbs/yr)	2-ethoxyethanol {cellosolve} {egee} (lbs/yr)	2-ethoxyethyl acetate {cellosolve acetate} (lbs/yr)	acetaldehyde (lbs/yr)	acrolein (2-propenal) (lbs/yr)	benzene (lbs/yr)	chlorobenzene (lbs/yr)	chloropicrin (lbs/yr)	dichloromethane {methylene chloride} (lbs/yr)	ethyl chloride (lbs/yr)	ethylbenzene (lbs/yr)	ethylene glycol (lbs/yr)	ethylene oxide (lbs/yr)	formaldehyde (lbs/yr)
Natural Gas	-	-	-	-	-	-	20.00	-	-	-	-	-	-	-	40.00
Hearth - Natural Gas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Landscape	-	12.28	-	-	11.10	2.66	50.91	-	-	-	-	22.20	-	-	46.18
Consumer Products	1,353.92	-	15.44	18.02	-	-	-	10.30	41.18	54.05	-	15.44	442.73	56.63	7.72
Architectural Coatings	-	-	-	-	-	-	4.24	-	-	77.78	8.48	-	7.07	-	-
Subtotal: Res&Comm Buildings	*1,353.92*	*12.28*	*15.44*	*18.02*	*11.10*	*2.66*	*75.15*	*10.30*	*41.18*	*131.84*	*8.48*	*37.64*	*449.80*	*56.63*	*93.90*
Vehicles - Gasoline	-	48.30	-	-	21.16	11.86	231.48	-	-	-	-	94.14	-	-	149.20
Vehicles - Gasoline - Not Cat	-	1.21	-	-	1.09	0.26	5.01	-	-	-	-	2.19	-	-	4.55
Vehicles - Diesel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Subtotal: Vehicles	-	*49.51*	-	-	*22.26*	*12.12*	*236.50*	-	-	-	-	*96.32*	-	-	*153.75*
Total	**1,353.923**	**61.792**	**15.444**	**18.018**	**33.356**	**14.781**	**311.649**	**10.296**	**41.184**	**131.838**	**8.484**	**133.968**	**449.797**	**56.628**	**247.643**

*Diesel chronic risk is calculated from total diesel PM10 emissions, not from its speciated exhaust TACs - No VOC TACs from diesel equipment are analyzed separately for cancer and chronic non-cancer risks.

VOC - TACs (cont.)

	isomers of xylene (lbs/day)	isopropyl alcohol (lbs/day)	methyl ethyl ketone (mek) (2-butanone) (lbs/day)	methyl t-butyl ether (mtbe) (lbs/day)	m-xylene (lbs/day)	n-hexane (lbs/day)	o-cresol (2-methyl-benzenol) (lbs/day)	o-xylene (lbs/day)	p-dichlorobenzene (lbs/day)	perchloroethylene (lbs/day)	phenol (carbolic acid) (lbs/day)	propylene (lbs/day)	propylene glycol methyl ether {1-methoxy-2-propanol} (lbs/day)	p-xylene (lbs/day)	styrene (lbs/day)	toluene (lbs/day)
Natural Gas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03
Hearth - Natural Gas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01
Landscape	-	-	0.00	0.07	0.18	0.05	-	0.06	-	-	-	0.20	-	-	0.01	0.27
Consumer Products	1.69	2.06	0.95	-	0.24	0.61	0.02	0.18	1.28	0.37	0.01	-	0.12	1.41	0.01	2.48
Architectural Coatings	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Res&Comm Buildings	*1.69*	*2.06*	*0.95*	*0.07*	*0.42*	*0.66*	*0.02*	*0.25*	*1.28*	*0.37*	*0.01*	*0.20*	*0.12*	*1.41*	*0.01*	*2.79*
Vehicles - Gasoline	-	-	0.00	0.48	0.91	0.39	-	0.31	-	-	-	0.78	-	-	0.03	1.46
Vehicles - Gasoline - Not Cat	-	-	0.00	0.01	0.02	0.01	-	0.01	-	-	-	0.02	-	-	0.00	0.03
Vehicles - Diesel	-	-	0.01	-	0.00	0.00	-	0.00	-	-	-	0.01	-	0.00	0.00	0.01
Subtotal: Vehicles	-	-	*0.01*	*0.49*	*0.93*	*0.40*	-	*0.32*	-	-	-	*0.81*	-	*0.00*	*0.03*	*1.50*
Total	**1.686**	**2.060**	**0.960**	**0.566**	**1.346**	**1.060**	**0.021**	**0.569**	**1.277**	**0.374**	**0.007**	**1.009**	**0.120**	**1.411**	**0.044**	**4.29**

	isomers of xylene (lbs/yr)	isopropyl alcohol (lbs/yr)	methyl ethyl ketone (mek) (2-butanone) (lbs/yr)	methyl t-butyl ether (mtbe) (lbs/yr)	m-xylene (lbs/yr)	n-hexane (lbs/yr)	o-cresol (2-methyl-benzenol) (lbs/yr)	o-xylene (lbs/yr)	p-dichlorobenzene (lbs/yr)	perchloroethylene (lbs/yr)	phenol (carbolic acid) (lbs/yr)	propylene (lbs/yr)	propylene glycol methyl ether {1-methoxy-2-propanol} (lbs/yr)	p-xylene (lbs/yr)	styrene (lbs/yr)	toluene (lbs/yr)
Natural Gas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.00
Hearth - Natural Gas	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Landscape	-	-	0.89	27.53	65.86	19.39	-	22.94	-	-	-	72.52	-	-	1.92	100.49
Consumer Products	615.19	751.61	344.92	-	87.52	221.36	7.72	66.92	465.89	136.42	2.57	-	43.76	514.80	2.57	906.05
Architectural Coatings	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Res&Comm Buildings	*615.19*	*751.61*	*345.80*	*27.53*	*153.38*	*240.75*	*7.72*	*89.86*	*465.89*	*136.42*	*2.57*	*72.52*	*43.76*	*514.80*	*4.50*	*1,016.54*
Vehicles - Gasoline	-	-	1.67	170.45	319.65	139.10	-	111.09	-	-	-	274.69	-	-	11.06	516.36
Vehicles - Gasoline - Not Cat	-	-	0.09	2.71	6.48	1.91	-	2.26	-	-	-	7.14	-	-	0.19	9.89
Vehicles - Diesel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Subtotal: Vehicles	-	-	*1.76*	*173.16*	*326.13*	*141.01*	-	*113.35*	-	-	-	*281.83*	-	-	*11.25*	*526.25*
Total	**615.185**	**751.607**	**347.559**	**200.689**	**479.510**	**381.762**	**7.722**	**203.210**	**465.894**	**136.422**	**2.574**	**354.348**	**43.758**	**514.800**	**15.752**	**1,542.79**

Newport Banning Ranch
Proposed Project Residential & Commercial Sites Toxic Inventory
HARP Model Inputs

Pounds per Hour (lbs/hr)	**Diesel Particulate Matter**	**ARSENIC**	**CADMIUM**	**CHROMIUM VI**	**1,3-butadiene**	**acetaldehyde**	**acrolein (2-propenal)**	**benzene**	**formaldehyde**	**BROMINE**	**MERCURY**	**SULFATES**	**CHLORINE**	**COPPER**
RES1	0.000298	0.00000189	0.00000045	0.00000159	0.004163	0.003081	0.000991	0.021560	0.019148	0.000010	0.000001	0.011727	0.001291	0.000030
RES2	0.000806	0.00000512	0.00000121	0.00000430	0.011243	0.008321	0.002677	0.058219	0.051707	0.000028	0.000004	0.031666	0.003487	0.000082
RES3	0.000253	0.00000160	0.00000038	0.00000135	0.003527	0.002610	0.000840	0.018263	0.016221	0.000009	0.000001	0.009934	0.001094	0.000026
RES4	0.000029	0.00000018	0.00000004	0.00000015	0.000399	0.000295	0.000095	0.002067	0.001836	0.000001	0.000000	0.001124	0.000124	0.000003
HOTEL	0.000180	0.00000114	0.00000027	0.00000096	0.002504	0.001853	0.000596	0.012967	0.011517	0.000006	0.000001	0.007053	0.000777	0.000018

Pounds per Year (lbs/yr)	**Diesel Particulate Matter**	**ARSENIC**	**CADMIUM**	**CHROMIUM VI**	**1,3-butadiene**	**acetaldehyde**	**acrolein (2-propenal)**	**benzene**	**formaldehyde**	**BROMINE**	**MERCURY**	**SULFATES**	**CHLORINE**	**COPPER**
RES1	0.94	0.0055	0.00127	0.00477	11.78	6.36	2.818	59.42	47.22	0.0313	0.00381	25.502	3.8968	0.0889
RES2	2.54	0.0149	0.00343	0.01289	31.81	17.17	7.610	160.46	127.50	0.0845	0.01029	68.866	10.5227	0.2400
RES3	0.80	0.0047	0.00108	0.00404	9.98	5.39	2.387	50.34	40.00	0.0265	0.00323	21.603	3.3010	0.0753
RES4	0.09	0.0005	0.00012	0.00046	1.13	0.61	0.270	5.70	4.53	0.0030	0.00037	2.445	0.3737	0.0085
HOTEL	0.57	0.0033	0.00076	0.00287	7.09	3.83	1.695	35.74	28.40	0.0188	0.00229	15.339	2.3438	0.0535

AERMOD Sources

ID	**Area (m^2)**		**Unit Emissions**	
RES1	77,673	19%	1.29E-05	Residential (low,medium) - South Area
RES2	209,747	51%	4.77E-06	Residential (low, medium) - North Area
RES3	65,798	16%	1.52E-05	Mixed use/residential - North Area
RES4	7,448	2%	1.34E-04	Mixed use/Residential - South Area
HOTEL	46,718	11%	2.14E-05	Hotel area

Input Adjustment
1.00E+00

8 hrs/day

Total RES 407,384

WNOCBASE	822,791	1.22E-06	Existing WNOC wells & mobile equipment
WNOCBASF	822,791	1.22E-06	Existing WNOC mobile equipment fugitive dust
TRUCKS2	7,459	1.34E-04	Trucks - Future travel between NB & WNOC - Engine Exhaust
TRUCKS_F	7,459	1.34E-04	Trucks - Future travel between NB & WNOC - Fug Dust
WNOC	47,862	2.09E-05	West Newport Oil Company - Consolidated Site
NBOPS	15,317	6.53E-05	NB Oil Wells Operations - Baseline & Future Site

Newport Banning Ranch
Proposed Project Residential & Commercial Sites Toxic Inventory
HARP Model Inputs

LEAD	MANGANESE	VANADIUM	NICKEL	SELENIUM	methyl ethyl ketone (mek) (2-butanone)	propylene	styrene	toluene	p-xylene	ethylbenzene	methyl t-butyl ether (mtbe)	m-xylene	n-hexane	o-xylene	chloropicrin	dichloromethane {methylene chloride}
0.000018	0.000125	0.000010	0.000010	0.000000	0.022876	0.024045	0.001060	0.102303	0.033635	0.008991	0.013482	0.032090	0.025259	0.013555	0.002690	0.008576
0.000049	0.000338	0.000028	0.000028	0.000001	0.061774	0.064930	0.002862	0.276255	0.090826	0.024279	0.036408	0.086654	0.068209	0.036603	0.007264	0.023157
0.000015	0.000106	0.000009	0.000009	0.000000	0.019379	0.020369	0.000898	0.086662	0.028492	0.007616	0.011421	0.027184	0.021397	0.011482	0.002279	0.007264
0.000002	0.000012	0.000001	0.000001	0.000000	0.002194	0.002306	0.000102	0.009810	0.003225	0.000862	0.001293	0.003077	0.002422	0.001300	0.000258	0.000822
0.000011	0.000075	0.000006	0.000006	0.000000	0.013759	0.014462	0.000637	0.061531	0.020230	0.005408	0.008109	0.019301	0.015192	0.008153	0.001618	0.005158

LEAD	MANGANESE	VANADIUM	NICKEL	SELENIUM	methyl ethyl ketone (mek) (2-butanone)	propylene	styrene	toluene	p-xylene	ethylbenzene	methyl t-butyl ether (mtbe)	m-xylene	n-hexane	o-xylene	chloropicrin	dichloromethane {methylene chloride}
0.0525	0.3648	0.0301	0.03130	0.00085	66.27	67.56	3.00	294.15	98.15	25.54	38.26	91.43	72.79	38.74	7.85	25.14
0.1417	0.9852	0.0812	0.08453	0.00229	178.95	182.44	8.11	794.33	265.05	68.98	103.33	246.88	196.55	104.62	21.20	67.88
0.0445	0.3091	0.0255	0.02652	0.00072	56.14	57.23	2.54	249.18	83.15	21.64	32.41	77.45	61.66	32.82	6.65	21.29
0.0050	0.0350	0.0029	0.00300	0.000081	6.35	6.48	0.29	28.21	9.41	2.45	3.67	8.77	6.98	3.72	0.75	2.41
0.0316	0.2194	0.0181	0.01883	0.00051	39.86	40.64	1.81	176.92	59.04	15.36	23.01	54.99	43.78	23.30	4.72	15.12

Newport Banning Ranch
Proposed Project Residential & Commercial Sites Toxic Inventory
HARP Model Inputs

ethylene oxide	isopropyl alcohol	p-dichlorobenzene	perchloroethylene	1,1,1-trichloroethane	2-ethoxyethanol {cellosolve} {egee}	2-ethoxyethyl acetate {cellosolve acetate}	chlorobenzene	ethyl chloride	ethylene glycol	isomers of xylene	o-cresol (2-methyl-benzenol)	phenol (carbolic acid)	propylene glycol methyl ether {1-methoxy-2-propanol}
0.003699	0.049090	0.030429	0.008910	0.088430	0.001009	0.001177	0.000672	0.000550	0.029375	0.040180	0.000504	0.000168	0.002858
0.009988	0.132562	0.082170	0.024061	0.238793	0.002724	0.003178	0.001816	0.001486	0.079323	0.108501	0.001362	0.000454	0.007718
0.003133	0.041585	0.025777	0.007548	0.074910	0.000854	0.000997	0.000570	0.000466	0.024884	0.034037	0.000427	0.000142	0.002421
0.000355	0.004707	0.002918	0.000854	0.008480	0.000097	0.000113	0.000064	0.000053	0.002817	0.003853	0.000048	0.000016	0.000274
0.002225	0.029526	0.018302	0.005359	0.053187	0.000607	0.000708	0.000404	0.000331	0.017668	0.024167	0.000303	0.000101	0.001719

ethylene oxide	isopropyl alcohol	p-dichlorobenzene	perchloroethylene	1,1,1-trichloroethane	2-ethoxyethanol {cellosolve} {egee}	2-ethoxyethyl acetate {cellosolve acetate}	chlorobenzene	ethyl chloride	ethylene glycol	isomers of xylene	o-cresol (2-methyl-benzenol)	phenol (carbolic acid)	propylene glycol methyl ether {1-methoxy-2-propanol}
10.80	143.30	88.83	26.01	258.14	2.94	3.44	1.96	1.62	85.76	117.29	1.47	0.491	8.34
29.16	386.97	239.87	70.24	697.08	7.95	9.28	5.30	4.37	231.58	316.74	3.98	1.325	22.53
9.15	121.39	75.25	22.03	218.68	2.49	2.91	1.66	1.37	72.65	99.36	1.25	0.416	7.07
1.04	13.74	8.52	2.49	24.75	0.28	0.33	0.19	0.16	8.22	11.25	0.14	0.047	0.80
6.49	86.19	53.43	15.64	155.26	1.77	2.07	1.18	0.97	51.58	70.55	0.89	0.295	5.02

Newport Banning Ranch

Proposed Project Residential & Commercial Development: URBEMIS Inputs

		Units	type	gross trips	gr rate	Reduction (Internal Capture only)	net trips	net rate	
Ph1	SFDU	141	du	1349	9.57				
	Townhomes/Condos	87	du	505	5.81				
	Park	12	ac	27	2.28				
				1882					
Ph 1 + 2	SFDU	423	du	4,048	9.57	272	3776	8.93	new rates in yellow due to internal capture
	Townhomes/Condos	222	du	1,290	5.81	87	1203	5.42	
	High-Rise Res Condos/Townhouse	730	du	3,051	4.18	205	2847	3.90	
	Shopping Center	75	ksf	5,633	75.11	563	5070	67.6	
	Park	25	ac	57	2.28	0	57	2.28	
	Hotel	75	rm	368	4.91	0	368	4.91	
	TOTAL			14,447		1126	13321		
	Reduction			1,126					
	NET (minus ~~pass-by~~/internal capture)			12,096					

residential du= 1375

URBEMIS

Residential	Units	Trips/day/unit	Acres	Net Trips	Onsite Travel (m)[1]	Onsite Travel (mi)
Condo/Townhouse High-rise	730	3.90	21.0	2,847	750	0.5
Tonwhomes/Condos	222	5.42	19.5	1,203	750	0.5
Single-family	423	8.93	63.0	3,776	750	0.5
Recreational	**Rooms**	**Trips/day/unit**	**Acres**			
Hotel	75	4.91	11	368	500	0.3
City Park		2.28	25	57	560	0.3
Mixed Use	**ksf**	**Trips/day/sf**				
Strip Mall	75	67.6		5,070	160	0.10
				Average Distance Residential		0.5
				Average Distance Commercial		0.1

[1] As measured in AERMOD

All trips are calculated for 2 miles roundtrip onsite

URBEMIS default trip lengths offsite 1,609 meters/mi

Newport Banning Ranch
Residential & Commercial Development Peak Summer Annual Onsite Emissions (URBEMIS2007 Output)

11/16/2009 11:43:54 AM
Urbemis 2007 Version 9.2.4
Combined Annual Emissions Reports (Tons/Year)
File Name: C:\Documents and Settings\TRAVISKR\Desktop\Newport Banning Ranch\NBR HRA 11_11_09\ResCommDevelopmentv4.urb924
Project Name: Newport Banning Ranch
Project Location: Orange County
On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006
Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	14.56	3.26	6.32	0.00	0.02	0.02	4,083.69

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated) - Dust	4.55	2.48	27.78	0.00	1.24	0.28	1,149.08
TOTALS (tons/year, unmitigated) - No Dust	4.55	2.48	27.78	0.00	0.13	0.10	1,149.08
Dust	-	-	-	-	1.11	0.18	-

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	19.11	5.74	34.10	0.00	1.26	0.30	5,232.77

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.25	3.20	1.46	0.00	0.01	0.01	4,069.99
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	5.60
Landscape	0.74	0.06	4.86	0.00	0.01	0.01	8.10
Consumer Products	12.87						
Architectural Coatings	0.70						
TOTALS (tons/year, unmitigated)	14.56	3.26	6.32	0.00	0.02	0.02	4,083.69

Area Source Changes to Defaults
Percentage of residences with wood stoves changed from 10% to 0%
Percentage of residences with wood fireplaces changed from 5% to 0%
Percentage of residences with natural gas fireplaces changed from 85% to 100%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Single family housing	1.45	0.79	9.57	0.00	0.54	0.12	461.76
Condo/townhouse general	0.54	0.25	3.05	0.00	0.17	0.04	147.09
Condo/townhouse high rise	1.45	0.59	7.21	0.00	0.41	0.09	348.02
City park	0.03	0.01	0.09	0.00	0.00	0.00	2.25
Hotel	0.13	0.06	0.55	0.00	0.01	0.00	14.04
Strip mall	0.95	0.78	7.31	0.00	0.11	0.03	175.92
TOTALS (tons/year, unmitigated)	4.55	2.48	27.78	0.00	1.24	0.28	1,149.08

Newport Banning Ranch
Residential & Commercial Development Peak Summer Annual Onsite Emissions (URBEMIS2007 Output)
Operational Settings:

Includes correction for passby trips
Does not include double counting adjustment for internal trips
Analysis Year: 2015 Season: Annual
Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Single family housing	63.00	8.93	dwelling units	423.00	3,777.39	1,653.55
Condo/townhouse general	19.50	5.42	dwelling units	222.00	1,203.24	526.72
Condo/townhouse high rise	21.00	3.90	dwelling units	730.00	2,847.00	1,246.27
City park		2.28	acres	25.00	57.00	4.35
Hotel		4.91	rooms	75.00	368.25	25.34
Strip mall		67.60	1000 sq ft	75.00	5,070.00	279.61
					13,322.88	3,735.84

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel	Non-Catalyst	Catalyst	Diesel
Light Auto	50.8	0.2	99.6	0.2	0.1%	50.6%	0.1%
Light Truck < 3750 lbs	6.9	0.0	98.6	1.4	-	6.8%	0.1%
Light Truck 3751-5750 lbs	24.2	0.0	100.0	0.0	-	24.2%	-
Med Truck 5751-8500 lbs	10.9	0.0	100.0	0.0	-	10.9%	-
Lite-Heavy Truck 8501-10,000 lbs	1.7	0.0	82.4	17.6	-	1.4%	0.3%
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0	60.0	40.0	-	0.3%	0.2%
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8	-	0.2%	0.7%
Heavy-Heavy Truck 33,001-60,000 lbs	0.2	0.0	0.0	100.0	-	-	0.2%
Other Bus	0.1	0.0	0.0	100.0	-	-	0.1%
Urban Bus	0.0	0.0	0.0	0.0	-	-	-
Motorcycle	2.9	51.7	48.3	0.0	1.5%	1.4%	-
School Bus	0.1	0.0	0.0	100.0	-	-	0.1%
Motor Home	0.8	0.0	87.5	12.5	-	0.7%	0.1%
Travel Conditions					1.6%	96.5%	1.9%

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	0.5	0.5	0.5	0.1	0.1	0.1
Rural Trip Length (miles)	0.5	0.5	0.5	0.1	0.1	0.1
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
City park				5.0	2.5	92.5
Hotel				5.0	2.5	92.5
Strip mall				2.0	1.0	97.0

Newport Banning Ranch
Residential & Commercial Development Peak Summer Annual Offsite Emissions (URBEMIS2007 Output)

11/11/2009 03:17:31 PM
Urbemis 2007 Version 9.2.4
Combined Annual Emissions Reports (Tons/Year)
File Name: C:\Documents and Settings\TRAVISKR\Desktop\Newport Banning Ranch\NBR HRA 11_11_09\ResCommDevelopmentv4-Offsite.urb924
Project Name: Newport Banning Ranch
Project Location: Orange County
On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006
Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	14.56	3.26	6.32	0.00	0.02	0.02	4,083.69

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	11.76	12.74	121.82	0.18	30.54	5.90	17,573.02

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (tons/year, unmitigated)	26.32	16.00	128.14	0.18	30.56	5.92	21,656.71

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	0.25	3.20	1.46	0.00	0.01	0.01	4,069.99
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	5.60
Landscape	0.74	0.06	4.86	0.00	0.01	0.01	8.10
Consumer Products	12.87						
Architectural Coatings	0.70						
TOTALS (tons/year, unmitigated)	14.56	3.26	6.32	0.00	0.02	0.02	4,083.69

Area Source Changes to Defaults
Percentage of residences with wood stoves changed from 10% to 0%
Percentage of residences with wood fireplaces changed from 5% to 0%
Percentage of residences with natural gas fireplaces changed from 85% to 100%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Single family housing	3.70	4.28	41.59	0.06	10.52	2.03	6,053.03
Condo/townhouse general	1.25	1.36	13.25	0.02	3.35	0.65	1,928.12
Condo/townhouse high rise	3.14	3.23	31.34	0.05	7.93	1.53	4,562.14
City park	0.06	0.05	0.48	0.00	0.12	0.02	71.03
Hotel	0.32	0.31	2.84	0.00	0.72	0.14	414.72
Strip mall	3.29	3.51	32.32	0.05	7.90	1.53	4,543.98
TOTALS (tons/year, unmitigated)	11.76	12.74	121.82	0.18	30.54	5.90	17,573.02

Newport Banning Ranch
Residential & Commercial Development Peak Summer Annual Offsite Emissions (URBEMIS2007 Output)
Operational Settings:

Includes correction for passby trips
Does not include double counting adjustment for internal trips
Analysis Year: 2015 Season: Annual
Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Single family housing	63.00	8.93	dwelling units	423.00	3,777.39	33,411.02
Condo/townhouse general	19.50	5.42	dwelling units	222.00	1,203.24	10,642.66
Condo/townhouse high rise	21.00	3.90	dwelling units	730.00	2,847.00	25,181.72
City park		2.28	acres	25.00	57.00	395.01
Hotel		4.91	rooms	75.00	368.25	2,301.11
Strip mall		67.60	1000 sq ft	75.00	5,070.00	25,089.45
					13,322.88	97,020.97

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	50.8	0.2	99.6	0.2
Light Truck < 3750 lbs	6.9	0.0	98.6	1.4
Light Truck 3751-5750 lbs	24.2	0.0	100.0	0.0
Med Truck 5751-8500 lbs	10.9	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.7	0.0	82.4	17.6
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.2	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	2.9	51.7	48.3	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.8	0.0	87.5	12.5

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	12.7	7.0	9.5	13.3	7.4	8.9
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
City park				5.0	2.5	92.5
Hotel				5.0	2.5	92.5
Strip mall				2.0	1.0	97.0

Newport Banning Ranch
Residential & Commercial Development Peak Summer & Winter Daily Onsite Emissions (URBEMIS2007 Output)

11/16/2009 11:43:40 AM
Urbemis 2007 Version 9.2.4
Combined Winter Emissions Reports (Pounds/Day)
File Name: C:\Documents and Settings\TRAVISKR\Desktop\Newport Banning Ranch\NBR HRA 11_11_09\ResCommDevelopmentv4.urb924
Project Name: Newport Banning Ranch
Project Location: Orange County
On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006
Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	76.21	26.32	11.75	0.06	0.74	0.73	33,500.14

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated)	23.15	14.97	171.86	0.06	6.77	1.54	6,048.39

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated) - Winter	99.36	41.29	183.61	0.12	7.51	2.27	39,548.53
TOTALS (lbs/day, unmitigated) - Summer	105.52	30.74	176.99	0.07	6.88	1.65	28,765.94

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	1.35	17.55	8.02	0.00	0.03	0.03	22,301.32
Hearth	0.51	8.77	3.73	0.06	0.71	0.70	11,198.82
Landscaping - No Winter Emissions							
Consumer Products	70.54						
Architectural Coatings	3.81						
TOTALS (lbs/day, unmitigated)	76.21	26.32	11.75	0.06	0.74	0.73	33,500.14

Area Source Changes to Defaults
Percentage of residences with wood stoves changed from 10% to 0%
Percentage of residences with wood fireplaces changed from 5% to 0%
Percentage of residences with natural gas fireplaces changed from 85% to 100%

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Single family housing	7.47	4.78	57.43	0.02	2.96	0.65	2,420.43
Condo/townhouse general	2.62	1.52	18.29	0.01	0.94	0.21	771.00
Condo/townhouse high rise	6.74	3.60	43.28	0.02	2.23	0.49	1,824.27
City park	0.13	0.05	0.56	0.00	0.01	0.00	12.04
Hotel	0.60	0.34	3.63	0.00	0.05	0.01	75.28
Strip mall	5.59	4.68	48.67	0.01	0.58	0.18	945.37
TOTALS (lbs/day, unmitigated)	23.15	14.97	171.86	0.06	6.77	1.54	6,048.39

Newport Banning Ranch
Residential & Commercial Development Peak Summer & Winter Daily Onsite Emissions (URBEMIS2007 Output)
Operational Settings:

Includes correction for passby trips
Does not include double counting adjustment for internal trips
Analysis Year: 2015 Temperature (F): 60 Season: Winter
Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Single family housing	63.00	8.93	dwelling units	423.00	3,777.39	1,653.55
Condo/townhouse general	19.50	5.42	dwelling units	222.00	1,203.24	526.72
Condo/townhouse high rise	21.00	3.90	dwelling units	730.00	2,847.00	1,246.27
City park		2.28	acres	25.00	57.00	4.35
Hotel		4.91	rooms	75.00	368.25	25.34
Strip mall		67.60	1000 sq ft	75.00	5,070.00	279.61
					13,322.88	3,735.84

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Cataly	Catalyst	Diesel
Light Auto	50.8	0.2	99.6	0.2
Light Truck < 3750 lbs	6.9	0.0	98.6	1.4
Light Truck 3751-5750 lbs	24.2	0.0	100.0	0.0
Med Truck 5751-8500 lbs	10.9	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.7	0.0	82.4	17.6
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.2	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	2.9	51.7	48.3	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.8	0.0	87.5	12.5

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Oth	Commute	Non-Work	Customer
Urban Trip Length (miles)	0.5	0.5	0.5	0.1	0.1	0.1
Rural Trip Length (miles)	0.5	0.5	0.5	0.1	0.1	0.1
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
City park				5.0	2.5	92.5
Hotel				5.0	2.5	92.5
Strip mall				2.0	1.0	97.0

Newport Banning Ranch
Residential & Commercial Development Peak Summer & Winter Daily Offsite Emissions (URBEMIS2007 Output)

11/11/2009 03:18:13 PM
Urbemis 2007 Version 9.2.4
Combined Winter Emissions Reports (Pounds/Day)
File Name: C:\Documents and Settings\TRAVISKR\Desktop\Newport Banning Ranch\NBR HRA 11_11_09\ResCommDevelopmentv4-Offsite.urb924
Project Name: Newport Banning Ranch
Project Location: Orange County
On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006
Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated) - Winter	76.21	26.32	11.75	0.06	0.74	0.73	33,500.14
TOTALS (lbs/day, unmitigated) - Summer	79.73	17.87	34.63	0.00	0.11	0.11	22,345.68

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated) - Winter	67.43	78.94	649.02	0.84	167.33	32.38	89,851.79
TOTALS (lbs/day, unmitigated) - Summer	63.09	65.23	676.76	1.00	167.33	32.38	99,509.77

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
TOTALS (lbs/day, unmitigated) - Winter	143.64	105.26	660.77	0.90	168.07	33.11	123,351.93
TOTALS (lbs/day, unmitigated) - Summer	142.82	83.10	711.39	1.00	167.44	32.49	121,855.45

Area Source Unmitigated Detail Report:
AREA SOURCE EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

Source	ROG	NOx	CO	SO2	PM10	PM2.5	CO2
Natural Gas	1.35	17.55	8.02	0.00	0.03	0.03	22,301.32
Hearth	0.51	8.77	3.73	0.06	0.71	0.70	11,198.82
Landscaping - No Winter Emissions							
Consumer Products	70.54						
Architectural Coatings	3.81						
TOTALS (lbs/day, unmitigated)	76.21	26.32	11.75	0.06	0.74	0.73	33,500.14

Area Source Changes to Defaults
Percentage of residences with wood stoves changed from 10% to 0%
Percentage of residences with wood fireplaces changed from 5% to 0%
Percentage of residences with natural gas fireplaces changed from 85% to 100%

Operational Unmitigated Detail Report:
OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Single family housing	21.22	26.55	219.87	0.29	57.62	11.15	30,950.00
Condo/townhouse general	6.99	8.46	70.04	0.09	18.35	3.55	9,858.73
Condo/townhouse high rise	17.10	20.01	165.71	0.22	43.43	8.40	23,326.86
City park	0.32	0.32	2.56	0.00	0.68	0.13	362.99
Hotel	1.77	1.91	15.27	0.02	3.97	0.77	2,119.73
Strip mall	20.03	21.69	175.57	0.22	43.28	8.38	23,233.48
TOTALS (lbs/day, unmitigated)	67.43	78.94	649.02	0.84	167.33	32.38	89,851.79

Newport Banning Ranch
Residential & Commercial Development Peak Summer & Winter Daily Offsite Emissions (URBEMIS2007 Output)
Operational Settings:

Includes correction for passby trips
Does not include double counting adjustment for internal trips
Analysis Year: 2015 Temperature (F): 60 Season: Winter
Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Single family housing	63.00	8.93	dwelling units	423.00	3,777.39	33,411.02
Condo/townhouse general	19.50	5.42	dwelling units	222.00	1,203.24	10,642.66
Condo/townhouse high rise	21.00	3.90	dwelling units	730.00	2,847.00	25,181.72
City park		2.28	acres	25.00	57.00	395.01
Hotel		4.91	rooms	75.00	368.25	2,301.11
Strip mall		67.60	1000 sq ft	75.00	5,070.00	25,089.45
					13,322.88	97,020.97

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	50.8	0.2	99.6	0.2
Light Truck < 3750 lbs	6.9	0.0	98.6	1.4
Light Truck 3751-5750 lbs	24.2	0.0	100.0	0.0
Med Truck 5751-8500 lbs	10.9	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	1.7	0.0	82.4	17.6
Lite-Heavy Truck 10,001-14,000 lbs	0.5	0.0	60.0	40.0
Med-Heavy Truck 14,001-33,000 lbs	0.9	0.0	22.2	77.8
Heavy-Heavy Truck 33,001-60,000 lbs	0.2	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.0	0.0	0.0	0.0
Motorcycle	2.9	51.7	48.3	0.0
School Bus	0.1	0.0	0.0	100.0
Motor Home	0.8	0.0	87.5	12.5

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	12.7	7.0	9.5	13.3	7.4	8.9
Rural Trip Length (miles)	17.6	12.1	14.9	15.4	9.6	12.6
Trip speeds (mph)	30.0	30.0	30.0	30.0	30.0	30.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
City park				5.0	2.5	92.5
Hotel				5.0	2.5	92.5
Strip mall				2.0	1.0	97.0

Attachment B
AERMOD Output Files

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** AERMOD Input Produced by:
** AERMOD View Ver. 6.2.1
** Lakes Environmental Software Inc.
** Date: 11/13/2009
** File: C:\Documents and Settings\TRAVISKR\Desktop\Newport Banning Ranch\NBR HRA 11_11_09\AERMOD\Base2.ADI
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** AERMOD Control Pathway
**************************************
**
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CO STARTING
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   TITLETWO Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 3010759 Orange_County
   POLLUTID ALL
   FLAGPOLE 1.80
   RUNORNOT RUN
   SAVEFILE Base2.sv1 5 Base2.sv2
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
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** DESCRSRC Mowing Site 1
   LOCATION MOW2 AREAPOLY 412473.735 3721156.373 5.390
** DESCRSRC Mowing Site 2
   LOCATION MOW3 AREAPOLY 412649.545 3721726.187 30.480
** DESCRSRC Mowing Site 3
   LOCATION MOW4 AREAPOLY 412539.438 3722794.787 19.660
** DESCRSRC Mowing Site 4
   LOCATION MOW5 AREAPOLY 412596.960 3722182.169 28.960
** DESCRSRC Mowing Site 5
   LOCATION NBOPS AREAPOLY 412261.824 3721043.447 0.110
** DESCRSRC NB Oil Wells Operations - Baseline & Future Site
   LOCATION WNOCEAST AREAPOLY 412637.159 3721798.385 30.780
** DESCRSRC Existing WNOC wells & mobile equipment - East Area
   LOCATION WNOCFEST AREAPOLY 412637.159 3721798.385 30.780
** DESCRSRC Existing WNOC wells & mobile equipment dust - East Area
   LOCATION WNOC_FNW AREAPOLY 412080.608 3721811.024 2.710
** DESCRSRC Existing WNOC mobile equipment fugitive dust - NW Area
   LOCATION WNOC_NW AREAPOLY 412080.608 3721811.024 2.710
** DESCRSRC Existing WNOC mobile equipment - NW Area
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   URBANSRC WNOCEAST
   URBANSRC WNOC_FNW
   URBANSRC WNOC_NW
   URBANSRC MOW1
   URBANSRC MOW2
   URBANSRC MOW3
   URBANSRC MOW4
   URBANSRC MOW5
   URBANSRC WNOCFEST

** Variable Emissions Type: "By Hour-of-Day"
** Variable Emission Scenario: "OPS"
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   EMISFACT WNOCEAST HROFDY 1 1 1 1 1 1
   EMISFACT WNOCEAST HROFDY 1 1 1 1 1 1
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   EMISFACT MOW4 HROFDY 1 1 1 1 1 1
   EMISFACT MOW4 HROFDY 1 1 1 1 1 1
   EMISFACT MOW5 HROFDY 1 1 1 1 1 1
   EMISFACT MOW5 HROFDY 1 1 1 1 1 1
   EMISFACT MOW5 HROFDY 1 1 1 1 1 1
   EMISFACT MOW5 HROFDY 1 1 1 1 1 1
   EMISFACT WNOCFEST HROFDY 1 1 1 1 1 1
   EMISFACT WNOCFEST HROFDY 1 1 1 1 1 1
   EMISFACT WNOCFEST HROFDY 1 1 1 1 1 1
   EMISFACT WNOCFEST HROFDY 1 1 1 1 1 1
   SRCGROUP NBOPS NBOPS
   SRCGROUP WNOCEAST WNOCEAST
   SRCGROUP WNOC_NW WNOC_NW
   SRCGROUP WNOC_FNW WNOC_FNW
   SRCGROUP WNOCFEST WNOCFEST
   SRCGROUP MOW1 MOW1
   SRCGROUP MOW2 MOW2
   SRCGROUP MOW3 MOW3
   SRCGROUP MOW4 MOW4
   SRCGROUP MOW5 MOW5
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED Base2.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE SNANKX08.SFC
   PROFFILE SNANKX08.PFL
   SURFDATA 72297 2008
   UAIRDATA 3190 2008
```

```
   PROFBASE 0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 NBOPS 1ST Base2.AD\01H1G001.PLT
   PLOTFILE PERIOD NBOPS Base2.AD\PE00G001.PLT
   PLOTFILE 1 WNOCEAST 1ST Base2.AD\01H1G002.PLT
   PLOTFILE PERIOD WNOCEAST Base2.AD\PE00G002.PLT
   PLOTFILE 1 WNOC_NW 1ST Base2.AD\01H1G003.PLT
   PLOTFILE PERIOD WNOC_NW Base2.AD\PE00G003.PLT
   PLOTFILE 1 WNOC_FNW 1ST Base2.AD\01H1G004.PLT
   PLOTFILE PERIOD WNOC_FNW Base2.AD\PE00G004.PLT
   PLOTFILE 1 WNOCFEST 1ST Base2.AD\01H1G005.PLT
   PLOTFILE PERIOD WNOCFEST Base2.AD\PE00G005.PLT
   PLOTFILE 1 MOW1 1ST Base2.AD\01H1G006.PLT
   PLOTFILE PERIOD MOW1 Base2.AD\PE00G006.PLT
   PLOTFILE 1 MOW2 1ST Base2.AD\01H1G007.PLT
   PLOTFILE PERIOD MOW2 Base2.AD\PE00G007.PLT
   PLOTFILE 1 MOW3 1ST Base2.AD\01H1G008.PLT
   PLOTFILE PERIOD MOW3 Base2.AD\PE00G008.PLT
   PLOTFILE 1 MOW4 1ST Base2.AD\01H1G009.PLT
   PLOTFILE PERIOD MOW4 Base2.AD\PE00G009.PLT
   PLOTFILE 1 MOW5 1ST Base2.AD\01H1G010.PLT
   PLOTFILE PERIOD MOW5 Base2.AD\PE00G010.PLT
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 OU W565   277 OUPLOT:Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
 OU W565   278 PERPLT:Possible Conflict With Dynamically Allocated FUNIT PLOTFILE

 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

□ *** AERMOD - VERSION 09292 ***    *** Newport Banning Ranch                                                  ***
                                   *** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09      ***

 **MODELOPTs:  RegDFAULT CONC                                          ELEV
     FLGPOL
```

```
                                        ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for    10 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   3010759.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay for URBAN/Non-SO2.
        6. Urban Roughness Length of 1.0 Meter Assumed.

 **Model Accepts FLAGPOLE Receptor Heights.

 **Model Calculates  1 Short Term Average(s) of:   1-HR
     and Calculates PERIOD Averages

 **This Run Includes:     10 Source(s);      10 Source Group(s); and     105 Receptor(s)

 **The Model Assumes A Pollutant Type of:  ALL

 **Model Set To Continue RUNning After the Setup Testing.

 **Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =     0.00 ;  Decay Coef. =    0.000     ;  Rot. Angle =
                  Emission Units = GRAMS/SEC                             ;  Emission Rate Unit Factor =   0.10000E+
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.6 MB of RAM.

 **File for Saving Result Arrays: Base2.sv1
 □ *** AERMOD - VERSION 09292 ***    *** Newport Banning Ranch                                                  ***
                                    *** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09      ***

 **MODELOPTs:  RegDFAULT CONC                                          ELEV
     FLGPOL


                                                *** AREAPOLY SOURCE DATA ***

              NUMBER EMISSION RATE   LOCATION OF AREA  BASE     RELEASE  NUMBER      INIT.   URBAN  EMISSION RATE
```

SOURCE ID	PART. CATS.	(GRAMS/SEC /METER**2)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	OF VERTS.	SZ (METERS)	SOURCE	SCALAR VARY BY
MOW1	0	0.42970E-04	412354.5	3721005.1	7.6	5.00	5	1.20	YES	HROFDY
MOW2	0	0.54610E-05	412473.7	3721156.4	5.4	5.00	16	1.20	YES	HROFDY
MOW3	0	0.25370E-04	412649.5	3721726.2	30.5	5.00	8	1.20	YES	HROFDY
MOW4	0	0.12820E-04	412539.4	3722794.8	19.7	5.00	18	1.20	YES	HROFDY
MOW5	0	0.58640E-05	412597.0	3722182.2	29.0	5.00	24	1.20	YES	HROFDY
NBOPS	0	0.65290E-04	412261.8	3721043.4	0.1	5.00	20	1.20	YES	HROFDY
WNOCEAST	0	0.17280E-05	412637.2	3721798.4	30.8	5.00	33	1.20	YES	HROFDY
WNOCFEST	0	0.17280E-05	412637.2	3721798.4	30.8	0.00	33	1.20	YES	HROFDY
WNOC_FNW	0	0.20700E-05	412080.6	3721811.0	2.7	0.00	13	1.20	YES	HROFDY
WNOC_NW	0	0.20700E-05	412080.6	3721811.0	2.7	5.00	13	1.20	YES	HROFDY

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
NBOPS	NBOPS ,
WNOCEAST	WNOCEAST,
WNOC_NW	WNOC_NW ,
WNOC_FNW	WNOC_FNW,
WNOCFEST	WNOCFEST,
MOW1	MOW1 ,
MOW2	MOW2 ,
MOW3	MOW3 ,
MOW4	MOW4 ,
MOW5	MOW5 ,

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALA

SOURCE ID = MOW1 ; SOURCE TYPE = AREAPOLY :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E

SOURCE ID = MOW2 ; SOURCE TYPE = AREAPOLY :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E

SOURCE ID = MOW3 ; SOURCE TYPE = AREAPOLY :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E

SOURCE ID = MOW4 ; SOURCE TYPE = AREAPOLY :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E

SOURCE ID = MOW5 ; SOURCE TYPE = AREAPOLY :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALA

SOURCE ID = NBOPS ; SOURCE TYPE = AREAPOLY :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E

SOURCE ID = WNOCEAST ; SOURCE TYPE = AREAPOLY :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E

7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E

SOURCE ID = WNOCFEST ; SOURCE TYPE = AREAPOLY :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E

SOURCE ID = WNOC_FNW ; SOURCE TYPE = AREAPOLY :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E

SOURCE ID = WNOC_NW ; SOURCE TYPE = AREAPOLY :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(412489.8,	3722582.2,	22.6,	25.6,	1.8);	(412553.3,	3722330.9,	24.7,	29.0,
(412524.4,	3722386.3,	17.7,	30.2,	1.8);	(412497.9,	3722433.6,	29.9,	29.9,
(412475.4,	3722481.0,	28.8,	28.8,	1.8);	(412467.4,	3722520.3,	26.4,	27.7,
(412594.2,	3722278.7,	28.6,	28.6,	1.8);	(412609.5,	3722233.7,	29.6,	29.6,
(412659.3,	3722176.7,	30.2,	30.2,	1.8);	(412731.5,	3722032.2,	31.1,	31.1,
(412776.5,	3721942.3,	31.7,	31.7,	1.8);	(412698.6,	3722100.4,	30.8,	30.8,
(413165.1,	3721124.9,	30.8,	30.8,	1.8);	(412982.0,	3721085.6,	27.5,	27.5,
(412880.8,	3720974.8,	27.1,	27.1,	1.8);	(412180.5,	3721337.9,	2.1,	21.6,
(412126.7,	3721479.6,	1.9,	27.1,	1.8);	(412179.7,	3721036.3,	1.8,	1.8,
(412246.8,	3720839.9,	1.5,	1.5,	1.8);	(412523.3,	3720798.4,	4.0,	21.0,
(412785.0,	3720680.9,	3.2,	21.0,	1.8);	(412827.5,	3720655.2,	3.2,	21.0,
(412829.4,	3720862.6,	20.1,	20.1,	1.8);	(412867.5,	3720847.4,	16.4,	25.0,
(412868.8,	3721078.4,	28.7,	28.7,	1.8);	(413200.7,	3721146.0,	30.8,	30.8,
(412993.4,	3721499.5,	24.6,	32.0,	1.8);	(412898.6,	3721458.1,	26.1,	30.8,
(412839.3,	3721588.4,	30.8,	30.8,	1.8);	(412760.3,	3721546.9,	30.5,	30.5,
(412651.7,	3721745.4,	30.7,	30.7,	1.8);	(412713.9,	3721778.0,	31.4,	31.4,
(412811.7,	3721775.0,	32.0,	32.0,	1.8);	(412824.5,	3721806.6,	32.1,	32.1,
(412450.2,	3722501.8,	27.9,	27.9,	1.8);	(412561.8,	3722805.0,	21.2,	27.7,
(411744.2,	3722808.9,	1.5,	1.5,	1.8);	(411738.3,	3722781.3,	1.5,	1.5,
(411839.0,	3722778.3,	1.8,	1.8,	1.8);	(411658.3,	3722071.3,	1.5,	1.5,
(411781.7,	3721849.1,	0.5,	0.5,	1.8);	(411839.0,	3721823.4,	0.2,	0.2,
(411878.5,	3721756.3,	1.5,	1.5,	1.8);	(411861.7,	3721715.8,	1.5,	1.5,
(412070.1,	3721660.5,	1.8,	26.2,	1.8);	(412172.2,	3721496.6,	0.2,	28.7,
(412240.4,	3721353.4,	0.4,	28.0,	1.8);	(412254.0,	3721277.3,	0.0,	23.8,
(412249.4,	3721236.8,	0.0,	20.1,	1.8);	(412249.0,	3721171.0,	0.0,	17.4,
(412257.0,	3721138.6,	0.0,	17.4,	1.8);	(412256.9,	3721096.9,	0.0,	17.1,

```
    ( 412242.8, 3721038.4,       0.0,      17.1,       1.8);         ( 412339.0, 3720826.1,       2.1,      17.7,
    ( 412431.2, 3720812.3,       4.9,      18.9,       1.8);         ( 412610.6, 3720759.3,       4.9,      21.6,
    ( 412697.8, 3720720.1,       3.3,      21.6,       1.8);         ( 412828.1, 3720724.4,      11.0,      20.4,
    ( 412828.8, 3720793.5,      18.1,      19.5,       1.8);         ( 412868.0, 3720924.4,      24.0,      24.0,
    ( 412868.4, 3721001.4,      28.0,      28.0,       1.8);         ( 412951.8, 3721095.3,      27.0,      27.7,
    ( 413034.8, 3721112.2,      29.2,      29.2,       1.8);         ( 413117.7, 3721129.1,      30.8,      30.8,
    ( 413159.2, 3721216.7,      31.1,      31.1,       1.8);         ( 413117.8, 3721287.4,      31.7,      31.7,
    ( 413076.3, 3721358.1,      31.7,      31.7,       1.8);         ( 413034.8, 3721428.8,      30.8,      30.8,
    ( 412946.0, 3721478.8,      26.3,      30.8,       1.8);         ( 412868.9, 3721523.2,      30.6,      30.6,
    ( 412724.1, 3721613.1,      30.8,      30.8,       1.8);         ( 412687.9, 3721679.2,      30.7,      30.7,
    ( 412777.7, 3721893.5,      31.9,      31.9,       1.8);         ( 412730.9, 3721980.4,      31.4,      31.4,
    ( 412684.2, 3722067.3,      30.8,      30.8,       1.8);         ( 412637.4, 3722154.2,      29.9,      29.9,
    ( 412590.6, 3722241.1,      29.6,      29.6,       1.8);         ( 412543.8, 3722328.0,      25.8,      25.8,
    ( 412497.0, 3722414.9,      29.1,      29.1,       1.8);         ( 412478.1, 3722577.6,      21.9,      26.5,
    ( 412506.0, 3722653.4,      24.4,      29.9,       1.8);         ( 412533.9, 3722729.2,      26.2,      29.6,
    ( 412471.0, 3722805.4,       6.3,      29.9,       1.8);         ( 412380.1, 3722805.8,       3.0,      29.9,
    ( 412289.3, 3722806.3,       2.7,       2.7,       1.8);         ( 412198.5, 3722806.7,       2.4,       2.4,
    ( 412107.6, 3722807.2,       2.1,       2.1,       1.8);         ( 412016.8, 3722807.6,       2.1,       2.1,
    ( 411925.9, 3722808.0,       2.0,       2.0,       1.8);         ( 411835.1, 3722808.5,       1.8,       1.8,
□ *** AERMOD - VERSION 09292 ***    *** Newport Banning Ranch                                                    ***
                                    *** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09      ***

 **MODELOPTs:  RegDFAULT CONC                                          ELEV
     FLGPOL

                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

    ( 411788.6, 3722779.8,       1.5,       1.5,       1.8);         ( 411816.4, 3722689.9,       1.8,       1.8,
    ( 411793.8, 3722601.5,       1.8,       1.8,       1.8);         ( 411771.2, 3722513.2,       1.8,       1.8,
    ( 411748.7, 3722424.8,       1.5,       1.5,       1.8);         ( 411726.1, 3722336.4,       1.5,       1.5,
    ( 411703.5, 3722248.0,       1.5,       1.5,       1.8);         ( 411680.9, 3722159.7,       1.5,       1.5,
    ( 411699.5, 3721997.2,       1.5,       1.5,       1.8);         ( 411740.6, 3721923.2,       1.2,       1.2,
    ( 411931.2, 3721697.4,       1.5,      22.9,       1.8);         ( 412000.6, 3721678.9,       1.5,      26.2,
    ( 412121.1, 3721578.6,       0.0,      28.0,       1.8);         ( 412206.3, 3721425.0,       0.4,      28.7,
    ( 412244.8, 3720939.1,       1.5,      16.8,       1.8);
□ *** AERMOD - VERSION 09292 ***    *** Newport Banning Ranch                                                    ***
                                    *** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09      ***

 **MODELOPTs:  RegDFAULT CONC                                          ELEV
     FLGPOL

                                    *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                                (1=YES; 0=NO)

          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1

              NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.


                                *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                (METERS/SEC)
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1.54, 3.09, 5.14, 8.23, 10.80,

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: SNANKX08.SFC Met Version: 06
Profile file: SNANKX08.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 72297 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2008 Year: 2008

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	
08	01	01	1	01	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	285.9	2
08	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	283.1	2
08	01	01	1	03	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	280.9	2
08	01	01	1	04	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	280.9	2
08	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	282.0	2
08	01	01	1	06	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	280.9	2
08	01	01	1	07	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	280.9	2
08	01	01	1	08	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	0.53	0.00	0.	10.0	283.1	2
08	01	01	1	09	17.7	-9.000	-9.000	-9.000	46.	-999.	-99999.0	0.16	1.15	0.31	0.00	0.	10.0	288.1	2
08	01	01	1	10	44.0	-9.000	-9.000	-9.000	96.	-999.	-99999.0	0.16	1.15	0.24	0.00	0.	10.0	292.0	2
08	01	01	1	11	62.8	-9.000	-9.000	-9.000	169.	-999.	-99999.0	0.16	1.15	0.21	0.00	0.	10.0	295.4	2
08	01	01	1	12	71.1	-9.000	-9.000	-9.000	277.	-999.	-99999.0	0.16	1.15	0.20	0.00	0.	10.0	295.4	2
08	01	01	1	13	70.7	-9.000	-9.000	-9.000	397.	-999.	-99999.0	0.16	1.15	0.20	0.00	0.	10.0	295.9	2
08	01	01	1	14	60.8	0.179	0.944	0.010	500.	174.	-8.5	0.11	1.15	0.21	1.50	189.	10.0	295.9	2
08	01	01	1	15	41.4	0.173	0.866	0.011	567.	165.	-11.2	0.11	1.15	0.24	1.50	202.	10.0	294.2	2
08	01	01	1	16	15.9	-9.000	-9.000	-9.000	593.	-999.	-99999.0	0.16	1.15	0.33	0.00	0.	10.0	294.2	2
08	01	01	1	17	-13.8	0.258	-9.000	-9.000	-999.	301.	112.4	0.13	1.15	0.60	3.10	51.	10.0	293.1	2
08	01	01	1	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	290.9	2
08	01	01	1	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	290.4	2
08	01	01	1	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	287.0	2
08	01	01	1	21	-3.4	0.069	-9.000	-9.000	-999.	41.	8.6	0.13	1.15	1.00	1.50	30.	10.0	287.0	2
08	01	01	1	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	285.9	2
08	01	01	1	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	284.2	2
08	01	01	1	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	283.1	2

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
08	01	01	01	10.0	1	-999.	-99.00	286.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: NBOPS **
INCLUDING SOURCE(S): NBOPS ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412489.85	3722582.17	0.82148	412553.28	3722330.87	1.12907
412524.37	3722386.27	1.15387	412497.88	3722433.64	0.84289
412475.40	3722481.01	0.79848	412467.37	3722520.35	0.79673
412594.22	3722278.69	1.17859	412609.48	3722233.72	1.26041
412659.26	3722176.72	1.46662	412731.52	3722032.20	1.95082
412776.48	3721942.28	2.28976	412698.60	3722100.45	1.70958
413165.07	3721124.95	1.08440	412982.01	3721085.61	1.63049
412880.85	3720974.81	1.48220	412180.50	3721337.95	5.77612
412126.66	3721479.63	3.27537	412179.67	3721036.32	25.30694
412246.84	3720839.91	23.31722	412523.33	3720798.43	2.93316
412785.01	3720680.92	0.81208	412827.47	3720655.25	0.68422
412829.44	3720862.62	1.13364	412867.53	3720847.44	1.07183
412868.83	3721078.36	2.19826	413200.67	3721146.03	1.04901
412993.36	3721499.53	2.73410	412898.56	3721458.06	3.27962
412839.32	3721588.41	3.18146	412760.32	3721546.93	3.85207
412651.70	3721745.41	3.11315	412713.91	3721778.00	2.95922
412811.67	3721775.04	2.77561	412824.50	3721806.64	2.64774
412450.25	3722501.81	0.77196	412561.84	3722804.97	0.72316
411744.21	3722808.92	0.37528	411738.29	3722781.27	0.38423
411839.01	3722778.30	0.39657	411658.31	3722071.28	0.86071
411781.74	3721849.10	1.24171	411839.01	3721823.42	1.31804
411878.51	3721756.28	1.50569	411861.72	3721715.79	1.62108
412070.08	3721660.49	1.96120	412172.22	3721496.62	3.39889
412240.44	3721353.39	6.72558	412254.01	3721277.35	10.02879
412249.37	3721236.78	12.07047	412248.99	3721170.97	18.32466
412257.01	3721138.64	25.32489	412256.89	3721096.95	38.35958
412242.84	3721038.39	53.39809	412339.00	3720826.08	15.32807
412431.17	3720812.26	4.96903	412610.56	3720759.26	1.61403
412697.78	3720720.09	1.14354	412828.13	3720724.37	0.78475
412828.78	3720793.50	0.87135	412867.96	3720924.41	1.27726
412868.40	3721001.39	1.70998	412951.79	3721095.28	1.83174
413034.75	3721112.20	1.46559	413117.71	3721129.11	1.21159
413159.21	3721216.73	1.25739	413117.75	3721287.43	1.46374
413076.28	3721358.13	1.72492	413034.82	3721428.83	2.07860
412945.96	3721478.80	2.92436	412868.94	3721523.24	3.15720
412724.11	3721613.09	3.79215	412687.91	3721679.25	3.55474
412777.72	3721893.54	2.45068	412730.94	3721980.43	2.11156
412684.16	3722067.33	1.77189	412637.38	3722154.23	1.47791
412590.59	3722241.12	1.20975	412543.81	3722328.02	1.09281
412497.03	3722414.91	0.87306	412478.15	3722577.60	0.82399

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: NBOPS **
INCLUDING SOURCE(S): NBOPS ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC X-COORD (M) Y-COORD (M) CONC

412506.05	3722653.39	0.75433	412533.94	3722729.18	0.70047
412470.99	3722805.41	0.75923	412380.14	3722805.85	0.70995
412289.30	3722806.29	0.64292	412198.45	3722806.73	0.57538
412107.60	3722807.16	0.50987	412016.75	3722807.60	0.45291
411925.91	3722808.04	0.41107	411835.06	3722808.48	0.38614
411788.65	3722779.79	0.38868	411816.42	3722689.92	0.42420
411793.84	3722601.55	0.45850	411771.25	3722513.17	0.50062
411748.66	3722424.79	0.55181	411726.07	3722336.41	0.61268
411703.49	3722248.04	0.68403	411680.90	3722159.66	0.76656
411699.45	3721997.22	0.96379	411740.60	3721923.16	1.08850
411931.17	3721697.36	1.71914	412000.63	3721678.92	1.82042
412121.15	3721578.56	2.51043	412206.33	3721425.01	4.60322
412244.84	3720939.15	57.74285			

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: WNOCEAST **
INCLUDING SOURCE(S): WNOCEAST,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412489.85	3722582.17	8.31887	412553.28	3722330.87	12.99994
412524.37	3722386.27	11.11537	412497.88	3722433.64	12.69810
412475.40	3722481.01	11.69916	412467.37	3722520.35	10.25641
412594.22	3722278.69	13.96959	412609.48	3722233.72	14.87720
412659.26	3722176.72	13.72967	412731.52	3722032.20	13.04519
412776.48	3721942.28	11.11362	412698.60	3722100.45	13.51834
413165.07	3721124.95	0.44142	412982.01	3721085.61	0.65573
412880.85	3720974.81	0.69121	412180.50	3721337.95	2.39187
412126.66	3721479.63	2.74116	412179.67	3721036.32	0.99545
412246.84	3720839.91	0.57128	412523.33	3720798.43	0.48377
412785.01	3720680.92	0.17740	412827.47	3720655.25	0.16132
412829.44	3720862.62	0.41422	412867.53	3720847.44	0.32520
412868.83	3721078.36	1.07068	413200.67	3721146.03	0.43041
412993.36	3721499.53	1.49711	412898.56	3721458.06	1.84429
412839.32	3721588.41	3.15438	412760.32	3721546.93	4.16318
412651.70	3721745.41	13.18465	412713.91	3721778.00	8.82939
412811.67	3721775.04	5.16977	412824.50	3721806.64	5.31773
412450.25	3722501.81	11.74798	412561.84	3722804.97	5.65670
411744.21	3722808.92	0.90666	411738.29	3722781.27	0.92214
411839.01	3722778.30	1.03059	411658.31	3722071.28	1.08439
411781.74	3721849.10	1.32650	411839.01	3721823.42	1.53067
411878.51	3721756.28	1.65295	411861.72	3721715.79	1.50253
412070.08	3721660.49	3.60267	412172.22	3721496.62	3.64199
412240.44	3721353.39	3.35267	412254.01	3721277.35	3.16666
412249.37	3721236.78	2.80927	412248.99	3721170.97	2.25679
412257.01	3721138.64	2.04085	412256.89	3721096.95	1.60066
412242.84	3721038.39	1.14689	412339.00	3720826.08	0.49240
412431.17	3720812.26	0.44217	412610.56	3720759.26	0.37440
412697.78	3720720.09	0.21909	412828.13	3720724.37	0.20091
412828.78	3720793.50	0.27263	412867.96	3720924.41	0.54740
412868.40	3721001.39	0.83950	412951.79	3721095.28	0.75150
413034.75	3721112.20	0.59568	413117.71	3721129.11	0.49646
413159.21	3721216.73	0.55189	413117.75	3721287.43	0.70928

413076.28	3721358.13	0.91062	413034.82	3721428.83	1.17485
412945.96	3721478.80	1.66619	412868.94	3721523.24	2.41292
412724.11	3721613.09	6.00272	412687.91	3721679.25	8.83273
412777.72	3721893.54	11.10612	412730.94	3721980.43	14.35536
412684.16	3722067.33	15.62814	412637.38	3722154.23	16.04272
412590.59	3722241.12	15.80988	412543.81	3722328.02	13.83375
412497.03	3722414.91	13.62878	412478.15	3722577.60	8.65852

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: WNOCEAST **
INCLUDING SOURCE(S): WNOCEAST,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412506.05	3722653.39	8.10874	412533.94	3722729.18	7.51925
412470.99	3722805.41	6.26537	412380.14	3722805.85	3.66844
412289.30	3722806.29	2.28199	412198.45	3722806.73	1.73070
412107.60	3722807.16	1.43476	412016.75	3722807.60	1.24430
411925.91	3722808.04	1.10542	411835.06	3722808.48	0.99678
411788.65	3722779.79	0.97277	411816.42	3722689.92	1.08615
411793.84	3722601.55	1.13013	411771.25	3722513.17	1.16093
411748.66	3722424.79	1.17543	411726.07	3722336.41	1.17708
411703.49	3722248.04	1.16269	411680.90	3722159.66	1.13187
411699.45	3721997.22	1.16236	411740.60	3721923.16	1.24415
411931.17	3721697.36	1.87221	412000.63	3721678.92	2.47270
412121.15	3721578.56	3.69161	412206.33	3721425.01	3.39490
412244.84	3720939.15	0.78885			

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: WNOC_NW **
INCLUDING SOURCE(S): WNOC_NW ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412489.85	3722582.17	4.30413	412553.28	3722330.87	2.25040
412524.37	3722386.27	3.31548	412497.88	3722433.64	2.94173
412475.40	3722481.01	3.48093	412467.37	3722520.35	3.94926
412594.22	3722278.69	1.61491	412609.48	3722233.72	1.35380
412659.26	3722176.72	0.99520	412731.52	3722032.20	0.54305
412776.48	3721942.28	0.37497	412698.60	3722100.45	0.71982
413165.07	3721124.95	0.07736	412982.01	3721085.61	0.08910
412880.85	3720974.81	0.08574	412180.50	3721337.95	0.24399
412126.66	3721479.63	0.39474	412179.67	3721036.32	0.13715
412246.84	3720839.91	0.09833	412523.33	3720798.43	0.08617
412785.01	3720680.92	0.07654	412827.47	3720655.25	0.07463

412829.44	3720862.62	0.08590	412867.53	3720847.44	0.08727
412868.83	3721078.36	0.09130	413200.67	3721146.03	0.07646
412993.36	3721499.53	0.13939	412898.56	3721458.06	0.13644
412839.32	3721588.41	0.15639	412760.32	3721546.93	0.15564
412651.70	3721745.41	0.25668	412713.91	3721778.00	0.25718
412811.67	3721775.04	0.22537	412824.50	3721806.64	0.23901
412450.25	3722501.81	3.98999	412561.84	3722804.97	4.31818
411744.21	3722808.92	4.30364	411738.29	3722781.27	4.45232
411839.01	3722778.30	7.78229	411658.31	3722071.28	4.35351
411781.74	3721849.10	3.27503	411839.01	3721823.42	3.74512
411878.51	3721756.28	2.91293	411861.72	3721715.79	2.11112
412070.08	3721660.49	1.11881	412172.22	3721496.62	0.38094
412240.44	3721353.39	0.23788	412254.01	3721277.35	0.19896
412249.37	3721236.78	0.18370	412248.99	3721170.97	0.16197
412257.01	3721138.64	0.15204	412256.89	3721096.95	0.14152
412242.84	3721038.39	0.12993	412339.00	3720826.08	0.09171
412431.17	3720812.26	0.08789	412610.56	3720759.26	0.08244
412697.78	3720720.09	0.07943	412828.13	3720724.37	0.07906
412828.78	3720793.50	0.08156	412867.96	3720924.41	0.08638
412868.40	3721001.39	0.08663	412951.79	3721095.28	0.09188
413034.75	3721112.20	0.08572	413117.71	3721129.11	0.08001
413159.21	3721216.73	0.08184	413117.75	3721287.43	0.08784
413076.28	3721358.13	0.09638	413034.82	3721428.83	0.10918
412945.96	3721478.80	0.13536	412868.94	3721523.24	0.13902
412724.11	3721613.09	0.17808	412687.91	3721679.25	0.21006
412777.72	3721893.54	0.32219	412730.94	3721980.43	0.46049
412684.16	3722067.33	0.67488	412637.38	3722154.23	0.99924
412590.59	3722241.12	1.46575	412543.81	3722328.02	2.24840
412497.03	3722414.91	2.90301	412478.15	3722577.60	4.53342

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: WNOC_NW **
INCLUDING SOURCE(S): WNOC_NW ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412506.05	3722653.39	4.22563	412533.94	3722729.18	3.99940
412470.99	3722805.41	8.04537	412380.14	3722805.85	12.54774
412289.30	3722806.29	14.46483	412198.45	3722806.73	16.62377
412107.60	3722807.16	16.95646	412016.75	3722807.60	15.80478
411925.91	3722808.04	12.72358	411835.06	3722808.48	6.62225
411788.65	3722779.79	5.60895	411816.42	3722689.92	8.39321
411793.84	3722601.55	8.43315	411771.25	3722513.17	8.25394
411748.66	3722424.79	7.93979	411726.07	3722336.41	7.47491
411703.49	3722248.04	6.83440	411680.90	3722159.66	5.90394
411699.45	3721997.22	4.35236	411740.60	3721923.16	3.88716
411931.17	3721697.36	2.10960	412000.63	3721678.92	1.77007
412121.15	3721578.56	0.57832	412206.33	3721425.01	0.29434
412244.84	3720939.15	0.11223			

**MODELOPTs: RegDFAULT CONC ELEV

FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: WNOC_FNW **
INCLUDING SOURCE(S): WNOC_FNW,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412489.85	3722582.17	4.66492	412553.28	3722330.87	2.39048
412524.37	3722386.27	3.52494	412497.88	3722433.64	3.17428
412475.40	3722481.01	3.78578	412467.37	3722520.35	4.30548
412594.22	3722278.69	1.70491	412609.48	3722233.72	1.41740
412659.26	3722176.72	1.03522	412731.52	3722032.20	0.56021
412776.48	3721942.28	0.38296	412698.60	3722100.45	0.74644
413165.07	3721124.95	0.08138	412982.01	3721085.61	0.09459
412880.85	3720974.81	0.09067	412180.50	3721337.95	0.22043
412126.66	3721479.63	0.36189	412179.67	3721036.32	0.12271
412246.84	3720839.91	0.08936	412523.33	3720798.43	0.07937
412785.01	3720680.92	0.07681	412827.47	3720655.25	0.07571
412829.44	3720862.62	0.09016	412867.53	3720847.44	0.09115
412868.83	3721078.36	0.09665	413200.67	3721146.03	0.08013
412993.36	3721499.53	0.14449	412898.56	3721458.06	0.14288
412839.32	3721588.41	0.16359	412760.32	3721546.93	0.16432
412651.70	3721745.41	0.26570	412713.91	3721778.00	0.26483
412811.67	3721775.04	0.23097	412824.50	3721806.64	0.24356
412450.25	3722501.81	4.37578	412561.84	3722804.97	4.67382
411744.21	3722808.92	4.41036	411738.29	3722781.27	4.56294
411839.01	3722778.30	8.87148	411658.31	3722071.28	4.77510
411781.74	3721849.10	3.56507	411839.01	3721823.42	4.46714
411878.51	3721756.28	3.30956	411861.72	3721715.79	2.24505
412070.08	3721660.49	1.13835	412172.22	3721496.62	0.36099
412240.44	3721353.39	0.22597	412254.01	3721277.35	0.18577
412249.37	3721236.78	0.16874	412248.99	3721170.97	0.14662
412257.01	3721138.64	0.13742	412256.89	3721096.95	0.12750
412242.84	3721038.39	0.11684	412339.00	3720826.08	0.08297
412431.17	3720812.26	0.07985	412610.56	3720759.26	0.07769
412697.78	3720720.09	0.07730	412828.13	3720724.37	0.08184
412828.78	3720793.50	0.08553	412867.96	3720924.41	0.09102
412868.40	3721001.39	0.09163	412951.79	3721095.28	0.09751
413034.75	3721112.20	0.09094	413117.71	3721129.11	0.08444
413159.21	3721216.73	0.08562	413117.75	3721287.43	0.09164
413076.28	3721358.13	0.10028	413034.82	3721428.83	0.11374
412945.96	3721478.80	0.14132	412868.94	3721523.24	0.14607
412724.11	3721613.09	0.18693	412687.91	3721679.25	0.21791
412777.72	3721893.54	0.32820	412730.94	3721980.43	0.47287
412684.16	3722067.33	0.69965	412637.38	3722154.23	1.04041
412590.59	3722241.12	1.54154	412543.81	3722328.02	2.39077
412497.03	3722414.91	3.12884	412478.15	3722577.60	4.92305

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: WNOC_FNW **
INCLUDING SOURCE(S): WNOC_FNW,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412506.05	3722653.39	4.58562	412533.94	3722729.18	4.34398
412470.99	3722805.41	8.59627	412380.14	3722805.85	13.89387
412289.30	3722806.29	15.70634	412198.45	3722806.73	18.62857
412107.60	3722807.16	19.37199	412016.75	3722807.60	18.30705
411925.91	3722808.04	15.01359	411835.06	3722808.48	7.02804
411788.65	3722779.79	5.85056	411816.42	3722689.92	9.58499
411793.84	3722601.55	9.53269	411771.25	3722513.17	9.27096
411748.66	3722424.79	8.89505	411726.07	3722336.41	8.37642
411703.49	3722248.04	7.70157	411680.90	3722159.66	6.73531
411699.45	3721997.22	4.83630	411740.60	3721923.16	4.24451
411931.17	3721697.36	2.31861	412000.63	3721678.92	2.00165
412121.15	3721578.56	0.55232	412206.33	3721425.01	0.27943
412244.84	3720939.15	0.10127			

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: WNOCFEST **
INCLUDING SOURCE(S): WNOCFEST,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412489.85	3722582.17	9.26286	412553.28	3722330.87	15.24470
412524.37	3722386.27	12.69695	412497.88	3722433.64	14.21097
412475.40	3722481.01	13.00906	412467.37	3722520.35	11.63516
412594.22	3722278.69	15.61738	412609.48	3722233.72	16.83225
412659.26	3722176.72	15.05311	412731.52	3722032.20	14.47285
412776.48	3721942.28	12.38281	412698.60	3722100.45	14.87442
413165.07	3721124.95	0.42921	412982.01	3721085.61	0.63883
412880.85	3720974.81	0.68293	412180.50	3721337.95	2.55425
412126.66	3721479.63	2.94611	412179.67	3721036.32	1.03954
412246.84	3720839.91	0.59509	412523.33	3720798.43	0.49222
412785.01	3720680.92	0.18111	412827.47	3720655.25	0.16513
412829.44	3720862.62	0.40713	412867.53	3720847.44	0.31624
412868.83	3721078.36	1.07409	413200.67	3721146.03	0.41865
412993.36	3721499.53	1.49762	412898.56	3721458.06	1.84769
412839.32	3721588.41	3.14682	412760.32	3721546.93	4.19527
412651.70	3721745.41	15.89808	412713.91	3721778.00	9.48230
412811.67	3721775.04	5.27870	412824.50	3721806.64	5.42048
412450.25	3722501.81	13.84372	412561.84	3722804.97	6.20162
411744.21	3722808.92	0.93482	411738.29	3722781.27	0.95068
411839.01	3722778.30	1.05965	411658.31	3722071.28	1.11843
411781.74	3721849.10	1.35858	411839.01	3721823.42	1.57374
411878.51	3721756.28	1.70443	411861.72	3721715.79	1.54327
412070.08	3721660.49	4.16978	412172.22	3721496.62	4.23164
412240.44	3721353.39	3.80238	412254.01	3721277.35	3.73163
412249.37	3721236.78	3.28484	412248.99	3721170.97	2.60203
412257.01	3721138.64	2.35060	412256.89	3721096.95	1.75440
412242.84	3721038.39	1.21754	412339.00	3720826.08	0.48618
412431.17	3720812.26	0.42896	412610.56	3720759.26	0.38864

412697.78	3720720.09	0.21644	412828.13	3720724.37	0.20302
412828.78	3720793.50	0.26932	412867.96	3720924.41	0.54483
412868.40	3721001.39	0.83251	412951.79	3721095.28	0.73947
413034.75	3721112.20	0.57705	413117.71	3721129.11	0.48158
413159.21	3721216.73	0.53523	413117.75	3721287.43	0.69449
413076.28	3721358.13	0.89365	413034.82	3721428.83	1.15579
412945.96	3721478.80	1.66635	412868.94	3721523.24	2.39049
412724.11	3721613.09	6.20066	412687.91	3721679.25	9.50267
412777.72	3721893.54	13.15613	412730.94	3721980.43	17.06502
412684.16	3722067.33	18.60089	412637.38	3722154.23	19.26571
412590.59	3722241.12	18.89372	412543.81	3722328.02	16.80204
412497.03	3722414.91	15.73370	412478.15	3722577.60	9.81263

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: WNOCFEST **
INCLUDING SOURCE(S): WNOCFEST,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412506.05	3722653.39	9.15971	412533.94	3722729.18	8.36986
412470.99	3722805.41	7.22783	412380.14	3722805.85	3.82009
412289.30	3722806.29	2.28616	412198.45	3722806.73	1.71865
412107.60	3722807.16	1.43552	412016.75	3722807.60	1.25557
411925.91	3722808.04	1.12685	411835.06	3722808.48	1.02506
411788.65	3722779.79	1.00234	411816.42	3722689.92	1.12006
411793.84	3722601.55	1.16665	411771.25	3722513.17	1.19968
411748.66	3722424.79	1.21777	411726.07	3722336.41	1.22267
411703.49	3722248.04	1.20486	411680.90	3722159.66	1.16937
411699.45	3721997.22	1.19832	411740.60	3721923.16	1.27758
411931.17	3721697.36	1.93903	412000.63	3721678.92	2.59954
412121.15	3721578.56	4.28045	412206.33	3721425.01	3.83926
412244.84	3720939.15	0.82918			

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MOW1 **
INCLUDING SOURCE(S): MOW1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412489.85	3722582.17	0.78567	412553.28	3722330.87	1.08124
412524.37	3722386.27	1.05980	412497.88	3722433.64	0.82781
412475.40	3722481.01	0.78478	412467.37	3722520.35	0.77664
412594.22	3722278.69	1.13411	412609.48	3722233.72	1.20207
412659.26	3722176.72	1.37877	412731.52	3722032.20	1.91336
412776.48	3721942.28	2.38906	412698.60	3722100.45	1.62653

413165.07	3721124.95	1.80949	412982.01	3721085.61	3.12409
412880.85	3720974.81	2.79830	412180.50	3721337.95	4.72881
412126.66	3721479.63	2.98331	412179.67	3721036.32	7.28008
412246.84	3720839.91	5.37261	412523.33	3720798.43	4.94756
412785.01	3720680.92	0.99042	412827.47	3720655.25	0.81949
412829.44	3720862.62	1.93763	412867.53	3720847.44	1.76222
412868.83	3721078.36	4.75974	413200.67	3721146.03	1.72635
412993.36	3721499.53	4.76390	412898.56	3721458.06	5.88726
412839.32	3721588.41	4.94951	412760.32	3721546.93	5.64891
412651.70	3721745.41	2.95668	412713.91	3721778.00	3.05437
412811.67	3721775.04	3.42394	412824.50	3721806.64	3.24146
412450.25	3722501.81	0.75745	412561.84	3722804.97	0.69039
411744.21	3722808.92	0.37905	411738.29	3722781.27	0.38901
411839.01	3722778.30	0.38931	411658.31	3722071.28	0.82661
411781.74	3721849.10	1.15576	411839.01	3721823.42	1.24185
411878.51	3721756.28	1.41678	411861.72	3721715.79	1.48218
412070.08	3721660.49	1.88739	412172.22	3721496.62	2.90950
412240.44	3721353.39	4.79502	412254.01	3721277.35	6.41802
412249.37	3721236.78	7.40951	412248.99	3721170.97	9.38680
412257.01	3721138.64	10.79810	412256.89	3721096.95	11.97949
412242.84	3721038.39	10.82809	412339.00	3720826.08	8.78952
412431.17	3720812.26	11.44011	412610.56	3720759.26	2.42329
412697.78	3720720.09	1.46720	412828.13	3720724.37	1.03760
412828.78	3720793.50	1.29812	412867.96	3720924.41	2.29587
412868.40	3721001.39	3.41428	412951.79	3721095.28	3.64807
413034.75	3721112.20	2.67741	413117.71	3721129.11	2.07758
413159.21	3721216.73	2.12222	413117.75	3721287.43	2.55229
413076.28	3721358.13	3.13141	413034.82	3721428.83	3.77176
412945.96	3721478.80	5.15566	412868.94	3721523.24	5.21613
412724.11	3721613.09	4.68397	412687.91	3721679.25	3.74640
412777.72	3721893.54	2.61333	412730.94	3721980.43	2.08495
412684.16	3722067.33	1.67416	412637.38	3722154.23	1.38585
412590.59	3722241.12	1.16035	412543.81	3722328.02	1.05232
412497.03	3722414.91	0.85475	412478.15	3722577.60	0.78447

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MOW1 **
INCLUDING SOURCE(S): MOW1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412506.05	3722653.39	0.73050	412533.94	3722729.18	0.68381
412470.99	3722805.41	0.66966	412380.14	3722805.85	0.59805
412289.30	3722806.29	0.53032	412198.45	3722806.73	0.47038
412107.60	3722807.16	0.42466	412016.75	3722807.60	0.39618
411925.91	3722808.04	0.38257	411835.06	3722808.48	0.37865
411788.65	3722779.79	0.38879	411816.42	3722689.92	0.42369
411793.84	3722601.55	0.46348	411771.25	3722513.17	0.50901
411748.66	3722424.79	0.56025	411726.07	3722336.41	0.61838
411703.49	3722248.04	0.68306	411680.90	3722159.66	0.75336
411699.45	3721997.22	0.91915	411740.60	3721923.16	1.02789
411931.17	3721697.36	1.61777	412000.63	3721678.92	1.75309
412121.15	3721578.56	2.29191	412206.33	3721425.01	3.67110

412244.84 3720939.15 7.81843

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MOW2 **
INCLUDING SOURCE(S): MOW2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412489.85	3722582.17	0.58251	412553.28	3722330.87	0.78907
412524.37	3722386.27	0.80570	412497.88	3722433.64	0.59895
412475.40	3722481.01	0.57340	412467.37	3722520.35	0.57363
412594.22	3722278.69	0.80716	412609.48	3722233.72	0.84911
412659.26	3722176.72	0.96434	412731.52	3722032.20	1.31018
412776.48	3721942.28	1.65551	412698.60	3722100.45	1.12355
413165.07	3721124.95	2.36790	412982.01	3721085.61	4.71130
412880.85	3720974.81	5.45192	412180.50	3721337.95	2.06250
412126.66	3721479.63	1.85202	412179.67	3721036.32	1.28492
412246.84	3720839.91	1.14922	412523.33	3720798.43	2.14308
412785.01	3720680.92	1.14224	412827.47	3720655.25	0.89352
412829.44	3720862.62	2.63547	412867.53	3720847.44	1.82015
412868.83	3721078.36	10.02081	413200.67	3721146.03	2.43680
412993.36	3721499.53	15.58884	412898.56	3721458.06	15.69432
412839.32	3721588.41	5.62351	412760.32	3721546.93	5.05971
412651.70	3721745.41	2.01890	412713.91	3721778.00	2.09469
412811.67	3721775.04	2.63157	412824.50	3721806.64	2.49287
412450.25	3722501.81	0.56258	412561.84	3722804.97	0.51451
411744.21	3722808.92	0.45340	411738.29	3722781.27	0.46300
411839.01	3722778.30	0.47671	411658.31	3722071.28	0.71731
411781.74	3721849.10	0.91877	411839.01	3721823.42	1.00079
411878.51	3721756.28	1.09269	411861.72	3721715.79	1.07882
412070.08	3721660.49	1.55942	412172.22	3721496.62	2.03984
412240.44	3721353.39	2.46177	412254.01	3721277.35	2.45573
412249.37	3721236.78	2.30166	412248.99	3721170.97	2.04607
412257.01	3721138.64	1.96761	412256.89	3721096.95	1.79959
412242.84	3721038.39	1.53479	412339.00	3720826.08	1.42310
412431.17	3720812.26	1.78925	412610.56	3720759.26	2.14821
412697.78	3720720.09	1.79881	412828.13	3720724.37	1.09638
412828.78	3720793.50	1.25390	412867.96	3720924.41	4.13560
412868.40	3721001.39	7.36596	412951.79	3721095.28	6.11143
413034.75	3721112.20	4.24410	413117.71	3721129.11	3.16831
413159.21	3721216.73	8.33076	413117.75	3721287.43	12.96183
413076.28	3721358.13	15.75863	413034.82	3721428.83	17.05137
412945.96	3721478.80	15.79700	412868.94	3721523.24	8.63581
412724.11	3721613.09	3.47505	412687.91	3721679.25	2.57958
412777.72	3721893.54	1.82272	412730.94	3721980.43	1.41981
412684.16	3722067.33	1.15186	412637.38	3722154.23	0.96937
412590.59	3722241.12	0.82243	412543.81	3722328.02	0.76609
412497.03	3722414.91	0.62141	412478.15	3722577.60	0.58611

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MOW2 **
INCLUDING SOURCE(S): MOW2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412506.05	3722653.39	0.53376	412533.94	3722729.18	0.49674
412470.99	3722805.41	0.54360	412380.14	3722805.85	0.51273
412289.30	3722806.29	0.49466	412198.45	3722806.73	0.48540
412107.60	3722807.16	0.48051	412016.75	3722807.60	0.47665
411925.91	3722808.04	0.47139	411835.06	3722808.48	0.46371
411788.65	3722779.79	0.47014	411816.42	3722689.92	0.51233
411793.84	3722601.55	0.54811	411771.25	3722513.17	0.58278
411748.66	3722424.79	0.61491	411726.07	3722336.41	0.64461
411703.49	3722248.04	0.67174	411680.90	3722159.66	0.69636
411699.45	3721997.22	0.77900	411740.60	3721923.16	0.84644
411931.17	3721697.36	1.21018	412000.63	3721678.92	1.36766
412121.15	3721578.56	1.77201	412206.33	3721425.01	2.24831
412244.84	3720939.15	1.33323			

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MOW3 **
INCLUDING SOURCE(S): MOW3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412489.85	3722582.17	1.08957	412553.28	3722330.87	1.82476
412524.37	3722386.27	1.49076	412497.88	3722433.64	1.41161
412475.40	3722481.01	1.27049	412467.37	3722520.35	1.17708
412594.22	3722278.69	2.24711	412609.48	3722233.72	2.56993
412659.26	3722176.72	3.39627	412731.52	3722032.20	6.91982
412776.48	3721942.28	12.00143	412698.60	3722100.45	4.81728
413165.07	3721124.95	0.55618	412982.01	3721085.61	0.66441
412880.85	3720974.81	0.48258	412180.50	3721337.95	1.11565
412126.66	3721479.63	1.22973	412179.67	3721036.32	0.76209
412246.84	3720839.91	0.68078	412523.33	3720798.43	0.66392
412785.01	3720680.92	0.22826	412827.47	3720655.25	0.20036
412829.44	3720862.62	0.35805	412867.53	3720847.44	0.31412
412868.83	3721078.36	0.71614	413200.67	3721146.03	0.55248
412993.36	3721499.53	10.50680	412898.56	3721458.06	17.25311
412839.32	3721588.41	80.18932	412760.32	3721546.93	110.54173
412651.70	3721745.41	26.51660	412713.91	3721778.00	29.49094
412811.67	3721775.04	29.72425	412824.50	3721806.64	25.05128
412450.25	3722501.81	1.19456	412561.84	3722804.97	0.92005
411744.21	3722808.92	0.56716	411738.29	3722781.27	0.57932
411839.01	3722778.30	0.60553	411658.31	3722071.28	0.81632
411781.74	3721849.10	0.93718	411839.01	3721823.42	1.02467
411878.51	3721756.28	1.05452	411861.72	3721715.79	0.97031
412070.08	3721660.49	1.48801	412172.22	3721496.62	1.44213

412240.44	3721353.39	1.34238	412254.01	3721277.35	1.25529
412249.37	3721236.78	1.17446	412248.99	3721170.97	1.06600
412257.01	3721138.64	1.02918	412256.89	3721096.95	0.95843
412242.84	3721038.39	0.84655	412339.00	3720826.08	0.77423
412431.17	3720812.26	0.78896	412610.56	3720759.26	0.46790
412697.78	3720720.09	0.31408	412828.13	3720724.37	0.24245
412828.78	3720793.50	0.29839	412867.96	3720924.41	0.41135
412868.40	3721001.39	0.53676	412951.79	3721095.28	0.70414
413034.75	3721112.20	0.68330	413117.71	3721129.11	0.61565
413159.21	3721216.73	0.75065	413117.75	3721287.43	1.11600
413076.28	3721358.13	1.90525	413034.82	3721428.83	4.06284
412945.96	3721478.80	13.96055	412868.94	3721523.24	79.83729
412724.11	3721613.09	103.54659	412687.91	3721679.25	78.71409
412777.72	3721893.54	15.46112	412730.94	3721980.43	8.57372
412684.16	3722067.33	5.09399	412637.38	3722154.23	3.36663
412590.59	3722241.12	2.41094	412543.81	3722328.02	1.81326
412497.03	3722414.91	1.45585	412478.15	3722577.60	1.07557

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MOW3 **
INCLUDING SOURCE(S): MOW3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412506.05	3722653.39	1.02321	412533.94	3722729.18	0.97865
412470.99	3722805.41	0.72628	412380.14	3722805.85	0.64733
412289.30	3722806.29	0.62034	412198.45	3722806.73	0.61384
412107.60	3722807.16	0.61237	412016.75	3722807.60	0.60939
411925.91	3722808.04	0.60111	411835.06	3722808.48	0.58706
411788.65	3722779.79	0.59268	411816.42	3722689.92	0.65299
411793.84	3722601.55	0.69601	411771.25	3722513.17	0.73058
411748.66	3722424.79	0.75400	411726.07	3722336.41	0.77368
411703.49	3722248.04	0.79411	411680.90	3722159.66	0.81324
411699.45	3721997.22	0.86859	411740.60	3721923.16	0.91053
411931.17	3721697.36	1.10344	412000.63	3721678.92	1.27060
412121.15	3721578.56	1.47462	412206.33	3721425.01	1.37389
412244.84	3720939.15	0.74913			

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MOW4 **
INCLUDING SOURCE(S): MOW4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412489.85	3722582.17	38.97812	412553.28	3722330.87	2.16667

412524.37	3722386.27	6.55159	412497.88	3722433.64	13.15757
412475.40	3722481.01	24.97803	412467.37	3722520.35	33.13306
412594.22	3722278.69	1.16873	412609.48	3722233.72	0.87805
412659.26	3722176.72	0.64448	412731.52	3722032.20	0.39532
412776.48	3721942.28	0.31226	412698.60	3722100.45	0.48533
413165.07	3721124.95	0.08545	412982.01	3721085.61	0.07166
412880.85	3720974.81	0.06170	412180.50	3721337.95	0.23034
412126.66	3721479.63	0.34465	412179.67	3721036.32	0.14330
412246.84	3720839.91	0.09826	412523.33	3720798.43	0.06762
412785.01	3720680.92	0.05122	412827.47	3720655.25	0.04925
412829.44	3720862.62	0.06048	412867.53	3720847.44	0.05903
412868.83	3721078.36	0.06816	413200.67	3721146.03	0.09004
412993.36	3721499.53	0.14442	412898.56	3721458.06	0.12651
412839.32	3721588.41	0.15022	412760.32	3721546.93	0.13121
412651.70	3721745.41	0.19098	412713.91	3721778.00	0.20943
412811.67	3721775.04	0.21767	412824.50	3721806.64	0.23284
412450.25	3722501.81	33.28508	412561.84	3722804.97	45.76311
411744.21	3722808.92	1.72703	411738.29	3722781.27	1.66741
411839.01	3722778.30	2.17899	411658.31	3722071.28	0.60397
411781.74	3721849.10	0.55387	411839.01	3721823.42	0.60274
411878.51	3721756.28	0.62156	411861.72	3721715.79	0.58524
412070.08	3721660.49	0.56347	412172.22	3721496.62	0.31498
412240.44	3721353.39	0.20072	412254.01	3721277.35	0.17104
412249.37	3721236.78	0.16245	412248.99	3721170.97	0.14758
412257.01	3721138.64	0.13860	412256.89	3721096.95	0.13102
412242.84	3721038.39	0.12480	412339.00	3720826.08	0.08436
412431.17	3720812.26	0.07529	412610.56	3720759.26	0.06102
412697.78	3720720.09	0.05542	412828.13	3720724.37	0.05314
412828.78	3720793.50	0.05689	412867.96	3720924.41	0.06043
412868.40	3721001.39	0.06313	412951.79	3721095.28	0.07177
413034.75	3721112.20	0.07635	413117.71	3721129.11	0.08296
413159.21	3721216.73	0.09728	413117.75	3721287.43	0.10530
413076.28	3721358.13	0.11490	413034.82	3721428.83	0.12692
412945.96	3721478.80	0.13558	412868.94	3721523.24	0.13490
412724.11	3721613.09	0.14664	412687.91	3721679.25	0.16641
412777.72	3721893.54	0.28047	412730.94	3721980.43	0.34885
412684.16	3722067.33	0.45061	412637.38	3722154.23	0.62087
412590.59	3722241.12	0.93853	412543.81	3722328.02	2.09882
412497.03	3722414.91	10.21603	412478.15	3722577.60	44.76783

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MOW4 **
INCLUDING SOURCE(S): MOW4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412506.05	3722653.39	40.68858	412533.94	3722729.18	39.74584
412470.99	3722805.41	53.93648	412380.14	3722805.85	39.64202
412289.30	3722806.29	16.30095	412198.45	3722806.73	8.66845
412107.60	3722807.16	5.58386	412016.75	3722807.60	3.90577
411925.91	3722808.04	2.87384	411835.06	3722808.48	2.19510
411788.65	3722779.79	1.89472	411816.42	3722689.92	1.87459
411793.84	3722601.55	1.54493	411771.25	3722513.17	1.25089

411748.66	3722424.79	1.02886	411726.07	3722336.41	0.87800
411703.49	3722248.04	0.76861	411680.90	3722159.66	0.68112
411699.45	3721997.22	0.58617	411740.60	3721923.16	0.56359
411931.17	3721697.36	0.62159	412000.63	3721678.92	0.61517
412121.15	3721578.56	0.42401	412206.33	3721425.01	0.24980
412244.84	3720939.15	0.11067			

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MOW5 **
INCLUDING SOURCE(S): MOW5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412489.85	3722582.17	2.13369	412553.28	3722330.87	5.05572
412524.37	3722386.27	3.54804	412497.88	3722433.64	3.13686
412475.40	3722481.01	2.64044	412467.37	3722520.35	2.36420
412594.22	3722278.69	7.72664	412609.48	3722233.72	11.12142
412659.26	3722176.72	20.95343	412731.52	3722032.20	29.50871
412776.48	3721942.28	25.39936	412698.60	3722100.45	27.58313
413165.07	3721124.95	0.35286	412982.01	3721085.61	0.38873
412880.85	3720974.81	0.32640	412180.50	3721337.95	2.21343
412126.66	3721479.63	2.43592	412179.67	3721036.32	1.05609
412246.84	3720839.91	0.66346	412523.33	3720798.43	0.27434
412785.01	3720680.92	0.15966	412827.47	3720655.25	0.15101
412829.44	3720862.62	0.25669	412867.53	3720847.44	0.23729
412868.83	3721078.36	0.43173	413200.67	3721146.03	0.35723
412993.36	3721499.53	1.85319	412898.56	3721458.06	2.22138
412839.32	3721588.41	5.03303	412760.32	3721546.93	6.87141
412651.70	3721745.41	30.16707	412713.91	3721778.00	18.81886
412811.67	3721775.04	9.94699	412824.50	3721806.64	10.19097
412450.25	3722501.81	2.38620	412561.84	3722804.97	1.65383
411744.21	3722808.92	0.70800	411738.29	3722781.27	0.72408
411839.01	3722778.30	0.76928	411658.31	3722071.28	0.98243
411781.74	3721849.10	1.15173	411839.01	3721823.42	1.28350
411878.51	3721756.28	1.37144	411861.72	3721715.79	1.28462
412070.08	3721660.49	2.26582	412172.22	3721496.62	3.11666
412240.44	3721353.39	3.42745	412254.01	3721277.35	2.64808
412249.37	3721236.78	2.19670	412248.99	3721170.97	1.72326
412257.01	3721138.64	1.56349	412256.89	3721096.95	1.35812
412242.84	3721038.39	1.12447	412339.00	3720826.08	0.52416
412431.17	3720812.26	0.38013	412610.56	3720759.26	0.21371
412697.78	3720720.09	0.17893	412828.13	3720724.37	0.18148
412828.78	3720793.50	0.21904	412867.96	3720924.41	0.29194
412868.40	3721001.39	0.35185	412951.79	3721095.28	0.41303
413034.75	3721112.20	0.39479	413117.71	3721129.11	0.37605
413159.21	3721216.73	0.45450	413117.75	3721287.43	0.60335
413076.28	3721358.13	0.84513	413034.82	3721428.83	1.24077
412945.96	3721478.80	2.03347	412868.94	3721523.24	3.35810
412724.11	3721613.09	11.45039	412687.91	3721679.25	18.71972
412777.72	3721893.54	24.97761	412730.94	3721980.43	34.33615
412684.16	3722067.33	34.34732	412637.38	3722154.23	25.87035
412590.59	3722241.12	9.30658	412543.81	3722328.02	4.98777
412497.03	3722414.91	3.30128	412478.15	3722577.60	2.08940

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MOW5 **
INCLUDING SOURCE(S): MOW5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412506.05	3722653.39	1.94598	412533.94	3722729.18	1.81366
412470.99	3722805.41	1.23773	412380.14	3722805.85	1.03744
412289.30	3722806.29	0.92731	412198.45	3722806.73	0.86326
412107.60	3722807.16	0.82559	412016.75	3722807.60	0.80015
411925.91	3722808.04	0.77424	411835.06	3722808.48	0.74359
411788.65	3722779.79	0.74634	411816.42	3722689.92	0.83229
411793.84	3722601.55	0.89406	411771.25	3722513.17	0.95198
411748.66	3722424.79	0.99730	411726.07	3722336.41	1.02664
411703.49	3722248.04	1.03349	411680.90	3722159.66	1.01791
411699.45	3721997.22	1.04095	411740.60	3721923.16	1.09771
411931.17	3721697.36	1.51498	412000.63	3721678.92	1.82689
412121.15	3721578.56	2.61952	412206.33	3721425.01	3.43206
412244.84	3720939.15	0.86099			

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: NBOPS *
INCLUDING SOURCE(S): NBOPS ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412489.85	3722582.17	42.57097	(08120624)	412553.28	3722330.87	46.77201	(08031
412524.37	3722386.27	49.48087	(08121119)	412497.88	3722433.64	43.68559	(08120
412475.40	3722481.01	42.80267	(08120624)	412467.37	3722520.35	41.82365	(08120
412594.22	3722278.69	44.35296	(08031823)	412609.48	3722233.72	60.15834	(08053
412659.26	3722176.72	90.26143	(08053104)	412731.52	3722032.20	59.06979	(08053
412776.48	3721942.28	52.97675	(08021122)	412698.60	3722100.45	87.54269	(08053
413165.07	3721124.95	68.27849	(08071403)	412982.01	3721085.61	83.92013	(08071
412880.85	3720974.81	69.55446	(08051522)	412180.50	3721337.95	191.83979	(08012
412126.66	3721479.63	126.91193	(08012208)	412179.67	3721036.32	398.91997	(08021
412246.84	3720839.91	847.53148	(08021501)	412523.33	3720798.43	260.54957	(08121
412785.01	3720680.92	111.10006	(08062901)	412827.47	3720655.25	100.38502	(08121
412829.44	3720862.62	95.35672	(08071405)	412867.53	3720847.44	103.39314	(08071
412868.83	3721078.36	89.45673	(08071402)	413200.67	3721146.03	65.24340	(08071
412993.36	3721499.53	115.58651	(08030620)	412898.56	3721458.06	134.58228	(08030
412839.32	3721588.41	124.02900	(08102923)	412760.32	3721546.93	131.99875	(08102
412651.70	3721745.41	64.68632	(08041323)	412713.91	3721778.00	61.65237	(08021
412811.67	3721775.04	98.57236	(08090606)	412824.50	3721806.64	91.67826	(08090
412450.25	3722501.81	40.80782	(08063002)	412561.84	3722804.97	36.95325	(08121

411744.21	3722808.92	23.92942	(08010908)	411738.29	3722781.27	24.16232	(08012
411839.01	3722778.30	24.44209	(08081202)	411658.31	3722071.28	41.26417	(08021
411781.74	3721849.10	55.27127	(08021907)	411839.01	3721823.42	57.72191	(08040
411878.51	3721756.28	64.48369	(08040603)	411861.72	3721715.79	68.41107	(08021
412070.08	3721660.49	86.36578	(08012208)	412172.22	3721496.62	135.93042	(08071
412240.44	3721353.39	237.11277	(08071304)	412254.01	3721277.35	312.20640	(08071
412249.37	3721236.78	364.87868	(08071304)	412248.99	3721170.97	468.43095	(08071
412257.01	3721138.64	579.98918	(08071304)	412256.89	3721096.95	685.52759	(08071
412242.84	3721038.39	673.90976	(08031123)	412339.00	3720826.08	808.80870	(08042
412431.17	3720812.26	375.18504	(08050722)	412610.56	3720759.26	194.87631	(08121
412697.78	3720720.09	139.94095	(08121322)	412828.13	3720724.37	115.05547	(08012
412828.78	3720793.50	127.05435	(08071405)	412867.96	3720924.41	77.59198	(08090
412868.40	3721001.39	80.27969	(08071403)	412951.79	3721095.28	84.85122	(08071
413034.75	3721112.20	75.72913	(08071403)	413117.71	3721129.11	69.16441	(08071
413159.21	3721216.73	64.85211	(08071401)	413117.75	3721287.43	59.34816	(08071
413076.28	3721358.13	51.05244	(08112921)	413034.82	3721428.83	54.57089	(08081
412945.96	3721478.80	125.36244	(08030620)	412868.94	3721523.24	93.16342	(08030
412724.11	3721613.09	130.37195	(08090606)	412687.91	3721679.25	67.46251	(08090
412777.72	3721893.54	54.48234	(08021122)	412730.94	3721980.43	52.88501	(08010
412684.16	3722067.33	91.96057	(08053104)	412637.38	3722154.23	88.60978	(08053
412590.59	3722241.12	48.39366	(08053104)	412543.81	3722328.02	46.25833	(08032
412497.03	3722414.91	44.60573	(08120624)	412478.15	3722577.60	42.15872	(08120

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: NBOPS *
INCLUDING SOURCE(S): NBOPS ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412506.05	3722653.39	40.33132	(08120624)	412533.94	3722729.18	37.76933	(08120
412470.99	3722805.41	30.92431	(08063002)	412380.14	3722805.85	24.79200	(08031
412289.30	3722806.29	25.38749	(08121120)	412198.45	3722806.73	29.79449	(08053
412107.60	3722807.16	30.62974	(08053102)	412016.75	3722807.60	30.74657	(08071
411925.91	3722808.04	27.77440	(08071304)	411835.06	3722808.48	23.86403	(08081
411788.65	3722779.79	24.73343	(08010908)	411816.42	3722689.92	26.46778	(08010
411793.84	3722601.55	27.79261	(08012208)	411771.25	3722513.17	29.68563	(08012
411748.66	3722424.79	31.38130	(08090822)	411726.07	3722336.41	33.55895	(08081
411703.49	3722248.04	35.78493	(08031307)	411680.90	3722159.66	38.15452	(08120
411699.45	3721997.22	45.17812	(08021907)	411740.60	3721923.16	49.78366	(08021
411931.17	3721697.36	74.00941	(08120819)	412000.63	3721678.92	79.33020	(08081
412121.15	3721578.56	103.71677	(08010908)	412206.33	3721425.01	182.07713	(08071
412244.84	3720939.15	689.32576	(08021501)				

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: WNOCEAST *
INCLUDING SOURCE(S): WNOCEAST,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412489.85	3722582.17	66.71940	(08053104)	412553.28	3722330.87	86.88636	(08053
412524.37	3722386.27	78.13689	(08053104)	412497.88	3722433.64	88.84459	(08053
412475.40	3722481.01	85.65856	(08053104)	412467.37	3722520.35	78.52912	(08053
412594.22	3722278.69	90.10726	(08053104)	412609.48	3722233.72	93.52863	(08053
412659.26	3722176.72	87.46008	(08053104)	412731.52	3722032.20	79.36959	(08090
412776.48	3721942.28	74.81326	(08030620)	412698.60	3722100.45	81.46554	(08053
413165.07	3721124.95	18.50474	(08042623)	412982.01	3721085.61	22.37674	(08051
412880.85	3720974.81	25.58554	(08091324)	412180.50	3721337.95	40.97707	(08021
412126.66	3721479.63	53.18931	(08021501)	412179.67	3721036.32	32.48907	(08120
412246.84	3720839.91	34.73308	(08022923)	412523.33	3720798.43	34.46477	(08091
412785.01	3720680.92	26.06753	(08030919)	412827.47	3720655.25	23.95302	(08030
412829.44	3720862.62	26.25019	(08030919)	412867.53	3720847.44	24.28593	(08030
412868.83	3721078.36	26.41409	(08091324)	413200.67	3721146.03	18.24887	(08121
412993.36	3721499.53	26.93304	(08071405)	412898.56	3721458.06	29.56795	(08071
412839.32	3721588.41	34.76998	(08071405)	412760.32	3721546.93	40.02937	(08071
412651.70	3721745.41	74.14610	(08090606)	412713.91	3721778.00	53.43031	(08102
412811.67	3721775.04	45.93299	(08053123)	412824.50	3721806.64	51.55435	(08071
412450.25	3722501.81	85.35837	(08053104)	412561.84	3722804.97	51.64179	(08053
411744.21	3722808.92	17.13570	(08100620)	411738.29	3722781.27	17.02850	(08100
411839.01	3722778.30	18.75673	(08100620)	411658.31	3722071.28	17.93373	(08052
411781.74	3721849.10	21.15765	(08022904)	411839.01	3721823.42	22.99310	(08120
411878.51	3721756.28	26.05049	(08012222)	411861.72	3721715.79	25.84141	(08121
412070.08	3721660.49	61.29914	(08021501)	412172.22	3721496.62	59.63892	(08021
412240.44	3721353.39	46.42909	(08021501)	412254.01	3721277.35	44.32059	(08021
412249.37	3721236.78	42.88402	(08021501)	412248.99	3721170.97	41.34274	(08021
412257.01	3721138.64	42.82334	(08022923)	412256.89	3721096.95	42.34113	(08022
412242.84	3721038.39	38.95163	(08010806)	412339.00	3720826.08	38.31729	(08121
412431.17	3720812.26	38.22219	(08022622)	412610.56	3720759.26	37.62404	(08052
412697.78	3720720.09	33.57084	(08042705)	412828.13	3720724.37	24.93352	(08030
412828.78	3720793.50	25.81315	(08030919)	412867.96	3720924.41	25.53115	(08040
412868.40	3721001.39	26.21212	(08091324)	412951.79	3721095.28	23.21943	(08051
413034.75	3721112.20	21.07435	(08051619)	413117.71	3721129.11	19.32511	(08042
413159.21	3721216.73	19.26759	(08121322)	413117.75	3721287.43	20.15894	(08062
413076.28	3721358.13	22.54330	(08071405)	413034.82	3721428.83	25.10313	(08071
412945.96	3721478.80	28.39226	(08071405)	412868.94	3721523.24	32.57311	(08071
412724.11	3721613.09	44.84981	(08071405)	412687.91	3721679.25	55.03706	(08030
412777.72	3721893.54	73.19115	(08030620)	412730.94	3721980.43	85.26169	(08090
412684.16	3722067.33	91.84397	(08053104)	412637.38	3722154.23	97.99791	(08053
412590.59	3722241.12	97.68731	(08053104)	412543.81	3722328.02	90.55129	(08053
412497.03	3722414.91	92.35820	(08053104)	412478.15	3722577.60	67.25224	(08053

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: WNOCEAST *
INCLUDING SOURCE(S): WNOCEAST,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412506.05	3722653.39	61.79862	(08053104)	412533.94	3722729.18	57.16380	(08053
412470.99	3722805.41	68.20539	(08053104)	412380.14	3722805.85	64.01987	(08053

412289.30	3722806.29	48.90025	(08071304)	412198.45	3722806.73	35.81945	(08071
412107.60	3722807.16	27.40377	(08051603)	412016.75	3722807.60	23.55325	(08010
411925.91	3722808.04	20.80397	(08120819)	411835.06	3722808.48	18.69341	(08100
411788.65	3722779.79	17.85151	(08100620)	411816.42	3722689.92	18.36838	(08100
411793.84	3722601.55	18.04931	(08100620)	411771.25	3722513.17	17.91405	(08091
411748.66	3722424.79	17.94210	(08022401)	411726.07	3722336.41	17.94204	(08010
411703.49	3722248.04	18.08268	(08041020)	411680.90	3722159.66	18.05385	(08100
411699.45	3721997.22	19.12096	(08120321)	411740.60	3721923.16	20.11543	(08020
411931.17	3721697.36	31.05272	(08021501)	412000.63	3721678.92	48.53700	(08021
412121.15	3721578.56	60.81659	(08021501)	412206.33	3721425.01	53.72983	(08021
412244.84	3720939.15	37.47967	(08022923)				

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: WNOC_NW *
INCLUDING SOURCE(S): WNOC_NW ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412489.85	3722582.17	47.05739	(08030620)	412553.28	3722330.87	29.08585	(08030
412524.37	3722386.27	36.93985	(08030620)	412497.88	3722433.64	36.17348	(08030
412475.40	3722481.01	40.38028	(08030620)	412467.37	3722520.35	44.06252	(08030
412594.22	3722278.69	23.06766	(08071403)	412609.48	3722233.72	21.75630	(08071
412659.26	3722176.72	20.15523	(08071405)	412731.52	3722032.20	19.53814	(08071
412776.48	3721942.28	19.20266	(08071405)	412698.60	3722100.45	19.75871	(08071
413165.07	3721124.95	13.55381	(08053123)	412982.01	3721085.61	15.59319	(08052
412880.85	3720974.81	16.77744	(08100206)	412180.50	3721337.95	38.39038	(08011
412126.66	3721479.63	46.69089	(08011321)	412179.67	3721036.32	29.37700	(08052
412246.84	3720839.91	24.38826	(08052723)	412523.33	3720798.43	21.23132	(08091
412785.01	3720680.92	17.73533	(08040301)	412827.47	3720655.25	17.24790	(08040
412829.44	3720862.62	18.94313	(08091324)	412867.53	3720847.44	18.93627	(08091
412868.83	3721078.36	16.54341	(08011318)	413200.67	3721146.03	13.34602	(08053
412993.36	3721499.53	16.04089	(08111418)	412898.56	3721458.06	16.56276	(08053
412839.32	3721588.41	14.98356	(08053123)	412760.32	3721546.93	16.14617	(08042
412651.70	3721745.41	16.50382	(08042623)	412713.91	3721778.00	17.33676	(08071
412811.67	3721775.04	17.16798	(08071405)	412824.50	3721806.64	18.02011	(08071
412450.25	3722501.81	43.78895	(08030620)	412561.84	3722804.97	52.64211	(08030
411744.21	3722808.92	50.15899	(08120819)	411738.29	3722781.27	49.79397	(08120
411839.01	3722778.30	81.73408	(08071304)	411658.31	3722071.28	90.90219	(08021
411781.74	3721849.10	75.09167	(08021501)	411839.01	3721823.42	77.30002	(08021
411878.51	3721756.28	73.60904	(08120305)	411861.72	3721715.79	66.29332	(08120
412070.08	3721660.49	71.20801	(08052723)	412172.22	3721496.62	44.69264	(08011
412240.44	3721353.39	36.51286	(08042705)	412254.01	3721277.35	33.99959	(08042
412249.37	3721236.78	33.09084	(08011321)	412248.99	3721170.97	31.65273	(08011
412257.01	3721138.64	30.72437	(08011321)	412256.89	3721096.95	29.84299	(08011
412242.84	3721038.39	28.72198	(08011321)	412339.00	3720826.08	23.68008	(08011
412431.17	3720812.26	22.22564	(08042705)	412610.56	3720759.26	19.74961	(08030
412697.78	3720720.09	18.92716	(08030919)	412828.13	3720724.37	18.95629	(08040
412828.78	3720793.50	18.86898	(08091324)	412867.96	3720924.41	17.64548	(08121
412868.40	3721001.39	16.67012	(08100206)	412951.79	3721095.28	16.12994	(08011
413034.75	3721112.20	14.95812	(08042623)	413117.71	3721129.11	13.87432	(08042
413159.21	3721216.73	13.40268	(08053123)	413117.75	3721287.43	13.37852	(08050
413076.28	3721358.13	13.48758	(08050722)	413034.82	3721428.83	13.90131	(08111
412945.96	3721478.80	15.94035	(08050722)	412868.94	3721523.24	15.02551	(08053

412724.11	3721613.09	16.16632	(08042623)	412687.91	3721679.25	16.34213	(08042
412777.72	3721893.54	19.16675	(08071405)	412730.94	3721980.43	19.61621	(08071
412684.16	3722067.33	20.00335	(08071405)	412637.38	3722154.23	20.60047	(08071
412590.59	3722241.12	22.16169	(08071403)	412543.81	3722328.02	29.35926	(08030
412497.03	3722414.91	35.78985	(08030620)	412478.15	3722577.60	48.34339	(08030

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: WNOC_NW *
INCLUDING SOURCE(S): WNOC_NW ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412506.05	3722653.39	48.11846	(08030620)	412533.94	3722729.18	48.46964	(08030
412470.99	3722805.41	77.14974	(08030620)	412380.14	3722805.85	103.07134	(08090
412289.30	3722806.29	105.02291	(08053104)	412198.45	3722806.73	113.02003	(08053
412107.60	3722807.16	110.05517	(08053104)	412016.75	3722807.60	104.45391	(08053
411925.91	3722808.04	91.66238	(08053102)	411835.06	3722808.48	76.34520	(08071
411788.65	3722779.79	58.40073	(08120819)	411816.42	3722689.92	75.57668	(08071
411793.84	3722601.55	68.52943	(08071304)	411771.25	3722513.17	66.34797	(08021
411748.66	3722424.79	76.57918	(08021501)	411726.07	3722336.41	84.55780	(08021
411703.49	3722248.04	89.69126	(08021501)	411680.90	3722159.66	91.31436	(08021
411699.45	3721997.22	91.77887	(08021501)	411740.60	3721923.16	83.51360	(08021
411931.17	3721697.36	75.33097	(08022923)	412000.63	3721678.92	77.26472	(08022
412121.15	3721578.56	53.10157	(08011321)	412206.33	3721425.01	40.07829	(08011
412244.84	3720939.15	26.45967	(08011321)				

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: WNOC_FNW *
INCLUDING SOURCE(S): WNOC_FNW,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412489.85	3722582.17	48.33734	(08030620)	412553.28	3722330.87	30.75029	(08030
412524.37	3722386.27	38.13293	(08030620)	412497.88	3722433.64	37.10819	(08030
412475.40	3722481.01	41.45696	(08030620)	412467.37	3722520.35	45.28856	(08030
412594.22	3722278.69	25.09863	(08071403)	412609.48	3722233.72	23.62708	(08071
412659.26	3722176.72	21.48049	(08071405)	412731.52	3722032.20	20.72647	(08071
412776.48	3721942.28	20.36019	(08071405)	412698.60	3722100.45	21.00303	(08071
413165.07	3721124.95	14.51835	(08053123)	412982.01	3721085.61	17.11683	(08051
412880.85	3720974.81	18.55524	(08092805)	412180.50	3721337.95	41.98263	(08011
412126.66	3721479.63	51.37963	(08011321)	412179.67	3721036.32	34.55527	(08052
412246.84	3720839.91	29.62801	(08011321)	412523.33	3720798.43	25.26377	(08091
412785.01	3720680.92	21.15993	(08030919)	412827.47	3720655.25	20.59813	(08040
412829.44	3720862.62	20.88708	(08091324)	412867.53	3720847.44	21.02216	(08091
412868.83	3721078.36	18.21405	(08100206)	413200.67	3721146.03	14.19797	(08050

412993.36	3721499.53	17.06490	(08062822)	412898.56	3721458.06	17.61113	(08042
412839.32	3721588.41	16.14353	(08042623)	412760.32	3721546.93	17.46457	(08051
412651.70	3721745.41	18.01607	(08042623)	412713.91	3721778.00	19.16932	(08071
412811.67	3721775.04	19.13013	(08071405)	412824.50	3721806.64	19.90520	(08071
412450.25	3722501.81	45.02370	(08030620)	412561.84	3722804.97	54.82681	(08030
411744.21	3722808.92	52.69306	(08120819)	411738.29	3722781.27	52.46771	(08021
411839.01	3722778.30	92.33519	(08071304)	411658.31	3722071.28	96.41482	(08021
411781.74	3721849.10	80.68978	(08021501)	411839.01	3721823.42	90.32354	(08021
411878.51	3721756.28	81.87900	(08120305)	411861.72	3721715.79	71.17016	(08012
412070.08	3721660.49	82.92597	(08052723)	412172.22	3721496.62	46.75192	(08011
412240.44	3721353.39	39.18048	(08011321)	412254.01	3721277.35	37.00450	(08011
412249.37	3721236.78	36.42430	(08011321)	412248.99	3721170.97	35.33449	(08011
412257.01	3721138.64	34.53293	(08011321)	412256.89	3721096.95	33.90819	(08011
412242.84	3721038.39	33.37829	(08011321)	412339.00	3720826.08	28.33454	(08011
412431.17	3720812.26	26.65602	(08042705)	412610.56	3720759.26	23.17005	(08091
412697.78	3720720.09	22.60546	(08030919)	412828.13	3720724.37	21.25348	(08040
412828.78	3720793.50	21.05958	(08040301)	412867.96	3720924.41	19.71635	(08091
412868.40	3721001.39	18.43807	(08092805)	412951.79	3721095.28	17.62078	(08011
413034.75	3721112.20	16.16867	(08051619)	413117.71	3721129.11	14.86738	(08042
413159.21	3721216.73	14.25294	(08050722)	413117.75	3721287.43	14.28409	(08111
413076.28	3721358.13	14.40485	(08111418)	413034.82	3721428.83	14.82312	(08091
412945.96	3721478.80	16.96190	(08111418)	412868.94	3721523.24	16.15924	(08042
412724.11	3721613.09	17.53764	(08051619)	412687.91	3721679.25	17.77438	(08051
412777.72	3721893.54	20.46961	(08071405)	412730.94	3721980.43	20.80947	(08071
412684.16	3722067.33	21.27260	(08071405)	412637.38	3722154.23	21.97866	(08071
412590.59	3722241.12	24.12309	(08071403)	412543.81	3722328.02	30.90142	(08030
412497.03	3722414.91	36.74127	(08030620)	412478.15	3722577.60	49.72913	(08030

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: WNOC_FNW *
INCLUDING SOURCE(S): WNOC_FNW,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412506.05	3722653.39	49.58795	(08030620)	412533.94	3722729.18	50.09436	(08030
412470.99	3722805.41	81.20601	(08030620)	412380.14	3722805.85	108.25289	(08090
412289.30	3722806.29	110.77909	(08053104)	412198.45	3722806.73	121.24199	(08053
412107.60	3722807.16	118.97856	(08053104)	412016.75	3722807.60	114.64357	(08053
411925.91	3722808.04	101.94917	(08053104)	411835.06	3722808.48	84.50798	(08071
411788.65	3722779.79	62.36109	(08120819)	411816.42	3722689.92	85.19485	(08071
411793.84	3722601.55	76.94717	(08071304)	411771.25	3722513.17	75.17677	(08021
411748.66	3722424.79	84.47270	(08021501)	411726.07	3722336.41	91.88867	(08021
411703.49	3722248.04	98.83822	(08021501)	411680.90	3722159.66	98.71802	(08021
411699.45	3721997.22	99.55848	(08021501)	411740.60	3721923.16	89.89238	(08021
411931.17	3721697.36	83.20515	(08022923)	412000.63	3721678.92	84.79916	(08022
412121.15	3721578.56	56.59307	(08011321)	412206.33	3721425.01	42.51539	(08011
412244.84	3720939.15	31.56349	(08011321)				

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: WNOCFEST *
INCLUDING SOURCE(S): WNOCFEST,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412489.85	3722582.17	71.42761	(08053104)	412553.28	3722330.87	93.74805	(08053
412524.37	3722386.27	83.23232	(08053104)	412497.88	3722433.64	93.36614	(08053
412475.40	3722481.01	90.88742	(08053104)	412467.37	3722520.35	84.88180	(08053
412594.22	3722278.69	95.24979	(08053104)	412609.48	3722233.72	100.59718	(08053
412659.26	3722176.72	94.01657	(08053104)	412731.52	3722032.20	83.74812	(08090
412776.48	3721942.28	80.95619	(08030620)	412698.60	3722100.45	89.84470	(08053
413165.07	3721124.95	20.48240	(08100206)	412982.01	3721085.61	23.80756	(08111
412880.85	3720974.81	27.27616	(08030919)	412180.50	3721337.95	43.91822	(08022
412126.66	3721479.63	56.98870	(08021501)	412179.67	3721036.32	34.60976	(08121
412246.84	3720839.91	39.09318	(08050805)	412523.33	3720798.43	40.02554	(08091
412785.01	3720680.92	28.25943	(08042705)	412827.47	3720655.25	25.56549	(08091
412829.44	3720862.62	28.81414	(08091403)	412867.53	3720847.44	26.33002	(08091
412868.83	3721078.36	28.16178	(08030919)	413200.67	3721146.03	20.21317	(08011
412993.36	3721499.53	28.54448	(08071405)	412898.56	3721458.06	30.90421	(08071
412839.32	3721588.41	37.25455	(08091324)	412760.32	3721546.93	41.95075	(08071
412651.70	3721745.41	84.57542	(08090606)	412713.91	3721778.00	62.68968	(08040
412811.67	3721775.04	55.05524	(08011318)	412824.50	3721806.64	58.45121	(08071
412450.25	3722501.81	94.46575	(08053104)	412561.84	3722804.97	53.07589	(08053
411744.21	3722808.92	18.87136	(08120819)	411738.29	3722781.27	18.96868	(08120
411839.01	3722778.30	20.15242	(08010519)	411658.31	3722071.28	20.05934	(08010
411781.74	3721849.10	22.26854	(08010324)	411839.01	3721823.42	24.65944	(08012
411878.51	3721756.28	28.70751	(08011607)	411861.72	3721715.79	28.36178	(08052
412070.08	3721660.49	70.01070	(08021501)	412172.22	3721496.62	69.47941	(08021
412240.44	3721353.39	53.24825	(08050805)	412254.01	3721277.35	49.82780	(08021
412249.37	3721236.78	47.59707	(08021501)	412248.99	3721170.97	46.32540	(08021
412257.01	3721138.64	46.49179	(08042719)	412256.89	3721096.95	45.87048	(08120
412242.84	3721038.39	41.82197	(08120305)	412339.00	3720826.08	46.41024	(08122
412431.17	3720812.26	45.92231	(08122124)	412610.56	3720759.26	46.34368	(08091
412697.78	3720720.09	40.50199	(08011321)	412828.13	3720724.37	27.01981	(08091
412828.78	3720793.50	28.39409	(08091403)	412867.96	3720924.41	27.37643	(08030
412868.40	3721001.39	27.90353	(08030919)	412951.79	3721095.28	24.70869	(08111
413034.75	3721112.20	22.66714	(08091324)	413117.71	3721129.11	21.12342	(08092
413159.21	3721216.73	21.41533	(08011318)	413117.75	3721287.43	22.79689	(08011
413076.28	3721358.13	24.41233	(08011318)	413034.82	3721428.83	26.33014	(08011
412945.96	3721478.80	29.83834	(08071405)	412868.94	3721523.24	34.05489	(08071
412724.11	3721613.09	47.46783	(08071405)	412687.91	3721679.25	58.73677	(08102
412777.72	3721893.54	82.40740	(08030620)	412730.94	3721980.43	95.71375	(08090
412684.16	3722067.33	105.25551	(08053104)	412637.38	3722154.23	110.54345	(08053
412590.59	3722241.12	107.77295	(08053104)	412543.81	3722328.02	99.68572	(08053
412497.03	3722414.91	98.59957	(08053104)	412478.15	3722577.60	72.67989	(08053

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: WNOCFEST *
INCLUDING SOURCE(S): WNOCFEST,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412506.05	3722653.39	65.02447	(08053104)	412533.94	3722729.18	58.91671	(08053
412470.99	3722805.41	77.17319	(08053104)	412380.14	3722805.85	75.79100	(08053
412289.30	3722806.29	55.56832	(08071304)	412198.45	3722806.73	40.63373	(08071
412107.60	3722807.16	30.03560	(08101423)	412016.75	3722807.60	25.33785	(08051
411925.91	3722808.04	22.00019	(08010519)	411835.06	3722808.48	20.00846	(08010
411788.65	3722779.79	19.38105	(08070524)	411816.42	3722689.92	20.18736	(08070
411793.84	3722601.55	20.58776	(08120819)	411771.25	3722513.17	20.80771	(08081
411748.66	3722424.79	20.90565	(08012824)	411726.07	3722336.41	20.75910	(08051
411703.49	3722248.04	20.49796	(08121620)	411680.90	3722159.66	20.45052	(08010
411699.45	3721997.22	20.74239	(08052905)	411740.60	3721923.16	21.61644	(08120
411931.17	3721697.36	32.04418	(08121820)	412000.63	3721678.92	51.66312	(08021
412121.15	3721578.56	69.63415	(08021501)	412206.33	3721425.01	60.80468	(08021
412244.84	3720939.15	40.75968	(08022923)				

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MOW1 *
INCLUDING SOURCE(S): MOW1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412489.85	3722582.17	40.13064	(08031305)	412553.28	3722330.87	48.64995	(08050
412524.37	3722386.27	44.85601	(08081003)	412497.88	3722433.64	43.79854	(08031
412475.40	3722481.01	42.26742	(08091704)	412467.37	3722520.35	41.66249	(08091
412594.22	3722278.69	48.75482	(08081501)	412609.48	3722233.72	52.02246	(08120
412659.26	3722176.72	52.89381	(08121119)	412731.52	3722032.20	84.19726	(08053
412776.48	3721942.28	111.81489	(08053104)	412698.60	3722100.45	54.01609	(08031
413165.07	3721124.95	101.27577	(08071403)	412982.01	3721085.61	135.99700	(08071
412880.85	3720974.81	127.15184	(08090924)	412180.50	3721337.95	143.05076	(08022
412126.66	3721479.63	102.41258	(08120323)	412179.67	3721036.32	239.50765	(08011
412246.84	3720839.91	349.81752	(08021501)	412523.33	3720798.43	415.12639	(08030
412785.01	3720680.92	147.40202	(08050722)	412827.47	3720655.25	128.07378	(08050
412829.44	3720862.62	215.77103	(08071405)	412867.53	3720847.44	205.62606	(08071
412868.83	3721078.36	155.87178	(08071402)	413200.67	3721146.03	94.52092	(08071
412993.36	3721499.53	113.75172	(08030620)	412898.56	3721458.06	167.70976	(08102
412839.32	3721588.41	127.48510	(08090606)	412760.32	3721546.93	88.29889	(08090
412651.70	3721745.41	114.54474	(08053104)	412713.91	3721778.00	134.52017	(08053
412811.67	3721775.04	73.49670	(08053104)	412824.50	3721806.64	69.30978	(08053
412450.25	3722501.81	42.36111	(08121120)	412561.84	3722804.97	33.23767	(08050
411744.21	3722808.92	22.74458	(08090822)	411738.29	3722781.27	23.03079	(08091
411839.01	3722778.30	23.67226	(08012208)	411658.31	3722071.28	36.74843	(08022
411781.74	3721849.10	48.19621	(08022402)	411839.01	3721823.42	50.97500	(08022
411878.51	3721756.28	56.82520	(08022401)	411861.72	3721715.79	58.49507	(08022
412070.08	3721660.49	74.87334	(08021907)	412172.22	3721496.62	103.10722	(08021
412240.44	3721353.39	148.24620	(08021907)	412254.01	3721277.35	177.21711	(08120
412249.37	3721236.78	195.29737	(08022402)	412248.99	3721170.97	230.10826	(08121
412257.01	3721138.64	253.96779	(08010521)	412256.89	3721096.95	280.04732	(08021
412242.84	3721038.39	297.63059	(08022904)	412339.00	3720826.08	481.29409	(08021
412431.17	3720812.26	441.26306	(08120606)	412610.56	3720759.26	275.16256	(08011
412697.78	3720720.09	192.80380	(08042623)	412828.13	3720724.37	158.82821	(08091
412828.78	3720793.50	172.23433	(08062823)	412867.96	3720924.41	144.20568	(08103

412868.40	3721001.39	131.05412	(08071403)	412951.79	3721095.28	144.57483	(08071
413034.75	3721112.20	122.39885	(08071402)	413117.71	3721129.11	105.67879	(08071
413159.21	3721216.73	99.15131	(08071401)	413117.75	3721287.43	74.43715	(08070
413076.28	3721358.13	76.13069	(08120318)	413034.82	3721428.83	149.19738	(08030
412945.96	3721478.80	141.95485	(08102923)	412868.94	3721523.24	155.01667	(08090
412724.11	3721613.09	129.03852	(08053104)	412687.91	3721679.25	152.08003	(08053
412777.72	3721893.54	113.53289	(08053104)	412730.94	3721980.43	96.02535	(08053
412684.16	3722067.33	55.73385	(08031823)	412637.38	3722154.23	55.24679	(08121
412590.59	3722241.12	49.69894	(08081501)	412543.81	3722328.02	48.09590	(08050
412497.03	3722414.91	44.67203	(08031305)	412478.15	3722577.60	39.88336	(08031

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***

*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MOW1 *
INCLUDING SOURCE(S): MOW1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412506.05	3722653.39	38.21104	(08031305)	412533.94	3722729.18	35.98618	(08081
412470.99	3722805.41	25.08188	(08031305)	412380.14	3722805.85	28.69530	(08053
412289.30	3722806.29	30.72805	(08053102)	412198.45	3722806.73	30.31904	(08071
412107.60	3722807.16	28.51852	(08071304)	412016.75	3722807.60	23.86175	(08060
411925.91	3722808.04	23.99987	(08010908)	411835.06	3722808.48	23.29102	(08012
411788.65	3722779.79	23.35517	(08090822)	411816.42	3722689.92	25.01447	(08090
411793.84	3722601.55	26.38767	(08081606)	411771.25	3722513.17	28.10659	(08031
411748.66	3722424.79	29.90299	(08120819)	411726.07	3722336.41	31.03441	(08081
411703.49	3722248.04	33.40186	(08021907)	411680.90	3722159.66	34.89908	(08120
411699.45	3721997.22	40.24425	(08022401)	411740.60	3721923.16	44.02758	(08022
411931.17	3721697.36	62.83023	(08022401)	412000.63	3721678.92	68.21683	(08120
412121.15	3721578.56	86.62018	(08021907)	412206.33	3721425.01	122.56872	(08021
412244.84	3720939.15	291.74987	(08011607)				

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***

*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MOW2 *
INCLUDING SOURCE(S): MOW2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412489.85	3722582.17	27.72234	(08071304)	412553.28	3722330.87	33.36679	(08071
412524.37	3722386.27	31.92202	(08071304)	412497.88	3722433.64	26.94471	(08071
412475.40	3722481.01	25.24342	(08071304)	412467.37	3722520.35	25.15671	(08071
412594.22	3722278.69	34.56107	(08071304)	412609.48	3722233.72	35.15421	(08071
412659.26	3722176.72	35.90379	(08053102)	412731.52	3722032.20	40.21410	(08053
412776.48	3721942.28	40.34944	(08053102)	412698.60	3722100.45	38.80398	(08053
413165.07	3721124.95	64.71432	(08071405)	412982.01	3721085.61	55.02617	(08071
412880.85	3720974.81	44.00102	(08121322)	412180.50	3721337.95	54.14368	(08011

412126.66	3721479.63	44.71622	(08122417)	412179.67	3721036.32	71.23524	(08122
412246.84	3720839.91	105.56457	(08021501)	412523.33	3720798.43	100.48316	(08021
412785.01	3720680.92	86.70254	(08022622)	412827.47	3720655.25	74.69358	(08091
412829.44	3720862.62	68.56890	(08091401)	412867.53	3720847.44	72.05304	(08030
412868.83	3721078.36	69.56962	(08021501)	413200.67	3721146.03	73.00670	(08071
412993.36	3721499.53	139.53912	(08090606)	412898.56	3721458.06	138.72665	(08053
412839.32	3721588.41	74.79610	(08053104)	412760.32	3721546.93	56.93691	(08053
412651.70	3721745.41	45.24444	(08071304)	412713.91	3721778.00	46.41472	(08053
412811.67	3721775.04	42.03233	(08053102)	412824.50	3721806.64	40.55398	(08053
412450.25	3722501.81	24.15499	(08111819)	412561.84	3722804.97	28.92785	(08071
411744.21	3722808.92	17.85004	(08120323)	411738.29	3722781.27	18.01445	(08091
411839.01	3722778.30	18.68061	(08120323)	411658.31	3722071.28	23.99423	(08010
411781.74	3721849.10	28.12095	(08012206)	411839.01	3721823.42	29.33465	(08012
411878.51	3721756.28	31.32808	(08120321)	411861.72	3721715.79	32.25271	(08120
412070.08	3721660.49	37.30814	(08120321)	412172.22	3721496.62	45.26023	(08122
412240.44	3721353.39	55.42986	(08012121)	412254.01	3721277.35	62.81270	(08021
412249.37	3721236.78	67.43431	(08012619)	412248.99	3721170.97	74.86919	(08012
412257.01	3721138.64	79.18132	(08120101)	412256.89	3721096.95	80.29687	(08121
412242.84	3721038.39	78.15467	(08121820)	412339.00	3720826.08	114.81084	(08021
412431.17	3720812.26	113.08119	(08021501)	412610.56	3720759.26	94.08765	(08010
412697.78	3720720.09	94.51501	(08011603)	412828.13	3720724.37	86.30518	(08052
412828.78	3720793.50	74.05761	(08011321)	412867.96	3720924.41	49.11946	(08111
412868.40	3721001.39	49.98231	(08071405)	412951.79	3721095.28	58.69754	(08071
413034.75	3721112.20	61.50437	(08071405)	413117.71	3721129.11	66.35545	(08071
413159.21	3721216.73	85.55111	(08071403)	413117.75	3721287.43	104.48051	(08030
413076.28	3721358.13	124.37752	(08030620)	413034.82	3721428.83	131.18135	(08030
412945.96	3721478.80	139.97695	(08053104)	412868.94	3721523.24	100.14888	(08053
412724.11	3721613.09	53.07664	(08053102)	412687.91	3721679.25	48.46931	(08071
412777.72	3721893.54	41.19863	(08053102)	412730.94	3721980.43	41.21283	(08053
412684.16	3722067.33	38.86834	(08053102)	412637.38	3722154.23	36.66844	(08071
412590.59	3722241.12	34.48875	(08071304)	412543.81	3722328.02	32.35521	(08071
412497.03	3722414.91	27.08076	(08071304)	412478.15	3722577.60	26.89607	(08071

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MOW2 *
INCLUDING SOURCE(S): MOW2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412506.05	3722653.39	28.18233	(08071304)	412533.94	3722729.18	28.44510	(08071
412470.99	3722805.41	23.90454	(08071304)	412380.14	3722805.85	21.84123	(08010
412289.30	3722806.29	21.20681	(08012208)	412198.45	3722806.73	20.61387	(08090
412107.60	3722807.16	20.16321	(08031307)	412016.75	3722807.60	19.63716	(08120
411925.91	3722808.04	19.16011	(08021907)	411835.06	3722808.48	18.39676	(08081
411788.65	3722779.79	18.43788	(08120323)	411816.42	3722689.92	19.19972	(08120
411793.84	3722601.55	20.01187	(08022401)	411771.25	3722513.17	20.60544	(08022
411748.66	3722424.79	21.21043	(08121620)	411726.07	3722336.41	21.84444	(08022
411703.49	3722248.04	22.55504	(08121305)	411680.90	3722159.66	23.11484	(08090
411699.45	3721997.22	25.33718	(08010401)	411740.60	3721923.16	26.60614	(08021
411931.17	3721697.36	33.83833	(08120321)	412000.63	3721678.92	35.49477	(08120
412121.15	3721578.56	40.91502	(08120321)	412206.33	3721425.01	49.96714	(08022
412244.84	3720939.15	74.44893	(08121602)				

*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MOW3 *
INCLUDING SOURCE(S): MOW3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412489.85	3722582.17	54.41713	(08071304)	412553.28	3722330.87	79.91689	(08071
412524.37	3722386.27	67.84726	(08071304)	412497.88	3722433.64	61.70198	(08071
412475.40	3722481.01	54.50579	(08071304)	412467.37	3722520.35	51.68393	(08071
412594.22	3722278.69	90.19230	(08071304)	412609.48	3722233.72	96.44007	(08071
412659.26	3722176.72	106.04790	(08053102)	412731.52	3722032.20	113.12468	(08120
412776.48	3721942.28	209.90833	(08053104)	412698.60	3722100.45	110.70289	(08053
413165.07	3721124.95	96.16141	(08050722)	412982.01	3721085.61	114.91177	(08091
412880.85	3720974.81	96.44777	(08042705)	412180.50	3721337.95	78.72649	(08021
412126.66	3721479.63	77.54025	(08011222)	412179.67	3721036.32	102.18857	(08021
412246.84	3720839.91	53.40597	(08011006)	412523.33	3720798.43	58.85137	(08010
412785.01	3720680.92	50.65673	(08112501)	412827.47	3720655.25	49.04484	(08052
412829.44	3720862.62	75.63820	(08052723)	412867.53	3720847.44	72.57867	(08011
412868.83	3721078.36	121.95667	(08091403)	413200.67	3721146.03	89.13165	(08091
412993.36	3721499.53	233.58567	(08090923)	412898.56	3721458.06	468.29560	(08071
412839.32	3721588.41	469.54752	(08090606)	412760.32	3721546.93	490.50249	(08030
412651.70	3721745.41	435.63074	(08071304)	412713.91	3721778.00	348.16883	(08053
412811.67	3721775.04	244.71336	(08090606)	412824.50	3721806.64	217.87345	(08090
412450.25	3722501.81	53.37988	(08010908)	412561.84	3722804.97	45.34275	(08053
411744.21	3722808.92	26.72463	(08022401)	411738.29	3722781.27	27.09802	(08022
411839.01	3722778.30	28.06880	(08091005)	411658.31	3722071.28	38.18106	(08120
411781.74	3721849.10	45.02921	(08011206)	411839.01	3721823.42	48.48104	(08011
411878.51	3721756.28	52.80397	(08022904)	411861.72	3721715.79	51.75109	(08011
412070.08	3721660.49	69.66566	(08011606)	412172.22	3721496.62	83.57962	(08012
412240.44	3721353.39	87.79659	(08021705)	412254.01	3721277.35	84.87266	(08121
412249.37	3721236.78	103.87991	(08021501)	412248.99	3721170.97	129.59509	(08021
412257.01	3721138.64	130.42878	(08021501)	412256.89	3721096.95	114.12596	(08021
412242.84	3721038.39	81.63917	(08021501)	412339.00	3720826.08	56.33564	(08010
412431.17	3720812.26	57.95239	(08011208)	412610.56	3720759.26	56.94410	(08121
412697.78	3720720.09	56.13469	(08022622)	412828.13	3720724.37	57.41961	(08052
412828.78	3720793.50	67.28058	(08052723)	412867.96	3720924.41	87.21068	(08122
412868.40	3721001.39	102.87850	(08042705)	412951.79	3721095.28	119.72314	(08040
413034.75	3721112.20	111.70376	(08011318)	413117.71	3721129.11	103.06718	(08053
413159.21	3721216.73	109.17123	(08091320)	413117.75	3721287.43	140.06647	(08121
413076.28	3721358.13	171.27928	(08062823)	413034.82	3721428.83	255.78479	(08071
412945.96	3721478.80	329.64850	(08071405)	412868.94	3721523.24	497.61341	(08071
412724.11	3721613.09	536.32704	(08053104)	412687.91	3721679.25	571.36712	(08053
412777.72	3721893.54	239.60355	(08053104)	412730.94	3721980.43	128.62958	(08120
412684.16	3722067.33	124.81280	(08053102)	412637.38	3722154.23	110.52531	(08053
412590.59	3722241.12	95.75631	(08071304)	412543.81	3722328.02	78.55602	(08071
412497.03	3722414.91	62.01645	(08071304)	412478.15	3722577.60	52.39205	(08071

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***

*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MOW3 *

INCLUDING SOURCE(S): MOW3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412506.05	3722653.39	53.74098	(08071304)	412533.94	3722729.18	50.82170	(08071
412470.99	3722805.41	42.23472	(08071304)	412380.14	3722805.85	33.52596	(08081
412289.30	3722806.29	33.13923	(08012208)	412198.45	3722806.73	31.96181	(08091
412107.60	3722807.16	31.29990	(08120819)	412016.75	3722807.60	29.95280	(08081
411925.91	3722808.04	28.63052	(08081605)	411835.06	3722808.48	27.40031	(08091
411788.65	3722779.79	27.66676	(08022401)	411816.42	3722689.92	29.77399	(08022
411793.84	3722601.55	30.64955	(08091202)	411771.25	3722513.17	32.14576	(08022
411748.66	3722424.79	33.35380	(08121305)	411726.07	3722336.41	34.47230	(08082
411703.49	3722248.04	35.97280	(08010401)	411680.90	3722159.66	36.26557	(08012
411699.45	3721997.22	40.77924	(08122418)	411740.60	3721923.16	42.48838	(08122
411931.17	3721697.36	56.70854	(08011606)	412000.63	3721678.92	62.54039	(08011
412121.15	3721578.56	75.80574	(08120824)	412206.33	3721425.01	86.96721	(08011
412244.84	3720939.15	56.39703	(08053004)				

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MOW4 *
INCLUDING SOURCE(S): MOW4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412489.85	3722582.17	249.54280	(08030620)	412553.28	3722330.87	130.80414	(08042
412524.37	3722386.27	189.60556	(08071405)	412497.88	3722433.64	129.24950	(08071
412475.40	3722481.01	161.04050	(08030620)	412467.37	3722520.35	201.21227	(08030
412594.22	3722278.69	103.17026	(08011318)	412609.48	3722233.72	98.06058	(08011
412659.26	3722176.72	85.21432	(08011318)	412731.52	3722032.20	70.43308	(08100
412776.48	3721942.28	62.85764	(08092805)	412698.60	3722100.45	76.60863	(08011
413165.07	3721124.95	30.22381	(08040301)	412982.01	3721085.61	30.44000	(08030
412880.85	3720974.81	29.41551	(08091403)	412180.50	3721337.95	37.30927	(08121
412126.66	3721479.63	43.66747	(08022923)	412179.67	3721036.32	28.03268	(08121
412246.84	3720839.91	24.33100	(08121606)	412523.33	3720798.43	22.77572	(08112
412785.01	3720680.92	20.57714	(08011321)	412827.47	3720655.25	19.89183	(08011
412829.44	3720862.62	23.46738	(08122708)	412867.53	3720847.44	22.82287	(08042
412868.83	3721078.36	33.14384	(08091403)	413200.67	3721146.03	30.76982	(08091
412993.36	3721499.53	40.01503	(08091324)	412898.56	3721458.06	42.24169	(08030
412839.32	3721588.41	49.21214	(08030919)	412760.32	3721546.93	49.47125	(08091
412651.70	3721745.41	64.27721	(08091403)	412713.91	3721778.00	62.73523	(08030
412811.67	3721775.04	55.70003	(08091324)	412824.50	3721806.64	56.66155	(08091
412450.25	3722501.81	187.82092	(08030620)	412561.84	3722804.97	370.67393	(08102
411744.21	3722808.92	50.15738	(08012121)	411738.29	3722781.27	49.93240	(08012
411839.01	3722778.30	56.51262	(08012406)	411658.31	3722071.28	78.80047	(08021
411781.74	3721849.10	46.75685	(08053004)	411839.01	3721823.42	50.30597	(08122
411878.51	3721756.28	50.52076	(08121107)	411861.72	3721715.79	48.07932	(08020
412070.08	3721660.49	51.24940	(08120305)	412172.22	3721496.62	44.12819	(08121
412240.44	3721353.39	37.96328	(08121606)	412254.01	3721277.35	35.42791	(08121
412249.37	3721236.78	34.11300	(08121606)	412248.99	3721170.97	32.11623	(08121

412257.01	3721138.64	31.06914	(08121606)	412256.89	3721096.95	29.90795	(08121
412242.84	3721038.39	28.63338	(08121606)	412339.00	3720826.08	24.96461	(08022
412431.17	3720812.26	23.32402	(08022622)	412610.56	3720759.26	21.88579	(08091
412697.78	3720720.09	20.58640	(08052723)	412828.13	3720724.37	21.20933	(08122
412828.78	3720793.50	22.46468	(08122708)	412867.96	3720924.41	27.80866	(08042
412868.40	3721001.39	30.14781	(08091403)	412951.79	3721095.28	30.61144	(08091
413034.75	3721112.20	32.67510	(08030919)	413117.71	3721129.11	31.79154	(08040
413159.21	3721216.73	32.58625	(08091324)	413117.75	3721287.43	34.59917	(08091
413076.28	3721358.13	36.72744	(08091324)	413034.82	3721428.83	39.02466	(08091
412945.96	3721478.80	41.57701	(08040301)	412868.94	3721523.24	46.15983	(08030
412724.11	3721613.09	54.15135	(08091403)	412687.91	3721679.25	59.11085	(08091
412777.72	3721893.54	62.43080	(08091324)	412730.94	3721980.43	69.51110	(08091
412684.16	3722067.33	78.08275	(08091324)	412637.38	3722154.23	89.21506	(08092
412590.59	3722241.12	103.55626	(08100206)	412543.81	3722328.02	134.22433	(08011
412497.03	3722414.91	138.26910	(08071405)	412478.15	3722577.60	276.56312	(08030

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MOW4 *
INCLUDING SOURCE(S): MOW4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412506.05	3722653.39	270.81867	(08030620)	412533.94	3722729.18	288.92602	(08102
412470.99	3722805.41	392.60229	(08053104)	412380.14	3722805.85	268.05474	(08053
412289.30	3722806.29	193.18952	(08071304)	412198.45	3722806.73	120.57030	(08010
412107.60	3722807.16	90.39060	(08120321)	412016.75	3722807.60	74.24382	(08122
411925.91	3722808.04	63.97753	(08022904)	411835.06	3722808.48	56.27967	(08022
411788.65	3722779.79	52.90996	(08012406)	411816.42	3722689.92	55.89779	(08012
411793.84	3722601.55	54.51743	(08012222)	411771.25	3722513.17	52.89275	(08122
411748.66	3722424.79	51.31895	(08021705)	411726.07	3722336.41	50.75126	(08020
411703.49	3722248.04	56.11714	(08021501)	411680.90	3722159.66	73.47109	(08021
411699.45	3721997.22	77.44978	(08021501)	411740.60	3721923.16	54.92365	(08021
411931.17	3721697.36	48.77412	(08010121)	412000.63	3721678.92	49.86122	(08120
412121.15	3721578.56	47.01338	(08010806)	412206.33	3721425.01	39.99431	(08050
412244.84	3720939.15	26.46828	(08121606)				

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MOW5 *
INCLUDING SOURCE(S): MOW5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412489.85	3722582.17	64.13843	(08053102)	412553.28	3722330.87	99.65221	(08053
412524.37	3722386.27	82.61169	(08053102)	412497.88	3722433.64	77.91559	(08053
412475.40	3722481.01	70.35761	(08053102)	412467.37	3722520.35	66.38214	(08053

412594.22	3722278.69	113.85166	(08120624)	412609.48	3722233.72	153.91419	(08053
412659.26	3722176.72	250.19037	(08053104)	412731.52	3722032.20	220.90247	(08090
412776.48	3721942.28	195.44780	(08102923)	412698.60	3722100.45	231.89026	(08053
413165.07	3721124.95	28.31861	(08121322)	412982.01	3721085.61	34.34502	(08042
412880.85	3720974.81	39.16607	(08091324)	412180.50	3721337.95	80.76049	(08021
412126.66	3721479.63	69.47402	(08021501)	412179.67	3721036.32	65.84129	(08010
412246.84	3720839.91	54.10331	(08120305)	412523.33	3720798.43	49.83971	(08022
412785.01	3720680.92	33.02892	(08042705)	412827.47	3720655.25	30.95571	(08091
412829.44	3720862.62	39.61429	(08030919)	412867.53	3720847.44	36.32343	(08030
412868.83	3721078.36	40.75998	(08011318)	413200.67	3721146.03	27.68080	(08121
412993.36	3721499.53	42.02824	(08071405)	412898.56	3721458.06	48.98315	(08071
412839.32	3721588.41	61.52479	(08071401)	412760.32	3721546.93	73.49448	(08071
412651.70	3721745.41	197.45118	(08102923)	412713.91	3721778.00	141.15766	(08102
412811.67	3721775.04	100.91669	(08030620)	412824.50	3721806.64	99.75023	(08030
412450.25	3722501.81	65.40602	(08071304)	412561.84	3722804.97	44.36673	(08031
411744.21	3722808.92	20.19223	(08091005)	411738.29	3722781.27	20.21460	(08051
411839.01	3722778.30	21.67617	(08120323)	411658.31	3722071.28	21.01788	(08120
411781.74	3721849.10	23.40027	(08012619)	411839.01	3721823.42	24.54686	(08012
411878.51	3721756.28	26.60277	(08012222)	411861.72	3721715.79	26.60276	(08022
412070.08	3721660.49	35.17968	(08121820)	412172.22	3721496.62	75.54543	(08021
412240.44	3721353.39	105.90111	(08021501)	412254.01	3721277.35	111.97748	(08021
412249.37	3721236.78	92.50015	(08021501)	412248.99	3721170.97	85.78592	(08010
412257.01	3721138.64	82.56746	(08010121)	412256.89	3721096.95	76.54007	(08120
412242.84	3721038.39	69.05860	(08021302)	412339.00	3720826.08	55.18003	(08022
412431.17	3720812.26	53.85999	(08121606)	412610.56	3720759.26	42.65118	(08091
412697.78	3720720.09	37.57349	(08011321)	412828.13	3720724.37	34.25792	(08091
412828.78	3720793.50	37.16416	(08030919)	412867.96	3720924.41	38.86955	(08091
412868.40	3721001.39	40.22517	(08091324)	412951.79	3721095.28	35.94641	(08042
413034.75	3721112.20	32.03109	(08050722)	413117.71	3721129.11	29.51698	(08121
413159.21	3721216.73	30.06867	(08071405)	413117.75	3721287.43	35.03565	(08071
413076.28	3721358.13	37.89041	(08071405)	413034.82	3721428.83	40.12636	(08071
412945.96	3721478.80	45.50594	(08071405)	412868.94	3721523.24	55.08957	(08071
412724.11	3721613.09	102.25179	(08030620)	412687.91	3721679.25	150.01173	(08030
412777.72	3721893.54	181.62413	(08030620)	412730.94	3721980.43	244.37983	(08090
412684.16	3722067.33	264.71383	(08053104)	412637.38	3722154.23	279.57844	(08053
412590.59	3722241.12	132.45048	(08053102)	412543.81	3722328.02	99.37113	(08053
412497.03	3722414.91	79.50985	(08053102)	412478.15	3722577.60	63.27157	(08053

□ *** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MOW5 *
INCLUDING SOURCE(S): MOW5 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412506.05	3722653.39	59.83106	(08053102)	412533.94	3722729.18	52.92067	(08053
412470.99	3722805.41	46.32093	(08053102)	412380.14	3722805.85	41.77822	(08071
412289.30	3722806.29	35.01797	(08071304)	412198.45	3722806.73	28.82181	(08012
412107.60	3722807.16	26.58323	(08021622)	412016.75	3722807.60	24.73755	(08120
411925.91	3722808.04	22.96440	(08091606)	411835.06	3722808.48	21.45872	(08012
411788.65	3722779.79	20.88042	(08120323)	411816.42	3722689.92	21.68711	(08091
411793.84	3722601.55	21.69248	(08022402)	411771.25	3722513.17	21.54365	(08121
411748.66	3722424.79	21.51702	(08041020)	411726.07	3722336.41	21.33176	(08010
411703.49	3722248.04	21.18279	(08100901)	411680.90	3722159.66	20.99110	(08021

411699.45	3721997.22	21.80209	(08120321)	411740.60	3721923.16	22.51425	(08122
411931.17	3721697.36	28.73698	(08121807)	412000.63	3721678.92	31.57487	(08012
412121.15	3721578.56	50.04702	(08021501)	412206.33	3721425.01	81.13703	(08021
412244.84	3720939.15	61.16569	(08011208)				

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*** THE SUMMARY OF MAXIMUM PERIOD (8784 HRS) RESULTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
NBOPS	1ST HIGHEST VALUE IS	57.74285 AT	(412244.84,	3720939.15,	1.52,	16.76,	1.80)	DC
	2ND HIGHEST VALUE IS	53.39809 AT	(412242.84,	3721038.39,	0.00,	17.07,	1.80)	DC
	3RD HIGHEST VALUE IS	38.35958 AT	(412256.89,	3721096.95,	0.00,	17.07,	1.80)	DC
	4TH HIGHEST VALUE IS	25.32489 AT	(412257.01,	3721138.64,	0.00,	17.37,	1.80)	DC
	5TH HIGHEST VALUE IS	25.30694 AT	(412179.67,	3721036.32,	1.83,	1.83,	1.80)	DC
	6TH HIGHEST VALUE IS	23.31722 AT	(412246.84,	3720839.91,	1.52,	1.52,	1.80)	DC
	7TH HIGHEST VALUE IS	18.32466 AT	(412248.99,	3721170.97,	0.00,	17.37,	1.80)	DC
	8TH HIGHEST VALUE IS	15.32807 AT	(412339.00,	3720826.08,	2.13,	17.68,	1.80)	DC
	9TH HIGHEST VALUE IS	12.07047 AT	(412249.37,	3721236.78,	0.00,	20.12,	1.80)	DC
	10TH HIGHEST VALUE IS	10.02879 AT	(412254.01,	3721277.35,	0.00,	23.77,	1.80)	DC
WNOCEAST	1ST HIGHEST VALUE IS	16.04272 AT	(412637.38,	3722154.23,	29.92,	29.92,	1.80)	DC
	2ND HIGHEST VALUE IS	15.80988 AT	(412590.59,	3722241.12,	29.57,	29.57,	1.80)	DC
	3RD HIGHEST VALUE IS	15.62814 AT	(412684.16,	3722067.33,	30.82,	30.82,	1.80)	DC
	4TH HIGHEST VALUE IS	14.87720 AT	(412609.48,	3722233.72,	29.58,	29.58,	1.80)	DC
	5TH HIGHEST VALUE IS	14.35536 AT	(412730.94,	3721980.43,	31.39,	31.39,	1.80)	DC
	6TH HIGHEST VALUE IS	13.96959 AT	(412594.22,	3722278.69,	28.58,	28.58,	1.80)	DC
	7TH HIGHEST VALUE IS	13.83375 AT	(412543.81,	3722328.02,	25.82,	25.82,	1.80)	DC
	8TH HIGHEST VALUE IS	13.72967 AT	(412659.26,	3722176.72,	30.18,	30.18,	1.80)	DC
	9TH HIGHEST VALUE IS	13.62878 AT	(412497.03,	3722414.91,	29.09,	29.09,	1.80)	DC
	10TH HIGHEST VALUE IS	13.51834 AT	(412698.60,	3722100.45,	30.78,	30.78,	1.80)	DC
WNOC_NW	1ST HIGHEST VALUE IS	16.95646 AT	(412107.60,	3722807.16,	2.13,	2.13,	1.80)	DC
	2ND HIGHEST VALUE IS	16.62377 AT	(412198.45,	3722806.73,	2.44,	2.44,	1.80)	DC
	3RD HIGHEST VALUE IS	15.80478 AT	(412016.75,	3722807.60,	2.13,	2.13,	1.80)	DC
	4TH HIGHEST VALUE IS	14.46483 AT	(412289.30,	3722806.29,	2.74,	2.74,	1.80)	DC
	5TH HIGHEST VALUE IS	12.72358 AT	(411925.91,	3722808.04,	2.03,	2.03,	1.80)	DC
	6TH HIGHEST VALUE IS	12.54774 AT	(412380.14,	3722805.85,	3.05,	29.87,	1.80)	DC
	7TH HIGHEST VALUE IS	8.43315 AT	(411793.84,	3722601.55,	1.83,	1.83,	1.80)	DC
	8TH HIGHEST VALUE IS	8.39321 AT	(411816.42,	3722689.92,	1.83,	1.83,	1.80)	DC
	9TH HIGHEST VALUE IS	8.25394 AT	(411771.25,	3722513.17,	1.83,	1.83,	1.80)	DC
	10TH HIGHEST VALUE IS	8.04537 AT	(412470.99,	3722805.41,	6.27,	29.87,	1.80)	DC

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*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE SUMMARY OF MAXIMUM PERIOD (8784 HRS) RESULTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
WNOC_FNW 1ST HIGHEST VALUE IS	19.37199	AT (412107.60, 3722807.16, 2.13, 2.13, 1.80)	DC	
2ND HIGHEST VALUE IS	18.62857	AT (412198.45, 3722806.73, 2.44, 2.44, 1.80)	DC	
3RD HIGHEST VALUE IS	18.30705	AT (412016.75, 3722807.60, 2.13, 2.13, 1.80)	DC	
4TH HIGHEST VALUE IS	15.70634	AT (412289.30, 3722806.29, 2.74, 2.74, 1.80)	DC	
5TH HIGHEST VALUE IS	15.01359	AT (411925.91, 3722808.04, 2.03, 2.03, 1.80)	DC	
6TH HIGHEST VALUE IS	13.89387	AT (412380.14, 3722805.85, 3.05, 29.87, 1.80)	DC	
7TH HIGHEST VALUE IS	9.58499	AT (411816.42, 3722689.92, 1.83, 1.83, 1.80)	DC	
8TH HIGHEST VALUE IS	9.53269	AT (411793.84, 3722601.55, 1.83, 1.83, 1.80)	DC	
9TH HIGHEST VALUE IS	9.27096	AT (411771.25, 3722513.17, 1.83, 1.83, 1.80)	DC	
10TH HIGHEST VALUE IS	8.89505	AT (411748.66, 3722424.79, 1.52, 1.52, 1.80)	DC	
WNOCFEST 1ST HIGHEST VALUE IS	19.26571	AT (412637.38, 3722154.23, 29.92, 29.92, 1.80)	DC	
2ND HIGHEST VALUE IS	18.89372	AT (412590.59, 3722241.12, 29.57, 29.57, 1.80)	DC	
3RD HIGHEST VALUE IS	18.60089	AT (412684.16, 3722067.33, 30.82, 30.82, 1.80)	DC	
4TH HIGHEST VALUE IS	17.06502	AT (412730.94, 3721980.43, 31.39, 31.39, 1.80)	DC	
5TH HIGHEST VALUE IS	16.83225	AT (412609.48, 3722233.72, 29.58, 29.58, 1.80)	DC	
6TH HIGHEST VALUE IS	16.80204	AT (412543.81, 3722328.02, 25.82, 25.82, 1.80)	DC	
7TH HIGHEST VALUE IS	15.89808	AT (412651.70, 3721745.41, 30.67, 30.67, 1.80)	DC	
8TH HIGHEST VALUE IS	15.73370	AT (412497.03, 3722414.91, 29.09, 29.09, 1.80)	DC	
9TH HIGHEST VALUE IS	15.61738	AT (412594.22, 3722278.69, 28.58, 28.58, 1.80)	DC	
10TH HIGHEST VALUE IS	15.24470	AT (412553.28, 3722330.87, 24.66, 28.96, 1.80)	DC	
MOW1 1ST HIGHEST VALUE IS	11.97949	AT (412256.89, 3721096.95, 0.00, 17.07, 1.80)	DC	
2ND HIGHEST VALUE IS	11.44011	AT (412431.17, 3720812.26, 4.90, 18.90, 1.80)	DC	
3RD HIGHEST VALUE IS	10.82809	AT (412242.84, 3721038.39, 0.00, 17.07, 1.80)	DC	
4TH HIGHEST VALUE IS	10.79810	AT (412257.01, 3721138.64, 0.00, 17.37, 1.80)	DC	
5TH HIGHEST VALUE IS	9.38680	AT (412248.99, 3721170.97, 0.00, 17.37, 1.80)	DC	
6TH HIGHEST VALUE IS	8.78952	AT (412339.00, 3720826.08, 2.13, 17.68, 1.80)	DC	
7TH HIGHEST VALUE IS	7.81843	AT (412244.84, 3720939.15, 1.52, 16.76, 1.80)	DC	
8TH HIGHEST VALUE IS	7.40951	AT (412249.37, 3721236.78, 0.00, 20.12, 1.80)	DC	
9TH HIGHEST VALUE IS	7.28008	AT (412179.67, 3721036.32, 1.83, 1.83, 1.80)	DC	
10TH HIGHEST VALUE IS	6.41802	AT (412254.01, 3721277.35, 0.00, 23.77, 1.80)	DC	

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**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE SUMMARY OF MAXIMUM PERIOD (8784 HRS) RESULTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
MOW2 1ST HIGHEST VALUE IS	17.05137	AT (413034.82, 3721428.83, 30.78, 30.78, 1.80)	DC	
2ND HIGHEST VALUE IS	15.79700	AT (412945.96, 3721478.80, 26.30, 30.78, 1.80)	DC	
3RD HIGHEST VALUE IS	15.75863	AT (413076.28, 3721358.13, 31.70, 31.70, 1.80)	DC	
4TH HIGHEST VALUE IS	15.69432	AT (412898.56, 3721458.06, 26.11, 30.78, 1.80)	DC	
5TH HIGHEST VALUE IS	15.58884	AT (412993.36, 3721499.53, 24.58, 32.00, 1.80)	DC	
6TH HIGHEST VALUE IS	12.96183	AT (413117.75, 3721287.43, 31.68, 31.68, 1.80)	DC	
7TH HIGHEST VALUE IS	10.02081	AT (412868.83, 3721078.36, 28.67, 28.67, 1.80)	DC	
8TH HIGHEST VALUE IS	8.63581	AT (412868.94, 3721523.24, 30.57, 30.57, 1.80)	DC	
9TH HIGHEST VALUE IS	8.33076	AT (413159.21, 3721216.73, 31.09, 31.09, 1.80)	DC	

	10TH HIGHEST VALUE IS	7.36596 AT	(412868.40,	3721001.39,	28.04,	28.04,	1.80)	DC
MOW3	1ST HIGHEST VALUE IS	110.54173 AT	(412760.32,	3721546.93,	30.48,	30.48,	1.80)	DC
	2ND HIGHEST VALUE IS	103.54659 AT	(412724.11,	3721613.09,	30.78,	30.78,	1.80)	DC
	3RD HIGHEST VALUE IS	80.18932 AT	(412839.32,	3721588.41,	30.78,	30.78,	1.80)	DC
	4TH HIGHEST VALUE IS	79.83729 AT	(412868.94,	3721523.24,	30.57,	30.57,	1.80)	DC
	5TH HIGHEST VALUE IS	78.71409 AT	(412687.91,	3721679.25,	30.70,	30.70,	1.80)	DC
	6TH HIGHEST VALUE IS	29.72425 AT	(412811.67,	3721775.04,	32.00,	32.00,	1.80)	DC
	7TH HIGHEST VALUE IS	29.49094 AT	(412713.91,	3721778.00,	31.36,	31.36,	1.80)	DC
	8TH HIGHEST VALUE IS	26.51660 AT	(412651.70,	3721745.41,	30.67,	30.67,	1.80)	DC
	9TH HIGHEST VALUE IS	25.05128 AT	(412824.50,	3721806.64,	32.10,	32.10,	1.80)	DC
	10TH HIGHEST VALUE IS	17.25311 AT	(412898.56,	3721458.06,	26.11,	30.78,	1.80)	DC
MOW4	1ST HIGHEST VALUE IS	53.93648 AT	(412470.99,	3722805.41,	6.27,	29.87,	1.80)	DC
	2ND HIGHEST VALUE IS	45.76311 AT	(412561.84,	3722804.97,	21.17,	27.74,	1.80)	DC
	3RD HIGHEST VALUE IS	44.76783 AT	(412478.15,	3722577.60,	21.91,	26.52,	1.80)	DC
	4TH HIGHEST VALUE IS	40.68858 AT	(412506.05,	3722653.39,	24.43,	29.87,	1.80)	DC
	5TH HIGHEST VALUE IS	39.74584 AT	(412533.94,	3722729.18,	26.16,	29.57,	1.80)	DC
	6TH HIGHEST VALUE IS	39.64202 AT	(412380.14,	3722805.85,	3.05,	29.87,	1.80)	DC
	7TH HIGHEST VALUE IS	38.97812 AT	(412489.85,	3722582.17,	22.58,	25.60,	1.80)	DC
	8TH HIGHEST VALUE IS	33.28508 AT	(412450.25,	3722501.81,	27.93,	27.93,	1.80)	DC
	9TH HIGHEST VALUE IS	33.13306 AT	(412467.37,	3722520.35,	26.39,	27.74,	1.80)	DC
	10TH HIGHEST VALUE IS	24.97803 AT	(412475.40,	3722481.01,	28.80,	28.80,	1.80)	DC

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE SUMMARY OF MAXIMUM PERIOD (8784 HRS) RESULTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC		RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)				OF TYPE	NETWORK GRID-ID
MOW5	1ST HIGHEST VALUE IS	34.34732 AT	(412684.16,	3722067.33,	30.82,	30.82,	1.80)	DC	
	2ND HIGHEST VALUE IS	34.33615 AT	(412730.94,	3721980.43,	31.39,	31.39,	1.80)	DC	
	3RD HIGHEST VALUE IS	30.16707 AT	(412651.70,	3721745.41,	30.67,	30.67,	1.80)	DC	
	4TH HIGHEST VALUE IS	29.50871 AT	(412731.52,	3722032.20,	31.13,	31.13,	1.80)	DC	
	5TH HIGHEST VALUE IS	27.58313 AT	(412698.60,	3722100.45,	30.78,	30.78,	1.80)	DC	
	6TH HIGHEST VALUE IS	25.87035 AT	(412637.38,	3722154.23,	29.92,	29.92,	1.80)	DC	
	7TH HIGHEST VALUE IS	25.39936 AT	(412776.48,	3721942.28,	31.70,	31.70,	1.80)	DC	
	8TH HIGHEST VALUE IS	24.97761 AT	(412777.72,	3721893.54,	31.93,	31.93,	1.80)	DC	
	9TH HIGHEST VALUE IS	20.95343 AT	(412659.26,	3722176.72,	30.18,	30.18,	1.80)	DC	
	10TH HIGHEST VALUE IS	18.81886 AT	(412713.91,	3721778.00,	31.36,	31.36,	1.80)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

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**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF
NBOPS HIGH 1ST HIGH VALUE IS	847.53148	ON 08021501:	AT (412246.84, 3720839.91, 1.52, 1.52,	1.80
WNOCEAST HIGH 1ST HIGH VALUE IS	97.99791	ON 08053104:	AT (412637.38, 3722154.23, 29.92, 29.92,	1.80
WNOC_NW HIGH 1ST HIGH VALUE IS	113.02003	ON 08053104:	AT (412198.45, 3722806.73, 2.44, 2.44,	1.80
WNOC_FNW HIGH 1ST HIGH VALUE IS	121.24199	ON 08053104:	AT (412198.45, 3722806.73, 2.44, 2.44,	1.80
WNOCFEST HIGH 1ST HIGH VALUE IS	110.54345	ON 08053104:	AT (412637.38, 3722154.23, 29.92, 29.92,	1.80
MOW1 HIGH 1ST HIGH VALUE IS	481.29409	ON 08021501:	AT (412339.00, 3720826.08, 2.13, 17.68,	1.80
MOW2 HIGH 1ST HIGH VALUE IS	139.97695	ON 08053104:	AT (412945.96, 3721478.80, 26.30, 30.78,	1.80
MOW3 HIGH 1ST HIGH VALUE IS	571.36712	ON 08053104:	AT (412687.91, 3721679.25, 30.70, 30.70,	1.80
MOW4 HIGH 1ST HIGH VALUE IS	392.60229	ON 08053104:	AT (412470.99, 3722805.41, 6.27, 29.87,	1.80
MOW5 HIGH 1ST HIGH VALUE IS	279.57844	ON 08053104:	AT (412637.38, 3722154.23, 29.92, 29.92,	1.80

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Baseline Oilfield Ops and Existing Fenceline Receptors 11/13/09 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 2985 Informational Message(s)

A Total of 8784 Hours Were Processed

A Total of 2920 Calm Hours Identified

A Total of 65 Missing Hours Identified (0.74 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
OU W565 277 OUPLOT:Possible Conflict With Dynamically Allocated FUNIT PLOTFILE
OU W565 278 PERPLT:Possible Conflict With Dynamically Allocated FUNIT PLOTFILE

```
**********************************
*** AERMOD Finishes Successfully ***
**********************************
```

```
**************************************
** AERMOD Input Produced by:
** AERMOD View Ver. 6.2.1
** Lakes Environmental Software Inc.
** Date: 1/13/2010
** File: C:\Documents and Settings\TRAVISKR\Desktop\Newport Banning Ranch\NBR HRA 1_11_2010\AERMOD\NBRFOIL2.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Newport Banning Ranch
   TITLETWO Future Oilfield Impacts on Recreational Receptors 1/08/10
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 3010759 OrangeCounty
   POLLUTID ALL
   FLAGPOLE 1.80
   RUNORNOT RUN
   SAVEFILE NBRFOIL2.sv1 5 NBRFOIL2.sv2
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION WNOC AREAPOLY 412031.856 3721734.791 1.580
** DESCRSRC West Newport Oil Company - Consolidated Site
   LOCATION NBOPS AREAPOLY 412261.824 3721043.447 0.110
** DESCRSRC NB Oil Wells Operations - Baseline & Future Site
   LOCATION TRUCKS2 AREAPOLY 412033.019 3721733.378 1.620
** DESCRSRC Trucks - Future travel between NB & WNOC - Engine Exhaust
   LOCATION TRUCKS_F AREAPOLY 412033.019 3721733.378 1.620
** DESCRSRC Trucks - Future travel between NB & WNOC - Fug Dust
** Source Parameters **
   SRCPARAM WNOC 2.09E-5 5.000 36 1.200
   AREAVERT WNOC 412031.856 3721734.791 412011.409 3721747.004
   AREAVERT WNOC 411998.860 3721748.467 411996.071 3721759.084
   AREAVERT WNOC 411984.203 3721763.584 411961.240 3721800.397
   AREAVERT WNOC 412018.448 3722001.082 412098.646 3721978.992
   AREAVERT WNOC 412085.670 3721929.279 412119.489 3721915.035
   AREAVERT WNOC 412152.780 3721908.966 412179.126 3721907.671
   AREAVERT WNOC 412194.470 3721912.245 412211.489 3721925.087
   AREAVERT WNOC 412223.917 3721948.430 412229.097 3721975.481
   AREAVERT WNOC 412229.069 3722004.838 412305.873 3721983.349
   AREAVERT WNOC 412304.943 3721976.319 412326.932 3721969.854
   AREAVERT WNOC 412326.578 3721976.100 412333.991 3721973.981
   AREAVERT WNOC 412321.840 3721935.806 412306.717 3721916.706
   AREAVERT WNOC 412285.595 3721902.801 412262.290 3721893.355
   AREAVERT WNOC 412191.063 3721824.404 412176.968 3721799.008
   AREAVERT WNOC 412156.235 3721795.133 412127.878 3721794.688
   AREAVERT WNOC 412105.848 3721791.301 412096.312 3721785.734
   AREAVERT WNOC 412088.993 3721792.365 412074.743 3721790.480
   AREAVERT WNOC 412053.621 3721776.207 412039.601 3721747.799
   SRCPARAM NBOPS 6.53E-5 5.000 20 1.200
   AREAVERT NBOPS 412261.824 3721043.447 412279.246 3721046.686
   AREAVERT NBOPS 412297.173 3721053.857 412320.479 3721058.339
   AREAVERT NBOPS 412324.960 3721043.997 412316.893 3721026.966
   AREAVERT NBOPS 412324.960 3720984.838 412337.510 3720977.667
   AREAVERT NBOPS 412336.613 3720966.014 412341.095 3720962.428
   AREAVERT NBOPS 412341.991 3720947.190 412347.370 3720938.227
```

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   AREAVERT NBOPS 412342.888 3720932.849 412351.851 3720910.440
   AREAVERT NBOPS 412351.851 3720905.958 412346.473 3720898.787
   AREAVERT NBOPS 412355.437 3720854.865 412364.400 3720861.140
   AREAVERT NBOPS 412364.438 3720839.244 412266.726 3720852.354
   SRCPARAM TRUCKS2 0.0001341 5.000 12 1.200
   AREAVERT TRUCKS2 412033.019 3721733.378 412152.754 3721556.042
   AREAVERT TRUCKS2 412225.194 3721396.815 412256.638 3721324.891
   AREAVERT TRUCKS2 412254.725 3721183.803 412288.737 3721053.541
   AREAVERT TRUCKS2 412298.269 3721056.462 412264.532 3721186.201
   AREAVERT TRUCKS2 412267.088 3721326.528 412231.868 3721404.963
   AREAVERT TRUCKS2 412162.392 3721560.376 412038.895 3721741.671
   SRCPARAM TRUCKS_F 0.0001341 0.000 12 1.200
   AREAVERT TRUCKS_F 412033.019 3721733.378 412152.754 3721556.042
   AREAVERT TRUCKS_F 412225.194 3721396.815 412256.638 3721324.891
   AREAVERT TRUCKS_F 412254.725 3721183.803 412288.737 3721053.541
   AREAVERT TRUCKS_F 412298.269 3721056.462 412264.532 3721186.201
   AREAVERT TRUCKS_F 412267.088 3721326.528 412231.868 3721404.963
   AREAVERT TRUCKS_F 412162.392 3721560.376 412038.895 3721741.671
   URBANSRC WNOC
   URBANSRC NBOPS
   URBANSRC TRUCKS2
   URBANSRC TRUCKS_F

** Variable Emissions Type: "By Hour-of-Day"
** Variable Emission Scenario: "OPS"
   EMISFACT WNOC HROFDY 1 1 1 1 1 1
   EMISFACT WNOC HROFDY 1 1 1 1 1 1
   EMISFACT WNOC HROFDY 1 1 1 1 1 1
   EMISFACT WNOC HROFDY 1 1 1 1 1 1
   EMISFACT NBOPS HROFDY 1 1 1 1 1 1
   EMISFACT NBOPS HROFDY 1 1 1 1 1 1
   EMISFACT NBOPS HROFDY 1 1 1 1 1 1
   EMISFACT NBOPS HROFDY 1 1 1 1 1 1
   EMISFACT TRUCKS2 HROFDY 1 1 1 1 1 1
   EMISFACT TRUCKS2 HROFDY 1 1 1 1 1 1
   EMISFACT TRUCKS2 HROFDY 1 1 1 1 1 1
   EMISFACT TRUCKS2 HROFDY 1 1 1 1 1 1
   EMISFACT TRUCKS_F HROFDY 1 1 1 1 1 1
   EMISFACT TRUCKS_F HROFDY 1 1 1 1 1 1
   EMISFACT TRUCKS_F HROFDY 1 1 1 1 1 1
   EMISFACT TRUCKS_F HROFDY 1 1 1 1 1 1
   SRCGROUP WNOC WNOC
   SRCGROUP NBOPS NBOPS
   SRCGROUP TRUCKS2 TRUCKS2
   SRCGROUP TRUCKS_F TRUCKS_F
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED NBRFOIL2.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE SNANKX08.SFC
   PROFFILE SNANKX08.PFL
   SURFDATA 72297 2008
   UAIRDATA 3190 2008
   PROFBASE 0 METERS
ME FINISHED
**
**************************************
```

```
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 WNOC 1ST NBRFOIL2.AD\01H1G001.PLT
   PLOTFILE PERIOD WNOC NBRFOIL2.AD\PE00G001.PLT
   PLOTFILE 1 NBOPS 1ST NBRFOIL2.AD\01H1G002.PLT
   PLOTFILE PERIOD NBOPS NBRFOIL2.AD\PE00G002.PLT
   PLOTFILE 1 TRUCKS2 1ST NBRFOIL2.AD\01H1G003.PLT
   PLOTFILE PERIOD TRUCKS2 NBRFOIL2.AD\PE00G003.PLT
   PLOTFILE 1 TRUCKS_F 1ST NBRFOIL2.AD\01H1G004.PLT
   PLOTFILE PERIOD TRUCKS_F NBRFOIL2.AD\PE00G004.PLT
OU FINISHED

 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************


 *** AERMOD - VERSION 09292 ***    *** Newport Banning Ranch                                                  ***
                                  *** Future Oilfield Impacts on Recreational Receptors 1/08/10              ***

 **MODELOPTs:  RegDFAULT CONC                                          ELEV
     FLGPOL

                                        ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for     4 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   3010759.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
         1. Stack-tip Downwash.
         2. Model Accounts for ELEVated Terrain Effects.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay for URBAN/Non-SO2.
         6. Urban Roughness Length of 1.0 Meter Assumed.

 **Model Accepts FLAGPOLE Receptor Heights.

 **Model Calculates  1 Short Term Average(s) of:   1-HR
     and Calculates PERIOD Averages

 **This Run Includes:      4 Source(s);       4 Source Group(s); and      52 Receptor(s)

 **The Model Assumes A Pollutant Type of:  ALL

 **Model Set To Continue RUNning After the Setup Testing.

 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
```

b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 0.00 ; Decay Coef. = 0.000 ; Rot. Angle =
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

**File for Saving Result Arrays: NBRFOIL2.sv1

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield Impacts on Recreational Receptors 1/08/10 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** AREAPOLY SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
WNOC	0	0.20900E-04	412031.9	3721734.8	1.6	5.00	36	1.20	YES	HROFDY
NBOPS	0	0.65300E-04	412261.8	3721043.4	0.1	5.00	20	1.20	YES	HROFDY
TRUCKS2	0	0.13410E-03	412033.0	3721733.4	1.6	5.00	12	1.20	YES	HROFDY
TRUCKS_F	0	0.13410E-03	412033.0	3721733.4	1.6	0.00	12	1.20	YES	HROFDY

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield Impacts on Recreational Receptors 1/08/10 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
WNOC	WNOC ,
NBOPS	NBOPS ,
TRUCKS2	TRUCKS2 ,
TRUCKS_F	TRUCKS_F,

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield Impacts on Recreational Receptors 1/08/10 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALA

SOURCE ID = WNOC ; SOURCE TYPE = AREAPOLY :

1	.10000E+01	2	.10000E+01	3	.10000E+01	4	.10000E+01	5	.10000E+01	6	.10000E
7	.10000E+01	8	.10000E+01	9	.10000E+01	10	.10000E+01	11	.10000E+01	12	.10000E
13	.10000E+01	14	.10000E+01	15	.10000E+01	16	.10000E+01	17	.10000E+01	18	.10000E
19	.10000E+01	20	.10000E+01	21	.10000E+01	22	.10000E+01	23	.10000E+01	24	.10000E

```
SOURCE ID = NBOPS    ;  SOURCE TYPE = AREAPOLY :
      1   .10000E+01      2   .10000E+01      3   .10000E+01      4   .10000E+01      5   .10000E+01      6   .10000E
      7   .10000E+01      8   .10000E+01      9   .10000E+01     10   .10000E+01     11   .10000E+01     12   .10000E
     13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .10000E+01     17   .10000E+01     18   .10000E
     19   .10000E+01     20   .10000E+01     21   .10000E+01     22   .10000E+01     23   .10000E+01     24   .10000E

SOURCE ID = TRUCKS2  ;  SOURCE TYPE = AREAPOLY :
      1   .10000E+01      2   .10000E+01      3   .10000E+01      4   .10000E+01      5   .10000E+01      6   .10000E
      7   .10000E+01      8   .10000E+01      9   .10000E+01     10   .10000E+01     11   .10000E+01     12   .10000E
     13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .10000E+01     17   .10000E+01     18   .10000E
     19   .10000E+01     20   .10000E+01     21   .10000E+01     22   .10000E+01     23   .10000E+01     24   .10000E

SOURCE ID = TRUCKS_F ;  SOURCE TYPE = AREAPOLY :
      1   .10000E+01      2   .10000E+01      3   .10000E+01      4   .10000E+01      5   .10000E+01      6   .10000E
      7   .10000E+01      8   .10000E+01      9   .10000E+01     10   .10000E+01     11   .10000E+01     12   .10000E
     13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .10000E+01     17   .10000E+01     18   .10000E
     19   .10000E+01     20   .10000E+01     21   .10000E+01     22   .10000E+01     23   .10000E+01     24   .10000E

*** AERMOD - VERSION 09292 ***    *** Newport Banning Ranch                                                  ***
                                  *** Future Oilfield Impacts on Recreational Receptors 1/08/10              ***

**MODELOPTs:  RegDFAULT CONC                                              ELEV
    FLGPOL

                                     *** DISCRETE CARTESIAN RECEPTORS ***
                                   (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

    ( 412600.0, 3720900.0,      19.2,      19.2,      19.2);         ( 412500.0, 3721000.0,      18.9,      18.9,
    ( 412600.0, 3721000.0,      19.2,      19.2,      19.2);         ( 412600.0, 3721100.0,      19.5,      19.5,
    ( 412800.0, 3721200.0,      19.5,      29.6,      29.6);         ( 412900.0, 3721200.0,      26.8,      26.8,
    ( 413100.0, 3721200.0,      30.8,      30.8,      30.8);         ( 412800.0, 3721300.0,      28.7,      28.7,
    ( 412900.0, 3721300.0,      28.7,      28.7,      28.7);         ( 412400.0, 3721400.0,      21.0,      21.0,
    ( 412500.0, 3721400.0,      17.1,      21.6,      21.6);         ( 412600.0, 3721400.0,      24.4,      24.4,
    ( 412300.0, 3721500.0,      21.6,      21.6,      21.6);         ( 412400.0, 3721500.0,      25.6,      25.6,
    ( 412500.0, 3721500.0,      21.3,      29.9,      29.9);         ( 412600.0, 3721500.0,      25.9,      25.9,
    ( 412700.0, 3721500.0,      29.6,      29.6,      29.6);         ( 412900.0, 3721500.0,      30.8,      30.8,
    ( 413000.0, 3721500.0,      25.6,      31.7,      31.7);         ( 412300.0, 3721600.0,      25.0,      25.0,
    ( 412400.0, 3721600.0,      28.0,      28.0,      28.0);         ( 412500.0, 3721600.0,      29.6,      29.6,
    ( 412600.0, 3721600.0,      24.4,      29.0,      29.0);         ( 412300.0, 3721700.0,      19.8,      26.2,
    ( 412400.0, 3721700.0,      25.9,      25.9,      25.9);         ( 412500.0, 3721700.0,      29.6,      29.6,
    ( 412600.0, 3721700.0,      29.0,      29.0,      29.0);         ( 412300.0, 3721800.0,      24.7,      24.7,
    ( 412400.0, 3721800.0,      29.0,      29.0,      29.0);         ( 412500.0, 3721800.0,      29.6,      29.6,
    ( 412600.0, 3721800.0,      30.5,      30.5,      30.5);         ( 412500.0, 3721900.0,      29.3,      29.3,
    ( 412600.0, 3721900.0,      30.5,      30.5,      30.5);         ( 412600.0, 3722000.0,      30.5,      30.5,
    ( 412500.0, 3722100.0,      27.7,      29.6,      29.6);         ( 412600.0, 3722100.0,      28.7,      28.7,
    ( 412700.0, 3721900.0,      31.4,      31.4,      31.4);         ( 412700.0, 3721800.0,      31.4,      31.4,
    ( 412700.0, 3721100.0,      22.6,      22.6,      22.6);         ( 412800.0, 3721100.0,      26.5,      26.5,
    ( 412700.0, 3721000.0,      22.6,      22.6,      22.6);         ( 412367.8, 3721952.8,      15.1,      29.6,
    ( 412305.8, 3721305.6,      10.4,      18.9,       1.8);         ( 412431.2, 3720873.8,      16.0,      16.0,
    ( 412396.1, 3720987.5,      16.7,      16.7,       1.8);         ( 412427.1, 3721078.5,      10.0,      18.9,
    ( 412234.8, 3721533.4,      19.9,      19.9,       1.8);         ( 412185.2, 3721721.6,      23.6,      23.6,
    ( 412236.9, 3721800.2,      12.6,      29.0,       1.8);         ( 412530.5, 3722031.8,      28.9,      28.9,
    ( 412296.8, 3721413.5,      18.0,      18.0,       1.8);         ( 412210.0, 3721638.9,      25.0,      25.0,

*** AERMOD - VERSION 09292 ***    *** Newport Banning Ranch                                                  ***
                                  *** Future Oilfield Impacts on Recreational Receptors 1/08/10              ***

**MODELOPTs:  RegDFAULT CONC                                              ELEV
    FLGPOL

                                  *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                              (1=YES; 0=NO)

          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
```

```
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch *** *** Future Oilfield Impacts on Recreational Receptors 1/08/10 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: SNANKX08.SFC Met Version: 06
Profile file: SNANKX08.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 72297 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2008 Year: 2008

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	
08	01	01	1	01	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	285.9	2
08	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	283.1	2
08	01	01	1	03	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	280.9	2
08	01	01	1	04	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	280.9	2
08	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	282.0	2
08	01	01	1	06	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	280.9	2
08	01	01	1	07	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	280.9	2
08	01	01	1	08	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	0.53	0.00	0.	10.0	283.1	2
08	01	01	1	09	17.7	-9.000	-9.000	-9.000	46.	-999.	-99999.0	0.16	1.15	0.31	0.00	0.	10.0	288.1	2
08	01	01	1	10	44.0	-9.000	-9.000	-9.000	96.	-999.	-99999.0	0.16	1.15	0.24	0.00	0.	10.0	292.0	2
08	01	01	1	11	62.8	-9.000	-9.000	-9.000	169.	-999.	-99999.0	0.16	1.15	0.21	0.00	0.	10.0	295.4	2
08	01	01	1	12	71.1	-9.000	-9.000	-9.000	277.	-999.	-99999.0	0.16	1.15	0.20	0.00	0.	10.0	295.4	2
08	01	01	1	13	70.7	-9.000	-9.000	-9.000	397.	-999.	-99999.0	0.16	1.15	0.20	0.00	0.	10.0	295.9	2
08	01	01	1	14	60.8	0.179	0.944	0.010	500.	174.	-8.5	0.11	1.15	0.21	1.50	189.	10.0	295.9	2
08	01	01	1	15	41.4	0.173	0.866	0.011	567.	165.	-11.2	0.11	1.15	0.24	1.50	202.	10.0	294.2	2
08	01	01	1	16	15.9	-9.000	-9.000	-9.000	593.	-999.	-99999.0	0.16	1.15	0.33	0.00	0.	10.0	294.2	2
08	01	01	1	17	-13.8	0.258	-9.000	-9.000	-999.	301.	112.4	0.13	1.15	0.60	3.10	51.	10.0	293.1	2
08	01	01	1	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	290.9	2
08	01	01	1	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	290.4	2
08	01	01	1	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	287.0	2
08	01	01	1	21	-3.4	0.069	-9.000	-9.000	-999.	41.	8.6	0.13	1.15	1.00	1.50	30.	10.0	287.0	2
08	01	01	1	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	285.9	2
08	01	01	1	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	284.2	2
08	01	01	1	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	283.1	2

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
08	01	01	01	10.0	1	-999.	-99.00	286.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch *** *** Future Oilfield Impacts on Recreational Receptors 1/08/10 ***

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**MODELOPTs:  RegDFAULT CONC                                        ELEV
    FLGPOL

                          *** THE PERIOD (  8784 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: WNOC     **
                              INCLUDING SOURCE(S):      WNOC    ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                    ** CONC OF ALL      IN MICROGRAMS/M**3                          **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412600.00	3720900.00	0.07449	412500.00	3721000.00	0.08063
412600.00	3721000.00	0.08659	412600.00	3721100.00	0.09559
412800.00	3721200.00	0.04332	412900.00	3721200.00	0.04291
413100.00	3721200.00	0.03074	412800.00	3721300.00	0.04245
412900.00	3721300.00	0.04078	412400.00	3721400.00	0.11634
412500.00	3721400.00	0.11515	412600.00	3721400.00	0.07530
412300.00	3721500.00	0.13500	412400.00	3721500.00	0.09315
412500.00	3721500.00	0.07193	412600.00	3721500.00	0.07847
412700.00	3721500.00	0.05884	412900.00	3721500.00	0.05217
413000.00	3721500.00	0.05217	412300.00	3721600.00	0.14484
412400.00	3721600.00	0.11343	412500.00	3721600.00	0.09666
412600.00	3721600.00	0.09262	412300.00	3721700.00	0.24628
412400.00	3721700.00	0.21259	412500.00	3721700.00	0.16088
412600.00	3721700.00	0.14445	412300.00	3721800.00	0.62303
412400.00	3721800.00	0.41635	412500.00	3721800.00	0.32036
412600.00	3721800.00	0.24682	412500.00	3721900.00	0.69389
412600.00	3721900.00	0.46450	412600.00	3722000.00	0.77882
412500.00	3722100.00	1.75764	412600.00	3722100.00	1.11836
412700.00	3721900.00	0.33041	412700.00	3721800.00	0.19442
412700.00	3721100.00	0.07086	412800.00	3721100.00	0.04643
412700.00	3721000.00	0.06754	412367.78	3721952.84	15.42700
412305.75	3721305.63	0.38584	412431.23	3720873.79	0.12952
412396.08	3720987.52	0.15736	412427.09	3721078.50	0.21488
412234.79	3721533.42	0.68602	412185.16	3721721.59	2.32391
412236.86	3721800.16	6.77843	412530.49	3722031.76	4.81366
412296.83	3721413.48	0.44890	412209.97	3721638.88	1.07232

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*** AERMOD - VERSION 09292 ***    *** Newport Banning Ranch                                                ***
                                  *** Future Oilfield Impacts on Recreational Receptors 1/08/10            ***

**MODELOPTs:  RegDFAULT CONC                                        ELEV
    FLGPOL

                          *** THE PERIOD (  8784 HRS) AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP: NBOPS    **
                              INCLUDING SOURCE(S):      NBOPS   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                    ** CONC OF ALL      IN MICROGRAMS/M**3                          **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412600.00	3720900.00	1.12795	412500.00	3721000.00	4.60713
412600.00	3721000.00	2.37245	412600.00	3721100.00	3.39621
412800.00	3721200.00	1.06087	412900.00	3721200.00	0.78990
413100.00	3721200.00	0.39377	412800.00	3721300.00	1.14056
412900.00	3721300.00	0.82707	412400.00	3721400.00	1.75964
412500.00	3721400.00	2.59657	412600.00	3721400.00	2.11688
412300.00	3721500.00	0.79491	412400.00	3721500.00	0.85894
412500.00	3721500.00	1.09827	412600.00	3721500.00	1.53690
412700.00	3721500.00	1.22995	412900.00	3721500.00	0.82321
413000.00	3721500.00	0.66530	412300.00	3721600.00	0.49731
412400.00	3721600.00	0.55135	412500.00	3721600.00	0.76630
412600.00	3721600.00	1.03856	412300.00	3721700.00	0.43597
412400.00	3721700.00	0.53921	412500.00	3721700.00	0.58866
412600.00	3721700.00	0.80099	412300.00	3721800.00	0.42559
412400.00	3721800.00	0.36078	412500.00	3721800.00	0.47467

412600.00	3721800.00	0.59556	412500.00	3721900.00	0.40922
412600.00	3721900.00	0.49940	412600.00	3722000.00	0.42828
412500.00	3722100.00	0.32075	412600.00	3722100.00	0.42957
412700.00	3721900.00	0.55934	412700.00	3721800.00	0.65923
412700.00	3721100.00	1.69622	412800.00	3721100.00	0.91631
412700.00	3721000.00	1.16472	412367.78	3721952.84	1.79562
412305.75	3721305.63	9.01168	412431.23	3720873.79	9.02564
412396.08	3720987.52	43.52866	412427.09	3721078.50	43.62291
412234.79	3721533.42	2.31835	412185.16	3721721.59	1.26977
412236.86	3721800.16	1.78036	412530.49	3722031.76	1.53383
412296.83	3721413.48	4.37989	412209.97	3721638.88	1.50677

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield Impacts on Recreational Receptors 1/08/10 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS2 **
INCLUDING SOURCE(S): TRUCKS2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412600.00	3720900.00	0.15616	412500.00	3721000.00	0.23931
412600.00	3721000.00	0.20733	412600.00	3721100.00	0.34722
412800.00	3721200.00	0.21289	412900.00	3721200.00	0.18228
413100.00	3721200.00	0.11000	412800.00	3721300.00	0.30897
412900.00	3721300.00	0.23937	412400.00	3721400.00	3.02998
412500.00	3721400.00	2.08769	412600.00	3721400.00	1.09099
412300.00	3721500.00	2.72657	412400.00	3721500.00	2.36111
412500.00	3721500.00	1.66639	412600.00	3721500.00	1.24060
412700.00	3721500.00	0.74220	412900.00	3721500.00	0.37606
413000.00	3721500.00	0.29390	412300.00	3721600.00	2.35458
412400.00	3721600.00	2.04888	412500.00	3721600.00	1.60409
412600.00	3721600.00	1.25375	412300.00	3721700.00	2.44157
412400.00	3721700.00	2.14453	412500.00	3721700.00	1.55431
412600.00	3721700.00	1.25069	412300.00	3721800.00	2.20125
412400.00	3721800.00	1.67522	412500.00	3721800.00	1.43735
412600.00	3721800.00	1.15324	412500.00	3721900.00	1.28984
412600.00	3721900.00	1.07370	412600.00	3722000.00	0.97223
412500.00	3722100.00	0.93574	412600.00	3722100.00	0.95066
412700.00	3721900.00	0.87240	412700.00	3721800.00	0.89246
412700.00	3721100.00	0.21706	412800.00	3721100.00	0.14163
412700.00	3721000.00	0.13517	412367.78	3721952.84	7.91842
412305.75	3721305.63	35.14225	412431.23	3720873.79	0.50333
412396.08	3720987.52	0.87745	412427.09	3721078.50	2.80561
412234.79	3721533.42	21.58384	412185.16	3721721.59	15.30867
412236.86	3721800.16	15.07748	412530.49	3722031.76	4.20235
412296.83	3721413.48	22.83765	412209.97	3721638.88	17.82533

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield Impacts on Recreational Receptors 1/08/10 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS_F **
INCLUDING SOURCE(S): TRUCKS_F,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412600.00	3720900.00	0.17677	412500.00	3721000.00	0.23571

412600.00	3721000.00	0.20255	412600.00	3721100.00	0.31189
412800.00	3721200.00	0.19763	412900.00	3721200.00	0.16944
413100.00	3721200.00	0.10143	412800.00	3721300.00	0.28546
412900.00	3721300.00	0.22268	412400.00	3721400.00	3.03771
412500.00	3721400.00	2.08370	412600.00	3721400.00	1.04972
412300.00	3721500.00	2.54671	412400.00	3721500.00	2.41532
412500.00	3721500.00	1.73068	412600.00	3721500.00	1.21757
412700.00	3721500.00	0.72088	412900.00	3721500.00	0.35879
413000.00	3721500.00	0.28492	412300.00	3721600.00	2.30540
412400.00	3721600.00	2.07929	412500.00	3721600.00	1.63997
412600.00	3721600.00	1.26505	412300.00	3721700.00	2.46094
412400.00	3721700.00	2.12608	412500.00	3721700.00	1.57508
412600.00	3721700.00	1.25546	412300.00	3721800.00	2.16125
412400.00	3721800.00	1.67475	412500.00	3721800.00	1.44980
412600.00	3721800.00	1.16344	412500.00	3721900.00	1.29645
412600.00	3721900.00	1.08266	412600.00	3722000.00	0.98420
412500.00	3722100.00	0.94411	412600.00	3722100.00	0.97412
412700.00	3721900.00	0.88356	412700.00	3721800.00	0.89835
412700.00	3721100.00	0.19410	412800.00	3721100.00	0.12592
412700.00	3721000.00	0.12318	412367.78	3721952.84	8.66373
412305.75	3721305.63	46.70480	412431.23	3720873.79	0.55056
412396.08	3720987.52	0.98700	412427.09	3721078.50	3.01133
412234.79	3721533.42	31.70036	412185.16	3721721.59	19.59103
412236.86	3721800.16	17.08142	412530.49	3722031.76	4.57735
412296.83	3721413.48	31.67909	412209.97	3721638.88	24.07119

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: WNOC *
INCLUDING SOURCE(S): WNOC ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412600.00	3720900.00	22.01853	(08040301)	412500.00	3721000.00	22.60253	(08040
412600.00	3721000.00	22.19190	(08121321)	412600.00	3721100.00	21.32200	(08100
412800.00	3721200.00	8.87620	(08082407)	412900.00	3721200.00	9.59495	(08082
413100.00	3721200.00	6.63782	(08091320)	412800.00	3721300.00	10.91004	(08082
412900.00	3721300.00	8.87435	(08082407)	412400.00	3721400.00	21.22519	(08061
412500.00	3721400.00	16.39033	(08052522)	412600.00	3721400.00	13.74082	(08082
412300.00	3721500.00	24.91785	(08061806)	412400.00	3721500.00	19.22766	(08061
412500.00	3721500.00	17.36055	(08082407)	412600.00	3721500.00	15.23787	(08082
412700.00	3721500.00	15.62148	(08091107)	412900.00	3721500.00	15.55322	(08091
413000.00	3721500.00	12.71763	(08091107)	412300.00	3721600.00	25.57885	(08061
412400.00	3721600.00	21.65154	(08082407)	412500.00	3721600.00	18.13002	(08091
412600.00	3721600.00	22.57634	(08091107)	412300.00	3721700.00	29.03432	(08082
412400.00	3721700.00	27.60426	(08091107)	412500.00	3721700.00	22.73584	(08091
412600.00	3721700.00	17.56126	(08091107)	412300.00	3721800.00	28.28495	(08111
412400.00	3721800.00	25.75578	(08111408)	412500.00	3721800.00	24.30330	(08111
412600.00	3721800.00	21.26271	(08111408)	412500.00	3721900.00	21.82943	(08020
412600.00	3721900.00	17.38345	(08020509)	412600.00	3722000.00	30.03474	(08090
412500.00	3722100.00	40.49380	(08030620)	412600.00	3722100.00	20.14508	(08061
412700.00	3721900.00	14.01724	(08020509)	412700.00	3721800.00	18.11789	(08111
412700.00	3721100.00	14.46242	(08123006)	412800.00	3721100.00	9.82571	(08042
412700.00	3721000.00	15.74517	(08123006)	412367.78	3721952.84	271.82185	(08071
412305.75	3721305.63	76.49829	(08030919)	412431.23	3720873.79	45.96874	(08091
412396.08	3720987.52	50.49989	(08091403)	412427.09	3721078.50	56.97657	(08030
412234.79	3721533.42	82.18436	(08030919)	412185.16	3721721.59	98.32912	(08091
412236.86	3721800.16	217.17771	(08071405)	412530.49	3722031.76	134.68175	(08071
412296.83	3721413.48	75.39836	(08030919)	412209.97	3721638.88	81.21107	(08040

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**MODELOPTs:  RegDFAULT CONC                                        ELEV
    FLGPOL

                          *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  NBOPS    *
                              INCLUDING SOURCE(S):      NBOPS   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                     ** CONC OF ALL      IN MICROGRAMS/M**3                          **

     X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)  Y-COORD (M)        CONC     (YYMMD
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       412600.00   3720900.00       38.69113  (08111408)               412500.00   3721000.00       55.92250  (08030
       412600.00   3721000.00       46.44607  (08090707)               412600.00   3721100.00       81.04036  (08030
       412800.00   3721200.00       19.52892  (08061306)               412900.00   3721200.00       21.32543  (08071
       413100.00   3721200.00       19.27749  (08071401)               412800.00   3721300.00       65.43475  (08030
       412900.00   3721300.00       26.91500  (08030620)               412400.00   3721400.00      127.09553  (08053
       412500.00   3721400.00      100.35632  (08053104)               412600.00   3721400.00      108.57519  (08090
       412300.00   3721500.00       41.80318  (08053102)               412400.00   3721500.00       60.40313  (08053
       412500.00   3721500.00       96.62633  (08053104)               412600.00   3721500.00       66.59829  (08090
       412700.00   3721500.00       79.62906  (08090606)               412900.00   3721500.00       67.27466  (08030
       413000.00   3721500.00       67.13619  (08030620)               412300.00   3721600.00       28.70662  (08053
       412400.00   3721600.00       29.85994  (08053104)               412500.00   3721600.00       94.04628  (08053
       412600.00   3721600.00       40.57075  (08053104)               412300.00   3721700.00       27.52690  (08053
       412400.00   3721700.00       19.15888  (08062007)               412500.00   3721700.00       81.66666  (08053
       412600.00   3721700.00       61.79769  (08053104)               412300.00   3721800.00       25.91716  (08053
       412400.00   3721800.00       16.95160  (08062007)               412500.00   3721800.00       61.33883  (08053
       412600.00   3721800.00       73.57920  (08053104)               412500.00   3721900.00       42.38964  (08053
       412600.00   3721900.00       77.05806  (08053104)               412600.00   3722000.00       70.22958  (08053
       412500.00   3722100.00       17.04996  (08053104)               412600.00   3722100.00       60.73261  (08053
       412700.00   3721900.00       35.87575  (08053104)               412700.00   3721800.00       20.67480  (08053
       412700.00   3721100.00       27.59500  (08071401)               412800.00   3721100.00       25.70915  (08090
       412700.00   3721000.00       35.39039  (08090707)               412367.78   3721952.84       75.02673  (08050
       412305.75   3721305.63      244.05541  (08031305)               412431.23   3720873.79      230.84177  (08071
       412396.08   3720987.52      400.22423  (08030620)               412427.09   3721078.50      431.65717  (08102
       412234.79   3721533.42      156.20206  (08053102)               412185.16   3721721.59      115.06414  (08071
       412236.86   3721800.16      111.82376  (08053102)               412530.49   3722031.76       55.47284  (08031
       412296.83   3721413.48      167.74692  (08053102)               412209.97   3721638.88      121.98949  (08071

*** AERMOD - VERSION 09292 ***    *** Newport Banning Ranch                                                ***
                                  *** Future Oilfield Impacts on Recreational Receptors 1/08/10            ***

**MODELOPTs:  RegDFAULT CONC                                        ELEV
    FLGPOL

                          *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION   VALUES FOR SOURCE GROUP:  TRUCKS2  *
                              INCLUDING SOURCE(S):      TRUCKS2 ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                     ** CONC OF ALL      IN MICROGRAMS/M**3                          **

     X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)  Y-COORD (M)        CONC     (YYMMD
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       412600.00   3720900.00       26.76264  (08123006)               412500.00   3721000.00       29.64714  (08061
       412600.00   3721000.00       22.95370  (08052522)               412600.00   3721100.00       18.81303  (08031
       412800.00   3721200.00       12.18037  (08091107)               412900.00   3721200.00       10.20901  (08091
       413100.00   3721200.00        8.10279  (08071405)               412800.00   3721300.00        9.23698  (08091
       412900.00   3721300.00        8.45072  (08071405)               412400.00   3721400.00       35.38895  (08090
       412500.00   3721400.00       34.08541  (08030620)               412600.00   3721400.00       24.80247  (08030
       412300.00   3721500.00       40.22905  (08053104)               412400.00   3721500.00       30.89565  (08053
       412500.00   3721500.00       24.50102  (08090606)               412600.00   3721500.00       27.74434  (08030
       412700.00   3721500.00       20.51206  (08030620)               412900.00   3721500.00        6.91641  (08090
       413000.00   3721500.00        6.61314  (08090707)               412300.00   3721600.00       27.26154  (08053
       412400.00   3721600.00       38.75363  (08053104)               412500.00   3721600.00       27.69868  (08090
       412600.00   3721600.00       28.43582  (08102923)               412300.00   3721700.00       28.85995  (08053
       412400.00   3721700.00       52.41369  (08053104)               412500.00   3721700.00       25.84104  (08090
       412600.00   3721700.00       30.74151  (08090606)               412300.00   3721800.00       33.49068  (08053
       412400.00   3721800.00       43.28068  (08053104)               412500.00   3721800.00       27.59679  (08053
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412600.00	3721800.00	29.77000	(08090606)	412500.00	3721900.00	37.31608	(08053
412600.00	3721900.00	26.55900	(08090606)	412600.00	3722000.00	24.46705	(08090
412500.00	3722100.00	43.71164	(08053104)	412600.00	3722100.00	26.83037	(08053
412700.00	3721900.00	29.62532	(08090606)	412700.00	3721800.00	27.42479	(08102
412700.00	3721100.00	12.60614	(08091107)	412800.00	3721100.00	11.39994	(08091
412700.00	3721000.00	13.33233	(08031706)	412367.78	3721952.84	83.18748	(08053
412305.75	3721305.63	232.32350	(08011318)	412431.23	3720873.79	131.23154	(08030
412396.08	3720987.52	139.96441	(08030919)	412427.09	3721078.50	136.68704	(08092
412234.79	3721533.42	200.46233	(08053102)	412185.16	3721721.59	146.37737	(08053
412236.86	3721800.16	111.53838	(08053104)	412530.49	3722031.76	63.65543	(08053
412296.83	3721413.48	250.52909	(08053104)	412209.97	3721638.88	155.14831	(08053

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield Impacts on Recreational Receptors 1/08/10 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS_F *
INCLUDING SOURCE(S): TRUCKS_F,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412600.00	3720900.00	46.58858	(08101407)	412500.00	3721000.00	49.82062	(08092
412600.00	3721000.00	32.38455	(08051619)	412600.00	3721100.00	26.85991	(08042
412800.00	3721200.00	12.45939	(08091107)	412900.00	3721200.00	12.18615	(08091
413100.00	3721200.00	8.50657	(08071405)	412800.00	3721300.00	11.63010	(08091
412900.00	3721300.00	8.79972	(08071405)	412400.00	3721400.00	36.48163	(08090
412500.00	3721400.00	36.48523	(08102923)	412600.00	3721400.00	27.37018	(08030
412300.00	3721500.00	39.97811	(08062007)	412400.00	3721500.00	38.24805	(08053
412500.00	3721500.00	25.23306	(08090606)	412600.00	3721500.00	28.86549	(08030
412700.00	3721500.00	22.55491	(08030620)	412900.00	3721500.00	6.99713	(08071
413000.00	3721500.00	6.71279	(08090707)	412300.00	3721600.00	34.38987	(08062
412400.00	3721600.00	44.59810	(08053104)	412500.00	3721600.00	30.65044	(08090
412600.00	3721600.00	29.75320	(08102923)	412300.00	3721700.00	28.74258	(08062
412400.00	3721700.00	68.33505	(08053104)	412500.00	3721700.00	24.65172	(08090
412600.00	3721700.00	33.66782	(08090606)	412300.00	3721800.00	32.54286	(08053
412400.00	3721800.00	48.00112	(08053104)	412500.00	3721800.00	31.38254	(08053
412600.00	3721800.00	32.99773	(08090606)	412500.00	3721900.00	46.86728	(08053
412600.00	3721900.00	24.22025	(08090606)	412600.00	3722000.00	23.20725	(08090
412500.00	3722100.00	55.29427	(08053104)	412600.00	3722100.00	28.36250	(08053
412700.00	3721900.00	34.63027	(08090606)	412700.00	3721800.00	30.84912	(08102
412700.00	3721100.00	16.63511	(08050722)	412800.00	3721100.00	11.53961	(08091
412700.00	3721000.00	17.71461	(08031706)	412367.78	3721952.84	91.28720	(08121
412305.75	3721305.63	370.80222	(08100206)	412431.23	3720873.79	192.19617	(08030
412396.08	3720987.52	227.80352	(08030919)	412427.09	3721078.50	220.01875	(08121
412234.79	3721533.42	353.95220	(08053102)	412185.16	3721721.59	240.47653	(08071
412236.86	3721800.16	161.26674	(08082903)	412530.49	3722031.76	82.16599	(08053
412296.83	3721413.48	320.49747	(08053104)	412209.97	3721638.88	230.00082	(08053

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield Impacts on Recreational Receptors 1/08/10 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE SUMMARY OF MAXIMUM PERIOD (8784 HRS) RESULTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
WNOC	1ST HIGHEST VALUE IS 15.42700	AT (412367.78, 3721952.84, 15.07, 29.57, 1.80)	DC	

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         2ND HIGHEST VALUE IS       6.77843 AT (  412236.86,  3721800.16,    12.64,    28.96,    1.80)  DC
         3RD HIGHEST VALUE IS       4.81366 AT (  412530.49,  3722031.76,    28.92,    28.92,    1.80)  DC
         4TH HIGHEST VALUE IS       2.32391 AT (  412185.16,  3721721.59,    23.57,    23.57,    1.80)  DC
         5TH HIGHEST VALUE IS       1.75764 AT (  412500.00,  3722100.00,    27.74,    29.57,   29.57)  DC
         6TH HIGHEST VALUE IS       1.11836 AT (  412600.00,  3722100.00,    28.65,    28.65,   28.65)  DC
         7TH HIGHEST VALUE IS       1.07232 AT (  412209.97,  3721638.88,    24.99,    24.99,    1.80)  DC
         8TH HIGHEST VALUE IS       0.77882 AT (  412600.00,  3722000.00,    30.48,    30.48,   30.48)  DC
         9TH HIGHEST VALUE IS       0.69389 AT (  412500.00,  3721900.00,    29.26,    29.26,   29.26)  DC
        10TH HIGHEST VALUE IS       0.68602 AT (  412234.79,  3721533.42,    19.90,    19.90,    1.80)  DC

NBOPS    1ST HIGHEST VALUE IS      43.62291 AT (  412427.09,  3721078.50,    10.04,    18.90,    1.80)  DC
         2ND HIGHEST VALUE IS      43.52866 AT (  412396.08,  3720987.52,    16.66,    16.66,    1.80)  DC
         3RD HIGHEST VALUE IS       9.02564 AT (  412431.23,  3720873.79,    16.00,    16.00,    1.80)  DC
         4TH HIGHEST VALUE IS       9.01168 AT (  412305.75,  3721305.63,    10.36,    18.90,    1.80)  DC
         5TH HIGHEST VALUE IS       4.60713 AT (  412500.00,  3721000.00,    18.90,    18.90,   18.90)  DC
         6TH HIGHEST VALUE IS       4.37989 AT (  412296.83,  3721413.48,    18.04,    18.04,    1.80)  DC
         7TH HIGHEST VALUE IS       3.39621 AT (  412600.00,  3721100.00,    19.51,    19.51,   19.51)  DC
         8TH HIGHEST VALUE IS       2.59657 AT (  412500.00,  3721400.00,    17.07,    21.64,   21.64)  DC
         9TH HIGHEST VALUE IS       2.37245 AT (  412600.00,  3721000.00,    19.20,    19.20,   19.20)  DC
        10TH HIGHEST VALUE IS       2.31835 AT (  412234.79,  3721533.42,    19.90,    19.90,    1.80)  DC

TRUCKS2  1ST HIGHEST VALUE IS      35.14225 AT (  412305.75,  3721305.63,    10.36,    18.90,    1.80)  DC
         2ND HIGHEST VALUE IS      22.83765 AT (  412296.83,  3721413.48,    18.04,    18.04,    1.80)  DC
         3RD HIGHEST VALUE IS      21.58384 AT (  412234.79,  3721533.42,    19.90,    19.90,    1.80)  DC
         4TH HIGHEST VALUE IS      17.82533 AT (  412209.97,  3721638.88,    24.99,    24.99,    1.80)  DC
         5TH HIGHEST VALUE IS      15.30867 AT (  412185.16,  3721721.59,    23.57,    23.57,    1.80)  DC
         6TH HIGHEST VALUE IS      15.07748 AT (  412236.86,  3721800.16,    12.64,    28.96,    1.80)  DC
         7TH HIGHEST VALUE IS       7.91842 AT (  412367.78,  3721952.84,    15.07,    29.57,    1.80)  DC
         8TH HIGHEST VALUE IS       4.20235 AT (  412530.49,  3722031.76,    28.92,    28.92,    1.80)  DC
         9TH HIGHEST VALUE IS       3.02998 AT (  412400.00,  3721400.00,    21.03,    21.03,   21.03)  DC
        10TH HIGHEST VALUE IS       2.80561 AT (  412427.09,  3721078.50,    10.04,    18.90,    1.80)  DC

 *** AERMOD - VERSION 09292 ***    *** Newport Banning Ranch                                              ***
                                   *** Future Oilfield Impacts on Recreational Receptors 1/08/10          ***

 **MODELOPTs:  RegDFAULT CONC                                        ELEV
     FLGPOL

                                       *** THE SUMMARY OF MAXIMUM PERIOD (  8784 HRS) RESULTS ***


                                    ** CONC OF ALL      IN MICROGRAMS/M**3                        **

                                                                                                        NETWORK
GROUP ID                      AVERAGE CONC               RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

TRUCKS_F 1ST HIGHEST VALUE IS      46.70480 AT (  412305.75,  3721305.63,    10.36,    18.90,    1.80)  DC
         2ND HIGHEST VALUE IS      31.70036 AT (  412234.79,  3721533.42,    19.90,    19.90,    1.80)  DC
         3RD HIGHEST VALUE IS      31.67909 AT (  412296.83,  3721413.48,    18.04,    18.04,    1.80)  DC
         4TH HIGHEST VALUE IS      24.07119 AT (  412209.97,  3721638.88,    24.99,    24.99,    1.80)  DC
         5TH HIGHEST VALUE IS      19.59103 AT (  412185.16,  3721721.59,    23.57,    23.57,    1.80)  DC
         6TH HIGHEST VALUE IS      17.08142 AT (  412236.86,  3721800.16,    12.64,    28.96,    1.80)  DC
         7TH HIGHEST VALUE IS       8.66373 AT (  412367.78,  3721952.84,    15.07,    29.57,    1.80)  DC
         8TH HIGHEST VALUE IS       4.57735 AT (  412530.49,  3722031.76,    28.92,    28.92,    1.80)  DC
         9TH HIGHEST VALUE IS       3.03771 AT (  412400.00,  3721400.00,    21.03,    21.03,   21.03)  DC
        10TH HIGHEST VALUE IS       3.01133 AT (  412427.09,  3721078.50,    10.04,    18.90,    1.80)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR

 *** AERMOD - VERSION 09292 ***    *** Newport Banning Ranch                                              ***
                                   *** Future Oilfield Impacts on Recreational Receptors 1/08/10          ***

 **MODELOPTs:  RegDFAULT CONC                                        ELEV
     FLGPOL
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*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF
WNOC HIGH 1ST HIGH VALUE IS	271.82185	ON 08071401:	AT (412367.78, 3721952.84, 15.07, 29.57,	1.80
NBOPS HIGH 1ST HIGH VALUE IS	431.65717	ON 08102923:	AT (412427.09, 3721078.50, 10.04, 18.90,	1.80
TRUCKS2 HIGH 1ST HIGH VALUE IS	250.52909	ON 08053104:	AT (412296.83, 3721413.48, 18.04, 18.04,	1.80
TRUCKS_F HIGH 1ST HIGH VALUE IS	370.80222	ON 08100206:	AT (412305.75, 3721305.63, 10.36, 18.90,	1.80

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield Impacts on Recreational Receptors 1/08/10 ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 0 Warning Message(s)
A Total of 2985 Informational Message(s)

A Total of 8784 Hours Were Processed

A Total of 2920 Calm Hours Identified

A Total of 65 Missing Hours Identified (0.74 Percent)

******** FATAL ERROR MESSAGES ********
*** NONE ***

******** WARNING MESSAGES ********
*** NONE ***

****
*** AERMOD Finishes Successfully ***
****

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**************************************
** AERMOD Input Produced by:
** AERMOD View Ver. 6.2.1
** Lakes Environmental Software Inc.
** Date: 11/16/2009
** File: C:\Documents and Settings\TRAVISKR\Desktop\Newport Banning Ranch\NBR HRA 11_11_09\AERMOD\NBRFRes.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Newport Banning Ranch
   TITLETWO Future Oilfield and Future Res/Comm Dev
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 3010759 Orange_County
   POLLUTID ALL
   FLAGPOLE 1.80
   RUNORNOT RUN
   SAVEFILE NBRFRes.sv1 5 NBRFRes.sv2
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION WNOC AREAPOLY 412031.856 3721734.791 1.580
** DESCRSRC West Newport Oil Company - Consolidated Site
   LOCATION NBOPS AREAPOLY 412261.824 3721043.447 0.110
** DESCRSRC NB Oil Wells Operations - Baseline & Future Site
   LOCATION RES1 AREAPOLY 412880.344 3721394.715 22.660
** DESCRSRC Residential (low,medium) - South Area
   LOCATION RES2 AREAPOLY 412467.229 3721906.133 28.600
** DESCRSRC Residential (low, medium) - North Area
   LOCATION RES3 AREAPOLY 412561.951 3722234.769 29.570
** DESCRSRC Mixed use/residential - North Area
   LOCATION RES4 AREAPOLY 413062.516 3721309.019 31.390
** DESCRSRC Mixed use/Residential - South Area
   LOCATION HOTEL AREAPOLY 412441.938 3721069.179 15.030
** DESCRSRC Hotel area
   LOCATION TRUCKS2 AREAPOLY 412033.019 3721733.378 1.620
** DESCRSRC Trucks - Future travel between NB & WNOC - Engine Exhaust
   LOCATION TRUCKS_F AREAPOLY 412033.019 3721733.378 1.620
** DESCRSRC Trucks - Future travel between NB & WNOC - Fug Dust
** Source Parameters **
   SRCPARAM WNOC 2.09E-5 5.000 36 1.200
   AREAVERT WNOC 412031.856 3721734.791 412011.409 3721747.004
   AREAVERT WNOC 411998.860 3721748.467 411996.071 3721759.084
   AREAVERT WNOC 411984.203 3721763.584 411961.240 3721800.397
   AREAVERT WNOC 412018.448 3722001.082 412098.646 3721978.992
   AREAVERT WNOC 412085.670 3721929.279 412119.489 3721915.035
   AREAVERT WNOC 412152.780 3721908.966 412179.126 3721907.671
   AREAVERT WNOC 412194.470 3721912.245 412211.489 3721925.087
   AREAVERT WNOC 412223.917 3721948.430 412229.097 3721975.481
   AREAVERT WNOC 412229.069 3722004.838 412305.873 3721983.349
   AREAVERT WNOC 412304.943 3721976.319 412326.932 3721969.854
   AREAVERT WNOC 412326.578 3721976.100 412333.991 3721973.981
   AREAVERT WNOC 412321.840 3721935.806 412306.717 3721916.706
   AREAVERT WNOC 412285.595 3721902.801 412262.290 3721893.355
   AREAVERT WNOC 412191.063 3721824.404 412176.968 3721799.008
   AREAVERT WNOC 412156.235 3721795.133 412127.878 3721794.688
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AREAVERT WNOC 412105.848 3721791.301 412096.312 3721785.734
AREAVERT WNOC 412088.993 3721792.365 412074.743 3721790.480
AREAVERT WNOC 412053.621 3721776.207 412039.601 3721747.799
SRCPARAM NBOPS 6.53E-5 5.000 20 1.200
AREAVERT NBOPS 412261.824 3721043.447 412279.246 3721046.686
AREAVERT NBOPS 412297.173 3721053.857 412320.479 3721058.339
AREAVERT NBOPS 412324.960 3721043.997 412316.893 3721026.966
AREAVERT NBOPS 412324.960 3720984.838 412337.510 3720977.667
AREAVERT NBOPS 412336.613 3720966.014 412341.095 3720962.428
AREAVERT NBOPS 412341.991 3720947.190 412347.370 3720938.227
AREAVERT NBOPS 412342.888 3720932.849 412351.851 3720910.440
AREAVERT NBOPS 412351.851 3720905.958 412346.473 3720898.787
AREAVERT NBOPS 412355.437 3720854.865 412364.400 3720861.140
AREAVERT NBOPS 412364.438 3720839.244 412266.726 3720852.354
SRCPARAM RES1 1.287E-5 5.000 40 1.200
AREAVERT RES1 412880.344 3721394.715 412854.085 3721370.383
AREAVERT RES1 412837.978 3721365.462 412761.197 3721292.684
AREAVERT RES1 412789.313 3721281.683 412799.054 3721249.951
AREAVERT RES1 412784.224 3721225.684 412791.273 3721197.781
AREAVERT RES1 412782.456 3721173.099 412762.548 3721158.584
AREAVERT RES1 412727.494 3721163.561 412714.522 3721145.409
AREAVERT RES1 412689.514 3721136.288 412667.533 3721138.878
AREAVERT RES1 412643.796 3721148.944 412635.065 3721170.692
AREAVERT RES1 412623.631 3721178.392 412604.935 3721171.860
AREAVERT RES1 412576.464 3721171.080 412530.224 3721147.593
AREAVERT RES1 412527.735 3721118.959 412520.371 3721098.115
AREAVERT RES1 412513.941 3721071.767 412499.314 3721060.675
AREAVERT RES1 412529.101 3721053.976 412538.822 3721063.072
AREAVERT RES1 412559.826 3721055.495 412644.241 3721034.518
AREAVERT RES1 412694.638 3721019.225 412727.376 3721013.095
AREAVERT RES1 412753.037 3721003.454 412771.119 3720989.072
AREAVERT RES1 412785.790 3720976.731 412784.372 3721003.485
AREAVERT RES1 412865.225 3721093.842 412941.317 3721146.858
AREAVERT RES1 412974.955 3721145.546 412985.042 3721157.982
AREAVERT RES1 412966.114 3721203.581 412921.929 3721314.360
SRCPARAM RES2 4.77E-06 5.000 41 1.200
AREAVERT RES2 412467.229 3721906.133 412431.455 3721903.178
AREAVERT RES2 412371.248 3721895.537 412313.010 3721866.920
AREAVERT RES2 412276.728 3721829.928 412269.501 3721805.820
AREAVERT RES2 412258.184 3721771.542 412223.157 3721737.298
AREAVERT RES2 412203.109 3721689.814 412210.362 3721642.724
AREAVERT RES2 412234.291 3721607.657 412248.271 3721568.417
AREAVERT RES2 412285.903 3721488.685 412317.997 3721425.137
AREAVERT RES2 412308.553 3721415.026 412293.123 3721370.281
AREAVERT RES2 412306.101 3721330.797 412324.159 3721317.073
AREAVERT RES2 412357.440 3721321.171 412382.379 3721313.227
AREAVERT RES2 412395.346 3721315.692 412427.913 3721354.613
AREAVERT RES2 412477.976 3721360.045 412490.831 3721377.770
AREAVERT RES2 412511.454 3721392.590 412545.138 3721390.165
AREAVERT RES2 412558.672 3721366.803 412582.883 3721340.265
AREAVERT RES2 412595.716 3721357.142 412595.747 3721374.618
AREAVERT RES2 412615.494 3721444.106 412641.892 3721445.104
AREAVERT RES2 412694.268 3721467.268 412741.398 3721500.536
AREAVERT RES2 412717.257 3721552.668 412634.013 3721702.589
AREAVERT RES2 412613.541 3721742.581 412598.401 3721787.514
AREAVERT RES2 412566.375 3721921.189 412548.268 3721944.676
AREAVERT RES2 412491.594 3721915.103
SRCPARAM RES3 1.52E-5 5.000 27 1.200
AREAVERT RES3 412561.951 3722234.769 412599.433 3722164.745
AREAVERT RES3 412683.878 3722012.762 412770.988 3721856.838
AREAVERT RES3 412798.065 3721808.335 412798.194 3721800.092
AREAVERT RES3 412713.611 3721803.083 412616.901 3721752.253
AREAVERT RES3 412603.530 3721789.902 412593.806 3721850.372
AREAVERT RES3 412585.375 3721892.519 412576.012 3721917.607
AREAVERT RES3 412554.492 3721938.240 412557.800 3721971.892
AREAVERT RES3 412542.882 3722015.938 412540.098 3722044.175
AREAVERT RES3 412516.126 3722072.693 412496.025 3722101.333
AREAVERT RES3 412470.100 3722125.532 412463.918 3722138.466
AREAVERT RES3 412509.165 3722173.936 412515.579 3722195.574
AREAVERT RES3 412508.456 3722214.132 412497.712 3722224.586
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   AREAVERT RES3 412494.706 3722237.013 412515.566 3722281.936
   AREAVERT RES3 412539.861 3722272.106
   SRCPARAM RES4 0.0001343 5.000 5 1.200
   AREAVERT RES4 413062.516 3721309.019 413129.340 3721189.358
   AREAVERT RES4 413043.868 3721181.588 413035.580 3721257.735
   AREAVERT RES4 413019.003 3721288.298
   SRCPARAM HOTEL 2.141E-5 5.000 54 1.200
   AREAVERT HOTEL 412441.938 3721069.179 412407.749 3721061.409
   AREAVERT HOTEL 412397.907 3721032.918 412390.655 3721017.896
   AREAVERT HOTEL 412392.727 3721008.053 412403.087 3720994.585
   AREAVERT HOTEL 412406.195 3720947.964 412397.389 3720929.316
   AREAVERT HOTEL 412395.835 3720919.473 412403.087 3720909.631
   AREAVERT HOTEL 412418.627 3720905.487 412439.348 3720876.996
   AREAVERT HOTEL 412450.744 3720881.140 412460.586 3720883.731
   AREAVERT HOTEL 412471.464 3720906.523 412493.221 3720936.568
   AREAVERT HOTEL 412491.667 3720945.892 412491.667 3720966.094
   AREAVERT HOTEL 412502.545 3720982.153 412522.748 3720988.887
   AREAVERT HOTEL 412536.216 3720986.815 412551.238 3720986.815
   AREAVERT HOTEL 412571.441 3720978.009 412582.319 3720957.806
   AREAVERT HOTEL 412583.355 3720940.194 412570.923 3720913.257
   AREAVERT HOTEL 412583.355 3720899.789 412588.535 3720884.767
   AREAVERT HOTEL 412585.945 3720873.370 412568.851 3720850.578
   AREAVERT HOTEL 412576.103 3720848.506 412587.499 3720844.362
   AREAVERT HOTEL 412606.666 3720843.844 412624.796 3720842.290
   AREAVERT HOTEL 412642.927 3720832.447 412656.913 3720848.506
   AREAVERT HOTEL 412666.755 3720884.767 412669.345 3720903.933
   AREAVERT HOTEL 412679.187 3720918.437 412697.318 3720929.316
   AREAVERT HOTEL 412715.966 3720929.834 412731.507 3720937.086
   AREAVERT HOTEL 412772.326 3720925.324 412777.358 3720962.670
   AREAVERT HOTEL 412784.919 3720973.332 412749.119 3721002.355
   AREAVERT HOTEL 412714.930 3721012.198 412623.760 3721035.508
   AREAVERT HOTEL 412560.045 3721051.566 412550.720 3721056.229
   AREAVERT HOTEL 412537.252 3721060.373 412525.856 3721049.494
   AREAVERT HOTEL 412489.595 3721059.337 412465.248 3721061.409
   SRCPARAM TRUCKS2 0.0001341 5.000 12 1.200
   AREAVERT TRUCKS2 412033.019 3721733.378 412152.754 3721556.042
   AREAVERT TRUCKS2 412225.194 3721396.815 412256.638 3721324.891
   AREAVERT TRUCKS2 412254.725 3721183.803 412288.737 3721053.541
   AREAVERT TRUCKS2 412298.269 3721056.462 412264.532 3721186.201
   AREAVERT TRUCKS2 412267.088 3721326.528 412231.868 3721404.963
   AREAVERT TRUCKS2 412162.392 3721560.376 412038.895 3721741.671
   SRCPARAM TRUCKS_F 0.0001341 0.000 12 1.200
   AREAVERT TRUCKS_F 412033.019 3721733.378 412152.754 3721556.042
   AREAVERT TRUCKS_F 412225.194 3721396.815 412256.638 3721324.891
   AREAVERT TRUCKS_F 412254.725 3721183.803 412288.737 3721053.541
   AREAVERT TRUCKS_F 412298.269 3721056.462 412264.532 3721186.201
   AREAVERT TRUCKS_F 412267.088 3721326.528 412231.868 3721404.963
   AREAVERT TRUCKS_F 412162.392 3721560.376 412038.895 3721741.671
   URBANSRC WNOC
   URBANSRC NBOPS
   URBANSRC RES1
   URBANSRC RES2
   URBANSRC RES3
   URBANSRC RES4
   URBANSRC HOTEL
   URBANSRC TRUCKS2
   URBANSRC TRUCKS_F

** Variable Emissions Type: "By Hour-of-Day"
** Variable Emission Scenario: "OPS"
   EMISFACT WNOC HROFDY 1 1 1 1 1 1
   EMISFACT WNOC HROFDY 1 1 1 1 1 1
   EMISFACT WNOC HROFDY 1 1 1 1 1 1
   EMISFACT WNOC HROFDY 1 1 1 1 1 1
   EMISFACT NBOPS HROFDY 1 1 1 1 1 1
   EMISFACT NBOPS HROFDY 1 1 1 1 1 1
   EMISFACT NBOPS HROFDY 1 1 1 1 1 1
   EMISFACT NBOPS HROFDY 1 1 1 1 1 1
   EMISFACT RES1 HROFDY 1 1 1 1 1 1
   EMISFACT RES1 HROFDY 1 1 1 1 1 1
```

```
   EMISFACT RES1 HROFDY 1 1 1 1 1 1
   EMISFACT RES1 HROFDY 1 1 1 1 1 1
   EMISFACT RES2 HROFDY 1 1 1 1 1 1
   EMISFACT RES2 HROFDY 1 1 1 1 1 1
   EMISFACT RES2 HROFDY 1 1 1 1 1 1
   EMISFACT RES2 HROFDY 1 1 1 1 1 1
   EMISFACT RES3 HROFDY 1 1 1 1 1 1
   EMISFACT RES3 HROFDY 1 1 1 1 1 1
   EMISFACT RES3 HROFDY 1 1 1 1 1 1
   EMISFACT RES3 HROFDY 1 1 1 1 1 1
   EMISFACT RES4 HROFDY 1 1 1 1 1 1
   EMISFACT RES4 HROFDY 1 1 1 1 1 1
   EMISFACT RES4 HROFDY 1 1 1 1 1 1
   EMISFACT RES4 HROFDY 1 1 1 1 1 1
   EMISFACT HOTEL HROFDY 1 1 1 1 1 1
   EMISFACT HOTEL HROFDY 1 1 1 1 1 1
   EMISFACT HOTEL HROFDY 1 1 1 1 1 1
   EMISFACT HOTEL HROFDY 1 1 1 1 1 1
   EMISFACT TRUCKS2 HROFDY 1 1 1 1 1 1
   EMISFACT TRUCKS2 HROFDY 1 1 1 1 1 1
   EMISFACT TRUCKS2 HROFDY 1 1 1 1 1 1
   EMISFACT TRUCKS2 HROFDY 1 1 1 1 1 1
   EMISFACT TRUCKS_F HROFDY 1 1 1 1 1 1
   EMISFACT TRUCKS_F HROFDY 1 1 1 1 1 1
   EMISFACT TRUCKS_F HROFDY 1 1 1 1 1 1
   EMISFACT TRUCKS_F HROFDY 1 1 1 1 1 1
   SRCGROUP WNOC WNOC
   SRCGROUP NBOPS NBOPS
   SRCGROUP RES1 RES1
   SRCGROUP RES2 RES2
   SRCGROUP RES3 RES3
   SRCGROUP RES4 RES4
   SRCGROUP HOTEL HOTEL
   SRCGROUP TRUCKS2 TRUCKS2
   SRCGROUP TRUCKS_F TRUCKS_F
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED NBRFRes.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE SNANKX08.SFC
   PROFFILE SNANKX08.PFL
   SURFDATA 72297 2008
   UAIRDATA 3190 2008
   PROFBASE 0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 WNOC 1ST NBRFRes.AD\01H1G001.PLT
```

```
   PLOTFILE PERIOD WNOC NBRFRes.AD\PE00G001.PLT
   PLOTFILE 1 NBOPS 1ST NBRFRes.AD\01H1G002.PLT
   PLOTFILE PERIOD NBOPS NBRFRes.AD\PE00G002.PLT
   PLOTFILE 1 RES1 1ST NBRFRes.AD\01H1G003.PLT
   PLOTFILE PERIOD RES1 NBRFRes.AD\PE00G003.PLT
   PLOTFILE 1 RES2 1ST NBRFRes.AD\01H1G004.PLT
   PLOTFILE PERIOD RES2 NBRFRes.AD\PE00G004.PLT
   PLOTFILE 1 RES3 1ST NBRFRes.AD\01H1G005.PLT
   PLOTFILE PERIOD RES3 NBRFRes.AD\PE00G005.PLT
   PLOTFILE 1 RES4 1ST NBRFRes.AD\01H1G006.PLT
   PLOTFILE PERIOD RES4 NBRFRes.AD\PE00G006.PLT
   PLOTFILE 1 HOTEL 1ST NBRFRes.AD\01H1G007.PLT
   PLOTFILE PERIOD HOTEL NBRFRes.AD\PE00G007.PLT
   PLOTFILE 1 TRUCKS2 1ST NBRFRes.AD\01H1G008.PLT
   PLOTFILE PERIOD TRUCKS2 NBRFRes.AD\PE00G008.PLT
   PLOTFILE 1 TRUCKS_F 1ST NBRFRes.AD\01H1G009.PLT
   PLOTFILE PERIOD TRUCKS_F NBRFRes.AD\PE00G009.PLT
OU FINISHED

 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************


 *** AERMOD - VERSION 09292 ***    *** Newport Banning Ranch                                          ***
                                  *** Future Oilfield and Future Res/Comm Dev                        ***

 **MODELOPTs:  RegDFAULT CONC                                          ELEV
     FLGPOL

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for     9 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   3010759.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay for URBAN/Non-SO2.
        6. Urban Roughness Length of 1.0 Meter Assumed.

 **Model Accepts FLAGPOLE Receptor Heights.

 **Model Calculates  1 Short Term Average(s) of:   1-HR
     and Calculates PERIOD Averages

 **This Run Includes:      9 Source(s);      10 Source Group(s); and     105 Receptor(s)

 **The Model Assumes A Pollutant Type of:  ALL

 **Model Set To Continue RUNning After the Setup Testing.

 **Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
```

m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 0.00 ; Decay Coef. = 0.000 ; Rot. Angle =
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.6 MB of RAM.

**File for Saving Result Arrays: NBRFRes.sv1

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** AREAPOLY SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
WNOC	0	0.20900E-04	412031.9	3721734.8	1.6	5.00	36	1.20	YES	HROFDY
NBOPS	0	0.65300E-04	412261.8	3721043.4	0.1	5.00	20	1.20	YES	HROFDY
RES1	0	0.12870E-04	412880.3	3721394.7	22.7	5.00	40	1.20	YES	HROFDY
RES2	0	0.47700E-05	412467.2	3721906.1	28.6	5.00	41	1.20	YES	HROFDY
RES3	0	0.15200E-04	412562.0	3722234.8	29.6	5.00	27	1.20	YES	HROFDY
RES4	0	0.13430E-03	413062.5	3721309.0	31.4	5.00	5	1.20	YES	HROFDY
HOTEL	0	0.21410E-04	412441.9	3721069.2	15.0	5.00	54	1.20	YES	HROFDY
TRUCKS2	0	0.13410E-03	412033.0	3721733.4	1.6	5.00	12	1.20	YES	HROFDY
TRUCKS_F	0	0.13410E-03	412033.0	3721733.4	1.6	0.00	12	1.20	YES	HROFDY

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID SOURCE IDs

WNOC WNOC ,

NBOPS NBOPS ,

RES1 RES1 ,

RES2 RES2 ,

RES3 RES3 ,

RES4 RES4 ,

HOTEL HOTEL ,

TRUCKS2 TRUCKS2 ,

```
 TRUCKS_F  TRUCKS_F,

 ALL       WNOC    , NBOPS   , RES1    , RES2    , RES3    , RES4    , HOTEL   , TRUCKS2 , TRUCKS_F,

*** AERMOD - VERSION 09292 ***    *** Newport Banning Ranch                                    ***
                                  *** Future Oilfield and Future Res/Comm Dev                  ***

**MODELOPTs:  RegDFAULT CONC                                        ELEV
    FLGPOL
                          * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

    HOUR    SCALAR      HOUR    SCALAR      HOUR    SCALAR      HOUR    SCALAR      HOUR    SCALAR      HOUR    SCALA
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -


SOURCE ID = WNOC     ;  SOURCE TYPE = AREAPOLY :
      1   .10000E+01      2   .10000E+01      3   .10000E+01      4   .10000E+01      5   .10000E+01      6   .10000E
      7   .10000E+01      8   .10000E+01      9   .10000E+01     10   .10000E+01     11   .10000E+01     12   .10000E
     13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .10000E+01     17   .10000E+01     18   .10000E
     19   .10000E+01     20   .10000E+01     21   .10000E+01     22   .10000E+01     23   .10000E+01     24   .10000E


SOURCE ID = NBOPS    ;  SOURCE TYPE = AREAPOLY :
      1   .10000E+01      2   .10000E+01      3   .10000E+01      4   .10000E+01      5   .10000E+01      6   .10000E
      7   .10000E+01      8   .10000E+01      9   .10000E+01     10   .10000E+01     11   .10000E+01     12   .10000E
     13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .10000E+01     17   .10000E+01     18   .10000E
     19   .10000E+01     20   .10000E+01     21   .10000E+01     22   .10000E+01     23   .10000E+01     24   .10000E


SOURCE ID = RES1     ;  SOURCE TYPE = AREAPOLY :
      1   .10000E+01      2   .10000E+01      3   .10000E+01      4   .10000E+01      5   .10000E+01      6   .10000E
      7   .10000E+01      8   .10000E+01      9   .10000E+01     10   .10000E+01     11   .10000E+01     12   .10000E
     13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .10000E+01     17   .10000E+01     18   .10000E
     19   .10000E+01     20   .10000E+01     21   .10000E+01     22   .10000E+01     23   .10000E+01     24   .10000E


SOURCE ID = RES2     ;  SOURCE TYPE = AREAPOLY :
      1   .10000E+01      2   .10000E+01      3   .10000E+01      4   .10000E+01      5   .10000E+01      6   .10000E
      7   .10000E+01      8   .10000E+01      9   .10000E+01     10   .10000E+01     11   .10000E+01     12   .10000E
     13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .10000E+01     17   .10000E+01     18   .10000E
     19   .10000E+01     20   .10000E+01     21   .10000E+01     22   .10000E+01     23   .10000E+01     24   .10000E


SOURCE ID = RES3     ;  SOURCE TYPE = AREAPOLY :
      1   .10000E+01      2   .10000E+01      3   .10000E+01      4   .10000E+01      5   .10000E+01      6   .10000E
      7   .10000E+01      8   .10000E+01      9   .10000E+01     10   .10000E+01     11   .10000E+01     12   .10000E
     13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .10000E+01     17   .10000E+01     18   .10000E
     19   .10000E+01     20   .10000E+01     21   .10000E+01     22   .10000E+01     23   .10000E+01     24   .10000E


*** AERMOD - VERSION 09292 ***    *** Newport Banning Ranch                                    ***
                                  *** Future Oilfield and Future Res/Comm Dev                  ***

**MODELOPTs:  RegDFAULT CONC                                        ELEV
    FLGPOL
                          * SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY *

    HOUR    SCALAR      HOUR    SCALAR      HOUR    SCALAR      HOUR    SCALAR      HOUR    SCALAR      HOUR    SCALA
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -


SOURCE ID = RES4     ;  SOURCE TYPE = AREAPOLY :
      1   .10000E+01      2   .10000E+01      3   .10000E+01      4   .10000E+01      5   .10000E+01      6   .10000E
      7   .10000E+01      8   .10000E+01      9   .10000E+01     10   .10000E+01     11   .10000E+01     12   .10000E
     13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .10000E+01     17   .10000E+01     18   .10000E
```

```
     19   .10000E+01     20   .10000E+01     21   .10000E+01     22   .10000E+01     23   .10000E+01     24   .10000E


SOURCE ID = HOTEL    ;  SOURCE TYPE = AREAPOLY :
      1   .10000E+01      2   .10000E+01      3   .10000E+01      4   .10000E+01      5   .10000E+01      6   .10000E
      7   .10000E+01      8   .10000E+01      9   .10000E+01     10   .10000E+01     11   .10000E+01     12   .10000E
     13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .10000E+01     17   .10000E+01     18   .10000E
     19   .10000E+01     20   .10000E+01     21   .10000E+01     22   .10000E+01     23   .10000E+01     24   .10000E


SOURCE ID = TRUCKS2  ;  SOURCE TYPE = AREAPOLY :
      1   .10000E+01      2   .10000E+01      3   .10000E+01      4   .10000E+01      5   .10000E+01      6   .10000E
      7   .10000E+01      8   .10000E+01      9   .10000E+01     10   .10000E+01     11   .10000E+01     12   .10000E
     13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .10000E+01     17   .10000E+01     18   .10000E
     19   .10000E+01     20   .10000E+01     21   .10000E+01     22   .10000E+01     23   .10000E+01     24   .10000E


SOURCE ID = TRUCKS_F ;  SOURCE TYPE = AREAPOLY :
      1   .10000E+01      2   .10000E+01      3   .10000E+01      4   .10000E+01      5   .10000E+01      6   .10000E
      7   .10000E+01      8   .10000E+01      9   .10000E+01     10   .10000E+01     11   .10000E+01     12   .10000E
     13   .10000E+01     14   .10000E+01     15   .10000E+01     16   .10000E+01     17   .10000E+01     18   .10000E
     19   .10000E+01     20   .10000E+01     21   .10000E+01     22   .10000E+01     23   .10000E+01     24   .10000E


*** AERMOD - VERSION 09292 ***     *** Newport Banning Ranch                                                ***
                                   *** Future Oilfield and Future Res/Comm Dev                              ***

**MODELOPTs:  RegDFAULT CONC                                          ELEV
    FLGPOL

                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                 (METERS)

    ( 412489.8, 3722582.2,      22.6,      25.6,       1.8);         ( 412553.3, 3722330.9,      24.7,      29.0,
    ( 412524.4, 3722386.3,      17.7,      30.2,       1.8);         ( 412497.9, 3722433.6,      29.9,      29.9,
    ( 412475.4, 3722481.0,      28.8,      28.8,       1.8);         ( 412467.4, 3722520.3,      26.4,      27.7,
    ( 412594.2, 3722278.7,      28.6,      28.6,       1.8);         ( 412609.5, 3722233.7,      29.6,      29.6,
    ( 412659.3, 3722176.7,      30.2,      30.2,       1.8);         ( 412731.5, 3722032.2,      31.1,      31.1,
    ( 412776.5, 3721942.3,      31.7,      31.7,       1.8);         ( 412698.6, 3722100.4,      30.8,      30.8,
    ( 413165.1, 3721124.9,      30.8,      30.8,       1.8);         ( 412982.0, 3721085.6,      27.5,      27.5,
    ( 412880.8, 3720974.8,      27.1,      27.1,       1.8);         ( 412180.5, 3721337.9,       2.1,      21.6,
    ( 412126.7, 3721479.6,       1.9,      27.1,       1.8);         ( 412179.7, 3721036.3,       1.8,       1.8,
    ( 412246.8, 3720839.9,       1.5,       1.5,       1.8);         ( 412523.3, 3720798.4,       4.0,      21.0,
    ( 412785.0, 3720680.9,       3.2,      21.0,       1.8);         ( 412827.5, 3720655.2,       3.2,      21.0,
    ( 412829.4, 3720862.6,      20.1,      20.1,       1.8);         ( 412867.5, 3720847.4,      16.4,      25.0,
    ( 412868.8, 3721078.4,      28.7,      28.7,       1.8);         ( 413200.7, 3721146.0,      30.8,      30.8,
    ( 412993.4, 3721499.5,      24.6,      32.0,       1.8);         ( 412898.6, 3721458.1,      26.1,      30.8,
    ( 412839.3, 3721588.4,      30.8,      30.8,       1.8);         ( 412760.3, 3721546.9,      30.5,      30.5,
    ( 412651.7, 3721745.4,      30.7,      30.7,       1.8);         ( 412713.9, 3721778.0,      31.4,      31.4,
    ( 412811.7, 3721775.0,      32.0,      32.0,       1.8);         ( 412824.5, 3721806.6,      32.1,      32.1,
    ( 412450.2, 3722501.8,      27.9,      27.9,       1.8);         ( 412561.8, 3722805.0,      21.2,      27.7,
    ( 411744.2, 3722808.9,       1.5,       1.5,       1.8);         ( 411738.3, 3722781.3,       1.5,       1.5,
    ( 411839.0, 3722778.3,       1.8,       1.8,       1.8);         ( 411658.3, 3722071.3,       1.5,       1.5,
    ( 411781.7, 3721849.1,       0.5,       0.5,       1.8);         ( 411839.0, 3721823.4,       0.2,       0.2,
    ( 411878.5, 3721756.3,       1.5,       1.5,       1.8);         ( 411861.7, 3721715.8,       1.5,       1.5,
    ( 412070.1, 3721660.5,       1.8,      26.2,       1.8);         ( 412172.2, 3721496.6,       0.2,      28.7,
    ( 412240.4, 3721353.4,       0.4,      28.0,       1.8);         ( 412254.0, 3721277.3,       0.0,      23.8,
    ( 412249.4, 3721236.8,       0.0,      20.1,       1.8);         ( 412249.0, 3721171.0,       0.0,      17.4,
    ( 412257.0, 3721138.6,       0.0,      17.4,       1.8);         ( 412256.9, 3721096.9,       0.0,      17.1,
    ( 412242.8, 3721038.4,       0.0,      17.1,       1.8);         ( 412339.0, 3720826.1,       2.1,      17.7,
    ( 412431.2, 3720812.3,       4.9,      18.9,       1.8);         ( 412610.6, 3720759.3,       4.9,      21.6,
    ( 412697.8, 3720720.1,       3.3,      21.6,       1.8);         ( 412828.1, 3720724.4,      11.0,      20.4,
    ( 412828.8, 3720793.5,      18.1,      19.5,       1.8);         ( 412868.0, 3720924.4,      24.0,      24.0,
    ( 412868.4, 3721001.4,      28.0,      28.0,       1.8);         ( 412951.8, 3721095.3,      27.0,      27.7,
    ( 413034.8, 3721112.2,      29.2,      29.2,       1.8);         ( 413117.7, 3721129.1,      30.8,      30.8,
    ( 413159.2, 3721216.7,      31.1,      31.1,       1.8);         ( 413117.8, 3721287.4,      31.7,      31.7,
    ( 413076.3, 3721358.1,      31.7,      31.7,       1.8);         ( 413034.8, 3721428.8,      30.8,      30.8,
    ( 412946.0, 3721478.8,      26.3,      30.8,       1.8);         ( 412868.9, 3721523.2,      30.6,      30.6,
    ( 412724.1, 3721613.1,      30.8,      30.8,       1.8);         ( 412687.9, 3721679.2,      30.7,      30.7,
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    ( 412777.7, 3721893.5,      31.9,      31.9,       1.8);         ( 412730.9, 3721980.4,      31.4,      31.4,
    ( 412684.2, 3722067.3,      30.8,      30.8,       1.8);         ( 412637.4, 3722154.2,      29.9,      29.9,
    ( 412590.6, 3722241.1,      29.6,      29.6,       1.8);         ( 412543.8, 3722328.0,      25.8,      25.8,
    ( 412497.0, 3722414.9,      29.1,      29.1,       1.8);         ( 412478.1, 3722577.6,      21.9,      26.5,
    ( 412506.0, 3722653.4,      24.4,      29.9,       1.8);         ( 412533.9, 3722729.2,      26.2,      29.6,
    ( 412471.0, 3722805.4,       6.3,      29.9,       1.8);         ( 412380.1, 3722805.8,       3.0,      29.9,
    ( 412289.3, 3722806.3,       2.7,       2.7,       1.8);         ( 412198.5, 3722806.7,       2.4,       2.4,
    ( 412107.6, 3722807.2,       2.1,       2.1,       1.8);         ( 412016.8, 3722807.6,       2.1,       2.1,
    ( 411925.9, 3722808.0,       2.0,       2.0,       1.8);         ( 411835.1, 3722808.5,       1.8,       1.8,

*** AERMOD - VERSION 09292 ***    *** Newport Banning Ranch                                                    ***
                                  *** Future Oilfield and Future Res/Comm Dev                                  ***

**MODELOPTs:  RegDFAULT CONC                                              ELEV
    FLGPOL

                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

    ( 411788.6, 3722779.8,       1.5,       1.5,       1.8);         ( 411816.4, 3722689.9,       1.8,       1.8,
    ( 411793.8, 3722601.5,       1.8,       1.8,       1.8);         ( 411771.2, 3722513.2,       1.8,       1.8,
    ( 411748.7, 3722424.8,       1.5,       1.5,       1.8);         ( 411726.1, 3722336.4,       1.5,       1.5,
    ( 411703.5, 3722248.0,       1.5,       1.5,       1.8);         ( 411680.9, 3722159.7,       1.5,       1.5,
    ( 411699.5, 3721997.2,       1.5,       1.5,       1.8);         ( 411740.6, 3721923.2,       1.2,       1.2,
    ( 411931.2, 3721697.4,       1.5,      22.9,       1.8);         ( 412000.6, 3721678.9,       1.5,      26.2,
    ( 412121.1, 3721578.6,       0.0,      28.0,       1.8);         ( 412206.3, 3721425.0,       0.4,      28.7,
    ( 412244.8, 3720939.1,       1.5,      16.8,       1.8);

*** AERMOD - VERSION 09292 ***    *** Newport Banning Ranch                                                    ***
                                  *** Future Oilfield and Future Res/Comm Dev                                  ***

**MODELOPTs:  RegDFAULT CONC                                              ELEV
    FLGPOL

                                  *** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
                                              (1=YES; 0=NO)

          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1

              NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.


                                *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
                                                (METERS/SEC)

                                                1.54,   3.09,   5.14,   8.23,  10.80,

*** AERMOD - VERSION 09292 ***    *** Newport Banning Ranch                                                    ***
                                  *** Future Oilfield and Future Res/Comm Dev                                  ***

**MODELOPTs:  RegDFAULT CONC                                              ELEV
    FLGPOL

                                   *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

  Surface file:   SNANKX08.SFC                                                                  Met Version:  06
  Profile file:   SNANKX08.PFL
  Surface format: FREE
  Profile format: FREE
  Surface station no.:    72297                 Upper air station no.:     3190
                Name: UNKNOWN                                 Name: UNKNOWN
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Year: 2008 Year: 2008

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	
08	01	01	1	01	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	285.9	2
08	01	01	1	02	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	283.1	2
08	01	01	1	03	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	280.9	2
08	01	01	1	04	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	280.9	2
08	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	282.0	2
08	01	01	1	06	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	280.9	2
08	01	01	1	07	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	280.9	2
08	01	01	1	08	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	0.53	0.00	0.	10.0	283.1	2
08	01	01	1	09	17.7	-9.000	-9.000	-9.000	46.	-999.	-99999.0	0.16	1.15	0.31	0.00	0.	10.0	288.1	2
08	01	01	1	10	44.0	-9.000	-9.000	-9.000	96.	-999.	-99999.0	0.16	1.15	0.24	0.00	0.	10.0	292.0	2
08	01	01	1	11	62.8	-9.000	-9.000	-9.000	169.	-999.	-99999.0	0.16	1.15	0.21	0.00	0.	10.0	295.4	2
08	01	01	1	12	71.1	-9.000	-9.000	-9.000	277.	-999.	-99999.0	0.16	1.15	0.20	0.00	0.	10.0	295.4	2
08	01	01	1	13	70.7	-9.000	-9.000	-9.000	397.	-999.	-99999.0	0.16	1.15	0.20	0.00	0.	10.0	295.9	2
08	01	01	1	14	60.8	0.179	0.944	0.010	500.	174.	-8.5	0.11	1.15	0.21	1.50	189.	10.0	295.9	2
08	01	01	1	15	41.4	0.173	0.866	0.011	567.	165.	-11.2	0.11	1.15	0.24	1.50	202.	10.0	294.2	2
08	01	01	1	16	15.9	-9.000	-9.000	-9.000	593.	-999.	-99999.0	0.16	1.15	0.33	0.00	0.	10.0	294.2	2
08	01	01	1	17	-13.8	0.258	-9.000	-9.000	-999.	301.	112.4	0.13	1.15	0.60	3.10	51.	10.0	293.1	2
08	01	01	1	18	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	290.9	2
08	01	01	1	19	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	290.4	2
08	01	01	1	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	287.0	2
08	01	01	1	21	-3.4	0.069	-9.000	-9.000	-999.	41.	8.6	0.13	1.15	1.00	1.50	30.	10.0	287.0	2
08	01	01	1	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	285.9	2
08	01	01	1	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	284.2	2
08	01	01	1	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.16	1.15	1.00	0.00	0.	10.0	283.1	2

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
08	01	01	01	10.0	1	-999.	-99.00	286.0	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: WNOC **
INCLUDING SOURCE(S): WNOC ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412489.85	3722582.17	4.46631	412553.28	3722330.87	5.60987
412524.37	3722386.27	6.74537	412497.88	3722433.64	4.90777
412475.40	3722481.01	4.67425	412467.37	3722520.35	4.57971
412594.22	3722278.69	4.74748	412609.48	3722233.72	4.42514
412659.26	3722176.72	3.40547	412731.52	3722032.20	1.99717
412776.48	3721942.28	1.24392	412698.60	3722100.45	2.59132
413165.07	3721124.95	0.09913	412982.01	3721085.61	0.11826
412880.85	3720974.81	0.12785	412180.50	3721337.95	0.59305
412126.66	3721479.63	1.24988	412179.67	3721036.32	0.26800
412246.84	3720839.91	0.16764	412523.33	3720798.43	0.13691
412785.01	3720680.92	0.12033	412827.47	3720655.25	0.11650
412829.44	3720862.62	0.13998	412867.53	3720847.44	0.14099
412868.83	3721078.36	0.13196	413200.67	3721146.03	0.09963
412993.36	3721499.53	0.24351	412898.56	3721458.06	0.21816
412839.32	3721588.41	0.30209	412760.32	3721546.93	0.27863
412651.70	3721745.41	0.66423	412713.91	3721778.00	0.67095
412811.67	3721775.04	0.54629	412824.50	3721806.64	0.60065
412450.25	3722501.81	4.60717	412561.84	3722804.97	3.19091

411744.21	3722808.92	1.24027	411738.29	3722781.27	1.29801
411839.01	3722778.30	1.39149	411658.31	3722071.28	3.94759
411781.74	3721849.10	5.08670	411839.01	3721823.42	6.83119
411878.51	3721756.28	6.77325	411861.72	3721715.79	5.10870
412070.08	3721660.49	4.65053	412172.22	3721496.62	1.16121
412240.44	3721353.39	0.55119	412254.01	3721277.35	0.42499
412249.37	3721236.78	0.38100	412248.99	3721170.97	0.32101
412257.01	3721138.64	0.29378	412256.89	3721096.95	0.26721
412242.84	3721038.39	0.24068	412339.00	3720826.08	0.14912
412431.17	3720812.26	0.13315	412610.56	3720759.26	0.12733
412697.78	3720720.09	0.12566	412828.13	3720724.37	0.12825
412828.78	3720793.50	0.13310	412867.96	3720924.41	0.13411
412868.40	3721001.39	0.12889	412951.79	3721095.28	0.12456
413034.75	3721112.20	0.11036	413117.71	3721129.11	0.10224
413159.21	3721216.73	0.10984	413117.75	3721287.43	0.12194
413076.28	3721358.13	0.14040	413034.82	3721428.83	0.17097
412945.96	3721478.80	0.22453	412868.94	3721523.24	0.24103
412724.11	3721613.09	0.36007	412687.91	3721679.25	0.48093
412777.72	3721893.54	0.98395	412730.94	3721980.43	1.68188
412684.16	3722067.33	2.56565	412637.38	3722154.23	3.62280
412590.59	3722241.12	4.75424	412543.81	3722328.02	5.62088
412497.03	3722414.91	5.14511	412478.15	3722577.60	4.58700

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: WNOC **
INCLUDING SOURCE(S): WNOC ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412506.05	3722653.39	3.76998	412533.94	3722729.18	3.20325
412470.99	3722805.41	3.74840	412380.14	3722805.85	3.48664
412289.30	3722806.29	3.06221	412198.45	3722806.73	2.58033
412107.60	3722807.16	2.12877	412016.75	3722807.60	1.75600
411925.91	3722808.04	1.48268	411835.06	3722808.48	1.31716
411788.65	3722779.79	1.33431	411816.42	3722689.92	1.60243
411793.84	3722601.55	1.88516	411771.25	3722513.17	2.25503
411748.66	3722424.79	2.71618	411726.07	3722336.41	3.23725
411703.49	3722248.04	3.72609	411680.90	3722159.66	4.03314
411699.45	3721997.22	4.52098	411740.60	3721923.16	4.94296
411931.17	3721697.36	7.06430	412000.63	3721678.92	6.64965
412121.15	3721578.56	2.20064	412206.33	3721425.01	0.76838
412244.84	3720939.15	0.19857			

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: NBOPS **
INCLUDING SOURCE(S): NBOPS ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412489.85	3722582.17	0.82161	412553.28	3722330.87	1.12924
412524.37	3722386.27	1.15405	412497.88	3722433.64	0.84302
412475.40	3722481.01	0.79860	412467.37	3722520.35	0.79685

412594.22	3722278.69	1.17877	412609.48	3722233.72	1.26061
412659.26	3722176.72	1.46684	412731.52	3722032.20	1.95112
412776.48	3721942.28	2.29011	412698.60	3722100.45	1.70985
413165.07	3721124.95	1.08457	412982.01	3721085.61	1.63074
412880.85	3720974.81	1.48243	412180.50	3721337.95	5.77700
412126.66	3721479.63	3.27587	412179.67	3721036.32	25.31082
412246.84	3720839.91	23.32079	412523.33	3720798.43	2.93361
412785.01	3720680.92	0.81221	412827.47	3720655.25	0.68433
412829.44	3720862.62	1.13382	412867.53	3720847.44	1.07199
412868.83	3721078.36	2.19860	413200.67	3721146.03	1.04917
412993.36	3721499.53	2.73451	412898.56	3721458.06	3.28012
412839.32	3721588.41	3.18194	412760.32	3721546.93	3.85266
412651.70	3721745.41	3.11363	412713.91	3721778.00	2.95967
412811.67	3721775.04	2.77604	412824.50	3721806.64	2.64814
412450.25	3722501.81	0.77208	412561.84	3722804.97	0.72327
411744.21	3722808.92	0.37534	411738.29	3722781.27	0.38429
411839.01	3722778.30	0.39663	411658.31	3722071.28	0.86084
411781.74	3721849.10	1.24190	411839.01	3721823.42	1.31824
411878.51	3721756.28	1.50592	411861.72	3721715.79	1.62132
412070.08	3721660.49	1.96150	412172.22	3721496.62	3.39941
412240.44	3721353.39	6.72661	412254.01	3721277.35	10.03032
412249.37	3721236.78	12.07231	412248.99	3721170.97	18.32747
412257.01	3721138.64	25.32877	412256.89	3721096.95	38.36546
412242.84	3721038.39	53.40627	412339.00	3720826.08	15.33042
412431.17	3720812.26	4.96979	412610.56	3720759.26	1.61427
412697.78	3720720.09	1.14372	412828.13	3720724.37	0.78487
412828.78	3720793.50	0.87148	412867.96	3720924.41	1.27745
412868.40	3721001.39	1.71024	412951.79	3721095.28	1.83202
413034.75	3721112.20	1.46582	413117.71	3721129.11	1.21177
413159.21	3721216.73	1.25758	413117.75	3721287.43	1.46396
413076.28	3721358.13	1.72518	413034.82	3721428.83	2.07891
412945.96	3721478.80	2.92481	412868.94	3721523.24	3.15769
412724.11	3721613.09	3.79273	412687.91	3721679.25	3.55529
412777.72	3721893.54	2.45105	412730.94	3721980.43	2.11189
412684.16	3722067.33	1.77216	412637.38	3722154.23	1.47813
412590.59	3722241.12	1.20994	412543.81	3722328.02	1.09298
412497.03	3722414.91	0.87319	412478.15	3722577.60	0.82411

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: NBOPS **
INCLUDING SOURCE(S): NBOPS ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412506.05	3722653.39	0.75445	412533.94	3722729.18	0.70057
412470.99	3722805.41	0.75934	412380.14	3722805.85	0.71006
412289.30	3722806.29	0.64302	412198.45	3722806.73	0.57547
412107.60	3722807.16	0.50995	412016.75	3722807.60	0.45298
411925.91	3722808.04	0.41113	411835.06	3722808.48	0.38620
411788.65	3722779.79	0.38874	411816.42	3722689.92	0.42427
411793.84	3722601.55	0.45857	411771.25	3722513.17	0.50070
411748.66	3722424.79	0.55189	411726.07	3722336.41	0.61278
411703.49	3722248.04	0.68413	411680.90	3722159.66	0.76668
411699.45	3721997.22	0.96394	411740.60	3721923.16	1.08867
411931.17	3721697.36	1.71941	412000.63	3721678.92	1.82070
412121.15	3721578.56	2.51082	412206.33	3721425.01	4.60392
412244.84	3720939.15	57.75169			

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: RES1 **
INCLUDING SOURCE(S): RES1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412489.85	3722582.17	0.69432	412553.28	3722330.87	1.00246
412524.37	3722386.27	0.89870	412497.88	3722433.64	0.77350
412475.40	3722481.01	0.72265	412467.37	3722520.35	0.69806
412594.22	3722278.69	1.06842	412609.48	3722233.72	1.15187
412659.26	3722176.72	1.34917	412731.52	3722032.20	1.96271
412776.48	3721942.28	2.59406	412698.60	3722100.45	1.62985
413165.07	3721124.95	3.22420	412982.01	3721085.61	6.61131
412880.85	3720974.81	3.41828	412180.50	3721337.95	2.07439
412126.66	3721479.63	1.80806	412179.67	3721036.32	1.22920
412246.84	3720839.91	1.12997	412523.33	3720798.43	1.94497
412785.01	3720680.92	0.78957	412827.47	3720655.25	0.62237
412829.44	3720862.62	1.98815	412867.53	3720847.44	1.48180
412868.83	3721078.36	17.87026	413200.67	3721146.03	3.20058
412993.36	3721499.53	21.97843	412898.56	3721458.06	27.10720
412839.32	3721588.41	8.86998	412760.32	3721546.93	8.21805
412651.70	3721745.41	3.20001	412713.91	3721778.00	3.27366
412811.67	3721775.04	4.26007	412824.50	3721806.64	4.05637
412450.25	3722501.81	0.69580	412561.84	3722804.97	0.60585
411744.21	3722808.92	0.42369	411738.29	3722781.27	0.43320
411839.01	3722778.30	0.44214	411658.31	3722071.28	0.68564
411781.74	3721849.10	0.87693	411839.01	3721823.42	0.95057
411878.51	3721756.28	1.04850	411861.72	3721715.79	1.04333
412070.08	3721660.49	1.47936	412172.22	3721496.62	1.95584
412240.44	3721353.39	2.44623	412254.01	3721277.35	2.50859
412249.37	3721236.78	2.37115	412248.99	3721170.97	2.09855
412257.01	3721138.64	1.99949	412256.89	3721096.95	1.78592
412242.84	3721038.39	1.47245	412339.00	3720826.08	1.40634
412431.17	3720812.26	1.77313	412610.56	3720759.26	1.77415
412697.78	3720720.09	1.27162	412828.13	3720724.37	0.88319
412828.78	3720793.50	1.32061	412867.96	3720924.41	2.57682
412868.40	3721001.39	4.97720	412951.79	3721095.28	9.65426
413034.75	3721112.20	5.88842	413117.71	3721129.11	4.12198
413159.21	3721216.73	5.98607	413117.75	3721287.43	10.72531
413076.28	3721358.13	16.77240	413034.82	3721428.83	20.94119
412945.96	3721478.80	24.98884	412868.94	3721523.24	13.53975
412724.11	3721613.09	5.70244	412687.91	3721679.25	4.18436
412777.72	3721893.54	2.88291	412730.94	3721980.43	2.15276
412684.16	3722067.33	1.67339	412637.38	3722154.23	1.34950
412590.59	3722241.12	1.10999	412543.81	3722328.02	0.99342
412497.03	3722414.91	0.79621	412478.15	3722577.60	0.69010

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: RES1 **
INCLUDING SOURCE(S): RES1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412506.05	3722653.39	0.65476	412533.94	3722729.18	0.60412
412470.99	3722805.41	0.52151	412380.14	3722805.85	0.47567

412289.30	3722806.29	0.45360	412198.45	3722806.73	0.44258
412107.60	3722807.16	0.43778	412016.75	3722807.60	0.43613
411925.91	3722808.04	0.43405	411835.06	3722808.48	0.43010
411788.65	3722779.79	0.43770	411816.42	3722689.92	0.47713
411793.84	3722601.55	0.51339	411771.25	3722513.17	0.54961
411748.66	3722424.79	0.58302	411726.07	3722336.41	0.61415
411703.49	3722248.04	0.64134	411680.90	3722159.66	0.66496
411699.45	3721997.22	0.74427	411740.60	3721923.16	0.80838
411931.17	3721697.36	1.16347	412000.63	3721678.92	1.30594
412121.15	3721578.56	1.67977	412206.33	3721425.01	2.18907
412244.84	3720939.15	1.27437			

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: RES2 **
INCLUDING SOURCE(S): RES2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412489.85	3722582.17	2.34228	412553.28	3722330.87	5.07743
412524.37	3722386.27	3.84694	412497.88	3722433.64	3.38860
412475.40	3722481.01	2.87080	412467.37	3722520.35	2.58058
412594.22	3722278.69	6.47741	412609.48	3722233.72	7.64797
412659.26	3722176.72	9.51038	412731.52	3722032.20	12.83148
412776.48	3721942.28	12.66594	412698.60	3722100.45	11.67345
413165.07	3721124.95	0.33397	412982.01	3721085.61	0.38758
412880.85	3720974.81	0.33498	412180.50	3721337.95	2.48841
412126.66	3721479.63	3.15725	412179.67	3721036.32	1.00904
412246.84	3720839.91	0.58786	412523.33	3720798.43	0.27120
412785.01	3720680.92	0.16313	412827.47	3720655.25	0.15516
412829.44	3720862.62	0.26218	412867.53	3720847.44	0.24460
412868.83	3721078.36	0.43500	413200.67	3721146.03	0.33746
412993.36	3721499.53	1.93167	412898.56	3721458.06	2.21260
412839.32	3721588.41	7.14422	412760.32	3721546.93	13.54530
412651.70	3721745.41	29.56239	412713.91	3721778.00	19.47824
412811.67	3721775.04	11.48586	412824.50	3721806.64	10.83167
412450.25	3722501.81	2.58543	412561.84	3722804.97	1.76406
411744.21	3722808.92	0.69866	411738.29	3722781.27	0.72031
411839.01	3722778.30	0.74144	411658.31	3722071.28	1.24020
411781.74	3721849.10	1.54039	411839.01	3721823.42	1.75982
411878.51	3721756.28	1.87511	411861.72	3721715.79	1.69649
412070.08	3721660.49	3.53626	412172.22	3721496.62	4.26369
412240.44	3721353.39	3.53980	412254.01	3721277.35	2.52461
412249.37	3721236.78	2.05710	412248.99	3721170.97	1.55751
412257.01	3721138.64	1.37761	412256.89	3721096.95	1.18644
412242.84	3721038.39	0.99243	412339.00	3720826.08	0.46864
412431.17	3720812.26	0.35954	412610.56	3720759.26	0.21413
412697.78	3720720.09	0.18087	412828.13	3720724.37	0.18636
412828.78	3720793.50	0.22426	412867.96	3720924.41	0.29985
412868.40	3721001.39	0.35943	412951.79	3721095.28	0.41262
413034.75	3721112.20	0.38400	413117.71	3721129.11	0.35738
413159.21	3721216.73	0.42851	413117.75	3721287.43	0.56699
413076.28	3721358.13	0.79468	413034.82	3721428.83	1.19797
412945.96	3721478.80	2.08173	412868.94	3721523.24	3.92989
412724.11	3721613.09	22.40851	412687.91	3721679.25	26.91788
412777.72	3721893.54	12.88838	412730.94	3721980.43	14.15003
412684.16	3722067.33	13.19796	412637.38	3722154.23	10.28039
412590.59	3722241.12	7.28005	412543.81	3722328.02	5.05140
412497.03	3722414.91	3.55458	412478.15	3722577.60	2.29759

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: RES2 **
INCLUDING SOURCE(S): RES2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412506.05	3722653.39	2.12074	412533.94	3722729.18	1.95133
412470.99	3722805.41	1.36108	412380.14	3722805.85	1.12734
412289.30	3722806.29	0.96257	412198.45	3722806.73	0.84508
412107.60	3722807.16	0.77357	412016.75	3722807.60	0.73914
411925.91	3722808.04	0.72379	411835.06	3722808.48	0.71320
411788.65	3722779.79	0.73109	411816.42	3722689.92	0.82577
411793.84	3722601.55	0.91502	411771.25	3722513.17	1.00403
411748.66	3722424.79	1.08506	411726.07	3722336.41	1.15844
411703.49	3722248.04	1.21587	411680.90	3722159.66	1.24698
411699.45	3721997.22	1.34895	411740.60	3721923.16	1.45175
411931.17	3721697.36	2.07433	412000.63	3721678.92	2.63447
412121.15	3721578.56	3.97564	412206.33	3721425.01	4.03996
412244.84	3720939.15	0.75698			

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: RES3 **
INCLUDING SOURCE(S): RES3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412489.85	3722582.17	3.61439	412553.28	3722330.87	20.96474
412524.37	3722386.27	8.94768	412497.88	3722433.64	6.90393
412475.40	3722481.01	5.13279	412467.37	3722520.35	4.27903
412594.22	3722278.69	40.27120	412609.48	3722233.72	49.20002
412659.26	3722176.72	47.33531	412731.52	3722032.20	50.76005
412776.48	3721942.28	44.02000	412698.60	3722100.45	49.76112
413165.07	3721124.95	0.21431	412982.01	3721085.61	0.19397
412880.85	3720974.81	0.15766	412180.50	3721337.95	0.73314
412126.66	3721479.63	0.81856	412179.67	3721036.32	0.50504
412246.84	3720839.91	0.36236	412523.33	3720798.43	0.19259
412785.01	3720680.92	0.10174	412827.47	3720655.25	0.09463
412829.44	3720862.62	0.13493	412867.53	3720847.44	0.12548
412868.83	3721078.36	0.19182	413200.67	3721146.03	0.21776
412993.36	3721499.53	0.53807	412898.56	3721458.06	0.52720
412839.32	3721588.41	0.93223	412760.32	3721546.93	0.85828
412651.70	3721745.41	7.25878	412713.91	3721778.00	9.98514
412811.67	3721775.04	4.42790	412824.50	3721806.64	7.81002
412450.25	3722501.81	4.41427	412561.84	3722804.97	2.52540
411744.21	3722808.92	0.89962	411738.29	3722781.27	0.91008
411839.01	3722778.30	1.02969	411658.31	3722071.28	0.67969
411781.74	3721849.10	0.63145	411839.01	3721823.42	0.67956
411878.51	3721756.28	0.68702	411861.72	3721715.79	0.64014
412070.08	3721660.49	0.89583	412172.22	3721496.62	0.90403
412240.44	3721353.39	0.80314	412254.01	3721277.35	0.72591
412249.37	3721236.78	0.68098	412248.99	3721170.97	0.61708
412257.01	3721138.64	0.58784	412256.89	3721096.95	0.54942
412242.84	3721038.39	0.50096	412339.00	3720826.08	0.30910
412431.17	3720812.26	0.25086	412610.56	3720759.26	0.14878

412697.78	3720720.09	0.11954	412828.13	3720724.37	0.10739
412828.78	3720793.50	0.12168	412867.96	3720924.41	0.14528
412868.40	3721001.39	0.16642	412951.79	3721095.28	0.19648
413034.75	3721112.20	0.20895	413117.71	3721129.11	0.21835
413159.21	3721216.73	0.25112	413117.75	3721287.43	0.29383
413076.28	3721358.13	0.35065	413034.82	3721428.83	0.42969
412945.96	3721478.80	0.54469	412868.94	3721523.24	0.68340
412724.11	3721613.09	1.39249	412687.91	3721679.25	2.76734
412777.72	3721893.54	45.79002	412730.94	3721980.43	60.91005
412684.16	3722067.33	62.38636	412637.38	3722154.23	59.81222
412590.59	3722241.12	52.42327	412543.81	3722328.02	20.82868
412497.03	3722414.91	7.59311	412478.15	3722577.60	3.50300

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: RES3 **
INCLUDING SOURCE(S): RES3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412506.05	3722653.39	3.17029	412533.94	3722729.18	2.87913
412470.99	3722805.41	1.71915	412380.14	3722805.85	1.42381
412289.30	3722806.29	1.33703	412198.45	3722806.73	1.30725
412107.60	3722807.16	1.26334	412016.75	3722807.60	1.19372
411925.91	3722808.04	1.10164	411835.06	3722808.48	0.99973
411788.65	3722779.79	0.96713	411816.42	3722689.92	1.07125
411793.84	3722601.55	1.10229	411771.25	3722513.17	1.11343
411748.66	3722424.79	1.08453	411726.07	3722336.41	1.01307
411703.49	3722248.04	0.90785	411680.90	3722159.66	0.79049
411699.45	3721997.22	0.66256	411740.60	3721923.16	0.64501
411931.17	3721697.36	0.71142	412000.63	3721678.92	0.79322
412121.15	3721578.56	0.90272	412206.33	3721425.01	0.85749
412244.84	3720939.15	0.42923			

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: RES4 **
INCLUDING SOURCE(S): RES4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412489.85	3722582.17	0.64118	412553.28	3722330.87	0.91149
412524.37	3722386.27	0.81011	412497.88	3722433.64	0.79372
412475.40	3722481.01	0.74280	412467.37	3722520.35	0.70175
412594.22	3722278.69	1.00230	412609.48	3722233.72	1.08157
412659.26	3722176.72	1.19761	412731.52	3722032.20	1.59294
412776.48	3721942.28	1.95911	412698.60	3722100.45	1.38368
413165.07	3721124.95	6.47303	412982.01	3721085.61	10.11251
412880.85	3720974.81	3.83947	412180.50	3721337.95	0.79039
412126.66	3721479.63	0.85850	412179.67	3721036.32	0.52245
412246.84	3720839.91	0.51813	412523.33	3720798.43	0.81284
412785.01	3720680.92	1.13520	412827.47	3720655.25	1.06829
412829.44	3720862.62	2.15891	412867.53	3720847.44	2.13158
412868.83	3721078.36	5.41934	413200.67	3721146.03	7.37409

412993.36	3721499.53	11.35291	412898.56	3721458.06	11.20101
412839.32	3721588.41	5.88755	412760.32	3721546.93	5.59155
412651.70	3721745.41	2.85768	412713.91	3721778.00	2.85797
412811.67	3721775.04	3.06529	412824.50	3721806.64	2.81616
412450.25	3722501.81	0.72063	412561.84	3722804.97	0.49453
411744.21	3722808.92	0.39616	411738.29	3722781.27	0.40152
411839.01	3722778.30	0.42115	411658.31	3722071.28	0.51591
411781.74	3721849.10	0.61001	411839.01	3721823.42	0.65125
411878.51	3721756.28	0.68516	411861.72	3721715.79	0.66004
412070.08	3721660.49	0.88850	412172.22	3721496.62	0.94696
412240.44	3721353.39	0.90357	412254.01	3721277.35	0.82256
412249.37	3721236.78	0.76452	412248.99	3721170.97	0.69079
412257.01	3721138.64	0.66818	412256.89	3721096.95	0.63024
412242.84	3721038.39	0.57341	412339.00	3720826.08	0.61188
412431.17	3720812.26	0.72778	412610.56	3720759.26	0.86529
412697.78	3720720.09	1.01672	412828.13	3720724.37	1.37437
412828.78	3720793.50	1.78284	412867.96	3720924.41	2.99506
412868.40	3721001.39	4.04346	412951.79	3721095.28	9.26808
413034.75	3721112.20	14.36395	413117.71	3721129.11	9.08899
413159.21	3721216.73	66.70749	413117.75	3721287.43	214.27866
413076.28	3721358.13	104.87805	413034.82	3721428.83	26.76144
412945.96	3721478.80	11.41005	412868.94	3721523.24	8.08051
412724.11	3721613.09	4.34803	412687.91	3721679.25	3.48375
412777.72	3721893.54	2.20058	412730.94	3721980.43	1.77794
412684.16	3722067.33	1.47255	412637.38	3722154.23	1.24350
412590.59	3722241.12	1.06653	412543.81	3722328.02	0.91861
412497.03	3722414.91	0.81392	412478.15	3722577.60	0.64320

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: RES4 **
INCLUDING SOURCE(S): RES4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412506.05	3722653.39	0.59156	412533.94	3722729.18	0.54418
412470.99	3722805.41	0.45637	412380.14	3722805.85	0.44959
412289.30	3722806.29	0.44926	412198.45	3722806.73	0.44658
412107.60	3722807.16	0.44166	412016.75	3722807.60	0.43485
411925.91	3722808.04	0.42492	411835.06	3722808.48	0.41193
411788.65	3722779.79	0.41132	411816.42	3722689.92	0.44133
411793.84	3722601.55	0.45770	411771.25	3722513.17	0.46944
411748.66	3722424.79	0.47608	411726.07	3722336.41	0.48235
411703.49	3722248.04	0.49086	411680.90	3722159.66	0.50323
411699.45	3721997.22	0.55005	411740.60	3721923.16	0.58235
411931.17	3721697.36	0.72420	412000.63	3721678.92	0.79889
412121.15	3721578.56	0.92033	412206.33	3721425.01	0.93281
412244.84	3720939.15	0.53641			

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HOTEL **
INCLUDING SOURCE(S): HOTEL ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412489.85	3722582.17	0.72551	412553.28	3722330.87	1.03030
412524.37	3722386.27	0.97450	412497.88	3722433.64	0.79731
412475.40	3722481.01	0.74267	412467.37	3722520.35	0.72313
412594.22	3722278.69	1.12600	412609.48	3722233.72	1.20554
412659.26	3722176.72	1.39774	412731.52	3722032.20	1.94612
412776.48	3721942.28	2.44033	412698.60	3722100.45	1.65495
413165.07	3721124.95	3.10810	412982.01	3721085.61	6.93431
412880.85	3720974.81	7.49762	412180.50	3721337.95	3.60673
412126.66	3721479.63	2.48248	412179.67	3721036.32	4.07357
412246.84	3720839.91	3.10460	412523.33	3720798.43	5.64297
412785.01	3720680.92	1.12284	412827.47	3720655.25	0.92477
412829.44	3720862.62	3.84997	412867.53	3720847.44	3.19639
412868.83	3721078.36	14.31849	413200.67	3721146.03	2.88415
412993.36	3721499.53	7.05689	412898.56	3721458.06	8.51147
412839.32	3721588.41	5.77860	412760.32	3721546.93	6.08499
412651.70	3721745.41	2.95192	412713.91	3721778.00	3.09203
412811.67	3721775.04	3.60258	412824.50	3721806.64	3.41545
412450.25	3722501.81	0.70490	412561.84	3722804.97	0.65474
411744.21	3722808.92	0.37549	411738.29	3722781.27	0.38498
411839.01	3722778.30	0.38596	411658.31	3722071.28	0.75987
411781.74	3721849.10	1.02397	411839.01	3721823.42	1.10322
411878.51	3721756.28	1.24607	411861.72	3721715.79	1.28080
412070.08	3721660.49	1.69144	412172.22	3721496.62	2.48684
412240.44	3721353.39	3.81203	412254.01	3721277.35	4.77244
412249.37	3721236.78	5.24353	412248.99	3721170.97	6.06539
412257.01	3721138.64	6.62330	412256.89	3721096.95	6.79052
412242.84	3721038.39	5.73917	412339.00	3720826.08	4.74509
412431.17	3720812.26	5.45159	412610.56	3720759.26	3.86922
412697.78	3720720.09	1.80596	412828.13	3720724.37	1.42136
412828.78	3720793.50	2.26382	412867.96	3720924.41	5.37430
412868.40	3721001.39	10.27424	412951.79	3721095.28	8.71740
413034.75	3721112.20	5.38188	413117.71	3721129.11	3.73615
413159.21	3721216.73	3.71969	413117.75	3721287.43	4.62161
413076.28	3721358.13	5.42959	413034.82	3721428.83	6.09767
412945.96	3721478.80	7.65537	412868.94	3721523.24	6.74562
412724.11	3721613.09	4.79107	412687.91	3721679.25	3.75813
412777.72	3721893.54	2.67662	412730.94	3721980.43	2.12101
412684.16	3722067.33	1.70226	412637.38	3722154.23	1.39878
412590.59	3722241.12	1.15811	412543.81	3722328.02	1.00736
412497.03	3722414.91	0.81881	412478.15	3722577.60	0.71847

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HOTEL **
INCLUDING SOURCE(S): HOTEL ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412506.05	3722653.39	0.68804	412533.94	3722729.18	0.66040
412470.99	3722805.41	0.58974	412380.14	3722805.85	0.52019
412289.30	3722806.29	0.46521	412198.45	3722806.73	0.42318
412107.60	3722807.16	0.39577	412016.75	3722807.60	0.38173
411925.91	3722808.04	0.37645	411835.06	3722808.48	0.37549
411788.65	3722779.79	0.38530	411816.42	3722689.92	0.41944
411793.84	3722601.55	0.45723	411771.25	3722513.17	0.49956
411748.66	3722424.79	0.54572	411726.07	3722336.41	0.59683
411703.49	3722248.04	0.65121	411680.90	3722159.66	0.70672
411699.45	3721997.22	0.83670	411740.60	3721923.16	0.92435
411931.17	3721697.36	1.40966	412000.63	3721678.92	1.54616
412121.15	3721578.56	2.00533	412206.33	3721425.01	3.03948

412244.84 3720939.15 4.22296

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS2 **
INCLUDING SOURCE(S): TRUCKS2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412489.85	3722582.17	1.96106	412553.28	3722330.87	2.91238
412524.37	3722386.27	3.08693	412497.88	3722433.64	2.14631
412475.40	3722481.01	1.98989	412467.37	3722520.35	1.94957
412594.22	3722278.69	2.86843	412609.48	3722233.72	2.97057
412659.26	3722176.72	3.03412	412731.52	3722032.20	3.02566
412776.48	3721942.28	2.81567	412698.60	3722100.45	3.07391
413165.07	3721124.95	0.30087	412982.01	3721085.61	0.35788
412880.85	3720974.81	0.28971	412180.50	3721337.95	18.61801
412126.66	3721479.63	19.59456	412179.67	3721036.32	4.88218
412246.84	3720839.91	0.99061	412523.33	3720798.43	0.47294
412785.01	3720680.92	0.27092	412827.47	3720655.25	0.24711
412829.44	3720862.62	0.27112	412867.53	3720847.44	0.27335
412868.83	3721078.36	0.39920	413200.67	3721146.03	0.30702
412993.36	3721499.53	1.25259	412898.56	3721458.06	1.40551
412839.32	3721588.41	1.94610	412760.32	3721546.93	2.34430
412651.70	3721745.41	3.93662	412713.91	3721778.00	3.28642
412811.67	3721775.04	2.50687	412824.50	3721806.64	2.45987
412450.25	3722501.81	1.90519	412561.84	3722804.97	1.54133
411744.21	3722808.92	0.64336	411738.29	3722781.27	0.66501
411839.01	3722778.30	0.69876	411658.31	3722071.28	2.06755
411781.74	3721849.10	3.91150	411839.01	3721823.42	5.00168
411878.51	3721756.28	6.47256	411861.72	3721715.79	5.84474
412070.08	3721660.49	30.67608	412172.22	3721496.62	30.43933
412240.44	3721353.39	32.77742	412254.01	3721277.35	38.15208
412249.37	3721236.78	33.67165	412248.99	3721170.97	27.10549
412257.01	3721138.64	24.11049	412256.89	3721096.95	17.82534
412242.84	3721038.39	6.82588	412339.00	3720826.08	0.59982
412431.17	3720812.26	0.49865	412610.56	3720759.26	0.39096
412697.78	3720720.09	0.32363	412828.13	3720724.37	0.25811
412828.78	3720793.50	0.25010	412867.96	3720924.41	0.27674
412868.40	3721001.39	0.31054	412951.79	3721095.28	0.39022
413034.75	3721112.20	0.35169	413117.71	3721129.11	0.32239
413159.21	3721216.73	0.39633	413117.75	3721287.43	0.51334
413076.28	3721358.13	0.66482	413034.82	3721428.83	0.86303
412945.96	3721478.80	1.29372	412868.94	3721523.24	1.59468
412724.11	3721613.09	2.87934	412687.91	3721679.25	3.43579
412777.72	3721893.54	2.80648	412730.94	3721980.43	3.08331
412684.16	3722067.33	3.21614	412637.38	3722154.23	3.18911
412590.59	3722241.12	2.96465	412543.81	3722328.02	2.84377
412497.03	3722414.91	2.25045	412478.15	3722577.60	1.97892

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS2 **
INCLUDING SOURCE(S): TRUCKS2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412506.05	3722653.39	1.71319	412533.94	3722729.18	1.51890
412470.99	3722805.41	1.64844	412380.14	3722805.85	1.51222
412289.30	3722806.29	1.33712	412198.45	3722806.73	1.16528
412107.60	3722807.16	1.00241	412016.75	3722807.60	0.85618
411925.91	3722808.04	0.74235	411835.06	3722808.48	0.67276
411788.65	3722779.79	0.67675	411816.42	3722689.92	0.76818
411793.84	3722601.55	0.86057	411771.25	3722513.17	0.98294
411748.66	3722424.79	1.14113	411726.07	3722336.41	1.33955
411703.49	3722248.04	1.57752	411680.90	3722159.66	1.83425
411699.45	3721997.22	2.50243	411740.60	3721923.16	3.09780
411931.17	3721697.36	8.73883	412000.63	3721678.92	15.82278
412121.15	3721578.56	29.33282	412206.33	3721425.01	30.03045
412244.84	3720939.15	2.07868			

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS_F **
INCLUDING SOURCE(S): TRUCKS_F,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412489.85	3722582.17	2.06340	412553.28	3722330.87	3.13390
412524.37	3722386.27	3.25940	412497.88	3722433.64	2.26370
412475.40	3722481.01	2.11398	412467.37	3722520.35	2.07306
412594.22	3722278.69	3.10902	412609.48	3722233.72	3.22629
412659.26	3722176.72	3.27964	412731.52	3722032.20	3.27027
412776.48	3721942.28	3.01091	412698.60	3722100.45	3.33274
413165.07	3721124.95	0.30464	412982.01	3721085.61	0.36094
412880.85	3720974.81	0.29512	412180.50	3721337.95	22.26315
412126.66	3721479.63	23.89424	412179.67	3721036.32	5.43031
412246.84	3720839.91	0.87330	412523.33	3720798.43	0.50317
412785.01	3720680.92	0.29363	412827.47	3720655.25	0.26354
412829.44	3720862.62	0.26744	412867.53	3720847.44	0.26629
412868.83	3721078.36	0.40332	413200.67	3721146.03	0.31051
412993.36	3721499.53	1.30111	412898.56	3721458.06	1.46600
412839.32	3721588.41	2.05152	412760.32	3721546.93	2.48136
412651.70	3721745.41	4.25840	412713.91	3721778.00	3.51672
412811.67	3721775.04	2.66809	412824.50	3721806.64	2.61697
412450.25	3722501.81	2.03191	412561.84	3722804.97	1.57653
411744.21	3722808.92	0.61484	411738.29	3722781.27	0.64168
411839.01	3722778.30	0.61592	411658.31	3722071.28	2.16602
411781.74	3721849.10	4.13379	411839.01	3721823.42	5.34019
411878.51	3721756.28	6.97528	411861.72	3721715.79	6.16431
412070.08	3721660.49	60.03980	412172.22	3721496.62	84.11481
412240.44	3721353.39	102.80673	412254.01	3721277.35	142.15517
412249.37	3721236.78	101.80007	412248.99	3721170.97	77.79172
412257.01	3721138.64	72.25835	412256.89	3721096.95	38.98386
412242.84	3721038.39	8.73107	412339.00	3720826.08	0.53420
412431.17	3720812.26	0.47510	412610.56	3720759.26	0.42039
412697.78	3720720.09	0.35716	412828.13	3720724.37	0.26839
412828.78	3720793.50	0.25401	412867.96	3720924.41	0.28313
412868.40	3721001.39	0.31157	412951.79	3721095.28	0.39498
413034.75	3721112.20	0.35532	413117.71	3721129.11	0.32620
413159.21	3721216.73	0.40203	413117.75	3721287.43	0.52808
413076.28	3721358.13	0.69059	413034.82	3721428.83	0.89535
412945.96	3721478.80	1.34642	412868.94	3721523.24	1.65320
412724.11	3721613.09	3.05922	412687.91	3721679.25	3.69008
412777.72	3721893.54	2.99243	412730.94	3721980.43	3.32721
412684.16	3722067.33	3.48763	412637.38	3722154.23	3.44921

412590.59	3722241.12	3.21903	412543.81	3722328.02	3.05297
412497.03	3722414.91	2.37619	412478.15	3722577.60	2.08303

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS_F **
INCLUDING SOURCE(S): TRUCKS_F,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412506.05	3722653.39	1.79190	412533.94	3722729.18	1.57560
412470.99	3722805.41	1.63816	412380.14	3722805.85	1.45995
412289.30	3722806.29	1.29882	412198.45	3722806.73	1.17928
412107.60	3722807.16	1.00285	412016.75	3722807.60	0.78070
411925.91	3722808.04	0.61722	411835.06	3722808.48	0.59142
411788.65	3722779.79	0.62771	411816.42	3722689.92	0.70798
411793.84	3722601.55	0.82694	411771.25	3722513.17	0.97440
411748.66	3722424.79	1.12652	411726.07	3722336.41	1.31771
411703.49	3722248.04	1.61237	411680.90	3722159.66	1.90211
411699.45	3721997.22	2.59783	411740.60	3721923.16	3.19571
411931.17	3721697.36	9.45389	412000.63	3721678.92	18.95278
412121.15	3721578.56	60.05045	412206.33	3721425.01	87.23323
412244.84	3720939.15	2.10949			

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
INCLUDING SOURCE(S): WNOC , NBOPS , RES1 , RES2 , RES3 , RES4
TRUCKS2 , TRUCKS_F,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412489.85	3722582.17	17.33007	412553.28	3722330.87	41.77180
412524.37	3722386.27	29.72367	412497.88	3722433.64	22.81788
412475.40	3722481.01	19.78843	412467.37	3722520.35	18.38174
412594.22	3722278.69	61.84902	412609.48	3722233.72	72.16959
412659.26	3722176.72	71.97629	412731.52	3722032.20	79.33751
412776.48	3721942.28	73.04004	412698.60	3722100.45	76.81088
413165.07	3721124.95	15.14281	412982.01	3721085.61	26.70750
412880.85	3720974.81	17.44312	412180.50	3721337.95	56.94428
412126.66	3721479.63	57.13940	412179.67	3721036.32	43.23063
412246.84	3720839.91	31.05526	412523.33	3720798.43	12.91120
412785.01	3720680.92	4.80956	412827.47	3720655.25	4.17668
412829.44	3720862.62	10.20649	412867.53	3720847.44	8.93246
412868.83	3721078.36	41.36799	413200.67	3721146.03	15.78037
412993.36	3721499.53	48.38969	412898.56	3721458.06	55.92928
412839.32	3721588.41	36.09422	412760.32	3721546.93	43.25512
412651.70	3721745.41	57.80365	412713.91	3721778.00	49.12081
412811.67	3721775.04	35.33899	412824.50	3721806.64	37.25530
412450.25	3722501.81	18.43738	412561.84	3722804.97	13.07662
411744.21	3722808.92	5.66743	411738.29	3722781.27	5.83908
411839.01	3722778.30	6.12317	411658.31	3722071.28	12.92331
411781.74	3721849.10	19.05664	411839.01	3721823.42	23.63572
411878.51	3721756.28	27.26888	411861.72	3721715.79	24.05988

412070.08	3721660.49	105.81930	412172.22	3721496.62	129.67213
412240.44	3721353.39	154.36672	412254.01	3721277.35	202.11668
412249.37	3721236.78	159.04232	412248.99	3721170.97	134.57502
412257.01	3721138.64	133.24780	412256.89	3721096.95	106.38441
412242.84	3721038.39	78.48232	412339.00	3720826.08	24.15462
412431.17	3720812.26	14.63958	412610.56	3720759.26	9.42451
412697.78	3720720.09	6.34487	412828.13	3720724.37	5.41231
412828.78	3720793.50	7.22190	412867.96	3720924.41	13.36274
412868.40	3721001.39	22.28199	412951.79	3721095.28	30.99061
413034.75	3721112.20	28.51038	413117.71	3721129.11	19.48545
413159.21	3721216.73	79.25866	413117.75	3721287.43	233.11371
413076.28	3721358.13	131.44635	413034.82	3721428.83	59.43622
412945.96	3721478.80	52.47016	412868.94	3721523.24	39.62576
412724.11	3721613.09	48.73388	412687.91	3721679.25	52.27353
412777.72	3721893.54	75.67242	412730.94	3721980.43	91.31607
412684.16	3722067.33	91.47410	412637.38	3722154.23	85.82364
412590.59	3722241.12	75.18583	412543.81	3722328.02	41.41005
412497.03	3722414.91	24.22158	412478.15	3722577.60	17.32543

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE PERIOD (8784 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL **
INCLUDING SOURCE(S): WNOC , NBOPS , RES1 , RES2 , RES3 , RES4
TRUCKS2 , TRUCKS_F,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
412506.05	3722653.39	15.25491	412533.94	3722729.18	13.63747
412470.99	3722805.41	12.44219	412380.14	3722805.85	11.16548
412289.30	3722806.29	10.00883	412198.45	3722806.73	8.96503
412107.60	3722807.16	7.95610	412016.75	3722807.60	7.03143
411925.91	3722808.04	6.31423	411835.06	3722808.48	5.89798
411788.65	3722779.79	5.96005	411816.42	3722689.92	6.73778
411793.84	3722601.55	7.47687	411771.25	3722513.17	8.34913
411748.66	3722424.79	9.31013	411726.07	3722336.41	10.37213
411703.49	3722248.04	11.50724	411680.90	3722159.66	12.44855
411699.45	3721997.22	14.72771	411740.60	3721923.16	16.73699
411931.17	3721697.36	33.05950	412000.63	3721678.92	50.32458
412121.15	3721578.56	103.57851	412206.33	3721425.01	133.69479
412244.84	3720939.15	69.35837			

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: WNOC *
INCLUDING SOURCE(S): WNOC ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412489.85	3722582.17	83.44674	(08090606)	412553.28	3722330.87	134.91510	(08102
412524.37	3722386.27	133.63606	(08102923)	412497.88	3722433.64	110.21568	(08090
412475.40	3722481.01	101.99688	(08090606)	412467.37	3722520.35	93.01289	(08090
412594.22	3722278.69	152.42225	(08030620)	412609.48	3722233.72	146.88646	(08030
412659.26	3722176.72	78.49779	(08062921)	412731.52	3722032.20	93.71839	(08071
412776.48	3721942.28	64.25708	(08081724)	412698.60	3722100.45	100.09173	(08071

413165.07	3721124.95	32.86771	(08091320)	412982.01	3721085.61	36.61895	(08050
412880.85	3720974.81	36.08848	(08052522)	412180.50	3721337.95	83.05973	(08011
412126.66	3721479.63	112.91598	(08052723)	412179.67	3721036.32	53.09026	(08091
412246.84	3720839.91	41.57685	(08052723)	412523.33	3720798.43	35.73701	(08091
412785.01	3720680.92	30.15374	(08091324)	412827.47	3720655.25	29.09578	(08091
412829.44	3720862.62	38.29748	(08011318)	412867.53	3720847.44	38.06261	(08011
412868.83	3721078.36	35.78588	(08053123)	413200.67	3721146.03	31.94093	(08091
412993.36	3721499.53	49.26459	(08062823)	412898.56	3721458.06	49.13539	(08062
412839.32	3721588.41	48.83779	(08012822)	412760.32	3721546.93	48.86246	(08062
412651.70	3721745.41	81.68484	(08071405)	412713.91	3721778.00	70.33166	(08071
412811.67	3721775.04	59.36364	(08071405)	412824.50	3721806.64	54.84678	(08103
412450.25	3722501.81	92.06108	(08090606)	412561.84	3722804.97	50.81920	(08021
411744.21	3722808.92	46.79759	(08090822)	411738.29	3722781.27	48.01211	(08090
411839.01	3722778.30	50.27300	(08010908)	411658.31	3722071.28	112.21146	(08122
411781.74	3721849.10	192.19588	(08120101)	411839.01	3721823.42	235.87508	(08011
411878.51	3721756.28	318.07585	(08021501)	411861.72	3721715.79	347.95393	(08021
412070.08	3721660.49	201.91366	(08052723)	412172.22	3721496.62	114.25467	(08042
412240.44	3721353.39	82.15607	(08042705)	412254.01	3721277.35	72.50531	(08042
412249.37	3721236.78	68.34289	(08082404)	412248.99	3721170.97	62.69765	(08011
412257.01	3721138.64	59.81715	(08011321)	412256.89	3721096.95	56.67790	(08011
412242.84	3721038.39	51.92534	(08011321)	412339.00	3720826.08	40.45264	(08011
412431.17	3720812.26	41.64017	(08091403)	412610.56	3720759.26	38.38992	(08030
412697.78	3720720.09	32.31393	(08040301)	412828.13	3720724.37	35.14819	(08121
412828.78	3720793.50	37.07495	(08100206)	412867.96	3720924.41	35.56098	(08052
412868.40	3721001.39	36.31389	(08042623)	412951.79	3721095.28	37.49064	(08050
413034.75	3721112.20	34.39236	(08111418)	413117.71	3721129.11	32.67098	(08091
413159.21	3721216.73	34.11385	(08062822)	413117.75	3721287.43	36.20439	(08121
413076.28	3721358.13	38.51228	(08062901)	413034.82	3721428.83	39.82694	(08062
412945.96	3721478.80	47.69967	(08062823)	412868.94	3721523.24	46.52783	(08062
412724.11	3721613.09	52.28213	(08062823)	412687.91	3721679.25	66.71441	(08071
412777.72	3721893.54	61.69437	(08090924)	412730.94	3721980.43	87.97520	(08071
412684.16	3722067.33	103.19704	(08071401)	412637.38	3722154.23	80.45571	(08062
412590.59	3722241.12	159.35343	(08030620)	412543.81	3722328.02	135.72185	(08102
412497.03	3722414.91	113.71950	(08090606)	412478.15	3722577.60	80.78676	(08090

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: WNOC *
INCLUDING SOURCE(S): WNOC ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412506.05	3722653.39	63.24829	(08090606)	412533.94	3722729.18	48.72961	(08090
412470.99	3722805.41	77.45032	(08053104)	412380.14	3722805.85	89.11069	(08053
412289.30	3722806.29	73.07917	(08053104)	412198.45	3722806.73	52.76662	(08120
412107.60	3722807.16	51.70457	(08053102)	412016.75	3722807.60	60.11803	(08053
411925.91	3722808.04	58.70591	(08071304)	411835.06	3722808.48	48.54912	(08010
411788.65	3722779.79	49.20446	(08012208)	411816.42	3722689.92	55.08160	(08012
411793.84	3722601.55	60.71853	(08081606)	411771.25	3722513.17	68.10576	(08120
411748.66	3722424.79	75.41340	(08021907)	411726.07	3722336.41	84.56363	(08022
411703.49	3722248.04	94.08758	(08121305)	411680.90	3722159.66	103.16044	(08021
411699.45	3721997.22	132.80361	(08022904)	411740.60	3721923.16	157.55180	(08120
411931.17	3721697.36	445.13446	(08021501)	412000.63	3721678.92	260.33172	(08022
412121.15	3721578.56	146.54922	(08011321)	412206.33	3721425.01	96.07413	(08042
412244.84	3720939.15	46.25264	(08052723)				

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: NBOPS *
INCLUDING SOURCE(S): NBOPS ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412489.85	3722582.17	42.57749	(08120624)	412553.28	3722330.87	46.77917	(08031
412524.37	3722386.27	49.48845	(08121119)	412497.88	3722433.64	43.69228	(08120
412475.40	3722481.01	42.80922	(08120624)	412467.37	3722520.35	41.83005	(08120
412594.22	3722278.69	44.35975	(08031823)	412609.48	3722233.72	60.16756	(08053
412659.26	3722176.72	90.27526	(08053104)	412731.52	3722032.20	59.07884	(08053
412776.48	3721942.28	52.98487	(08021122)	412698.60	3722100.45	87.55610	(08053
413165.07	3721124.95	68.28895	(08071403)	412982.01	3721085.61	83.93298	(08071
412880.85	3720974.81	69.56511	(08051522)	412180.50	3721337.95	191.86917	(08012
412126.66	3721479.63	126.93136	(08012208)	412179.67	3721036.32	398.98107	(08021
412246.84	3720839.91	847.66129	(08021501)	412523.33	3720798.43	260.58948	(08121
412785.01	3720680.92	111.11707	(08062901)	412827.47	3720655.25	100.40040	(08121
412829.44	3720862.62	95.37132	(08071405)	412867.53	3720847.44	103.40897	(08071
412868.83	3721078.36	89.47043	(08071402)	413200.67	3721146.03	65.25339	(08071
412993.36	3721499.53	115.60421	(08030620)	412898.56	3721458.06	134.60289	(08030
412839.32	3721588.41	124.04800	(08102923)	412760.32	3721546.93	132.01897	(08102
412651.70	3721745.41	64.69623	(08041323)	412713.91	3721778.00	61.66182	(08021
412811.67	3721775.04	98.58746	(08090606)	412824.50	3721806.64	91.69230	(08090
412450.25	3722501.81	40.81407	(08063002)	412561.84	3722804.97	36.95891	(08121
411744.21	3722808.92	23.93308	(08010908)	411738.29	3722781.27	24.16602	(08012
411839.01	3722778.30	24.44583	(08081202)	411658.31	3722071.28	41.27049	(08021
411781.74	3721849.10	55.27974	(08021907)	411839.01	3721823.42	57.73075	(08040
411878.51	3721756.28	64.49356	(08040603)	411861.72	3721715.79	68.42155	(08021
412070.08	3721660.49	86.37901	(08012208)	412172.22	3721496.62	135.95124	(08071
412240.44	3721353.39	237.14909	(08071304)	412254.01	3721277.35	312.25422	(08071
412249.37	3721236.78	364.93457	(08071304)	412248.99	3721170.97	468.50270	(08071
412257.01	3721138.64	580.07801	(08071304)	412256.89	3721096.95	685.63259	(08071
412242.84	3721038.39	674.01297	(08031123)	412339.00	3720826.08	808.93258	(08042
412431.17	3720812.26	375.24251	(08050722)	412610.56	3720759.26	194.90615	(08121
412697.78	3720720.09	139.96238	(08121322)	412828.13	3720724.37	115.07309	(08012
412828.78	3720793.50	127.07381	(08071405)	412867.96	3720924.41	77.60387	(08090
412868.40	3721001.39	80.29199	(08071403)	412951.79	3721095.28	84.86421	(08071
413034.75	3721112.20	75.74073	(08071403)	413117.71	3721129.11	69.17500	(08071
413159.21	3721216.73	64.86204	(08071401)	413117.75	3721287.43	59.35725	(08071
413076.28	3721358.13	51.06026	(08112921)	413034.82	3721428.83	54.57925	(08081
412945.96	3721478.80	125.38164	(08030620)	412868.94	3721523.24	93.17769	(08030
412724.11	3721613.09	130.39192	(08090606)	412687.91	3721679.25	67.47285	(08090
412777.72	3721893.54	54.49068	(08021122)	412730.94	3721980.43	52.89311	(08010
412684.16	3722067.33	91.97465	(08053104)	412637.38	3722154.23	88.62335	(08053
412590.59	3722241.12	48.40107	(08053104)	412543.81	3722328.02	46.26542	(08032
412497.03	3722414.91	44.61257	(08120624)	412478.15	3722577.60	42.16518	(08120

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: NBOPS *
INCLUDING SOURCE(S): NBOPS ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412506.05	3722653.39	40.33750	(08120624)	412533.94	3722729.18	37.77512	(08120
412470.99	3722805.41	30.92904	(08063002)	412380.14	3722805.85	24.79580	(08031
412289.30	3722806.29	25.39138	(08121120)	412198.45	3722806.73	29.79905	(08053
412107.60	3722807.16	30.63443	(08053102)	412016.75	3722807.60	30.75128	(08071
411925.91	3722808.04	27.77866	(08071304)	411835.06	3722808.48	23.86768	(08081

411788.65	3722779.79	24.73722	(08010908)	411816.42	3722689.92	26.47183	(08010
411793.84	3722601.55	27.79687	(08012208)	411771.25	3722513.17	29.69018	(08012
411748.66	3722424.79	31.38610	(08090822)	411726.07	3722336.41	33.56409	(08081
411703.49	3722248.04	35.79041	(08031307)	411680.90	3722159.66	38.16036	(08120
411699.45	3721997.22	45.18504	(08021907)	411740.60	3721923.16	49.79128	(08021
411931.17	3721697.36	74.02074	(08120819)	412000.63	3721678.92	79.34236	(08081
412121.15	3721578.56	103.73265	(08010908)	412206.33	3721425.01	182.10501	(08071
412244.84	3720939.15	689.43134	(08021501)				

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: RES1 *
INCLUDING SOURCE(S): RES1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412489.85	3722582.17	31.19500	(08071304)	412553.28	3722330.87	38.93487	(08071
412524.37	3722386.27	35.69574	(08071304)	412497.88	3722433.64	34.81706	(08081
412475.40	3722481.01	33.36840	(08081202)	412467.37	3722520.35	31.70906	(08081
412594.22	3722278.69	45.14652	(08071304)	412609.48	3722233.72	47.56024	(08071
412659.26	3722176.72	53.77910	(08071304)	412731.52	3722032.20	63.58409	(08071
412776.48	3721942.28	74.44642	(08053102)	412698.60	3722100.45	59.34609	(08071
413165.07	3721124.95	114.47659	(08090923)	412982.01	3721085.61	160.94617	(08071
412880.85	3720974.81	147.15473	(08121322)	412180.50	3721337.95	59.14667	(08122
412126.66	3721479.63	47.37473	(08120321)	412179.67	3721036.32	82.90718	(08121
412246.84	3720839.91	122.78145	(08021501)	412523.33	3720798.43	98.29316	(08122
412785.01	3720680.92	73.49824	(08022622)	412827.47	3720655.25	67.93266	(08022
412829.44	3720862.62	126.83393	(08022622)	412867.53	3720847.44	103.74002	(08091
412868.83	3721078.36	226.73411	(08071405)	413200.67	3721146.03	112.09879	(08092
412993.36	3721499.53	244.76114	(08090606)	412898.56	3721458.06	329.10409	(08053
412839.32	3721588.41	134.02601	(08053102)	412760.32	3721546.93	118.22709	(08071
412651.70	3721745.41	69.77731	(08021622)	412713.91	3721778.00	79.50862	(08071
412811.67	3721775.04	94.30781	(08053102)	412824.50	3721806.64	86.90589	(08053
412450.25	3722501.81	32.50886	(08010908)	412561.84	3722804.97	29.57820	(08071
411744.21	3722808.92	18.67241	(08120323)	411738.29	3722781.27	18.96425	(08120
411839.01	3722778.30	19.82301	(08021907)	411658.31	3722071.28	25.40400	(08082
411781.74	3721849.10	30.12320	(08010401)	411839.01	3721823.42	31.37886	(08010
411878.51	3721756.28	33.49414	(08021707)	411861.72	3721715.79	33.83755	(08012
412070.08	3721660.49	39.06667	(08010401)	412172.22	3721496.62	46.49602	(08021
412240.44	3721353.39	60.27939	(08120321)	412254.01	3721277.35	68.70888	(08011
412249.37	3721236.78	74.29737	(08012121)	412248.99	3721170.97	83.34388	(08120
412257.01	3721138.64	88.77333	(08012619)	412256.89	3721096.95	93.74645	(08120
412242.84	3721038.39	92.41651	(08121807)	412339.00	3720826.08	153.41299	(08021
412431.17	3720812.26	136.43560	(08021501)	412610.56	3720759.26	94.51486	(08120
412697.78	3720720.09	85.02151	(08022923)	412828.13	3720724.37	83.84723	(08022
412828.78	3720793.50	105.28885	(08022622)	412867.96	3720924.41	129.93717	(08091
412868.40	3721001.39	169.22598	(08071405)	412951.79	3721095.28	178.19943	(08071
413034.75	3721112.20	144.28162	(08090923)	413117.71	3721129.11	125.78521	(08090
413159.21	3721216.73	166.65763	(08071403)	413117.75	3721287.43	171.72514	(08071
413076.28	3721358.13	226.21920	(08030620)	413034.82	3721428.83	231.45767	(08102
412945.96	3721478.80	255.36615	(08053104)	412868.94	3721523.24	164.48722	(08053
412724.11	3721613.09	90.51728	(08051603)	412687.91	3721679.25	78.96413	(08051
412777.72	3721893.54	79.05574	(08053102)	412730.94	3721980.43	68.20621	(08071
412684.16	3722067.33	60.47189	(08071304)	412637.38	3722154.23	52.40706	(08071
412590.59	3722241.12	45.29839	(08071304)	412543.81	3722328.02	38.15338	(08071
412497.03	3722414.91	35.18920	(08081202)	412478.15	3722577.60	30.44127	(08071

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: RES1 *
INCLUDING SOURCE(S): RES1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412506.05	3722653.39	31.25746	(08071304)	412533.94	3722729.18	33.25965	(08071
412470.99	3722805.41	27.18261	(08071304)	412380.14	3722805.85	22.38965	(08081
412289.30	3722806.29	22.02234	(08012208)	412198.45	3722806.73	21.40326	(08051
412107.60	3722807.16	20.98726	(08081606)	412016.75	3722807.60	20.50049	(08120
411925.91	3722808.04	19.75756	(08040603)	411835.06	3722808.48	19.54251	(08021
411788.65	3722779.79	19.14582	(08081605)	411816.42	3722689.92	20.23309	(08120
411793.84	3722601.55	20.82902	(08091005)	411771.25	3722513.17	21.79284	(08022
411748.66	3722424.79	22.33589	(08010719)	411726.07	3722336.41	23.17719	(08121
411703.49	3722248.04	23.93589	(08053105)	411680.90	3722159.66	24.73095	(08010
411699.45	3721997.22	27.05804	(08021906)	411740.60	3721923.16	28.48208	(08010
411931.17	3721697.36	35.50405	(08021707)	412000.63	3721678.92	37.34344	(08010
412121.15	3721578.56	41.97261	(08010401)	412206.33	3721425.01	51.95005	(08052
412244.84	3720939.15	90.66589	(08020424)				

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: RES2 *
INCLUDING SOURCE(S): RES2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412489.85	3722582.17	45.20242	(08031305)	412553.28	3722330.87	79.78926	(08053
412524.37	3722386.27	59.21420	(08053104)	412497.88	3722433.64	54.32710	(08050
412475.40	3722481.01	52.79124	(08053102)	412467.37	3722520.35	51.24510	(08053
412594.22	3722278.69	99.28690	(08053104)	412609.48	3722233.72	110.22563	(08053
412659.26	3722176.72	110.62305	(08053104)	412731.52	3722032.20	109.26198	(08090
412776.48	3721942.28	102.53701	(08102923)	412698.60	3722100.45	112.66278	(08090
413165.07	3721124.95	43.73020	(08091320)	412982.01	3721085.61	51.19949	(08042
412880.85	3720974.81	50.24691	(08091324)	412180.50	3721337.95	88.73109	(08021
412126.66	3721479.63	90.42505	(08021501)	412179.67	3721036.32	52.46869	(08021
412246.84	3720839.91	44.18325	(08022923)	412523.33	3720798.43	41.96693	(08091
412785.01	3720680.92	35.11259	(08091403)	412827.47	3720655.25	33.36956	(08091
412829.44	3720862.62	45.84612	(08040301)	412867.53	3720847.44	43.32679	(08040
412868.83	3721078.36	56.53405	(08011318)	413200.67	3721146.03	43.09671	(08121
412993.36	3721499.53	76.17826	(08071405)	412898.56	3721458.06	93.61583	(08071
412839.32	3721588.41	96.50844	(08071403)	412760.32	3721546.93	133.57915	(08071
412651.70	3721745.41	168.01324	(08102923)	412713.91	3721778.00	131.50009	(08030
412811.67	3721775.04	107.60351	(08030620)	412824.50	3721806.64	103.17670	(08030
412450.25	3722501.81	54.85195	(08053102)	412561.84	3722804.97	37.24223	(08120
411744.21	3722808.92	27.13561	(08021907)	411738.29	3722781.27	27.28121	(08081
411839.01	3722778.30	28.62476	(08091606)	411658.31	3722071.28	37.01571	(08120
411781.74	3721849.10	43.17703	(08011206)	411839.01	3721823.42	46.16510	(08011
411878.51	3721756.28	48.84150	(08012406)	411861.72	3721715.79	47.75472	(08021
412070.08	3721660.49	66.59897	(08120824)	412172.22	3721496.62	100.72271	(08021
412240.44	3721353.39	108.71824	(08021501)	412254.01	3721277.35	111.56811	(08021
412249.37	3721236.78	84.99893	(08021501)	412248.99	3721170.97	67.38964	(08120
412257.01	3721138.64	64.52235	(08012201)	412256.89	3721096.95	60.51463	(08120
412242.84	3721038.39	55.02666	(08120305)	412339.00	3720826.08	44.17167	(08121
412431.17	3720812.26	45.16294	(08022622)	412610.56	3720759.26	40.25520	(08011
412697.78	3720720.09	37.52055	(08042705)	412828.13	3720724.37	38.10684	(08030
412828.78	3720793.50	42.85728	(08030919)	412867.96	3720924.41	48.71035	(08091
412868.40	3721001.39	51.96447	(08091324)	412951.79	3721095.28	53.49365	(08042

413034.75	3721112.20	49.86523	(08050722)	413117.71	3721129.11	45.57800	(08091
413159.21	3721216.73	48.48629	(08121322)	413117.75	3721287.43	52.50494	(08062
413076.28	3721358.13	58.75468	(08071405)	413034.82	3721428.83	72.03832	(08071
412945.96	3721478.80	86.06850	(08071405)	412868.94	3721523.24	98.12362	(08071
412724.11	3721613.09	148.49267	(08030620)	412687.91	3721679.25	166.50341	(08030
412777.72	3721893.54	103.42947	(08102923)	412730.94	3721980.43	110.85990	(08090
412684.16	3722067.33	119.44855	(08090606)	412637.38	3722154.23	120.71414	(08053
412590.59	3722241.12	105.86085	(08053104)	412543.81	3722328.02	77.94914	(08053
412497.03	3722414.91	55.64375	(08050123)	412478.15	3722577.60	45.54266	(08031

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: RES2 *
INCLUDING SOURCE(S): RES2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412506.05	3722653.39	42.32615	(08050123)	412533.94	3722729.18	39.65872	(08120
412470.99	3722805.41	33.49604	(08031305)	412380.14	3722805.85	39.48305	(08053
412289.30	3722806.29	39.16097	(08071304)	412198.45	3722806.73	36.49664	(08071
412107.60	3722807.16	31.00816	(08010908)	412016.75	3722807.60	30.05179	(08021
411925.91	3722808.04	29.23837	(08031307)	411835.06	3722808.48	28.04473	(08091
411788.65	3722779.79	28.30113	(08021907)	411816.42	3722689.92	30.08697	(08021
411793.84	3722601.55	31.04537	(08120323)	411771.25	3722513.17	32.60475	(08022
411748.66	3722424.79	33.62865	(08121620)	411726.07	3722336.41	34.76004	(08121
411703.49	3722248.04	35.43539	(08082205)	411680.90	3722159.66	36.26585	(08021
411699.45	3721997.22	39.16243	(08122119)	411740.60	3721923.16	40.93194	(08122
411931.17	3721697.36	52.32513	(08120824)	412000.63	3721678.92	58.40375	(08120
412121.15	3721578.56	95.84167	(08021501)	412206.33	3721425.01	99.45731	(08021
412244.84	3720939.15	48.98962	(08012606)				

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: RES3 *
INCLUDING SOURCE(S): RES3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412489.85	3722582.17	130.65423	(08071304)	412553.28	3722330.87	259.73783	(08053
412524.37	3722386.27	210.86559	(08071304)	412497.88	3722433.64	193.05755	(08071
412475.40	3722481.01	152.19876	(08071304)	412467.37	3722520.35	134.92966	(08071
412594.22	3722278.69	252.91580	(08053104)	412609.48	3722233.72	270.88507	(08053
412659.26	3722176.72	278.67748	(08053104)	412731.52	3722032.20	275.89244	(08090
412776.48	3721942.28	279.64454	(08030620)	412698.60	3722100.45	301.39379	(08053
413165.07	3721124.95	49.17063	(08121321)	412982.01	3721085.61	53.36774	(08030
412880.85	3720974.81	49.48835	(08122708)	412180.50	3721337.95	43.92935	(08011
412126.66	3721479.63	70.70480	(08021501)	412179.67	3721036.32	36.28433	(08120
412246.84	3720839.91	32.86823	(08120305)	412523.33	3720798.43	36.03466	(08121
412785.01	3720680.92	31.81144	(08091401)	412827.47	3720655.25	31.15262	(08052
412829.44	3720862.62	42.04505	(08011321)	412867.53	3720847.44	41.36376	(08011
412868.83	3721078.36	56.62116	(08042705)	413200.67	3721146.03	48.77682	(08101
412993.36	3721499.53	92.68519	(08011318)	412898.56	3721458.06	104.12447	(08040
412839.32	3721588.41	147.82373	(08091324)	412760.32	3721546.93	142.24268	(08091
412651.70	3721745.41	309.34108	(08052723)	412713.91	3721778.00	321.34284	(08030

412811.67	3721775.04	269.94080	(08042623)	412824.50	3721806.64	249.35449	(08071
412450.25	3722501.81	140.62425	(08012208)	412561.84	3722804.97	82.08233	(08053
411744.21	3722808.92	36.80011	(08010521)	411738.29	3722781.27	37.12749	(08010
411839.01	3722778.30	40.83748	(08053105)	411658.31	3722071.28	35.59409	(08012
411781.74	3721849.10	36.65564	(08011607)	411839.01	3721823.42	37.90383	(08121
411878.51	3721756.28	38.83783	(08121820)	411861.72	3721715.79	37.54525	(08121
412070.08	3721660.49	57.60406	(08021501)	412172.22	3721496.62	72.90228	(08021
412240.44	3721353.39	46.84513	(08021803)	412254.01	3721277.35	45.59528	(08010
412249.37	3721236.78	43.74235	(08010121)	412248.99	3721170.97	41.30628	(08120
412257.01	3721138.64	40.60640	(08120507)	412256.89	3721096.95	39.32289	(08120
412242.84	3721038.39	37.35928	(08012201)	412339.00	3720826.08	34.26338	(08022
412431.17	3720812.26	35.49205	(08121908)	412610.56	3720759.26	36.42494	(08022
412697.78	3720720.09	32.85864	(08112501)	412828.13	3720724.37	34.58139	(08052
412828.78	3720793.50	38.03373	(08052723)	412867.96	3720924.41	46.31354	(08011
412868.40	3721001.39	51.38037	(08122708)	412951.79	3721095.28	55.70327	(08091
413034.75	3721112.20	54.81205	(08030919)	413117.71	3721129.11	53.28021	(08091
413159.21	3721216.73	54.45065	(08101407)	413117.75	3721287.43	61.43155	(08011
413076.28	3721358.13	70.02789	(08011318)	413034.82	3721428.83	80.66219	(08011
412945.96	3721478.80	98.45222	(08091324)	412868.94	3721523.24	122.99324	(08040
412724.11	3721613.09	176.80804	(08042705)	412687.91	3721679.25	228.32034	(08011
412777.72	3721893.54	282.93178	(08030620)	412730.94	3721980.43	322.01695	(08090
412684.16	3722067.33	357.04507	(08053104)	412637.38	3722154.23	325.62029	(08053
412590.59	3722241.12	296.56620	(08053102)	412543.81	3722328.02	284.96384	(08071
412497.03	3722414.91	202.49983	(08071304)	412478.15	3722577.60	127.11953	(08071

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: RES3 *
INCLUDING SOURCE(S): RES3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412506.05	3722653.39	114.67142	(08071304)	412533.94	3722729.18	98.50791	(08053
412470.99	3722805.41	78.52446	(08071304)	412380.14	3722805.85	61.34394	(08010
412289.30	3722806.29	58.55436	(08091624)	412198.45	3722806.73	55.07251	(08120
412107.60	3722807.16	51.00770	(08120323)	412016.75	3722807.60	47.45734	(08022
411925.91	3722808.04	42.99937	(08091202)	411835.06	3722808.48	39.86792	(08053
411788.65	3722779.79	38.77272	(08121305)	411816.42	3722689.92	41.11783	(08042
411793.84	3722601.55	41.94593	(08010401)	411771.25	3722513.17	41.21526	(08052
411748.66	3722424.79	41.17007	(08021404)	411726.07	3722336.41	39.30956	(08122
411703.49	3722248.04	38.40762	(08012121)	411680.90	3722159.66	36.94068	(08021
411699.45	3721997.22	35.65256	(08050203)	411740.60	3721923.16	36.64077	(08011
411931.17	3721697.36	42.57580	(08021501)	412000.63	3721678.92	51.53066	(08021
412121.15	3721578.56	66.48754	(08021501)	412206.33	3721425.01	46.53850	(08021
412244.84	3720939.15	35.15234	(08120606)				

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: RES4 *
INCLUDING SOURCE(S): RES4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412489.85	3722582.17	34.83095	(08081606)	412553.28	3722330.87	45.45958	(08120

412524.37	3722386.27	41.38112	(08120819)	412497.88	3722433.64	40.64480	(08120
412475.40	3722481.01	38.52251	(08120819)	412467.37	3722520.35	36.73243	(08120
412594.22	3722278.69	49.27435	(08031307)	412609.48	3722233.72	52.13684	(08101
412659.26	3722176.72	57.35553	(08031307)	412731.52	3722032.20	72.35730	(08081
412776.48	3721942.28	85.34541	(08081606)	412698.60	3722100.45	64.55557	(08081
413165.07	3721124.95	650.96874	(08042623)	412982.01	3721085.61	486.90200	(08010
412880.85	3720974.81	241.52261	(08011006)	412180.50	3721337.95	55.78776	(08012
412126.66	3721479.63	49.55126	(08012121)	412179.67	3721036.32	55.43936	(08122
412246.84	3720839.91	54.68899	(08021704)	412523.33	3720798.43	156.49405	(08021
412785.01	3720680.92	84.86006	(08121204)	412827.47	3720655.25	83.88355	(08011
412829.44	3720862.62	154.20134	(08121107)	412867.53	3720847.44	146.43063	(08010
412868.83	3721078.36	561.28258	(08021501)	413200.67	3721146.03	575.84644	(08121
412993.36	3721499.53	324.55921	(08071304)	412898.56	3721458.06	309.93116	(08022
412839.32	3721588.41	188.99272	(08120323)	412760.32	3721546.93	176.95307	(08053
412651.70	3721745.41	102.32147	(08022402)	412713.91	3721778.00	105.68262	(08120
412811.67	3721775.04	120.01165	(08120819)	412824.50	3721806.64	113.17968	(08081
412450.25	3722501.81	37.49401	(08120819)	412561.84	3722804.97	29.85376	(08012
411744.21	3722808.92	20.07183	(08091202)	411738.29	3722781.27	20.14699	(08030
411839.01	3722778.30	21.41678	(08022402)	411658.31	3722071.28	26.49914	(08072
411781.74	3721849.10	32.16191	(08122418)	411839.01	3721823.42	33.88119	(08122
411878.51	3721756.28	35.49600	(08122418)	411861.72	3721715.79	35.31477	(08122
412070.08	3721660.49	43.70149	(08122417)	412172.22	3721496.62	52.77672	(08022
412240.44	3721353.39	59.33311	(08012403)	412254.01	3721277.35	61.42886	(08012
412249.37	3721236.78	61.21690	(08012402)	412248.99	3721170.97	61.59468	(08120
412257.01	3721138.64	61.67197	(08022905)	412256.89	3721096.95	60.57339	(08121
412242.84	3721038.39	59.28626	(08122408)	412339.00	3720826.08	60.82212	(08011
412431.17	3720812.26	124.21194	(08021501)	412610.56	3720759.26	77.58454	(08122
412697.78	3720720.09	84.67197	(08011006)	412828.13	3720724.37	101.13965	(08021
412828.78	3720793.50	130.09842	(08010121)	412867.96	3720924.41	199.94418	(08121
412868.40	3721001.39	244.07738	(08053004)	412951.79	3721095.28	542.09431	(08021
413034.75	3721112.20	703.40807	(08012606)	413117.71	3721129.11	843.44169	(08030
413159.21	3721216.73	959.52647	(08071405)	413117.75	3721287.43	1308.75221	(08102
413076.28	3721358.13	1206.99151	(08053104)	413034.82	3721428.83	636.22095	(08071
412945.96	3721478.80	328.37652	(08120819)	412868.94	3721523.24	238.56783	(08091
412724.11	3721613.09	144.08264	(08121620)	412687.91	3721679.25	119.83003	(08121
412777.72	3721893.54	92.94800	(08031307)	412730.94	3721980.43	78.04329	(08031
412684.16	3722067.33	66.72499	(08101907)	412637.38	3722154.23	58.36270	(08120
412590.59	3722241.12	51.60394	(08120819)	412543.81	3722328.02	45.75776	(08120
412497.03	3722414.91	41.43245	(08120819)	412478.15	3722577.60	34.79659	(08031

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: RES4 *
INCLUDING SOURCE(S): RES4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412506.05	3722653.39	32.91595	(08090822)	412533.94	3722729.18	31.07095	(08051
412470.99	3722805.41	27.05022	(08090822)	412380.14	3722805.85	25.98250	(08031
412289.30	3722806.29	25.37053	(08120819)	412198.45	3722806.73	24.32741	(08021
412107.60	3722807.16	23.17178	(08021907)	412016.75	3722807.60	22.42597	(08120
411925.91	3722808.04	21.69122	(08022401)	411835.06	3722808.48	21.15660	(08022
411788.65	3722779.79	20.69521	(08091202)	411816.42	3722689.92	21.79596	(08030
411793.84	3722601.55	22.69071	(08072704)	411771.25	3722513.17	23.65458	(08121
411748.66	3722424.79	24.34877	(08010521)	411726.07	3722336.41	24.78461	(08082
411703.49	3722248.04	25.71398	(08010401)	411680.90	3722159.66	25.73209	(08021
411699.45	3721997.22	28.59967	(08120321)	411740.60	3721923.16	30.41597	(08120
411931.17	3721697.36	37.87801	(08122417)	412000.63	3721678.92	40.63810	(08122
412121.15	3721578.56	46.73258	(08011206)	412206.33	3721425.01	56.12899	(08011
412244.84	3720939.15	57.03865	(08121922)				

*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HOTEL *
INCLUDING SOURCE(S): HOTEL ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412489.85	3722582.17	34.73953	(08053102)	412553.28	3722330.87	37.02642	(08121
412524.37	3722386.27	34.33708	(08053102)	412497.88	3722433.64	39.15480	(08053
412475.40	3722481.01	39.12156	(08053102)	412467.37	3722520.35	38.24526	(08053
412594.22	3722278.69	37.76671	(08031305)	412609.48	3722233.72	38.49725	(08031
412659.26	3722176.72	39.63180	(08050123)	412731.52	3722032.20	45.17789	(08053
412776.48	3721942.28	64.91971	(08053104)	412698.60	3722100.45	41.46326	(08120
413165.07	3721124.95	115.87659	(08071402)	412982.01	3721085.61	158.30071	(08071
412880.85	3720974.81	196.96730	(08082221)	412180.50	3721337.95	95.58357	(08121
412126.66	3721479.63	72.72592	(08091202)	412179.67	3721036.32	151.87864	(08120
412246.84	3720839.91	181.87313	(08021501)	412523.33	3720798.43	261.75751	(08021
412785.01	3720680.92	121.03938	(08011318)	412827.47	3720655.25	109.30759	(08011
412829.44	3720862.62	209.02800	(08062901)	412867.53	3720847.44	195.67201	(08062
412868.83	3721078.36	192.94355	(08030620)	413200.67	3721146.03	109.34257	(08071
412993.36	3721499.53	108.13236	(08090606)	412898.56	3721458.06	104.53927	(08102
412839.32	3721588.41	102.29313	(08053104)	412760.32	3721546.93	93.37476	(08053
412651.70	3721745.41	63.11158	(08053104)	412713.91	3721778.00	74.56213	(08053
412811.67	3721775.04	75.91290	(08053104)	412824.50	3721806.64	74.84074	(08053
412450.25	3722501.81	39.32070	(08053102)	412561.84	3722804.97	26.58686	(08121
411744.21	3722808.92	20.54749	(08031307)	411738.29	3722781.27	20.77167	(08031
411839.01	3722778.30	21.18510	(08091624)	411658.31	3722071.28	31.49400	(08010
411781.74	3721849.10	39.79490	(08121620)	411839.01	3721823.42	41.56518	(08091
411878.51	3721756.28	45.59415	(08121620)	411861.72	3721715.79	46.85844	(08072
412070.08	3721660.49	55.79901	(08091005)	412172.22	3721496.62	71.82378	(08022
412240.44	3721353.39	93.24451	(08010719)	412254.01	3721277.35	109.49650	(08053
412249.37	3721236.78	119.84260	(08010521)	412248.99	3721170.97	140.77445	(08012
412257.01	3721138.64	158.32977	(08120321)	412256.89	3721096.95	171.00022	(08122
412242.84	3721038.39	176.93177	(08021523)	412339.00	3720826.08	220.16697	(08021
412431.17	3720812.26	191.71111	(08021501)	412610.56	3720759.26	180.31508	(08121
412697.78	3720720.09	146.36679	(08030919)	412828.13	3720724.37	143.00879	(08053
412828.78	3720793.50	169.21946	(08091320)	412867.96	3720924.41	290.02978	(08071
412868.40	3721001.39	216.37557	(08071403)	412951.79	3721095.28	159.44198	(08071
413034.75	3721112.20	136.04539	(08071401)	413117.71	3721129.11	120.15153	(08071
413159.21	3721216.73	95.33785	(08071401)	413117.75	3721287.43	96.97718	(08030
413076.28	3721358.13	115.53420	(08030620)	413034.82	3721428.83	110.74217	(08102
412945.96	3721478.80	101.01697	(08090606)	412868.94	3721523.24	94.24981	(08090
412724.11	3721613.09	81.88695	(08053104)	412687.91	3721679.25	83.70079	(08053
412777.72	3721893.54	68.21881	(08053104)	412730.94	3721980.43	52.12000	(08053
412684.16	3722067.33	41.89795	(08120624)	412637.38	3722154.23	39.97742	(08050
412590.59	3722241.12	38.38606	(08031305)	412543.81	3722328.02	38.18242	(08053
412497.03	3722414.91	39.81697	(08053102)	412478.15	3722577.60	35.36488	(08053

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: HOTEL *
INCLUDING SOURCE(S): HOTEL ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD

412506.05	3722653.39	32.02361	(08053102)	412533.94	3722729.18	29.02001	(08121
412470.99	3722805.41	26.47196	(08053102)	412380.14	3722805.85	27.09433	(08053
412289.30	3722806.29	27.11710	(08071304)	412198.45	3722806.73	25.23055	(08071
412107.60	3722807.16	21.56509	(08081202)	412016.75	3722807.60	21.64866	(08010
411925.91	3722808.04	21.04747	(08012208)	411835.06	3722808.48	20.78035	(08091
411788.65	3722779.79	21.05522	(08081606)	411816.42	3722689.92	22.35603	(08031
411793.84	3722601.55	23.57081	(08120819)	411771.25	3722513.17	24.50359	(08120
411748.66	3722424.79	26.06027	(08021907)	411726.07	3722336.41	26.94886	(08081
411703.49	3722248.04	28.36920	(08120323)	411680.90	3722159.66	30.24948	(08022
411699.45	3721997.22	33.90675	(08091202)	411740.60	3721923.16	36.43982	(08121
411931.17	3721697.36	49.73686	(08121620)	412000.63	3721678.92	53.23537	(08022
412121.15	3721578.56	62.43910	(08022401)	412206.33	3721425.01	81.53315	(08022
412244.84	3720939.15	172.96665	(08022905)				

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS2 *
INCLUDING SOURCE(S): TRUCKS2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412489.85	3722582.17	49.36438	(08053104)	412553.28	3722330.87	61.70111	(08053
412524.37	3722386.27	61.42609	(08053104)	412497.88	3722433.64	53.69925	(08053
412475.40	3722481.01	50.96834	(08053104)	412467.37	3722520.35	49.76846	(08053
412594.22	3722278.69	54.76784	(08053104)	412609.48	3722233.72	47.96116	(08053
412659.26	3722176.72	42.13257	(08090606)	412731.52	3722032.20	49.44737	(08090
412776.48	3721942.28	47.74082	(08102923)	412698.60	3722100.45	44.55120	(08090
413165.07	3721124.95	26.20531	(08071405)	412982.01	3721085.61	30.59330	(08121
412880.85	3720974.81	35.25086	(08091320)	412180.50	3721337.95	180.93244	(08021
412126.66	3721479.63	203.24873	(08021501)	412179.67	3721036.32	152.32823	(08021
412246.84	3720839.91	132.61460	(08022622)	412523.33	3720798.43	91.59648	(08091
412785.01	3720680.92	50.35605	(08052522)	412827.47	3720655.25	47.27498	(08042
412829.44	3720862.62	47.99147	(08053123)	412867.53	3720847.44	48.11210	(08050
412868.83	3721078.36	32.69211	(08062822)	413200.67	3721146.03	26.47323	(08071
412993.36	3721499.53	28.03570	(08071402)	412898.56	3721458.06	29.61398	(08071
412839.32	3721588.41	32.71899	(08030620)	412760.32	3721546.93	40.18085	(08030
412651.70	3721745.41	57.73592	(08102923)	412713.91	3721778.00	52.32746	(08102
412811.67	3721775.04	45.74207	(08030620)	412824.50	3721806.64	44.22288	(08030
412450.25	3722501.81	49.21705	(08053104)	412561.84	3722804.97	44.54249	(08053
411744.21	3722808.92	36.29983	(08012208)	411738.29	3722781.27	37.10558	(08012
411839.01	3722778.30	37.38538	(08081202)	411658.31	3722071.28	68.10769	(08121
411781.74	3721849.10	93.50386	(08021906)	411839.01	3721823.42	113.01456	(08021
411878.51	3721756.28	118.96905	(08012206)	411861.72	3721715.79	99.24715	(08122
412070.08	3721660.49	387.85853	(08121620)	412172.22	3721496.62	394.58289	(08021
412240.44	3721353.39	434.84240	(08071304)	412254.01	3721277.35	571.92380	(08071
412249.37	3721236.78	474.17993	(08071304)	412248.99	3721170.97	390.94541	(08121
412257.01	3721138.64	439.00737	(08022622)	412256.89	3721096.95	369.95388	(08022
412242.84	3721038.39	245.26795	(08121606)	412339.00	3720826.08	136.93309	(08011
412431.17	3720812.26	129.03846	(08030919)	412610.56	3720759.26	78.31876	(08092
412697.78	3720720.09	59.19877	(08011318)	412828.13	3720724.37	54.48967	(08042
412828.78	3720793.50	49.43833	(08053123)	412867.96	3720924.41	40.00002	(08111
412868.40	3721001.39	34.95939	(08091320)	412951.79	3721095.28	31.68465	(08121
413034.75	3721112.20	27.35013	(08071405)	413117.71	3721129.11	26.50920	(08071
413159.21	3721216.73	27.78023	(08071405)	413117.75	3721287.43	28.65630	(08071
413076.28	3721358.13	28.28667	(08071405)	413034.82	3721428.83	24.31603	(08071
412945.96	3721478.80	27.72482	(08071402)	412868.94	3721523.24	26.21818	(08071
412724.11	3721613.09	50.29905	(08030620)	412687.91	3721679.25	51.65452	(08030
412777.72	3721893.54	48.75111	(08102923)	412730.94	3721980.43	51.42646	(08090
412684.16	3722067.33	45.64877	(08090606)	412637.38	3722154.23	42.91972	(08090
412590.59	3722241.12	54.00079	(08053104)	412543.81	3722328.02	61.58378	(08053
412497.03	3722414.91	54.77642	(08053104)	412478.15	3722577.60	49.14224	(08053

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS2 *
INCLUDING SOURCE(S): TRUCKS2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412506.05	3722653.39	46.83964	(08053104)	412533.94	3722729.18	44.99388	(08053
412470.99	3722805.41	40.40928	(08053104)	412380.14	3722805.85	33.21525	(08121
412289.30	3722806.29	33.22873	(08050123)	412198.45	3722806.73	34.56029	(08031
412107.60	3722807.16	42.23810	(08053102)	412016.75	3722807.60	42.58699	(08053
411925.91	3722808.04	43.56165	(08071304)	411835.06	3722808.48	36.20666	(08081
411788.65	3722779.79	37.64235	(08010908)	411816.42	3722689.92	41.46371	(08010
411793.84	3722601.55	45.18741	(08012208)	411771.25	3722513.17	49.31124	(08090
411748.66	3722424.79	54.40270	(08031307)	411726.07	3722336.41	58.66631	(08120
411703.49	3722248.04	63.44595	(08021907)	411680.90	3722159.66	67.04801	(08022
411699.45	3721997.22	75.93994	(08053105)	411740.60	3721923.16	85.02713	(08121
411931.17	3721697.36	127.73838	(08120321)	412000.63	3721678.92	184.12768	(08010
412121.15	3721578.56	333.70263	(08022401)	412206.33	3721425.01	396.95367	(08042
412244.84	3720939.15	181.47473	(08022622)				

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS_F *
INCLUDING SOURCE(S): TRUCKS_F,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412489.85	3722582.17	49.19607	(08053104)	412553.28	3722330.87	71.55813	(08053
412524.37	3722386.27	57.59014	(08053104)	412497.88	3722433.64	50.41463	(08053
412475.40	3722481.01	50.36947	(08053104)	412467.37	3722520.35	49.84058	(08053
412594.22	3722278.69	74.75090	(08053104)	412609.48	3722233.72	60.08795	(08053
412659.26	3722176.72	42.45641	(08090606)	412731.52	3722032.20	52.44792	(08090
412776.48	3721942.28	52.43329	(08102923)	412698.60	3722100.45	41.27271	(08090
413165.07	3721124.95	29.38845	(08062823)	412982.01	3721085.61	36.72427	(08121
412880.85	3720974.81	47.83091	(08111418)	412180.50	3721337.95	227.80693	(08120
412126.66	3721479.63	262.61321	(08021501)	412179.67	3721036.32	176.67746	(08012
412246.84	3720839.91	201.10723	(08022622)	412523.33	3720798.43	140.21959	(08040
412785.01	3720680.92	71.31317	(08011318)	412827.47	3720655.25	64.36829	(08052
412829.44	3720862.62	65.80333	(08053123)	412867.53	3720847.44	65.59600	(08053
412868.83	3721078.36	43.15187	(08091320)	413200.67	3721146.03	27.80126	(08071
412993.36	3721499.53	30.12729	(08071402)	412898.56	3721458.06	37.39278	(08071
412839.32	3721588.41	39.60668	(08030620)	412760.32	3721546.93	45.21268	(08030
412651.70	3721745.41	65.03160	(08102923)	412713.91	3721778.00	57.76141	(08102
412811.67	3721775.04	49.34976	(08030620)	412824.50	3721806.64	46.55872	(08030
412450.25	3722501.81	49.47496	(08053104)	412561.84	3722804.97	43.96392	(08053
411744.21	3722808.92	71.35908	(08012208)	411738.29	3722781.27	72.59912	(08012
411839.01	3722778.30	71.25884	(08081202)	411658.31	3722071.28	103.67319	(08022
411781.74	3721849.10	117.79794	(08021707)	411839.01	3721823.42	144.58354	(08010
411878.51	3721756.28	137.79831	(08120619)	411861.72	3721715.79	108.77102	(08122
412070.08	3721660.49	658.61991	(08121305)	412172.22	3721496.62	806.44398	(08022
412240.44	3721353.39	1035.97673	(08042705)	412254.01	3721277.35	1674.45586	(08071
412249.37	3721236.78	1054.83556	(08010908)	412248.99	3721170.97	873.25445	(08022
412257.01	3721138.64	960.52913	(08122707)	412256.89	3721096.95	634.02718	(08022

412242.84	3721038.39	354.82269	(08121606)	412339.00	3720826.08	263.94073	(08011
412431.17	3720812.26	190.83752	(08030919)	412610.56	3720759.26	108.04362	(08121
412697.78	3720720.09	88.76520	(08101407)	412828.13	3720724.37	74.10222	(08052
412828.78	3720793.50	72.33474	(08042623)	412867.96	3720924.41	54.92915	(08050
412868.40	3721001.39	45.78491	(08111418)	412951.79	3721095.28	38.98112	(08062
413034.75	3721112.20	34.83650	(08062901)	413117.71	3721129.11	29.50966	(08062
413159.21	3721216.73	28.60293	(08071405)	413117.75	3721287.43	30.56545	(08071
413076.28	3721358.13	33.23084	(08071405)	413034.82	3721428.83	31.13058	(08071
412945.96	3721478.80	29.88825	(08071402)	412868.94	3721523.24	28.50786	(08071
412724.11	3721613.09	52.88739	(08030620)	412687.91	3721679.25	55.02569	(08030
412777.72	3721893.54	55.54244	(08102923)	412730.94	3721980.43	59.41642	(08090
412684.16	3722067.33	42.25510	(08090606)	412637.38	3722154.23	43.54580	(08090
412590.59	3722241.12	72.63159	(08053104)	412543.81	3722328.02	67.90459	(08053
412497.03	3722414.91	51.06413	(08053104)	412478.15	3722577.60	49.23110	(08053

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: TRUCKS_F *
INCLUDING SOURCE(S): TRUCKS_F,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412506.05	3722653.39	46.65839	(08053104)	412533.94	3722729.18	44.54293	(08053
412470.99	3722805.41	42.66412	(08053104)	412380.14	3722805.85	46.13823	(08120
412289.30	3722806.29	48.19078	(08050123)	412198.45	3722806.73	53.90529	(08121
412107.60	3722807.16	68.23172	(08053102)	412016.75	3722807.60	69.86493	(08071
411925.91	3722808.04	70.38382	(08071304)	411835.06	3722808.48	68.78175	(08081
411788.65	3722779.79	72.53927	(08010908)	411816.42	3722689.92	79.59322	(08010
411793.84	3722601.55	87.29098	(08012208)	411771.25	3722513.17	97.13155	(08090
411748.66	3722424.79	106.89443	(08031307)	411726.07	3722336.41	112.01640	(08091
411703.49	3722248.04	115.93699	(08081605)	411680.90	3722159.66	114.17034	(08022
411699.45	3721997.22	111.61745	(08121305)	411740.60	3721923.16	115.89309	(08090
411931.17	3721697.36	142.81920	(08021404)	412000.63	3721678.92	241.84756	(08021
412121.15	3721578.56	583.98625	(08021501)	412206.33	3721425.01	876.92625	(08042
412244.84	3720939.15	258.69380	(08122707)				

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL *
INCLUDING SOURCE(S): WNOC , NBOPS , RES1 , RES2 , RES3 , RES4
TRUCKS2 , TRUCKS_F,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412489.85	3722582.17	218.40328	(08071304)	412553.28	3722330.87	423.39732	(08053
412524.37	3722386.27	307.23637	(08071304)	412497.88	3722433.64	294.02493	(08071
412475.40	3722481.01	254.30826	(08071304)	412467.37	3722520.35	234.91009	(08071
412594.22	3722278.69	526.48052	(08053104)	412609.48	3722233.72	551.13796	(08053
412659.26	3722176.72	530.80601	(08053104)	412731.52	3722032.20	488.92622	(08090
412776.48	3721942.28	462.52503	(08102923)	412698.60	3722100.45	515.26809	(08053
413165.07	3721124.95	718.93434	(08042623)	412982.01	3721085.61	487.00186	(08010
412880.85	3720974.81	309.63678	(08071405)	412180.50	3721337.95	546.36201	(08120
412126.66	3721479.63	626.99178	(08021501)	412179.67	3721036.32	452.45867	(08021
412246.84	3720839.91	1164.06417	(08021501)	412523.33	3720798.43	472.05437	(08021

412785.01	3720680.92	294.46811	(08011318)	412827.47	3720655.25	272.20445	(08011
412829.44	3720862.62	352.01705	(08053123)	412867.53	3720847.44	331.33488	(08053
412868.83	3721078.36	596.33269	(08021501)	413200.67	3721146.03	702.58418	(08121
412993.36	3721499.53	353.60776	(08090606)	412898.56	3721458.06	387.12257	(08053
412839.32	3721588.41	191.11934	(08120323)	412760.32	3721546.93	212.04112	(08090
412651.70	3721745.41	312.44062	(08011321)	412713.91	3721778.00	321.89692	(08030
412811.67	3721775.04	270.43334	(08042623)	412824.50	3721806.64	328.20099	(08071
412450.25	3722501.81	224.00514	(08071304)	412561.84	3722804.97	162.78833	(08032
411744.21	3722808.92	201.25841	(08012208)	411738.29	3722781.27	201.85109	(08012
411839.01	3722778.30	207.49970	(08081202)	411658.31	3722071.28	266.44815	(08053
411781.74	3721849.10	299.75355	(08012206)	411839.01	3721823.42	347.30780	(08021
411878.51	3721756.28	354.36249	(08120321)	411861.72	3721715.79	375.92384	(08021
412070.08	3721660.49	1129.67040	(08041020)	412172.22	3721496.62	1284.74562	(08091
412240.44	3721353.39	1544.39576	(08042705)	412254.01	3721277.35	2563.81085	(08071
412249.37	3721236.78	1859.59811	(08071304)	412248.99	3721170.97	1331.76843	(08022
412257.01	3721138.64	1460.26452	(08022622)	412256.89	3721096.95	1069.80447	(08022
412242.84	3721038.39	677.83280	(08051324)	412339.00	3720826.08	1252.29479	(08011
412431.17	3720812.26	511.82926	(08030919)	412610.56	3720759.26	329.89125	(08091
412697.78	3720720.09	321.88951	(08100206)	412828.13	3720724.37	315.41166	(08052
412828.78	3720793.50	342.72354	(08042623)	412867.96	3720924.41	393.69500	(08071
412868.40	3721001.39	312.45903	(08071403)	412951.79	3721095.28	542.10825	(08021
413034.75	3721112.20	703.40807	(08012606)	413117.71	3721129.11	886.90834	(08030
413159.21	3721216.73	1131.94403	(08071403)	413117.75	3721287.43	1410.17898	(08030
413076.28	3721358.13	1209.16287	(08053104)	413034.82	3721428.83	636.32076	(08071
412945.96	3721478.80	337.34680	(08090606)	412868.94	3721523.24	255.18981	(08053
412724.11	3721613.09	261.14550	(08090606)	412687.91	3721679.25	280.13102	(08090
412777.72	3721893.54	460.81809	(08030620)	412730.94	3721980.43	547.73552	(08090
412684.16	3722067.33	581.13817	(08053104)	412637.38	3722154.23	597.58462	(08053
412590.59	3722241.12	569.96589	(08053104)	412543.81	3722328.02	401.62975	(08053
412497.03	3722414.91	306.04566	(08071304)	412478.15	3722577.60	217.82274	(08071

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL *
INCLUDING SOURCE(S): WNOC , NBOPS , RES1 , RES2 , RES3 , RES4
TRUCKS2 , TRUCKS_F,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMD
412506.05	3722653.39	202.39604	(08053102)	412533.94	3722729.18	184.97247	(08053
412470.99	3722805.41	166.37721	(08053104)	412380.14	3722805.85	156.18908	(08120
412289.30	3722806.29	164.61583	(08081003)	412198.45	3722806.73	177.55985	(08053
412107.60	3722807.16	221.27070	(08053102)	412016.75	3722807.60	228.96746	(08071
411925.91	3722808.04	215.49359	(08071304)	411835.06	3722808.48	202.19079	(08081
411788.65	3722779.79	206.23757	(08012208)	411816.42	3722689.92	224.05366	(08012
411793.84	3722601.55	240.89583	(08051603)	411771.25	3722513.17	263.31111	(08091
411748.66	3722424.79	281.28373	(08101907)	411726.07	3722336.41	291.63642	(08081
411703.49	3722248.04	295.50344	(08120323)	411680.90	3722159.66	287.87665	(08022
411699.45	3721997.22	279.76697	(08010521)	411740.60	3721923.16	291.75922	(08021
411931.17	3721697.36	492.60243	(08021501)	412000.63	3721678.92	639.64965	(08021
412121.15	3721578.56	971.00368	(08042705)	412206.33	3721425.01	1372.10713	(08042
412244.84	3720939.15	775.90647	(08021501)				

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE SUMMARY OF MAXIMUM PERIOD (8784 HRS) RESULTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
WNOC	1ST HIGHEST VALUE IS	7.06430	AT (411931.17, 3721697.36, 1.52, 22.86, 1.80)	DC	
	2ND HIGHEST VALUE IS	6.83119	AT (411839.01, 3721823.42, 0.18, 0.18, 1.80)	DC	
	3RD HIGHEST VALUE IS	6.77325	AT (411878.51, 3721756.28, 1.52, 1.52, 1.80)	DC	
	4TH HIGHEST VALUE IS	6.74537	AT (412524.37, 3722386.27, 17.69, 30.18, 1.80)	DC	
	5TH HIGHEST VALUE IS	6.64965	AT (412000.63, 3721678.92, 1.52, 26.21, 1.80)	DC	
	6TH HIGHEST VALUE IS	5.62088	AT (412543.81, 3722328.02, 25.82, 25.82, 1.80)	DC	
	7TH HIGHEST VALUE IS	5.60987	AT (412553.28, 3722330.87, 24.66, 28.96, 1.80)	DC	
	8TH HIGHEST VALUE IS	5.14511	AT (412497.03, 3722414.91, 29.09, 29.09, 1.80)	DC	
	9TH HIGHEST VALUE IS	5.10870	AT (411861.72, 3721715.79, 1.52, 1.52, 1.80)	DC	
	10TH HIGHEST VALUE IS	5.08670	AT (411781.74, 3721849.10, 0.53, 0.53, 1.80)	DC	
NBOPS	1ST HIGHEST VALUE IS	57.75169	AT (412244.84, 3720939.15, 1.52, 16.76, 1.80)	DC	
	2ND HIGHEST VALUE IS	53.40627	AT (412242.84, 3721038.39, 0.00, 17.07, 1.80)	DC	
	3RD HIGHEST VALUE IS	38.36546	AT (412256.89, 3721096.95, 0.00, 17.07, 1.80)	DC	
	4TH HIGHEST VALUE IS	25.32877	AT (412257.01, 3721138.64, 0.00, 17.37, 1.80)	DC	
	5TH HIGHEST VALUE IS	25.31082	AT (412179.67, 3721036.32, 1.83, 1.83, 1.80)	DC	
	6TH HIGHEST VALUE IS	23.32079	AT (412246.84, 3720839.91, 1.52, 1.52, 1.80)	DC	
	7TH HIGHEST VALUE IS	18.32747	AT (412248.99, 3721170.97, 0.00, 17.37, 1.80)	DC	
	8TH HIGHEST VALUE IS	15.33042	AT (412339.00, 3720826.08, 2.13, 17.68, 1.80)	DC	
	9TH HIGHEST VALUE IS	12.07231	AT (412249.37, 3721236.78, 0.00, 20.12, 1.80)	DC	
	10TH HIGHEST VALUE IS	10.03032	AT (412254.01, 3721277.35, 0.00, 23.77, 1.80)	DC	
RES1	1ST HIGHEST VALUE IS	27.10720	AT (412898.56, 3721458.06, 26.11, 30.78, 1.80)	DC	
	2ND HIGHEST VALUE IS	24.98884	AT (412945.96, 3721478.80, 26.30, 30.78, 1.80)	DC	
	3RD HIGHEST VALUE IS	21.97843	AT (412993.36, 3721499.53, 24.58, 32.00, 1.80)	DC	
	4TH HIGHEST VALUE IS	20.94119	AT (413034.82, 3721428.83, 30.78, 30.78, 1.80)	DC	
	5TH HIGHEST VALUE IS	17.87026	AT (412868.83, 3721078.36, 28.67, 28.67, 1.80)	DC	
	6TH HIGHEST VALUE IS	16.77240	AT (413076.28, 3721358.13, 31.70, 31.70, 1.80)	DC	
	7TH HIGHEST VALUE IS	13.53975	AT (412868.94, 3721523.24, 30.57, 30.57, 1.80)	DC	
	8TH HIGHEST VALUE IS	10.72531	AT (413117.75, 3721287.43, 31.68, 31.68, 1.80)	DC	
	9TH HIGHEST VALUE IS	9.65426	AT (412951.79, 3721095.28, 27.04, 27.74, 1.80)	DC	
	10TH HIGHEST VALUE IS	8.86998	AT (412839.32, 3721588.41, 30.78, 30.78, 1.80)	DC	

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE SUMMARY OF MAXIMUM PERIOD (8784 HRS) RESULTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
RES2	1ST HIGHEST VALUE IS	29.56239	AT (412651.70, 3721745.41, 30.67, 30.67, 1.80)	DC	
	2ND HIGHEST VALUE IS	26.91788	AT (412687.91, 3721679.25, 30.70, 30.70, 1.80)	DC	
	3RD HIGHEST VALUE IS	22.40851	AT (412724.11, 3721613.09, 30.78, 30.78, 1.80)	DC	
	4TH HIGHEST VALUE IS	19.47824	AT (412713.91, 3721778.00, 31.36, 31.36, 1.80)	DC	
	5TH HIGHEST VALUE IS	14.15003	AT (412730.94, 3721980.43, 31.39, 31.39, 1.80)	DC	
	6TH HIGHEST VALUE IS	13.54530	AT (412760.32, 3721546.93, 30.48, 30.48, 1.80)	DC	
	7TH HIGHEST VALUE IS	13.19796	AT (412684.16, 3722067.33, 30.82, 30.82, 1.80)	DC	
	8TH HIGHEST VALUE IS	12.88838	AT (412777.72, 3721893.54, 31.93, 31.93, 1.80)	DC	
	9TH HIGHEST VALUE IS	12.83148	AT (412731.52, 3722032.20, 31.13, 31.13, 1.80)	DC	
	10TH HIGHEST VALUE IS	12.66594	AT (412776.48, 3721942.28, 31.70, 31.70, 1.80)	DC	
RES3	1ST HIGHEST VALUE IS	62.38636	AT (412684.16, 3722067.33, 30.82, 30.82, 1.80)	DC	
	2ND HIGHEST VALUE IS	60.91005	AT (412730.94, 3721980.43, 31.39, 31.39, 1.80)	DC	
	3RD HIGHEST VALUE IS	59.81222	AT (412637.38, 3722154.23, 29.92, 29.92, 1.80)	DC	
	4TH HIGHEST VALUE IS	52.42327	AT (412590.59, 3722241.12, 29.57, 29.57, 1.80)	DC	
	5TH HIGHEST VALUE IS	50.76005	AT (412731.52, 3722032.20, 31.13, 31.13, 1.80)	DC	

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         6TH HIGHEST VALUE IS      49.76112 AT (  412698.60,  3722100.45,    30.78,    30.78,    1.80)  DC
         7TH HIGHEST VALUE IS      49.20002 AT (  412609.48,  3722233.72,    29.58,    29.58,    1.80)  DC
         8TH HIGHEST VALUE IS      47.33531 AT (  412659.26,  3722176.72,    30.18,    30.18,    1.80)  DC
         9TH HIGHEST VALUE IS      45.79002 AT (  412777.72,  3721893.54,    31.93,    31.93,    1.80)  DC
        10TH HIGHEST VALUE IS      44.02000 AT (  412776.48,  3721942.28,    31.70,    31.70,    1.80)  DC

RES4     1ST HIGHEST VALUE IS     214.27866 AT (  413117.75,  3721287.43,    31.68,    31.68,    1.80)  DC
         2ND HIGHEST VALUE IS     104.87805 AT (  413076.28,  3721358.13,    31.70,    31.70,    1.80)  DC
         3RD HIGHEST VALUE IS      66.70749 AT (  413159.21,  3721216.73,    31.09,    31.09,    1.80)  DC
         4TH HIGHEST VALUE IS      26.76144 AT (  413034.82,  3721428.83,    30.78,    30.78,    1.80)  DC
         5TH HIGHEST VALUE IS      14.36395 AT (  413034.75,  3721112.20,    29.17,    29.17,    1.80)  DC
         6TH HIGHEST VALUE IS      11.41005 AT (  412945.96,  3721478.80,    26.30,    30.78,    1.80)  DC
         7TH HIGHEST VALUE IS      11.35291 AT (  412993.36,  3721499.53,    24.58,    32.00,    1.80)  DC
         8TH HIGHEST VALUE IS      11.20101 AT (  412898.56,  3721458.06,    26.11,    30.78,    1.80)  DC
         9TH HIGHEST VALUE IS      10.11251 AT (  412982.01,  3721085.61,    27.53,    27.53,    1.80)  DC
        10TH HIGHEST VALUE IS       9.26808 AT (  412951.79,  3721095.28,    27.04,    27.74,    1.80)  DC

 *** AERMOD - VERSION 09292 ***    *** Newport Banning Ranch                                          ***
                                   *** Future Oilfield and Future Res/Comm Dev                        ***

 **MODELOPTs:  RegDFAULT CONC                                          ELEV
     FLGPOL

                                        *** THE SUMMARY OF MAXIMUM PERIOD (  8784 HRS) RESULTS ***


                                     ** CONC OF ALL      IN MICROGRAMS/M**3                        **

                                                                                                    NETWORK
GROUP ID                      AVERAGE CONC              RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

HOTEL    1ST HIGHEST VALUE IS      14.31849 AT (  412868.83,  3721078.36,    28.67,    28.67,    1.80)  DC
         2ND HIGHEST VALUE IS      10.27424 AT (  412868.40,  3721001.39,    28.04,    28.04,    1.80)  DC
         3RD HIGHEST VALUE IS       8.71740 AT (  412951.79,  3721095.28,    27.04,    27.74,    1.80)  DC
         4TH HIGHEST VALUE IS       8.51147 AT (  412898.56,  3721458.06,    26.11,    30.78,    1.80)  DC
         5TH HIGHEST VALUE IS       7.65537 AT (  412945.96,  3721478.80,    26.30,    30.78,    1.80)  DC
         6TH HIGHEST VALUE IS       7.49762 AT (  412880.85,  3720974.81,    27.14,    27.14,    1.80)  DC
         7TH HIGHEST VALUE IS       7.05689 AT (  412993.36,  3721499.53,    24.58,    32.00,    1.80)  DC
         8TH HIGHEST VALUE IS       6.93431 AT (  412982.01,  3721085.61,    27.53,    27.53,    1.80)  DC
         9TH HIGHEST VALUE IS       6.79052 AT (  412256.89,  3721096.95,     0.00,    17.07,    1.80)  DC
        10TH HIGHEST VALUE IS       6.74562 AT (  412868.94,  3721523.24,    30.57,    30.57,    1.80)  DC

TRUCKS2  1ST HIGHEST VALUE IS      38.15208 AT (  412254.01,  3721277.35,     0.00,    23.77,    1.80)  DC
         2ND HIGHEST VALUE IS      33.67165 AT (  412249.37,  3721236.78,     0.00,    20.12,    1.80)  DC
         3RD HIGHEST VALUE IS      32.77742 AT (  412240.44,  3721353.39,     0.37,    28.04,    1.80)  DC
         4TH HIGHEST VALUE IS      30.67608 AT (  412070.08,  3721660.49,     1.83,    26.21,    1.80)  DC
         5TH HIGHEST VALUE IS      30.43933 AT (  412172.22,  3721496.62,     0.25,    28.65,    1.80)  DC
         6TH HIGHEST VALUE IS      30.03045 AT (  412206.33,  3721425.01,     0.39,    28.65,    1.80)  DC
         7TH HIGHEST VALUE IS      29.33282 AT (  412121.15,  3721578.56,     0.00,    28.04,    1.80)  DC
         8TH HIGHEST VALUE IS      27.10549 AT (  412248.99,  3721170.97,     0.00,    17.37,    1.80)  DC
         9TH HIGHEST VALUE IS      24.11049 AT (  412257.01,  3721138.64,     0.00,    17.37,    1.80)  DC
        10TH HIGHEST VALUE IS      19.59456 AT (  412126.66,  3721479.63,     1.93,    27.13,    1.80)  DC

TRUCKS_F 1ST HIGHEST VALUE IS     142.15517 AT (  412254.01,  3721277.35,     0.00,    23.77,    1.80)  DC
         2ND HIGHEST VALUE IS     102.80673 AT (  412240.44,  3721353.39,     0.37,    28.04,    1.80)  DC
         3RD HIGHEST VALUE IS     101.80007 AT (  412249.37,  3721236.78,     0.00,    20.12,    1.80)  DC
         4TH HIGHEST VALUE IS      87.23323 AT (  412206.33,  3721425.01,     0.39,    28.65,    1.80)  DC
         5TH HIGHEST VALUE IS      84.11481 AT (  412172.22,  3721496.62,     0.25,    28.65,    1.80)  DC
         6TH HIGHEST VALUE IS      77.79172 AT (  412248.99,  3721170.97,     0.00,    17.37,    1.80)  DC
         7TH HIGHEST VALUE IS      72.25835 AT (  412257.01,  3721138.64,     0.00,    17.37,    1.80)  DC
         8TH HIGHEST VALUE IS      60.05045 AT (  412121.15,  3721578.56,     0.00,    28.04,    1.80)  DC
         9TH HIGHEST VALUE IS      60.03980 AT (  412070.08,  3721660.49,     1.83,    26.21,    1.80)  DC
        10TH HIGHEST VALUE IS      38.98386 AT (  412256.89,  3721096.95,     0.00,    17.07,    1.80)  DC

 *** AERMOD - VERSION 09292 ***    *** Newport Banning Ranch                                          ***
                                   *** Future Oilfield and Future Res/Comm Dev                        ***

 **MODELOPTs:  RegDFAULT CONC                                          ELEV
     FLGPOL
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*** THE SUMMARY OF MAXIMUM PERIOD (8784 HRS) RESULTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
ALL	1ST HIGHEST VALUE IS	233.11371 AT (413117.75, 3721287.43, 31.68, 31.68, 1.80)	DC	
	2ND HIGHEST VALUE IS	202.11668 AT (412254.01, 3721277.35, 0.00, 23.77, 1.80)	DC	
	3RD HIGHEST VALUE IS	159.04232 AT (412249.37, 3721236.78, 0.00, 20.12, 1.80)	DC	
	4TH HIGHEST VALUE IS	154.36672 AT (412240.44, 3721353.39, 0.37, 28.04, 1.80)	DC	
	5TH HIGHEST VALUE IS	134.57502 AT (412248.99, 3721170.97, 0.00, 17.37, 1.80)	DC	
	6TH HIGHEST VALUE IS	133.69479 AT (412206.33, 3721425.01, 0.39, 28.65, 1.80)	DC	
	7TH HIGHEST VALUE IS	133.24780 AT (412257.01, 3721138.64, 0.00, 17.37, 1.80)	DC	
	8TH HIGHEST VALUE IS	131.44635 AT (413076.28, 3721358.13, 31.70, 31.70, 1.80)	DC	
	9TH HIGHEST VALUE IS	129.67213 AT (412172.22, 3721496.62, 0.25, 28.65, 1.80)	DC	
	10TH HIGHEST VALUE IS	106.38441 AT (412256.89, 3721096.95, 0.00, 17.07, 1.80)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

**MODELOPTs: RegDFAULT CONC ELEV
FLGPOL

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF ALL IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF
WNOC	HIGH 1ST HIGH VALUE IS	445.13446	ON 08021501: AT (411931.17, 3721697.36, 1.52, 22.86, 1.80	
NBOPS	HIGH 1ST HIGH VALUE IS	847.66129	ON 08021501: AT (412246.84, 3720839.91, 1.52, 1.52, 1.80	
RES1	HIGH 1ST HIGH VALUE IS	329.10409	ON 08053104: AT (412898.56, 3721458.06, 26.11, 30.78, 1.80	
RES2	HIGH 1ST HIGH VALUE IS	168.01324	ON 08102923: AT (412651.70, 3721745.41, 30.67, 30.67, 1.80	
RES3	HIGH 1ST HIGH VALUE IS	357.04507	ON 08053104: AT (412684.16, 3722067.33, 30.82, 30.82, 1.80	
RES4	HIGH 1ST HIGH VALUE IS	1308.75221	ON 08102923: AT (413117.75, 3721287.43, 31.68, 31.68, 1.80	
HOTEL	HIGH 1ST HIGH VALUE IS	290.02978	ON 08071405: AT (412867.96, 3720924.41, 23.98, 23.98, 1.80	
TRUCKS2	HIGH 1ST HIGH VALUE IS	571.92380	ON 08071304: AT (412254.01, 3721277.35, 0.00, 23.77, 1.80	
TRUCKS_F	HIGH 1ST HIGH VALUE IS	1674.45586	ON 08071304: AT (412254.01, 3721277.35, 0.00, 23.77, 1.80	
ALL	HIGH 1ST HIGH VALUE IS	2563.81085	ON 08071304: AT (412254.01, 3721277.35, 0.00, 23.77, 1.80	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** AERMOD - VERSION 09292 *** *** Newport Banning Ranch ***
*** Future Oilfield and Future Res/Comm Dev ***

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**MODELOPTs:  RegDFAULT CONC                                          ELEV
    FLGPOL

*** Message Summary : AERMOD Model Execution ***

 --------- Summary of Total Messages --------

A Total of            0 Fatal Error Message(s)
A Total of            0 Warning Message(s)
A Total of         2985 Informational Message(s)

A Total of         8784 Hours Were Processed

A Total of         2920 Calm Hours Identified

A Total of           65 Missing Hours Identified (  0.74 Percent)


   ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


   ********   WARNING MESSAGES   ********
               ***  NONE  ***


   ***********************************
   *** AERMOD Finishes Successfully ***
   ***********************************
```

Attachment C
Tier 1 Risk Assessment

Newport Banning Ranch Tier 1 Health Risk Assessment Total Project Incremental Impact	Baseline		Future Oilfield		Res&Commercial Development		Proposed Project Total		Project Incremental Impact			
											ASI	
											100 Meter	
	Qyr	Qhr	Qyr	Qhr	Qyr	Qhr	Qyr	Qhr	Qyr	Qhr	Cancer / Chronic	Acute
	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	(lbs/hr)
1,1,1-trichloroethane	-	-	-	-	1,353.9235	0.9276006	1,353.9235	0.927601	1,353.9235	0.927601	0.01	0.005
1,3-butadiene	0.5633	0.002453	0.3463	0.001256	61.7922	0.0260172	62.1385	0.027273	61.5752	0.024819	**41.33**	-
2-ethoxyethanol {cellosolve} {egee}	-	-	-	-	15.4440	0.0105810	15.4440	0.010581	15.4440	0.010581	0.00	0.009
2-ethoxyethyl acetate {cellosolve acetate}	-	-	-	-	18.0180	0.0123445	18.0180	0.012345	18.0180	0.012345	0.00	0.029
acetaldehyde	0.2468	0.094807	0.1518	0.048504	33.3564	0.0199389	33.5081	0.068443	33.2613	(0.026365)	**0.37**	-
acrolein (2-propenal)	0.1383	0.000001	0.0850	0.000001	14.7814	0.0061062	14.8664	0.006107	14.7282	0.006106	**0.95**	**11.996**
ammonia	427.6800	0.146466	427.6800	0.146466	-	-	427.6800	0.146466	-	-	-	-
ARSENIC	0.0346	0.0001474	0.0064	0.000030	0.0289	0.0000099	0.0353	0.000040	0.0007	(0.000108)	0.04	(0.201)
benzene	74.0657	0.050258	73.0259	0.037651	311.6494	0.1411486	384.6753	0.178799	310.6096	0.128541	**34.82**	0.032
Bromine	0.0456	0.000183	0.0121	0.000038	-	-	0.0121	0.000038	(0.0335)	(0.000145)	-	-
CADMIUM	0.0300	0.000146	0.0055	0.000032	0.006660	0.0000024	0.0122	0.000034	(0.0178)	(0.000112)	(0.30)	-
CHLORINE	2.5121	0.008332	0.9754	0.001693	20.4379	0.0067730	21.4133	0.008466	18.9011	0.000133	**0.37**	0.000
chlorobenzene	-	-	-	-	10.2960	0.0070540	10.2960	0.007054	10.2960	0.007054	0.00	-
chloropicrin	-	-	-	-	41.1840	0.0282160	41.1840	0.028216	41.1840	0.028216	**0.40**	**0.364**
CHROMIUM VI	0.0062	0.000024	0.0017	0.000005	0.025039	0.0000084	0.0267	0.000013	0.0205	(0.000011)	**11.73**	-
COPPER	0.3685	0.001539	0.0718	0.000309	0.4661	0.0001585	0.5379	0.000468	0.1694	(0.001071)	-	(0.004)
dichloromethane {methylene chloride}	-	-	-	-	131.8380	0.0899544	131.8380	0.089954	131.8380	0.089954	**0.52**	0.002
diesel particulate matter	232.7182	-	84.5562	-	4.9338	-	89.4899	-	(143.2283)	-	(103.04)	-
ethyl chloride	-	-	-	-	8.4840	0.0057722	8.4840	0.005772	8.4840	0.005772	0.00	-
ethylbenzene	1.0979	0.003940	0.6750	0.002016	133.9684	0.0600038	134.6434	0.062020	133.5455	0.058080	0.00	-
ethylene glycol	-	-	-	-	449.7975	0.3081318	449.7975	0.308132	449.7975	0.308132	0.00	-
ethylene oxide	-	-	-	-	56.6280	0.0387970	56.6280	0.038797	56.6280	0.038797	**19.66**	-
formaldehyde	9.9900	0.192551	9.3199	0.099891	247.6431	0.1373911	256.9630	0.237282	246.9729	0.044731	**5.81**	**0.178**
isomers of xylene	5.0235	0.013455	3.0887	0.006887	615.1855	0.4214761	618.2742	0.428363	613.2507	0.414908	0.00	0.007
isopropyl alcohol	-	-	-	-	751.6075	0.5149416	751.6075	0.514942	751.6075	0.514942	0.00	0.060
LEAD	0.2999	0.001277	0.0555	0.000258	0.2753	0.0000948	0.3308	0.000353	0.0309	(0.000924)	0.01	-
MANGANESE	2.1149	0.008856	0.3950	0.001774	1.9135	0.0006565	2.3086	0.002431	0.1936	(0.006426)	0.00	-
MERCURY	0.0323	0.000151	0.0060	0.000032	0.0200	0.0000069	0.0260	0.000039	(0.0063)	(0.000112)	(0.00)	(0.023)
methyl ethyl ketone (mek) (2-butanone)	0.0195	0.019044	-	0.009743	347.5594	0.2384387	347.5594	0.248182	347.5399	0.229138	-	0.007
methyl t-butyl ether (mtbe)	1.9879	0.000013	1.2223	-	200.6892	0.0800833	201.9115	0.080083	199.9236	0.080070	**0.40**	-
m-xylene	3.7279	0.007902	2.2921	0.004045	479.5102	0.2207023	481.8024	0.224748	478.0745	0.216845	0.00	0.004
n-hexane	1.6223	0.002035	0.9975	0.001042	381.7615	0.2149091	382.7590	0.215951	381.1367	0.213916	0.00	-
NICKEL	0.0894	0.000367	0.0202	0.000075	0.1642	0.0000547	0.1844	0.000129	0.0950	(0.000238)	0.10	(0.015)
o-cresol (2-methyl-benzenol)	-	-	-	-	7.7220	0.0052905	7.7220	0.005291	7.7220	0.005291	0.00	-
o-xylene	1.2956	0.004328	0.7966	0.002215	203.2096	0.1018258	204.0061	0.104041	202.7106	0.099713	0.00	0.002
PAHs, total, with components not reported	0.0310	0.000011	0.0310	0.000011	-	-	0.0310	0.000011	-	-	-	-
p-dichlorobenzene	-	-	-	-	465.8937	0.3191933	465.8937	0.319193	465.8937	0.319193	**20.89**	-
perchloroethylene	-	-	-	-	136.4220	0.0934655	136.4220	0.093466	136.4220	0.093466	**3.21**	0.002
phenol (carbolic acid)	-	-	-	-	2.5740	0.0017635	2.5740	0.001764	2.5740	0.001764	0.00	0.000
propylene	3.2036	0.033505	1.9697	0.017144	354.3478	0.1507960	356.3175	0.167940	353.1140	0.134434	0.00	-
propylene glycol methyl ether {1-methoxy-2-propanol}	-	-	-	-	43.7580	0.0299795	43.7580	0.029980	43.7580	0.029980	0.00	-
p-xylene	-	0.001225	-	0.000627	514.8000	0.3527581	514.8000	0.353385	514.8000	0.352160	0.00	0.006
SELENIUM	0.0069	0.000034	0.0013	0.000008	0.004440	0.0000015	0.0057	0.000009	(0.0012)	(0.000025)	(0.00)	-
Sulfates	16.7476	0.063973	6.3810	0.013986	-	-	6.3810	0.013986	(10.3666)	(0.049987)	-	(0.156)
styrene	0.1290	0.000749	0.0793	0.000383	15.7522	0.0070956	15.8316	0.007479	15.7025	0.006730	0.00	0.000
toluene	6.0220	0.019032	3.7027	0.009741	1,542.7919	0.8857914	1,546.4945	0.895532	1,540.4725	0.876500	0.02	0.009
VANADIUM	0.1776	0.000759	0.0329	0.000154	0.15762	0.0000543	0.1905	0.000208	0.0129	(0.000551)	-	-
										ASI	**37.31**	**12.31**
										SCAQMD Threshold	1	1
										Exceed?	yes	**yes**

Newport Banning Ranch Tier 1 Health Risk Assessment Future Oilfield Impact on New Receptors	Future Oilfield Impact on Project Residential/ Commercial Sites			
			ASI	
			100 Meter	
	Qyr	Qhr	Cancer / Chronic	Acute
	(lbs/yr)	(lbs/hr)	PSI_p	PSI_p
1,1,1-trichloroethane	-	-		
1,3-butadiene	0.35	0.0012556	2.32E-01	
2-ethoxyethanol {cellosolve} {egee}	-	-		
2-ethoxyethyl acetate {cellosolve acetate}	-	-		
acetaldehyde	0.15	0.0485037	1.70E-03	-
acrolein (2-propenal)	0.09	0.0000006	5.48E-03	1.10E-03
ammonia	427.68	0.1464658	8.27E-03	1.71E-02
ARSENIC	0.006	0.0000298	4.13E-01	5.57E-02
benzene	73.03	0.0376506	**8.19E+00**	9.51E-03
Bromine	0.01	0.0000379		
CADMIUM	0.006	0.0000319	9.33E-02	
CHLORINE	0.98	0.0016929	1.89E-02	3.01E-03
chlorobenzene	-	-		
chloropicrin	-	-		
CHROMIUM VI	0.0017	0.0000050	9.51E-01	
COPPER	0.07	0.0003094		1.15E-03
dichloromethane {methylene chloride}	-	-		
diesel particulate matter	84.56	-	**6.08E+01**	
ethyl chloride	-	-		
ethylbenzene	0.68	0.0020163	1.31E-06	
ethylene glycol	-	-		
ethylene oxide	-	-		
formaldehyde	9.32	0.0998905	**2.19E-01**	3.96E-01
isomers of xylene	3.09	0.0068871	1.71E-05	1.17E-04
isopropyl alcohol	-	-		
LEAD	0.06	0.0002582	1.09E-02	
MANGANESE	0.40	0.0017740	7.64E-03	
MERCURY	0.006	0.0000322	2.59E-03	6.67E-03
methyl ethyl ketone (mek) (2-butanone)	-	0.0097428		2.80E-04
methyl t-butyl ether (mtbe)	1.22	-	2.46E-03	
m-xylene	2.29	0.0040454	1.27E-05	6.87E-05
n-hexane	1.00	0.0010422	5.51E-07	
NICKEL	0.02	0.0000747	2.06E-02	4.64E-03
o-cresol (2-methyl-benzenol)	-	-		
o-xylene	0.80	0.0022150	4.40E-06	3.76E-05
PAHs, total, with components not reported	0.03	0.0000106	4.03E+00	
p-dichlorobenzene	-	-		
perchloroethylene	-	-		
phenol (carbolic acid)	-	-		
propylene	1.97	0.0171436	2.54E-06	
propylene glycol methyl ether {1-methoxy-2-propanol}	-	-		
p-xylene	-	0.0006266		1.06E-05
SELENIUM	0.0013	0.0000075	2.48E-07	
Sulfates	6.38	0.0139856		4.36E-02
styrene	0.08	0.0003831	3.41E-07	6.82E-06
toluene	3.70	0.0097408	4.78E-05	9.83E-05
VANADIUM	0.03	0.0001537		
		ASI	**75.04**	**0.54**
		SCAQMD Threshold	1	1
		Exceed?	**yes**	no

Attachment D
Tier 4 Risk Assessment with HARP

Newport Banning Ranch
HARP Output

	Cancer Risk - 70 Yrs			Chronic Non-Cancer Risk			Acute Risk		
	Baseline	*Proposed Project*	*Incremental Impact*	*Baseline*	*Proposed Project*	*Incremental Impact*	*Baseline*	*Proposed Project*	*Incremental Impact*
REC	**TOTAL**	**TOTAL**	**TOTAL**	**MAX**	**MAX**	**MAX**	**MAX**	**MAX**	**MAX**
1	7.3E-06	2.82E-06	-4.46E-06	0.02	0.01	-6.50E-03	0.03	0.05	0.02
2	8.9E-06	5.71E-06	-3.21E-06	0.03	0.04	1.37E-02	0.03	0.08	0.05
3	8.4E-06	4.64E-06	-3.71E-06	0.02	0.03	1.10E-03	0.03	0.07	0.04
4	9.1E-06	3.60E-06	-5.49E-06	0.03	0.02	-5.40E-03	0.03	0.06	0.04
5	8.8E-06	3.19E-06	-5.62E-06	0.03	0.02	-7.80E-03	0.03	0.06	0.03
6	8.2E-06	2.99E-06	-5.24E-06	0.02	0.02	-8.10E-03	0.03	0.05	0.03
7	9.2E-06	7.59E-06	-1.58E-06	0.03	0.06	3.61E-02	0.03	0.09	0.06
8	9.6E-06	8.66E-06	-9.50E-07	0.03	0.07	4.67E-02	0.03	0.10	0.07
9	8.8E-06	8.72E-06	-1.00E-07	0.02	0.08	5.37E-02	0.03	0.09	0.05
10	8.3E-06	9.63E-06	1.35E-06	0.02	0.09	6.91E-02	0.03	0.09	0.06
11	7.1E-06	8.80E-06	1.75E-06	0.02	0.09	6.65E-02	0.03	0.09	0.06
12	8.6E-06	9.34E-06	7.20E-07	0.02	0.09	6.34E-02	0.03	0.09	0.06
13	3.6E-07	8.08E-07	4.46E-07	0.00	0.01	6.92E-03	0.02	0.05	0.04
14	5.3E-07	1.49E-06	9.56E-07	0.00	0.01	1.34E-02	0.02	0.07	0.05
15	5.5E-07	1.10E-06	5.48E-07	0.00	0.01	9.35E-03	0.02	0.06	0.04
16	1.8E-06	2.67E-06	8.90E-07	0.00	0.02	1.86E-02	0.04	0.07	0.03
17	2E-06	3.00E-06	1.03E-06	0.01	0.02	1.98E-02	0.03	0.08	0.04
18	1.6E-06	1.69E-06	9.00E-08	0.00	0.01	8.09E-03	0.06	0.07	0.01
19	1.3E-06	1.18E-06	-8.00E-08	0.00	0.01	4.70E-03	0.12	0.09	(0.02)
20	4.6E-07	8.21E-07	3.61E-07	0.00	0.01	6.37E-03	0.04	0.07	0.02
21	1.8E-07	3.02E-07	1.18E-07	0.00	0.00	2.10E-03	0.02	0.04	0.02
22	1.7E-07	2.62E-07	9.50E-08	0.00	0.00	1.76E-03	0.02	0.04	0.02
23	3.5E-07	6.64E-07	3.10E-07	0.00	0.01	5.31E-03	0.02	0.06	0.04
24	2.9E-07	5.60E-07	2.67E-07	0.00	0.01	4.39E-03	0.02	0.06	0.03
25	8.4E-07	3.17E-06	2.33E-06	0.00	0.03	2.99E-02	0.02	0.08	0.06
26	3.5E-07	8.02E-07	4.48E-07	0.00	0.01	6.88E-03	0.02	0.05	0.04
27	1.2E-06	3.77E-06	2.56E-06	0.00	0.04	3.47E-02	0.02	0.08	0.06
28	1.5E-06	4.51E-06	3.06E-06	0.00	0.05	4.18E-02	0.03	0.10	0.07
29	2.3E-06	3.84E-06	1.57E-06	0.01	0.04	3.25E-02	0.03	0.08	0.05
30	3E-06	5.67E-06	2.72E-06	0.01	0.06	4.96E-02	0.03	0.09	0.06
31	8.3E-06	1.04E-05	2.08E-06	0.02	0.10	7.96E-02	0.03	0.11	0.08
32	5.6E-06	7.65E-06	2.01E-06	0.02	0.08	6.07E-02	0.02	0.10	0.08
33	3.4E-06	4.86E-06	1.46E-06	0.01	0.05	3.89E-02	0.03	0.09	0.06
34	3.5E-06	4.96E-06	1.48E-06	0.01	0.05	3.95E-02	0.03	0.09	0.06
35	9.1E-06	3.00E-06	-6.14E-06	0.03	0.02	-1.13E-02	0.03	0.06	0.03
36	5.7E-06	2.07E-06	-3.66E-06	0.02	0.01	-5.40E-03	0.02	0.04	0.01
37	2.8E-06	8.34E-07	-1.93E-06	0.01	0.00	-3.10E-03	0.01	0.03	0.01
38	2.8E-06	8.64E-07	-1.98E-06	0.01	0.00	-3.20E-03	0.01	0.03	0.01
39	4.6E-06	9.17E-07	-3.70E-06	0.01	0.00	-8.72E-03	0.02	0.03	0.01
40	2.9E-06	2.06E-06	-8.50E-07	0.01	0.01	-3.10E-04	0.02	0.04	0.02
41	2.5E-06	2.69E-06	1.70E-07	0.01	0.01	3.39E-03	0.02	0.06	0.04
42	2.9E-06	3.44E-06	5.50E-07	0.01	0.01	3.87E-03	0.02	0.07	0.05
43	2.5E-06	3.56E-06	1.02E-06	0.01	0.01	6.33E-03	0.02	0.09	0.06
44	2E-06	2.89E-06	8.50E-07	0.01	0.01	6.54E-03	0.02	0.09	0.07
45	2.8E-06	4.93E-06	2.13E-06	0.01	0.04	3.34E-02	0.03	0.08	0.05
46	2.5E-06	4.18E-06	1.67E-06	0.01	0.05	4.64E-02	0.04	0.09	0.05
47	2.4E-06	4.17E-06	1.78E-06	0.01	0.06	5.39E-02	0.05	0.09	0.04
48	2.4E-06	4.44E-06	2.06E-06	0.01	0.07	6.77E-02	0.05	0.10	0.04
49	2.2E-06	3.92E-06	1.69E-06	0.01	0.06	5.06E-02	0.06	0.09	0.03
50	2.1E-06	3.45E-06	1.33E-06	0.00	0.04	4.02E-02	0.07	0.09	0.02
51	2.2E-06	3.39E-06	1.15E-06	0.00	0.04	3.78E-02	0.09	0.10	0.01
52	2.5E-06	3.12E-06	6.70E-07	0.00	0.03	2.41E-02	0.10	0.10	(0.00)
53	2.7E-06	2.57E-06	-1.50E-07	0.00	0.01	1.04E-02	0.10	0.09	(0.00)
54	9.2E-07	1.06E-06	1.41E-07	0.00	0.01	5.78E-03	0.11	0.10	(0.01)
55	5.2E-07	8.67E-07	3.52E-07	0.00	0.01	6.42E-03	0.06	0.08	0.02

	Cancer Risk - 70 Yrs			Chronic Non-Cancer Risk			Acute Risk		
	Baseline	*Proposed Project*	*Incremental Impact*	*Baseline*	*Proposed Project*	*Incremental Impact*	*Baseline*	*Proposed Project*	*Incremental Impact*
REC	**TOTAL**	**TOTAL**	**TOTAL**	**MAX**	**MAX**	**MAX**	**MAX**	**MAX**	**MAX**
56	3.4E-07	6.30E-07	2.87E-07	0.00	0.01	4.93E-03	0.04	0.06	0.02
57	2.3E-07	4.16E-07	1.88E-07	0.00	0.00	3.11E-03	0.03	0.05	0.02
58	2E-07	3.42E-07	1.44E-07	0.00	0.00	2.46E-03	0.02	0.05	0.02
59	2.5E-07	4.64E-07	2.17E-07	0.00	0.00	3.56E-03	0.02	0.05	0.03
60	4.5E-07	8.48E-07	3.98E-07	0.00	0.01	6.98E-03	0.02	0.07	0.05
61	6.6E-07	1.46E-06	7.96E-07	0.00	0.01	1.28E-02	0.02	0.07	0.05
62	6.1E-07	1.95E-06	1.34E-06	0.00	0.02	1.78E-02	0.02	0.07	0.05
63	4.9E-07	1.35E-06	8.63E-07	0.00	0.01	1.21E-02	0.02	0.06	0.05
64	4.1E-07	9.85E-07	5.78E-07	0.00	0.01	8.62E-03	0.02	0.06	0.04
65	4.8E-07	1.81E-06	1.33E-06	0.00	0.02	1.70E-02	0.02	0.06	0.05
66	6.2E-07	3.97E-06	3.35E-06	0.00	0.04	3.89E-02	0.02	0.07	0.06
67	7.8E-07	3.63E-06	2.85E-06	0.00	0.04	3.49E-02	0.02	0.08	0.06
68	9.7E-07	3.47E-06	2.50E-06	0.00	0.03	3.26E-02	0.02	0.08	0.06
69	1.3E-06	4.18E-06	2.86E-06	0.00	0.04	3.87E-02	0.03	0.09	0.06
70	1.8E-06	3.43E-06	1.60E-06	0.00	0.03	2.97E-02	0.02	0.08	0.06
71	4.1E-06	7.99E-06	3.94E-06	0.01	0.08	7.01E-02	0.03	0.09	0.06
72	5.7E-06	9.26E-06	3.53E-06	0.02	0.09	7.77E-02	0.03	0.10	0.08
73	7E-06	8.99E-06	1.95E-06	0.02	0.09	6.84E-02	0.03	0.09	0.06
74	9.1E-06	1.09E-05	1.83E-06	0.03	0.11	7.95E-02	0.03	0.09	0.07
75	9.9E-06	1.09E-05	9.90E-07	0.03	0.10	7.49E-02	0.03	0.10	0.07
76	1E-05	1.02E-05	0.00E+00	0.03	0.09	6.20E-02	0.04	0.10	0.06
77	1E-05	8.95E-06	-1.25E-06	0.03	0.08	4.57E-02	0.03	0.10	0.07
78	9.4E-06	5.68E-06	-3.73E-06	0.03	0.04	1.13E-02	0.03	0.08	0.06
79	9.6E-06	3.80E-06	-5.82E-06	0.03	0.02	-6.20E-03	0.03	0.07	0.04
80	7.6E-06	2.84E-06	-4.78E-06	0.02	0.01	-7.80E-03	0.03	0.05	0.02
81	7.1E-06	2.45E-06	-4.67E-06	0.02	0.01	-7.70E-03	0.03	0.04	0.02
82	6.7E-06	2.16E-06	-4.49E-06	0.02	0.01	-7.30E-03	0.02	0.04	0.01
83	8E-06	2.06E-06	-5.96E-06	0.02	0.01	-1.40E-02	0.03	0.04	0.01
84	8.7E-06	1.86E-06	-6.88E-06	0.02	0.01	-1.72E-02	0.03	0.04	0.01
85	8.8E-06	1.64E-06	-7.18E-06	0.02	0.01	-1.81E-02	0.03	0.04	0.01
86	9.6E-06	1.42E-06	-8.15E-06	0.03	0.01	-2.15E-02	0.03	0.03	0.00
87	9.6E-06	1.22E-06	-8.34E-06	0.03	0.01	-2.25E-02	0.03	0.03	0.00
88	8.9E-06	1.07E-06	-7.78E-06	0.03	0.01	-2.11E-02	0.02	0.03	0.01
89	7.2E-06	9.51E-07	-6.25E-06	0.02	0.00	-1.68E-02	0.02	0.03	0.01
90	4E-06	8.76E-07	-3.12E-06	0.01	0.00	-6.58E-03	0.02	0.03	0.01
91	3.5E-06	8.86E-07	-2.57E-06	0.01	0.00	-4.90E-03	0.02	0.03	0.01
92	5E-06	1.03E-06	-3.93E-06	0.01	0.01	-9.26E-03	0.02	0.03	0.01
93	5E-06	1.17E-06	-3.84E-06	0.01	0.01	-8.86E-03	0.02	0.03	0.01
94	4.9E-06	1.34E-06	-3.60E-06	0.01	0.01	-8.04E-03	0.02	0.03	0.01
95	4.8E-06	1.54E-06	-3.25E-06	0.01	0.01	-7.05E-03	0.02	0.03	0.02
96	4.6E-06	1.75E-06	-2.80E-06	0.01	0.01	-5.89E-03	0.02	0.04	0.02
97	4.2E-06	1.95E-06	-2.27E-06	0.01	0.01	-4.58E-03	0.02	0.04	0.02
98	3.7E-06	2.08E-06	-1.65E-06	0.01	0.01	-2.91E-03	0.02	0.04	0.02
99	3E-06	2.32E-06	-6.40E-07	0.01	0.01	2.90E-04	0.02	0.05	0.02
100	2.8E-06	2.55E-06	-2.30E-07	0.01	0.01	1.74E-03	0.02	0.05	0.03
101	2.3E-06	3.88E-06	1.61E-06	0.01	0.02	9.35E-03	0.027	0.112	0.09
102	2.5E-06	4.35E-06	1.89E-06	0.01	0.02	1.48E-02	0.03	0.08	0.05
103	2.6E-06	4.20E-06	1.60E-06	0.01	0.04	3.50E-02	0.03	0.08	0.05
104	2.4E-06	4.05E-06	1.68E-06	0.01	0.05	4.81E-02	0.04	0.08	0.04
105	2.7E-06	2.18E-06	-4.70E-07	0.00	0.01	6.08E-03	0.10	0.09	(0.01)

Impact of Future Oilfield on Residential/Commercial/Recreational Receptors			
	Cancer Risk - 70 Yrs	*Chronic Non-Cancer Risk*	*Acute Risk*
REC	**TOTAL**	**MAX**	**MAX**
1	2E-07	0.00	0.02
2	4E-07	0.00	0.02
3	3E-07	0.00	0.02
4	4E-07	0.00	0.02
5	2E-07	0.00	0.01
6	2E-07	0.00	0.01
7	1E-07	0.00	0.01
8	2E-07	0.00	0.01
9	2E-07	0.00	0.01
10	1E-06	0.01	0.03
11	8E-07	0.00	0.02
12	5E-07	0.00	0.02
13	1E-06	0.01	0.02
14	9E-07	0.01	0.02
15	7E-07	0.00	0.02
16	5E-07	0.00	0.02
17	4E-07	0.00	0.02
18	2E-07	0.00	0.01
19	2E-07	0.00	0.01
20	1E-06	0.01	0.02
21	8E-07	0.01	0.02
22	6E-07	0.00	0.02
23	6E-07	0.00	0.02
24	1E-06	0.01	0.02
25	9E-07	0.00	0.02
26	7E-07	0.00	0.02
27	6E-07	0.00	0.02
28	2E-06	0.01	0.03
29	1E-06	0.00	0.03
30	9E-07	0.00	0.02
31	7E-07	0.00	0.02
32	1E-06	0.00	0.02
33	1E-06	0.00	0.02
34	1E-06	0.00	0.03
35	3E-06	0.00	0.03
36	2E-06	0.00	0.02
37	7E-07	0.00	0.02
38	5E-07	0.00	0.02
39	2E-07	0.00	0.01
40	2E-07	0.00	0.01
41	2E-07	0.00	0.01

Impact of Future Oilfield on Residential/Commercial/Recreational Receptors			
	Cancer Risk - 70 Yrs	*Chronic Non-Cancer Risk*	*Acute Risk*
REC	**TOTAL**	**MAX**	**MAX**
1	1E-06	0.01	0.05
2	5E-07	0.01	0.03
3	6E-08	0.00	0.02
4	2E-07	0.00	0.03
5	2E-07	0.00	0.03
6	3E-07	0.01	0.03
7	3E-07	0.01	0.03
8	7E-07	0.01	0.05
9	4E-07	0.00	0.03
10	3E-07	0.01	0.03
11	3E-07	0.01	0.02

Proposed Project Incremental Impact on Existing Receptors			
	Cancer	*Chronic*	*Acute*
Max	4E-06	0.08	0.09
Receptor	71	31	101
Min	-8E-06	(0.02)	(0.02)
Average	-7E-07	0.02	0.04

Impact of Future Oilfield on Residential/Commercial Receptors			
	Cancer	*Chronic*	*Acute*
Max	3E-06	0.01	0.03
Receptor	35	13	28
Min	1E-07	0.0002	0.01
Average	7E-07	0.003	0.02

Impact of Future Oilfield on Recreational Receptors			
	Cancer	*Chronic*	*Acute*
Max	1E-06	0.01	0.05
Receptor	1	2	1
Min	6E-08	0.0003	0.02
Average	4E-07	0.006	0.03

Attachment E
Census Data and Cancer Burden Calculation

CDM

Newport Banning Ranch
Incremental Cancer Burden
SCREEN3 Results

DPM Unit Risk Factor:	3.00E-04	per (ug/m3)	
DPM Emissions Rate:	85	lbs/year	
=	1.22E-03	grams/sec	
DPM Emissions Flux:	1.50E-08	grams/(sec*m2)	
Consolidated Oilfield Size:	20	acres	
=	81,480	square meters	4074 m2/acre
Equivalent Square Dimension:	285.45	meters per side	

Distance (m)	1-Hour Conc. (ug/m3)	Stability	U10M (m/s)	USTK (m/s)	MIXHT (m)	PLUME HT (m)	MAXDIR (deg)
500	0.1329	5	1	1	10000	5	45
600	0.1089	5	1	1	10000	5	45
700	9.19E-02	5	1	1	10000	5	45
800	7.92E-02	5	1	1	10000	5	45
900	6.92E-02	5	1	1	10000	5	45
1000	6.13E-02	5	1	1	10000	5	45
1100	5.48E-02	5	1	1	10000	5	45
1200	4.94E-02	5	1	1	10000	5	45
1300	4.49E-02	5	1	1	10000	5	44
1400	4.10E-02	5	1	1	10000	5	43
1500	3.77E-02	5	1	1	10000	5	44
1600	3.48E-02	5	1	1	10000	5	45
1700	3.23E-02	5	1	1	10000	5	45
1800	3.01E-02	5	1	1	10000	5	44
1900	2.82E-02	5	1	1	10000	5	42
2000	2.64E-02	5	1	1	10000	5	44

Distance (m)	Annual Conc. (ug/m^3)	Cancer Risk (per 10^6)
500	1.06E-02	3.19E-06
600	8.71E-03	2.61E-06
700	7.35E-03	2.21E-06
800	6.33E-03	1.90E-06
900	5.54E-03	1.66E-06
1000	4.90E-03	1.47E-06
1100	4.38E-03	1.31E-06
1200	3.95E-03	1.19E-06
1300	3.59E-03	1.08E-06
1400	3.28E-03	9.84E-07
1500	3.01E-03	9.04E-07
1600	2.79E-03	8.36E-07
1700	2.58E-03	7.75E-07
1800	2.41E-03	7.22E-07
1900	2.25E-03	6.76E-07
2000	2.11E-03	6.34E-07

Use 1.25 mil radius to be extremely conservative.

Approx. 1400 meters to the 1 x 10^{-6} Risk value.

1400 m2 = 4593.176 ft

= 0.86992 mi

Newport Banning Ranch
Incremental Cancer Burden
SCREEN3 Results

10:32:26

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 ***  SCREEN3 MODEL RUN  ***
 *** VERSION DATED 96043 ***

Newport Banning Ranch - DPM Concentrations

SIMPLE TERRAIN INPUTS:
  SOURCE TYPE               =       AREA
  EMISSION RATE (G/(S-M**2)) =     .150000E-07
  SOURCE HEIGHT (M)         =      5.0000
  LENGTH OF LARGER SIDE (M)  =    285.4500
  LENGTH OF SMALLER SIDE (M) =    285.4500
  RECEPTOR HEIGHT (M)       =      1.8000
  URBAN/RURAL OPTION        =       URBAN
THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

  MODEL ESTIMATES DIRECTION TO MAX CONCENTRATION


BUOY. FLUX =     .000 M**4/S**3;  MOM. FLUX =     .000 M**4/S**2.

*** FULL METEOROLOGY ***

**********************************
*** SCREEN AUTOMATED DISTANCES ***
**********************************

*** TERRAIN HEIGHT OF    0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

  DIST    CONC          U10M   USTK  MIX HT   PLUME  MAX DIR
  (M)   (UG/M**3)   STAB  (M/S)  (M/S)    (M)   HT (M)   (DEG)
------- ---------- ---- ----- ----- ------ ------ -------
  500.  .1329       5    1.0   1.0 10000.0   5.00    45.
  600.  .1089       5    1.0   1.0 10000.0   5.00    45.
  700.  .9189E-01   5    1.0   1.0 10000.0   5.00    45.
  800.  .7915E-01   5    1.0   1.0 10000.0   5.00    45.
  900.  .6923E-01   5    1.0   1.0 10000.0   5.00    45.
 1000.  .6128E-01   5    1.0   1.0 10000.0   5.00    45.
 1100.  .5479E-01   5    1.0   1.0 10000.0   5.00    45.
 1200.  .4940E-01   5    1.0   1.0 10000.0   5.00    45.
 1300.  .4486E-01   5    1.0   1.0 10000.0   5.00    44.
 1400.  .4100E-01   5    1.0   1.0 10000.0   5.00    43.
 1500.  .3768E-01   5    1.0   1.0 10000.0   5.00    44.
 1600.  .3482E-01   5    1.0   1.0 10000.0   5.00    45.
 1700.  .3230E-01   5    1.0   1.0 10000.0   5.00    45.
 1800.  .3010E-01   5    1.0   1.0 10000.0   5.00    44.
 1900.  .2815E-01   5    1.0   1.0 10000.0   5.00    42.
 2000.  .2641E-01   5    1.0   1.0 10000.0   5.00    44.

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND   500. M:
  500.  .1329       5    1.0   1.0 10000.0   5.00    45.

   ***************************************
   *** SUMMARY OF SCREEN MODEL RESULTS ***
   ***************************************

 CALCULATION       MAX CONC    DIST TO   TERRAIN
  PROCEDURE       (UG/M**3)    MAX (M)    HT (M)
-------------    -----------  -------  -------
SIMPLE TERRAIN     .1329         500.       0.


************************************************
** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **
************************************************
```

Newport Banning Ranch
Census tracts within 1.25 mile radius

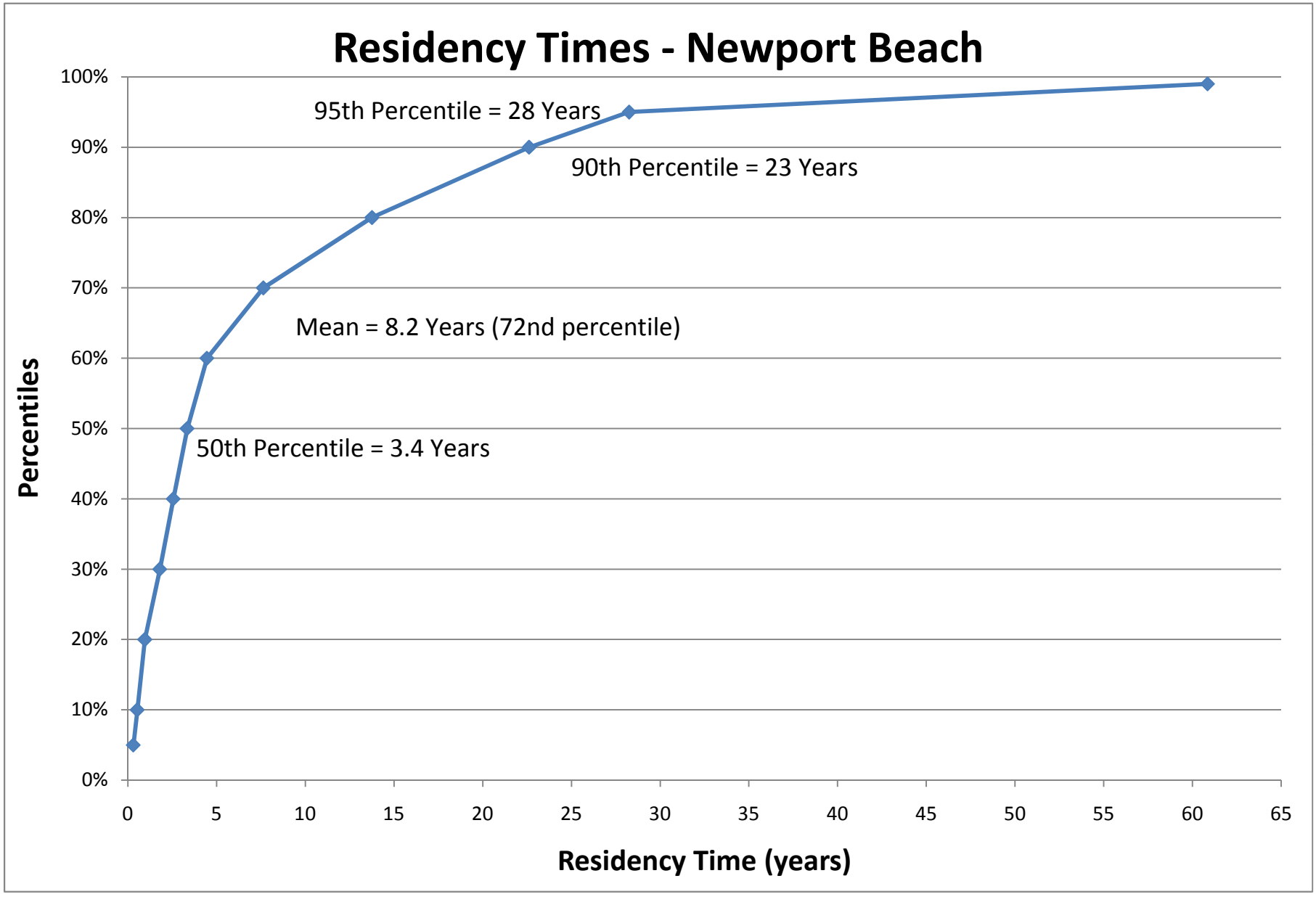
Census Tracts within 1 mile radius of Newport Banning Ranch	Population in occupied housing units: Total population in occupied housing units	Population in occupied housing units: Total population in occupied housing units; Owner occupied	Population in occupied housing units: Total population in occupied housing units; Owner occupied; Moved in 1999 to March 2000	Population in occupied housing units: Total population in occupied housing units; Owner occupied; Moved in 1995 to 1998	Population in occupied housing units: Total population in occupied housing units; Owner occupied; Moved in 1990 to 1994	Population in occupied housing units: Total population in occupied housing units; Owner occupied; Moved in 1980 to 1989	Population in occupied housing units: Total population in occupied housing units; Owner occupied; Moved in 1970 to 1979	Population in occupied housing units: Total population in occupied housing units; Owner occupied; Moved in 1969 or earlier	Population in occupied housing units: Total population in occupied housing units; Renter occupied	Population in occupied housing units: Total population in occupied housing units; Renter occupied; Moved in 1999 to March 2000	Population in occupied housing units: Total population in occupied housing units; Renter occupied; Moved in 1995 to 1998	Population in occupied housing units: Total population in occupied housing units; Renter occupied; Moved in 1990 to 1994	Population in occupied housing units: Total population in occupied housing units; Renter occupied; Moved in 1980 to 1989	Population in occupied housing units: Total population in occupied housing units; Renter occupied; Moved in 1970 to 1979	Population in occupied housing units: Total population in occupied housing units; Renter occupied; Moved in 1969 or earlier
629	1,811	1,481	157	496	102	201	338	187	330	117	101	78	7	13	14
633.01	2,934	619	33	143	115	233	37	58	2,315	914	1,033	126	159	83	-
633.02	4,054	2,321	135	603	587	420	250	326	1,733	545	653	451	72	12	-
634	4,954	3,825	332	1,088	687	764	542	412	1,129	466	442	101	68	31	21
635	6,157	1,952	192	598	222	509	174	257	4,205	1,746	2,033	322	94	10	-
636.01	3,643	2,390	102	779	335	527	439	208	1,253	359	520	230	56	30	58
636.03	5,693	2,666	509	759	457	510	318	113	3,027	1,158	1,357	343	160	9	-
636.04	3,983	834	119	183	225	130	171	6	3,149	1,076	1,312	475	247	39	-
636.05	5,503	461	147	126	-	119	39	30	5,042	1,040	3,137	651	161	40	13
637.01	6,455	694	19	357	25	89	-	204	5,761	1,329	2,893	1,251	140	148	-
637.02	5,418	862	187	214	85	173	78	125	4,556	1,297	2,554	484	213	-	8
638.03	4,607	3,083	366	1,152	457	495	357	256	1,524	544	624	278	78	-	-
638.08	6,371	1,530	129	579	193	470	75	84	4,841	1,157	2,574	735	312	47	16
992.17	2,460	2,047	168	384	278	440	454	323	413	197	157	26	27	-	6
992.20	5,421	3,596	357	1,159	694	670	563	153	1,825	841	670	264	50	-	-
992.37	3,518	2,651	160	632	488	530	627	214	867	132	376	199	35	125	-
992.38	4,099	3,837	286	731	647	822	1,273	78	262	15	147	62	25	13	-
992.39	4,013	3,591	267	640	800	721	696	467	422	14	219	151	38	-	-
992.40	5,152	3,394	487	575	542	564	986	240	1,758	943	549	164	79	23	-
TOTAL	**86,246**	**41,834**	**4,152**	**11,198**	**6,939**	**8,387**	**7,417**	**3,741**	**44,412**	**13,890**	**21,351**	**6,391**	**2,021**	**623**	**136**

Cancer Burden (High estimate) = (86,246 people) x (4 cases / million people) = 0.34

Newport Banning Ranch
Census tracts within 1.25 mile radius

U.S. Census Bureau
American FactFinder

Source: U.S. Census Bureau. http://factfinder.census.gov/home/saff/main.html?_lang=en


Residency Times - Newport Beach
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Percentiles
95th Percentile = 28 Years
90th Percentile = 23 Years
Mean = 8.2 Years (72nd percentile)
50th Percentile = 3.4 Years
0
5
10
15
20
25
30
35
40
45
50
55
60
65
Residency Time (years)

Newport Banning Ranch buildout 060911

Orange County, Winter plus Summer Summaries

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
City Park	28	Acre
Hotel	75	Room
Condo/Townhouse	222	Dwelling Unit
Condo/Townhouse High Rise	730	Dwelling Unit
Single Family Housing	423	Dwelling Unit
Regional Shopping Center	75	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	Southern California Edison
Climate Zone	8		2.2		
		Precipitation Freq (Days)			

1.3 User Entered Comments

30

Project Characteristics - All operational, most const; arch coating and paving run separately.

Land Use - Lot acreages and population from project description and Section 4.7

Construction Phase - All phases from project plan. Paving and arch coating calculated separately.

Off-road Equipment - Build 1 - 1 Crane, 3 forklift, 1 generator, 2 welder, 2 trac/loader/backhoe

Off-road Equipment - Build 2 - 1 Crane, 3 forklift, 1 generator, 2 welder, 2 trac/loader/backhoe

Off-road Equipment - Build 3 - 1 Crane, 3 forklift, 1 generator, 2 welder, 2 trac/loader/backhoe

Off-road Equipment - Equipment from project plan;
Grading 2- 2 Excavator, 1 grader, 1 dozer, 1 scraper, 2 trac/loader/backhoe

Off-road Equipment - Equipment from project plan;
Grading 3 - 2 Excavator, 1 grader, 2 dozer, 1 scraper, 2 trac/loader/backhoe

Off-road Equipment - Equipment from project plan;
Grading 1 - 2 Excavator, 1 grader, 1 dozer, 1 scraper, 2 trac/loader/backhoe

Off-road Equipment - Equipment from project plan;
Rem 1 - 1 Excavator, 1 grader, 2 dozer, 1 scraper, 2 trac/loader/backhoe

Off-road Equipment - Equipment from project plan;
Rem 2 - 1 Excavator, 1 grader, 2 dozer, 1 scraper, 2 trac/loader/backhoe

Off-road Equipment - Equipment from project plan;
Rem 3 - 1 Excavator, 1 grader, 1 dozer, 1 scraper, 2 trac/loader/backhoe

Trips and VMT - Worker/vendor trips calculated from CalEEMod Appx A factors

Grading - Export and acreage of disturbance from project description

Vehicle Trips - Weekday trip rates from traffic analysis. Sat and Sun rates from default ratios.
Soccer field and tennis court trips included in City Park
Res H/W trip and Non res C-C entries per SCAQMD.

Woodstoves - No wood stoves or wood fireplaces. Gas FP in all SF and 90% of condo/townhouse.

Energy Use -

Water And Wastewater - Water use from project WSA in EIR Section 4.15; res grouping may vary but all H2O included.

Solid Waste - Solid waste generation rates from project study; substantially higher than defaults.
Landfill gas data for Bowerman landfill from OCWaste.

Land Use Change - Data per bio resources analysis

Construction Off-road Equipment Mitigation - Engine mitigation - Roughly 50% Tier 3 and 50% Tier 4
Dust mitigation - per Rule 403

Mobile Land Use Mitigation - 1,375 du/150 acres-conservative inclusion of 50 acres local parks
206 du below market rate
Area Mitigation -

Energy Mitigation -

Water Mitigation -

Mobile Commute Mitigation -

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Note 1: Construction only. Summaries shown for winter and summer. Differences in construction emissions between winter and summer are negligible. Details shown for winter only.

Note 2: Construction paving and architectrual coating emissions calculated separately for each phase and added to values below for total emissions

Unmitigated Construction - Winter

	ROG	NOx	CO	SO2	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					
2014	19.68	157.01	93.09	0.18	48.31	7.38	55.68	9.97	7.38	17.35		18,791.96	0.00	1.75	0.00	18,828.73
2015	23.91	175.52	119.71	0.24	50.10	8.57	58.67	10.05	8.57	18.62		24,327.52	0.00	2.13	0.00	24,372.17
2016	20.03	142.04	105.46	0.21	29.34	6.96	36.30	6.72	6.96	13.69		21,876.04	0.00	1.79	0.00	21,913.57
2017	25.19	163.07	148.33	0.32	35.96	8.02	43.98	7.00	8.02	15.02		31,635.93	0.00	2.23	0.00	31,682.74
2018	12.91	79.17	82.16	0.19	13.16	3.81	16.96	3.41	3.77	7.19		18,183.24	0.00	1.14	0.00	18,207.12
2019	17.68	100.36	122.78	0.29	20.03	4.82	24.85	3.51	4.76	8.27		27,971.70	0.00	1.55	0.00	28,004.22
2020	10.43	51.21	82.45	0.21	13.49	2.52	16.01	0.20	2.46	2.66		19,361.25	0.00	0.89	0.00	19,380.01
2021	4.90	23.57	40.31	0.11	6.87	1.12	7.99	0.10	1.09	1.19		9,739.37	0.00	0.42	0.00	9,748.12
2022	4.63	21.73	39.16	0.11	6.87	0.99	7.87	0.10	0.96	1.07		9,679.37	0.00	0.39	0.00	9,687.56
2023	4.38	20.09	38.14	0.11	6.87	0.88	7.76	0.10	0.86	0.96		9,623.98	0.00	0.37	0.00	9,631.69
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

Unmitigated Construction - Summer

	ROG	NOx	CO	SO2	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					
2014	19.66	156.79	93.07	0.18	48.31	7.37	55.68	9.97	7.37	17.35		18,822.30	0.00	1.75	0.00	18,859.07
2015	23.82	175.18	119.82	0.24	50.10	8.57	58.67	10.05	8.57	18.62		24,445.05	0.00	2.13	0.00	24,489.76
2016	19.95	141.80	105.60	0.22	29.34	6.96	36.30	6.72	6.96	13.68		21,987.50	0.00	1.79	0.00	22,025.08
2017	24.91	162.35	148.84	0.32	35.96	8.02	43.97	7.00	8.02	15.02		32,040.26	0.00	2.24	0.00	32,087.24
2018	12.70	78.72	82.54	0.19	13.16	3.80	16.96	3.41	3.77	7.18		18,485.88	0.00	1.14	0.00	18,509.91
2019	17.28	99.58	123.40	0.30	20.03	4.81	24.84	3.51	4.75	8.27		28,565.82	0.00	1.56	0.00	28,598.64
2020	10.05	50.55	82.93	0.22	13.49	2.51	16.00	0.20	2.45	2.65		19,934.23	0.00	0.91	0.00	19,953.24
2021	4.72	23.28	40.52	0.11	6.87	1.11	7.99	0.10	1.09	1.19		10,027.83	0.00	0.42	0.00	10,036.72
2022	4.44	21.48	39.34	0.11	6.87	0.99	7.86	0.10	0.96	1.06		9,964.24	0.00	0.40	0.00	9,972.57
2023	4.20	19.88	38.29	0.11	6.87	0.88	7.75	0.10	0.85	0.95		9,905.60	0.00	0.37	0.00	9,913.45
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

Mitigated Construction - Winter

	ROG	NOx	CO	SO2	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					
2014	8.32	41.68	93.44	0.18	36.93	2.67	39.60	3.91	2.67	6.58		18,791.96	0.00	1.75	0.00	18,828.73
2015	11.77	60.10	124.76	0.24	38.80	3.90	42.71	3.99	3.90	7.89		24,327.52	0.00	2.13	0.00	24,372.17
2016	11.03	57.22	114.77	0.21	21.80	3.78	25.59	2.69	3.78	6.47		21,876.04	0.00	1.79	0.00	21,913.57
2017	16.32	82.49	161.79	0.32	28.42	5.34	33.76	2.96	5.34	8.30		31,635.93	0.00	2.23	0.00	31,682.74
2018	9.02	43.67	90.23	0.19	9.33	2.80	12.14	1.39	2.77	4.16		18,183.24	0.00	1.14	0.00	18,207.12
2019	14.07	67.71	134.12	0.29	16.21	4.33	20.54	1.49	4.27	5.76		27,971.70	0.00	1.55	0.00	28,004.22
2020	10.03	47.88	87.34	0.21	13.49	3.05	16.54	0.20	2.99	3.19		19,361.25	0.00	0.89	0.00	19,380.01
2021	4.96	23.64	42.94	0.11	6.87	1.52	8.39	0.10	1.49	1.59		9,739.37	0.00	0.42	0.00	9,748.12
2022	4.87	23.23	41.88	0.11	6.87	1.51	8.38	0.10	1.48	1.58		9,679.37	0.00	0.39	0.00	9,687.56
2023	4.79	22.89	40.92	0.11	6.87	1.50	8.37	0.10	1.47	1.57		9,623.98	0.00	0.37	0.00	9,631.69
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

Mitigated Construction - Summer

	ROG	NOx	CO	SO2	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					
2014	8.30	41.47	93.42	0.18	36.93	2.66	39.60	3.91	2.66	6.58		18,822.30	0.00	1.75	0.00	18,859.07
2015	11.68	59.75	124.88	0.24	38.80	3.90	42.70	3.99	3.90	7.89		24,445.05	0.00	2.13	0.00	24,489.76
2016	10.95	56.98	114.91	0.22	21.80	3.78	25.58	2.69	3.78	6.47		21,987.50	0.00	1.79	0.00	22,025.08
2017	16.03	81.78	162.30	0.32	28.42	5.34	33.75	2.96	5.34	8.30		32,040.26	0.00	2.24	0.00	32,087.24
2018	8.82	43.23	90.61	0.19	9.33	2.80	12.13	1.39	2.77	4.16		18,485.88	0.00	1.14	0.00	18,509.91
2019	13.67	66.93	134.74	0.30	16.21	4.33	20.53	1.49	4.26	5.76		28,565.82	0.00	1.56	0.00	28,598.64
2020	9.65	47.21	87.82	0.22	13.49	3.05	16.53	0.20	2.99	3.18		19,934.23	0.00	0.91	0.00	19,953.24
2021	4.78	23.35	43.15	0.11	6.87	1.52	8.39	0.10	1.49	1.59		10,027.83	0.00	0.42	0.00	10,036.72
2022	4.69	22.99	42.06	0.11	6.87	1.51	8.38	0.10	1.48	1.58		9,964.24	0.00	0.40	0.00	9,972.57
2023	4.61	22.68	41.07	0.11	6.87	1.50	8.37	0.10	1.47	1.57		9,905.60	0.00	0.37	0.00	9,913.45
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

3.0 Construction Detail

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

3.2 Remediation 1 - 2014

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					12.42	0.00	12.42	6.62	0.00	6.62						0.00
Off-Road	10.34	83.57	47.07	0.09		3.85	3.85		3.85	3.85		9,508.88		0.93		9,528.32
Total	**10.34**	**83.57**	**47.07**	**0.09**	**12.42**	**3.85**	**16.27**	**6.62**	**3.85**	**10.47**		**9,508.88**		**0.93**		**9,528.32**

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	0.33	3.44	2.14	0.01	29.10	0.13	29.24	0.02	0.13	0.15		591.53		0.02		591.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.11	0.11	1.05	0.00	0.28	0.01	0.29	0.01	0.01	0.02		200.83		0.01		201.06
Total	**0.44**	**3.55**	**3.19**	**0.01**	**29.38**	**0.14**	**29.53**	**0.03**	**0.14**	**0.17**		**792.36**		**0.03**		**792.94**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.84	0.00	4.84	2.58	0.00	2.58						0.00
Off-Road	4.04	19.33	45.78	0.09		1.28	1.28		1.28	1.28		9,508.88		0.93		9,528.32
Total	**4.04**	**19.33**	**45.78**	**0.09**	**4.84**	**1.28**	**6.12**	**2.58**	**1.28**	**3.86**		**9,508.88**		**0.93**		**9,528.32**

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	0.33	3.44	2.14	0.01	29.10	0.13	29.24	0.02	0.13	0.15		591.53		0.02		591.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.11	0.11	1.05	0.00	0.28	0.01	0.29	0.01	0.01	0.02		200.83		0.01		201.06
Total	**0.44**	**3.55**	**3.19**	**0.01**	**29.38**	**0.14**	**29.53**	**0.03**	**0.14**	**0.17**		**792.36**		**0.03**		**792.94**

3.3 Grading Phase I - 2014

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					6.23	0.00	6.23	3.31	0.00	3.31						0.00
Off-Road	8.80	69.78	41.77	0.08		3.37	3.37		3.37	3.37		8,289.89		0.79		8,306.41
Total	**8.80**	**69.78**	**41.77**	**0.08**	**6.23**	**3.37**	**9.60**	**3.31**	**3.37**	**6.68**		**8,289.89**		**0.79**		**8,306.41**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.11	0.11	1.05	0.00	0.28	0.01	0.29	0.01	0.01	0.02		200.83		0.01		201.06
Total	**0.11**	**0.11**	**1.05**	**0.00**	**0.28**	**0.01**	**0.29**	**0.01**	**0.01**	**0.02**		**200.83**		**0.01**		**201.06**

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					2.43	0.00	2.43	1.29	0.00	1.29						0.00
Off-Road	3.74	18.69	43.42	0.08		1.24	1.24		1.24	1.24		8,289.89		0.79		8,306.41
Total	**3.74**	**18.69**	**43.42**	**0.08**	**2.43**	**1.24**	**3.67**	**1.29**	**1.24**	**2.53**		**8,289.89**		**0.79**		**8,306.41**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.11	0.11	1.05	0.00	0.28	0.01	0.29	0.01	0.01	0.02		200.83		0.01		201.06
Total	**0.11**	**0.11**	**1.05**	**0.00**	**0.28**	**0.01**	**0.29**	**0.01**	**0.01**	**0.02**		**200.83**		**0.01**		**201.06**

3.3 Grading Phase I - 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					6.23	0.00	6.23	3.31	0.00	3.31						0.00
Off-Road	8.27	63.99	40.50	0.08		3.06	3.06		3.06	3.06		8,289.89		0.74		8,305.40
Total	**8.27**	**63.99**	**40.50**	**0.08**	**6.23**	**3.06**	**9.29**	**3.31**	**3.06**	**6.37**		**8,289.89**		**0.74**		**8,305.40**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.10	0.10	0.97	0.00	0.28	0.01	0.29	0.01	0.01	0.02		196.36		0.01		196.57
Total	**0.10**	**0.10**	**0.97**	**0.00**	**0.28**	**0.01**	**0.29**	**0.01**	**0.01**	**0.02**		**196.36**		**0.01**		**196.57**

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					2.43	0.00	2.43	1.29	0.00	1.29						0.00
Off-Road	3.74	18.69	43.42	0.08		1.24	1.24		1.24	1.24		8,289.89		0.74		8,305.40
Total	**3.74**	**18.69**	**43.42**	**0.08**	**2.43**	**1.24**	**3.67**	**1.29**	**1.24**	**2.53**		**8,289.89**		**0.74**		**8,305.40**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.10	0.10	0.97	0.00	0.28	0.01	0.29	0.01	0.01	0.02		196.36		0.01		196.57
Total	**0.10**	**0.10**	**0.97**	**0.00**	**0.28**	**0.01**	**0.29**	**0.01**	**0.01**	**0.02**		**196.36**		**0.01**		**196.57**

3.4 Remediation 2 - 2014

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					12.29	0.00	12.29	6.62	0.00	6.62						0.00
Off-Road	10.34	83.57	47.07	0.09		3.85	3.85		3.85	3.85		9,508.88		0.93		9,528.32
Total	**10.34**	**83.57**	**47.07**	**0.09**	**12.29**	**3.85**	**16.14**	**6.62**	**3.85**	**10.47**		**9,508.88**		**0.93**		**9,528.32**

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	0.22	2.27	1.41	0.00	29.10	0.09	29.18	0.01	0.09	0.10		389.82		0.01		390.05
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.11	0.11	1.05	0.00	0.28	0.01	0.29	0.01	0.01	0.02		200.83		0.01		201.06
Total	**0.33**	**2.38**	**2.46**	**0.00**	**29.38**	**0.10**	**29.47**	**0.02**	**0.10**	**0.12**		**590.65**		**0.02**		**591.11**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.79	0.00	4.79	2.58	0.00	2.58						0.00
Off-Road	4.04	19.33	45.78	0.09		1.28	1.28		1.28	1.28		9,508.88		0.93		9,528.32
Total	**4.04**	**19.33**	**45.78**	**0.09**	**4.79**	**1.28**	**6.07**	**2.58**	**1.28**	**3.86**		**9,508.88**		**0.93**		**9,528.32**

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	0.22	2.27	1.41	0.00	29.10	0.09	29.18	0.01	0.09	0.10		389.82		0.01		390.05
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.11	0.11	1.05	0.00	0.28	0.01	0.29	0.01	0.01	0.02		200.83		0.01		201.06
Total	**0.33**	**2.38**	**2.46**	**0.00**	**29.38**	**0.10**	**29.47**	**0.02**	**0.10**	**0.12**		**590.65**		**0.02**		**591.11**

3.4 Remediation 2 - 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					12.29	0.00	12.29	6.62	0.00	6.62						0.00
Off-Road	9.77	77.20	45.14	0.09		3.52	3.52		3.52	3.52		9,508.88		0.87		9,527.17
Total	**9.77**	**77.20**	**45.14**	**0.09**	**12.29**	**3.52**	**15.81**	**6.62**	**3.52**	**10.14**		**9,508.88**		**0.87**		**9,527.17**

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	0.20	2.00	1.28	0.00	29.10	0.07	29.17	0.01	0.07	0.09		391.57		0.01		391.77
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.10	0.10	0.97	0.00	0.28	0.01	0.29	0.01	0.01	0.02		196.36		0.01		196.57
Total	**0.30**	**2.10**	**2.25**	**0.00**	**29.38**	**0.08**	**29.46**	**0.02**	**0.08**	**0.11**		**587.93**		**0.02**		**588.34**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.79	0.00	4.79	2.58	0.00	2.58						0.00
Off-Road	4.04	19.33	45.78	0.09		1.28	1.28		1.28	1.28		9,508.88		0.87		9,527.17
Total	**4.04**	**19.33**	**45.78**	**0.09**	**4.79**	**1.28**	**6.07**	**2.58**	**1.28**	**3.86**		**9,508.88**		**0.87**		**9,527.17**

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	0.20	2.00	1.28	0.00	29.10	0.07	29.17	0.01	0.07	0.09		391.57		0.01		391.77
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.10	0.10	0.97	0.00	0.28	0.01	0.29	0.01	0.01	0.02		196.36		0.01		196.57
Total	**0.30**	**2.10**	**2.25**	**0.00**	**29.38**	**0.08**	**29.46**	**0.02**	**0.08**	**0.11**		**587.93**		**0.02**		**588.34**

3.5 Building Construction Phase I - 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	4.57	28.32	22.58	0.04		1.75	1.75		1.75	1.75		3,886.46		0.41		3,895.08
Total	**4.57**	**28.32**	**22.58**	**0.04**		**1.75**	**1.75**		**1.75**	**1.75**		**3,886.46**		**0.41**		**3,895.08**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.30	3.19	2.32	0.01	0.22	0.10	0.32	0.02	0.10	0.12		647.14		0.01		647.45
Worker	0.61	0.62	5.96	0.01	1.70	0.05	1.76	0.06	0.05	0.12		1,210.86		0.06		1,212.17
Total	**0.91**	**3.81**	**8.28**	**0.02**	**1.92**	**0.15**	**2.08**	**0.08**	**0.15**	**0.24**		**1,858.00**		**0.07**		**1,859.62**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.68	16.06	24.08	0.04		1.14	1.14		1.14	1.14		3,886.46		0.41		3,895.08
Total	**2.68**	**16.06**	**24.08**	**0.04**		**1.14**	**1.14**		**1.14**	**1.14**		**3,886.46**		**0.41**		**3,895.08**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.30	3.19	2.32	0.01	0.22	0.10	0.32	0.02	0.10	0.12		647.14		0.01		647.45
Worker	0.61	0.62	5.96	0.01	1.70	0.05	1.76	0.06	0.05	0.12		1,210.86		0.06		1,212.17
Total	**0.91**	**3.81**	**8.28**	**0.02**	**1.92**	**0.15**	**2.08**	**0.08**	**0.15**	**0.24**		**1,858.00**		**0.07**		**1,859.62**

3.5 Building Construction Phase I - 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	4.18	25.86	22.35	0.04		1.55	1.55		1.55	1.55		3,886.46		0.37		3,894.33
Total	**4.18**	**25.86**	**22.35**	**0.04**		**1.55**	**1.55**		**1.55**	**1.55**		**3,886.46**		**0.37**		**3,894.33**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.28	2.92	2.16	0.01	0.22	0.09	0.31	0.02	0.09	0.11		648.17		0.01		648.46
Worker	0.58	0.57	5.49	0.01	1.70	0.05	1.76	0.06	0.05	0.12		1,177.20		0.06		1,178.41
Total	**0.86**	**3.49**	**7.65**	**0.02**	**1.92**	**0.14**	**2.07**	**0.08**	**0.14**	**0.23**		**1,825.37**		**0.07**		**1,826.87**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.68	16.06	24.08	0.04		1.14	1.14		1.14	1.14		3,886.46		0.37		3,894.33
Total	**2.68**	**16.06**	**24.08**	**0.04**		**1.14**	**1.14**		**1.14**	**1.14**		**3,886.46**		**0.37**		**3,894.33**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.28	2.92	2.16	0.01	0.22	0.09	0.31	0.02	0.09	0.11		648.17		0.01		648.46
Worker	0.58	0.57	5.49	0.01	1.70	0.05	1.76	0.06	0.05	0.12		1,177.20		0.06		1,178.41
Total	**0.86**	**3.49**	**7.65**	**0.02**	**1.92**	**0.14**	**2.07**	**0.08**	**0.14**	**0.23**		**1,825.37**		**0.07**		**1,826.87**

3.5 Building Construction Phase I - 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					
Off-Road	3.82	23.58	22.15	0.04		1.36	1.36		1.36	1.36		3,886.46		0.34		3,893.62
Total	**3.82**	**23.58**	**22.15**	**0.04**		**1.36**	**1.36**		**1.36**	**1.36**		**3,886.46**		**0.34**		**3,893.62**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.26	2.69	2.03	0.01	0.22	0.08	0.31	0.02	0.08	0.10		649.86		0.01		650.12
Worker	0.55	0.52	5.08	0.01	1.70	0.06	1.76	0.06	0.06	0.12		1,151.68		0.05		1,152.81
Total	**0.81**	**3.21**	**7.11**	**0.02**	**1.92**	**0.14**	**2.07**	**0.08**	**0.14**	**0.22**		**1,801.54**		**0.06**		**1,802.93**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.68	16.06	24.08	0.04		1.14	1.14		1.14	1.14		3,886.46		0.34		3,893.62
Total	**2.68**	**16.06**	**24.08**	**0.04**		**1.14**	**1.14**		**1.14**	**1.14**		**3,886.46**		**0.34**		**3,893.62**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.26	2.69	2.03	0.01	0.22	0.08	0.31	0.02	0.08	0.10		649.86		0.01		650.12
Worker	0.55	0.52	5.08	0.01	1.70	0.06	1.76	0.06	0.06	0.12		1,151.68		0.05		1,152.81
Total	**0.81**	**3.21**	**7.11**	**0.02**	**1.92**	**0.14**	**2.07**	**0.08**	**0.14**	**0.22**		**1,801.54**		**0.06**		**1,802.93**

3.6 Remediation 3 - 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					6.10	0.00	6.10	3.31	0.00	3.31						0.00
Off-Road	7.43	58.08	35.19	0.07		2.74	2.74		2.74	2.74		7,393.75		0.66		7,407.66
Total	**7.43**	**58.08**	**35.19**	**0.07**	**6.10**	**2.74**	**8.84**	**3.31**	**2.74**	**6.05**		**7,393.75**		**0.66**		**7,407.66**

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	0.06	0.67	0.43	0.00	14.55	0.02	14.57	0.00	0.02	0.03		130.36		0.00		130.42
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.08	0.08	0.81	0.00	0.23	0.01	0.24	0.01	0.01	0.02		163.63		0.01		163.81
Total	**0.14**	**0.75**	**1.24**	**0.00**	**14.78**	**0.03**	**14.81**	**0.01**	**0.03**	**0.05**		**293.99**		**0.01**		**294.23**

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					2.38	0.00	2.38	1.29	0.00	1.29						0.00
Off-Road	3.52	18.22	37.59	0.07		1.22	1.22		1.22	1.22		7,393.75		0.66		7,407.66
Total	**3.52**	**18.22**	**37.59**	**0.07**	**2.38**	**1.22**	**3.60**	**1.29**	**1.22**	**2.51**		**7,393.75**		**0.66**		**7,407.66**

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	0.06	0.67	0.43	0.00	14.55	0.02	14.57	0.00	0.02	0.03		130.36		0.00		130.42
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.08	0.08	0.81	0.00	0.23	0.01	0.24	0.01	0.01	0.02		163.63		0.01		163.81
Total	**0.14**	**0.75**	**1.24**	**0.00**	**14.78**	**0.03**	**14.81**	**0.01**	**0.03**	**0.05**		**293.99**		**0.01**		**294.23**

3.6 Remediation 3 - 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					
Fugitive Dust					6.10	0.00	6.10	3.31	0.00	3.31						0.00
Off-Road	6.99	53.34	34.06	0.07		2.47	2.47		2.47	2.47		7,393.75		0.63		7,406.89
Total	**6.99**	**53.34**	**34.06**	**0.07**	**6.10**	**2.47**	**8.57**	**3.31**	**2.47**	**5.78**		**7,393.75**		**0.63**		**7,406.89**

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	0.06	0.60	0.39	0.00	14.55	0.02	14.57	0.00	0.02	0.03		130.59		0.00		130.65
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.08	0.08	0.74	0.00	0.23	0.01	0.24	0.01	0.01	0.02		159.08		0.01		159.24
Total	**0.14**	**0.68**	**1.13**	**0.00**	**14.78**	**0.03**	**14.81**	**0.01**	**0.03**	**0.05**		**289.67**		**0.01**		**289.89**

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					2.38	0.00	2.38	1.29	0.00	1.29						0.00
Off-Road	3.52	18.22	37.59	0.07		1.22	1.22		1.22	1.22		7,393.75		0.63		7,406.89
Total	**3.52**	**18.22**	**37.59**	**0.07**	**2.38**	**1.22**	**3.60**	**1.29**	**1.22**	**2.51**		**7,393.75**		**0.63**		**7,406.89**

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	0.06	0.60	0.39	0.00	14.55	0.02	14.57	0.00	0.02	0.03		130.59		0.00		130.65
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.08	0.08	0.74	0.00	0.23	0.01	0.24	0.01	0.01	0.02		159.08		0.01		159.24
Total	**0.14**	**0.68**	**1.13**	**0.00**	**14.78**	**0.03**	**14.81**	**0.01**	**0.03**	**0.05**		**289.67**		**0.01**		**289.89**

3.6 Remediation 3 - 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					
Fugitive Dust					6.10	0.00	6.10	3.31	0.00	3.31						0.00
Off-Road	6.57	48.92	33.05	0.07		2.23	2.23		2.23	2.23		7,393.75		0.59		7,406.07
Total	**6.57**	**48.92**	**33.05**	**0.07**	**6.10**	**2.23**	**8.33**	**3.31**	**2.23**	**5.54**		**7,393.75**		**0.59**		**7,406.07**

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	0.05	0.54	0.36	0.00	14.55	0.02	14.57	0.00	0.02	0.02		131.03		0.00		131.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.07	0.07	0.69	0.00	0.23	0.01	0.24	0.01	0.01	0.02		155.63		0.01		155.79
Total	**0.12**	**0.61**	**1.05**	**0.00**	**14.78**	**0.03**	**14.81**	**0.01**	**0.03**	**0.04**		**286.66**		**0.01**		**286.88**

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					2.38	0.00	2.38	1.29	0.00	1.29						0.00
Off-Road	3.52	18.22	37.59	0.07		1.22	1.22		1.22	1.22		7,393.75		0.59		7,406.07
Total	**3.52**	**18.22**	**37.59**	**0.07**	**2.38**	**1.22**	**3.60**	**1.29**	**1.22**	**2.51**		**7,393.75**		**0.59**		**7,406.07**

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	0.05	0.54	0.36	0.00	14.55	0.02	14.57	0.00	0.02	0.02		131.03		0.00		131.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.07	0.07	0.69	0.00	0.23	0.01	0.24	0.01	0.01	0.02		155.63		0.01		155.79
Total	**0.12**	**0.61**	**1.05**	**0.00**	**14.78**	**0.03**	**14.81**	**0.01**	**0.03**	**0.04**		**286.66**		**0.01**		**286.88**

3.7 Grading Phase 2 - 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					
Fugitive Dust					6.26	0.00	6.26	3.31	0.00	3.31						0.00
Off-Road	7.77	58.58	39.37	0.08		2.76	2.76		2.76	2.76		8,289.89		0.70		8,304.49
Total	**7.77**	**58.58**	**39.37**	**0.08**	**6.26**	**2.76**	**9.02**	**3.31**	**2.76**	**6.07**		**8,289.89**		**0.70**		**8,304.49**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.09	0.09	0.89	0.00	0.28	0.01	0.29	0.01	0.01	0.02		190.90		0.01		191.09
Total	**0.09**	**0.09**	**0.89**	**0.00**	**0.28**	**0.01**	**0.29**	**0.01**	**0.01**	**0.02**		**190.90**		**0.01**		**191.09**

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					2.44	0.00	2.44	1.29	0.00	1.29						0.00
Off-Road	3.74	18.69	43.42	0.08		1.24	1.24		1.24	1.24		8,289.89		0.70		8,304.49
Total	**3.74**	**18.69**	**43.42**	**0.08**	**2.44**	**1.24**	**3.68**	**1.29**	**1.24**	**2.53**		**8,289.89**		**0.70**		**8,304.49**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.09	0.09	0.89	0.00	0.28	0.01	0.29	0.01	0.01	0.02		190.90		0.01		191.09
Total	**0.09**	**0.09**	**0.89**	**0.00**	**0.28**	**0.01**	**0.29**	**0.01**	**0.01**	**0.02**		**190.90**		**0.01**		**191.09**

3.7 Grading Phase 2 - 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					
Fugitive Dust					6.26	0.00	6.26	3.31	0.00	3.31						0.00
Off-Road	7.29	53.53	38.36	0.08		2.47	2.47		2.47	2.47		8,289.89		0.65		8,303.53
Total	**7.29**	**53.53**	**38.36**	**0.08**	**6.26**	**2.47**	**8.73**	**3.31**	**2.47**	**5.78**		**8,289.89**		**0.65**		**8,303.53**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.09	0.08	0.82	0.00	0.28	0.01	0.29	0.01	0.01	0.02		186.76		0.01		186.94
Total	**0.09**	**0.08**	**0.82**	**0.00**	**0.28**	**0.01**	**0.29**	**0.01**	**0.01**	**0.02**		**186.76**		**0.01**		**186.94**

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					2.44	0.00	2.44	1.29	0.00	1.29						0.00
Off-Road	3.74	18.69	43.42	0.08		1.24	1.24		1.24	1.24		8,289.89		0.65		8,303.53
Total	**3.74**	**18.69**	**43.42**	**0.08**	**2.44**	**1.24**	**3.68**	**1.29**	**1.24**	**2.53**		**8,289.89**		**0.65**		**8,303.53**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.09	0.08	0.82	0.00	0.28	0.01	0.29	0.01	0.01	0.02		186.76		0.01		186.94
Total	**0.09**	**0.08**	**0.82**	**0.00**	**0.28**	**0.01**	**0.29**	**0.01**	**0.01**	**0.02**		**186.76**		**0.01**		**186.94**

3.8 Building Phase 2 - 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					
Off-Road	3.82	23.58	22.15	0.04		1.36	1.36		1.36	1.36		3,886.46		0.34		3,893.62
Total	**3.82**	**23.58**	**22.15**	**0.04**		**1.36**	**1.36**		**1.36**	**1.36**		**3,886.46**		**0.34**		**3,893.62**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.74	7.73	5.83	0.02	0.64	0.24	0.88	0.05	0.24	0.29		1,868.34		0.04		1,869.11
Worker	1.93	1.82	17.81	0.04	5.97	0.19	6.16	0.22	0.19	0.42		4,036.06		0.19		4,040.04
Total	**2.67**	**9.55**	**23.64**	**0.06**	**6.61**	**0.43**	**7.04**	**0.27**	**0.43**	**0.71**		**5,904.40**		**0.23**		**5,909.15**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.68	16.06	24.08	0.04		1.14	1.14		1.14	1.14		3,886.46		0.34		3,893.62
Total	**2.68**	**16.06**	**24.08**	**0.04**		**1.14**	**1.14**		**1.14**	**1.14**		**3,886.46**		**0.34**		**3,893.62**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.74	7.73	5.83	0.02	0.64	0.24	0.88	0.05	0.24	0.29		1,868.34		0.04		1,869.11
Worker	1.93	1.82	17.81	0.04	5.97	0.19	6.16	0.22	0.19	0.42		4,036.06		0.19		4,040.04
Total	**2.67**	**9.55**	**23.64**	**0.06**	**6.61**	**0.43**	**7.04**	**0.27**	**0.43**	**0.71**		**5,904.40**		**0.23**		**5,909.15**

3.8 Building Phase 2 - 2018

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	3.48	21.41	21.96	0.04		1.18	1.18		1.18	1.18		3,886.47		0.31		3,892.98
Total	**3.48**	**21.41**	**21.96**	**0.04**		**1.18**	**1.18**		**1.18**	**1.18**		**3,886.47**		**0.31**		**3,892.98**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.69	7.17	5.47	0.02	0.64	0.22	0.86	0.02	0.20	0.22		1,872.96		0.03		1,873.67
Worker	1.83	1.67	16.49	0.04	5.97	0.19	6.16	0.08	0.18	0.26		3,951.09		0.18		3,954.80
Total	**2.52**	**8.84**	**21.96**	**0.06**	**6.61**	**0.41**	**7.02**	**0.10**	**0.38**	**0.48**		**5,824.05**		**0.21**		**5,828.47**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.68	16.06	24.08	0.04		1.14	1.14		1.14	1.14		3,886.47		0.31		3,892.98
Total	**2.68**	**16.06**	**24.08**	**0.04**		**1.14**	**1.14**		**1.14**	**1.14**		**3,886.47**		**0.31**		**3,892.98**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.69	7.17	5.47	0.02	0.64	0.22	0.86	0.02	0.20	0.22		1,872.96		0.03		1,873.67
Worker	1.83	1.67	16.49	0.04	5.97	0.19	6.16	0.08	0.18	0.26		3,951.09		0.18		3,954.80
Total	**2.52**	**8.84**	**21.96**	**0.06**	**6.61**	**0.41**	**7.02**	**0.10**	**0.38**	**0.48**		**5,824.05**		**0.21**		**5,828.47**

3.8 Building Phase 2 - 2019

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	3.15	19.48	21.78	0.04		1.02	1.02		1.02	1.02		3,886.47		0.28		3,892.41
Total	**3.15**	**19.48**	**21.78**	**0.04**		**1.02**	**1.02**		**1.02**	**1.02**		**3,886.47**		**0.28**		**3,892.41**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.65	6.70	5.14	0.02	0.64	0.20	0.84	0.02	0.18	0.20		1,877.47		0.03		1,878.13
Worker	1.75	1.54	15.37	0.04	5.97	0.19	6.16	0.08	0.18	0.26		3,871.92		0.17		3,875.41
Total	**2.40**	**8.24**	**20.51**	**0.06**	**6.61**	**0.39**	**7.00**	**0.10**	**0.36**	**0.46**		**5,749.39**		**0.20**		**5,753.54**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.68	16.06	24.08	0.04		1.14	1.14		1.14	1.14		3,886.47		0.28		3,892.41
Total	**2.68**	**16.06**	**24.08**	**0.04**		**1.14**	**1.14**		**1.14**	**1.14**		**3,886.47**		**0.28**		**3,892.41**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.65	6.70	5.14	0.02	0.64	0.20	0.84	0.02	0.18	0.20		1,877.47		0.03		1,878.13
Worker	1.75	1.54	15.37	0.04	5.97	0.19	6.16	0.08	0.18	0.26		3,871.92		0.17		3,875.41
Total	**2.40**	**8.24**	**20.51**	**0.06**	**6.61**	**0.39**	**7.00**	**0.10**	**0.36**	**0.46**		**5,749.39**		**0.20**		**5,753.54**

3.8 Building Phase 2 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.88	17.73	21.63	0.04		0.87	0.87		0.87	0.87		3,886.47		0.26		3,891.87
Total	**2.88**	**17.73**	**21.63**	**0.04**		**0.87**	**0.87**		**0.87**	**0.87**		**3,886.47**		**0.26**		**3,891.87**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.61	6.29	4.84	0.02	0.64	0.18	0.83	0.02	0.17	0.19		1,881.66		0.03		1,882.28
Worker	1.68	1.42	14.37	0.04	5.97	0.20	6.17	0.08	0.18	0.26		3,798.36		0.16		3,801.64
Total	**2.29**	**7.71**	**19.21**	**0.06**	**6.61**	**0.38**	**7.00**	**0.10**	**0.35**	**0.45**		**5,680.02**		**0.19**		**5,683.92**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.68	16.06	24.08	0.04		1.14	1.14		1.14	1.14		3,886.47		0.26		3,891.87
Total	**2.68**	**16.06**	**24.08**	**0.04**		**1.14**	**1.14**		**1.14**	**1.14**		**3,886.47**		**0.26**		**3,891.87**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.61	6.29	4.84	0.02	0.64	0.18	0.83	0.02	0.17	0.19		1,881.66		0.03		1,882.28
Worker	1.68	1.42	14.37	0.04	5.97	0.20	6.17	0.08	0.18	0.26		3,798.36		0.16		3,801.64
Total	**2.29**	**7.71**	**19.21**	**0.06**	**6.61**	**0.38**	**7.00**	**0.10**	**0.35**	**0.45**		**5,680.02**		**0.19**		**5,683.92**

3.9 Grading Phase 3 - 2018

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					6.27	0.00	6.27	3.31	0.00	3.31						0.00
Off-Road	6.83	48.84	37.47	0.08		2.20	2.20		2.20	2.20		8,289.90		0.61		8,302.68
Total	**6.83**	**48.84**	**37.47**	**0.08**	**6.27**	**2.20**	**8.47**	**3.31**	**2.20**	**5.51**		**8,289.90**		**0.61**		**8,302.68**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.08	0.08	0.76	0.00	0.28	0.01	0.29	0.00	0.01	0.01		182.83		0.01		183.00
Total	**0.08**	**0.08**	**0.76**	**0.00**	**0.28**	**0.01**	**0.29**	**0.00**	**0.01**	**0.01**		**182.83**		**0.01**		**183.00**

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					2.44	0.00	2.44	1.29	0.00	1.29						0.00
Off-Road	3.74	18.69	43.42	0.08		1.24	1.24		1.24	1.24		8,289.90		0.61		8,302.68
Total	**3.74**	**18.69**	**43.42**	**0.08**	**2.44**	**1.24**	**3.68**	**1.29**	**1.24**	**2.53**		**8,289.90**		**0.61**		**8,302.68**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.08	0.08	0.76	0.00	0.28	0.01	0.29	0.00	0.01	0.01		182.83		0.01		183.00
Total	**0.08**	**0.08**	**0.76**	**0.00**	**0.28**	**0.01**	**0.29**	**0.00**	**0.01**	**0.01**		**182.83**		**0.01**		**183.00**

3.9 Grading Phase 3 - 2019

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					6.27	0.00	6.27	3.31	0.00	3.31						0.00
Off-Road	6.41	44.50	36.68	0.08		1.97	1.97		1.97	1.97		8,289.89		0.57		8,301.90
Total	**6.41**	**44.50**	**36.68**	**0.08**	**6.27**	**1.97**	**8.24**	**3.31**	**1.97**	**5.28**		**8,289.89**		**0.57**		**8,301.90**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.08	0.07	0.71	0.00	0.28	0.01	0.29	0.00	0.01	0.01		179.16		0.01		179.32
Total	**0.08**	**0.07**	**0.71**	**0.00**	**0.28**	**0.01**	**0.29**	**0.00**	**0.01**	**0.01**		**179.16**		**0.01**		**179.32**

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					2.44	0.00	2.44	1.29	0.00	1.29						0.00
Off-Road	3.74	18.69	43.42	0.08		1.24	1.24		1.24	1.24		8,289.89		0.57		8,301.90
Total	**3.74**	**18.69**	**43.42**	**0.08**	**2.44**	**1.24**	**3.68**	**1.29**	**1.24**	**2.53**		**8,289.89**		**0.57**		**8,301.90**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.08	0.07	0.71	0.00	0.28	0.01	0.29	0.00	0.01	0.01		179.16		0.01		179.32
Total	**0.08**	**0.07**	**0.71**	**0.00**	**0.28**	**0.01**	**0.29**	**0.00**	**0.01**	**0.01**		**179.16**		**0.01**		**179.32**

3.10 Building Phase 3 - 2019

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	3.15	19.48	21.78	0.04		1.02	1.02		1.02	1.02		3,886.47		0.28		3,892.41
Total	**3.15**	**19.48**	**21.78**	**0.04**		**1.02**	**1.02**		**1.02**	**1.02**		**3,886.47**		**0.28**		**3,892.41**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.67	6.99	5.36	0.02	0.67	0.21	0.88	0.02	0.19	0.21		1,959.09		0.03		1,959.79
Worker	1.81	1.60	15.96	0.05	6.20	0.20	6.40	0.08	0.19	0.27		4,021.23		0.17		4,024.84
Total	**2.48**	**8.59**	**21.32**	**0.07**	**6.87**	**0.41**	**7.28**	**0.10**	**0.38**	**0.48**		**5,980.32**		**0.20**		**5,984.63**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.68	16.06	24.08	0.04		1.14	1.14		1.14	1.14		3,886.47		0.28		3,892.41
Total	**2.68**	**16.06**	**24.08**	**0.04**		**1.14**	**1.14**		**1.14**	**1.14**		**3,886.47**		**0.28**		**3,892.41**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.67	6.99	5.36	0.02	0.67	0.21	0.88	0.02	0.19	0.21		1,959.09		0.03		1,959.79
Worker	1.81	1.60	15.96	0.05	6.20	0.20	6.40	0.08	0.19	0.27		4,021.23		0.17		4,024.84
Total	**2.48**	**8.59**	**21.32**	**0.07**	**6.87**	**0.41**	**7.28**	**0.10**	**0.38**	**0.48**		**5,980.32**		**0.20**		**5,984.63**

3.10 Building Phase 3 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.88	17.73	21.63	0.04		0.87	0.87		0.87	0.87		3,886.47		0.26		3,891.87
Total	**2.88**	**17.73**	**21.63**	**0.04**		**0.87**	**0.87**		**0.87**	**0.87**		**3,886.47**		**0.26**		**3,891.87**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.63	6.57	5.05	0.02	0.67	0.19	0.86	0.02	0.18	0.19		1,963.47		0.03		1,964.12
Worker	1.74	1.48	14.93	0.05	6.20	0.20	6.40	0.08	0.19	0.27		3,944.83		0.16		3,948.24
Total	**2.37**	**8.05**	**19.98**	**0.07**	**6.87**	**0.39**	**7.26**	**0.10**	**0.37**	**0.46**		**5,908.30**		**0.19**		**5,912.36**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.68	16.06	24.08	0.04		1.14	1.14		1.14	1.14		3,886.47		0.26		3,891.87
Total	**2.68**	**16.06**	**24.08**	**0.04**		**1.14**	**1.14**		**1.14**	**1.14**		**3,886.47**		**0.26**		**3,891.87**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.63	6.57	5.05	0.02	0.67	0.19	0.86	0.02	0.18	0.19		1,963.47		0.03		1,964.12
Worker	1.74	1.48	14.93	0.05	6.20	0.20	6.40	0.08	0.19	0.27		3,944.83		0.16		3,948.24
Total	**2.37**	**8.05**	**19.98**	**0.07**	**6.87**	**0.39**	**7.26**	**0.10**	**0.37**	**0.46**		**5,908.30**		**0.19**		**5,912.36**

3.10 Building Phase 3 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.62	16.00	21.45	0.04		0.73	0.73		0.73	0.73		3,886.46		0.23		3,891.35
Total	**2.62**	**16.00**	**21.45**	**0.04**		**0.73**	**0.73**		**0.73**	**0.73**		**3,886.46**		**0.23**		**3,891.35**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.60	6.20	4.80	0.02	0.67	0.18	0.85	0.02	0.16	0.18		1,967.56		0.03		1,968.16
Worker	1.68	1.37	14.06	0.05	6.20	0.20	6.40	0.08	0.19	0.27		3,885.35		0.15		3,888.60
Total	**2.28**	**7.57**	**18.86**	**0.07**	**6.87**	**0.38**	**7.25**	**0.10**	**0.35**	**0.45**		**5,852.91**		**0.18**		**5,856.76**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.68	16.06	24.08	0.04		1.14	1.14		1.14	1.14		3,886.46		0.23		3,891.35
Total	**2.68**	**16.06**	**24.08**	**0.04**		**1.14**	**1.14**		**1.14**	**1.14**		**3,886.46**		**0.23**		**3,891.35**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.60	6.20	4.80	0.02	0.67	0.18	0.85	0.02	0.16	0.18		1,967.56		0.03		1,968.16
Worker	1.68	1.37	14.06	0.05	6.20	0.20	6.40	0.08	0.19	0.27		3,885.35		0.15		3,888.60
Total	**2.28**	**7.57**	**18.86**	**0.07**	**6.87**	**0.38**	**7.25**	**0.10**	**0.35**	**0.45**		**5,852.91**		**0.18**		**5,856.76**

3.10 Building Phase 3 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.44	14.56	21.36	0.04		0.62	0.62		0.62	0.62		3,886.46		0.22		3,891.01
Total	**2.44**	**14.56**	**21.36**	**0.04**		**0.62**	**0.62**		**0.62**	**0.62**		**3,886.46**		**0.22**		**3,891.01**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.57	5.90	4.56	0.02	0.67	0.17	0.84	0.02	0.15	0.17		1,971.52		0.03		1,972.09
Worker	1.62	1.27	13.23	0.05	6.20	0.20	6.41	0.08	0.19	0.27		3,821.39		0.15		3,824.46
Total	**2.19**	**7.17**	**17.79**	**0.07**	**6.87**	**0.37**	**7.25**	**0.10**	**0.34**	**0.44**		**5,792.91**		**0.18**		**5,796.55**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.68	16.06	24.08	0.04		1.14	1.14		1.14	1.14		3,886.46		0.22		3,891.01
Total	**2.68**	**16.06**	**24.08**	**0.04**		**1.14**	**1.14**		**1.14**	**1.14**		**3,886.46**		**0.22**		**3,891.01**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.57	5.90	4.56	0.02	0.67	0.17	0.84	0.02	0.15	0.17		1,971.52		0.03		1,972.09
Worker	1.62	1.27	13.23	0.05	6.20	0.20	6.41	0.08	0.19	0.27		3,821.39		0.15		3,824.46
Total	**2.19**	**7.17**	**17.79**	**0.07**	**6.87**	**0.37**	**7.25**	**0.10**	**0.34**	**0.44**		**5,792.91**		**0.18**		**5,796.55**

3.10 Building Phase 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.27	13.27	21.30	0.04		0.52	0.52		0.52	0.52		3,886.46		0.20		3,890.71
Total	**2.27**	**13.27**	**21.30**	**0.04**		**0.52**	**0.52**		**0.52**	**0.52**		**3,886.46**		**0.20**		**3,890.71**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.54	5.64	4.37	0.02	0.67	0.16	0.83	0.02	0.14	0.16		1,975.36		0.03		1,975.90
Worker	1.56	1.19	12.47	0.05	6.20	0.20	6.41	0.08	0.19	0.27		3,762.16		0.14		3,765.08
Total	**2.10**	**6.83**	**16.84**	**0.07**	**6.87**	**0.36**	**7.24**	**0.10**	**0.33**	**0.43**		**5,737.52**		**0.17**		**5,740.98**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.68	16.06	24.08	0.04		1.14	1.14		1.14	1.14		3,886.46		0.20		3,890.71
Total	**2.68**	**16.06**	**24.08**	**0.04**		**1.14**	**1.14**		**1.14**	**1.14**		**3,886.46**		**0.20**		**3,890.71**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.54	5.64	4.37	0.02	0.67	0.16	0.83	0.02	0.14	0.16		1,975.36		0.03		1,975.90
Worker	1.56	1.19	12.47	0.05	6.20	0.20	6.41	0.08	0.19	0.27		3,762.16		0.14		3,765.08
Total	**2.10**	**6.83**	**16.84**	**0.07**	**6.87**	**0.36**	**7.24**	**0.10**	**0.33**	**0.43**		**5,737.52**		**0.17**		**5,740.98**

NBR Phase I Paving and Arch Coating

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Other Asphalt Surfaces	7.83	Acre
City Park	6.3	Acre
Condo/Townhouse	87	Dwelling Unit
Single Family Housing	141	Dwelling Unit

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	Southern California Edison
Climate Zone	8		2.2		
		Precipitation Freq (Days)			

1.3 User Entered Comments

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Project Characteristics - this file for Phase 1 paving and arch coating only; all other data is irrelevant

Land Use - Land use matches Table 3 of traffic report
Population at 2.19 per du per EIR Section 4.7
Other asphalt surfaces for road paving

Construction Phase - Phasing set to project plan; Pave 1 8/15/2015-9/15/2015; 22 wd
ArchCoat1 8/15/2015-9/15/2017; 545 wd

Construction Off-road Equipment Mitigation - Approximately 50-50 Tier 3 and Tier 4 const equip

Off-road Equipment - Default paving equipment: 2 pavers, 2 paving equipment; 2 rollers

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	11.32	32.88	24.47	0.04	0.58	2.78	3.36	0.02	2.78	2.80		3,613.37	0.00	0.50	0.00	3,623.80
2016	5.38	2.49	3.02	0.01	0.35	0.21	0.56	0.01	0.21	0.22		525.11	0.00	0.05	0.00	526.06
2017	5.33	2.29	2.92	0.01	0.35	0.18	0.54	0.01	0.18	0.20		519.83	0.00	0.04	0.00	520.68
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	8.04	10.51	22.87	0.04	0.02	1.01	1.03	0.02	1.01	1.03		3,613.37	0.00	0.50	0.00	3,623.80
2016	5.09	0.27	2.97	0.01	0.01	0.02	0.03	0.01	0.02	0.03		525.11	0.00	0.05	0.00	526.06
2017	5.08	0.26	2.88	0.01	0.01	0.02	0.03	0.01	0.02	0.03		519.83	0.00	0.04	0.00	520.68
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

3.0 Construction Detail

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

3.2 Paving Phase I - 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	4.89	30.10	20.54	0.03		2.54	2.54		2.54	2.54		2,917.65		0.44		2,926.87
Paving	0.93					0.00	0.00		0.00	0.00						0.00
Total	**5.82**	**30.10**	**20.54**	**0.03**		**2.54**	**2.54**		**2.54**	**2.54**		**2,917.65**		**0.44**		**2,926.87**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.08	0.08	0.81	0.00	0.23	0.01	0.24	0.01	0.01	0.02		163.63		0.01		163.81
Total	**0.08**	**0.08**	**0.81**	**0.00**	**0.23**	**0.01**	**0.24**	**0.01**	**0.01**	**0.02**		**163.63**		**0.01**		**163.81**

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	1.93	10.15	19.00	0.03		0.99	0.99		0.99	0.99		2,917.65		0.44		2,926.87
Paving	0.93					0.00	0.00		0.00	0.00						0.00
Total	**2.86**	**10.15**	**19.00**	**0.03**		**0.99**	**0.99**		**0.99**	**0.99**		**2,917.65**		**0.44**		**2,926.87**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.08	0.08	0.81	0.00	0.01	0.01	0.02	0.01	0.01	0.02		163.63		0.01		163.81
Total	**0.08**	**0.08**	**0.81**	**0.00**	**0.01**	**0.01**	**0.02**	**0.01**	**0.01**	**0.02**		**163.63**		**0.01**		**163.81**

3.3 Architectural Coating Phase I - 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					
Archit. Coating	4.89					0.00	0.00		0.00	0.00						0.00
Off-Road	0.41	2.57	1.90	0.00		0.22	0.22		0.22	0.22		281.19		0.04		281.96
Total	**5.30**	**2.57**	**1.90**	**0.00**		**0.22**	**0.22**		**0.22**	**0.22**		**281.19**		**0.04**		**281.96**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.13	0.13	1.23	0.00	0.35	0.01	0.36	0.01	0.01	0.02		250.90		0.01		251.17
Total	**0.13**	**0.13**	**1.23**	**0.00**	**0.35**	**0.01**	**0.36**	**0.01**	**0.01**	**0.02**		**250.90**		**0.01**		**251.17**

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	4.89					0.00	0.00		0.00	0.00						0.00
Off-Road	0.08	0.15	1.83	0.00		0.01	0.01		0.01	0.01		281.19		0.04		281.96
Total	**4.97**	**0.15**	**1.83**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**		**281.19**		**0.04**		**281.96**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.13	0.13	1.23	0.00	0.01	0.01	0.02	0.01	0.01	0.02		250.90		0.01		251.17
Total	**0.13**	**0.13**	**1.23**	**0.00**	**0.01**	**0.01**	**0.02**	**0.01**	**0.01**	**0.02**		**250.90**		**0.01**		**251.17**

3.3 Architectural Coating Phase I - 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					
Archit. Coating	4.89					0.00	0.00		0.00	0.00						0.00
Off-Road	0.37	2.37	1.88	0.00		0.20	0.20		0.20	0.20		281.19		0.03		281.89
Total	**5.26**	**2.37**	**1.88**	**0.00**		**0.20**	**0.20**		**0.20**	**0.20**		**281.19**		**0.03**		**281.89**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.12	0.12	1.14	0.00	0.35	0.01	0.36	0.01	0.01	0.02		243.92		0.01		244.18
Total	**0.12**	**0.12**	**1.14**	**0.00**	**0.35**	**0.01**	**0.36**	**0.01**	**0.01**	**0.02**		**243.92**		**0.01**		**244.18**

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	4.89					0.00	0.00		0.00	0.00						0.00
Off-Road	0.08	0.15	1.83	0.00		0.01	0.01		0.01	0.01		281.19		0.03		281.89
Total	**4.97**	**0.15**	**1.83**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**		**281.19**		**0.03**		**281.89**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.12	0.12	1.14	0.00	0.01	0.01	0.02	0.01	0.01	0.02		243.92		0.01		244.18
Total	**0.12**	**0.12**	**1.14**	**0.00**	**0.01**	**0.01**	**0.02**	**0.01**	**0.01**	**0.02**		**243.92**		**0.01**		**244.18**

3.3 Architectural Coating Phase I - 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	4.89					0.00	0.00		0.00	0.00						0.00
Off-Road	0.33	2.18	1.87	0.00		0.17	0.17		0.17	0.17		281.19		0.03		281.81
Total	**5.22**	**2.18**	**1.87**	**0.00**		**0.17**	**0.17**		**0.17**	**0.17**		**281.19**		**0.03**		**281.81**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.11	0.11	1.05	0.00	0.35	0.01	0.36	0.01	0.01	0.02		238.64		0.01		238.87
Total	**0.11**	**0.11**	**1.05**	**0.00**	**0.35**	**0.01**	**0.36**	**0.01**	**0.01**	**0.02**		**238.64**		**0.01**		**238.87**

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	4.89					0.00	0.00		0.00	0.00						0.00
Off-Road	0.08	0.15	1.83	0.00		0.01	0.01		0.01	0.01		281.19		0.03		281.81
Total	**4.97**	**0.15**	**1.83**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**		**281.19**		**0.03**		**281.81**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.11	0.11	1.05	0.00	0.01	0.01	0.02	0.01	0.01	0.02		238.64		0.01		238.87
Total	**0.11**	**0.11**	**1.05**	**0.00**	**0.01**	**0.01**	**0.02**	**0.01**	**0.01**	**0.02**		**238.64**		**0.01**		**238.87**

Newport Banning Ranch Ph 2 for paving and arch

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
City Park	20	Acre
Hotel	75	Room
Condo/Townhouse	68	Dwelling Unit
Condo/Townhouse High Rise	365	Dwelling Unit
Single Family Housing	102	Dwelling Unit
Regional Shopping Center	37.5	1000sqft
Other Asphalt Surfaces	7.26	Acre

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	Southern California Edison
Climate Zone	8		2.2		
		Precipitation Freq (Days)			
			30		

1.3 User Entered Comments

Project Characteristics - This file only for paving and arch coating const emissions; all other data not relevant.

Land Use - Lot acreages and population from project description and Section 4.7

Construction Phase - Phases from project plan; Paving phase 2 8/15/2017-9/15/2017
Arch coating phase 2 8/15/2017-12/31/2019

Off-road Equipment - Equipment from project plan

Trips and VMT - Worker/vendor trips default

Grading - Export and acreage of disturbance from project description

Off-road Equipment - Default paving equipment - 2 pavers, 2 paving equip, 2 rollers

Off-road Equipment -

Construction Off-road Equipment Mitigation - Approximately 50-50, Tier 3 and Tier 4 const. equip.

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					
2017	19.11	29.05	26.50	0.04	1.47	2.39	3.87	0.06	2.39	2.45		4,194.88	0.00	0.46	0.00	4,204.60
2018	13.90	2.35	5.29	0.01	1.24	0.19	1.43	0.02	0.19	0.20		1,103.91	0.00	0.06	0.00	1,105.24
2019	13.85	2.15	5.04	0.01	1.24	0.17	1.41	0.02	0.17	0.18		1,087.43	0.00	0.06	0.00	1,088.65
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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					
2017	16.50	10.75	25.22	0.04	0.06	1.04	1.10	0.06	1.04	1.10		4,194.88	0.00	0.46	0.00	4,204.60
2018	13.68	0.50	5.26	0.01	0.05	0.05	0.09	0.02	0.04	0.06		1,103.91	0.00	0.06	0.00	1,105.24
2019	13.67	0.47	5.03	0.01	0.05	0.05	0.09	0.02	0.05	0.06		1,087.43	0.00	0.06	0.00	1,088.65
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

3.0 Construction Detail

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

3.2 Paving Phase 2 - 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					
Off-Road	4.29	26.42	20.24	0.03		2.17	2.17		2.17	2.17		2,917.65		0.39		2,925.76
Paving	0.79					0.00	0.00		0.00	0.00						0.00
Total	**5.08**	**26.42**	**20.24**	**0.03**		**2.17**	**2.17**		**2.17**	**2.17**		**2,917.65**		**0.39**		**2,925.76**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.07	0.07	0.69	0.00	0.23	0.01	0.24	0.01	0.01	0.02		155.63		0.01		155.79
Total	**0.07**	**0.07**	**0.69**	**0.00**	**0.23**	**0.01**	**0.24**	**0.01**	**0.01**	**0.02**		**155.63**		**0.01**		**155.79**

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	1.93	10.15	19.00	0.03		0.99	0.99		0.99	0.99		2,917.65		0.39		2,925.76
Paving	0.79					0.00	0.00		0.00	0.00						0.00
Total	**2.72**	**10.15**	**19.00**	**0.03**		**0.99**	**0.99**		**0.99**	**0.99**		**2,917.65**		**0.39**		**2,925.76**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.07	0.07	0.69	0.00	0.01	0.01	0.02	0.01	0.01	0.02		155.63		0.01		155.79
Total	**0.07**	**0.07**	**0.69**	**0.00**	**0.01**	**0.01**	**0.02**	**0.01**	**0.01**	**0.02**		**155.63**		**0.01**		**155.79**

3.3 Arch Coating Phase 2 - 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	13.22					0.00	0.00		0.00	0.00						0.00
Off-Road	0.33	2.18	1.87	0.00		0.17	0.17		0.17	0.17		281.19		0.03		281.81
Total	**13.55**	**2.18**	**1.87**	**0.00**		**0.17**	**0.17**		**0.17**	**0.17**		**281.19**		**0.03**		**281.81**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.40	0.38	3.71	0.01	1.24	0.04	1.28	0.05	0.04	0.09		840.41		0.04		841.24
Total	**0.40**	**0.38**	**3.71**	**0.01**	**1.24**	**0.04**	**1.28**	**0.05**	**0.04**	**0.09**		**840.41**		**0.04**		**841.24**

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	13.22					0.00	0.00		0.00	0.00						0.00
Off-Road	0.08	0.15	1.83	0.00		0.01	0.01		0.01	0.01		281.19		0.03		281.81
Total	**13.30**	**0.15**	**1.83**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**		**281.19**		**0.03**		**281.81**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.40	0.38	3.71	0.01	0.05	0.04	0.09	0.05	0.04	0.09		840.41		0.04		841.24
Total	**0.40**	**0.38**	**3.71**	**0.01**	**0.05**	**0.04**	**0.09**	**0.05**	**0.04**	**0.09**		**840.41**		**0.04**		**841.24**

3.3 Arch Coating Phase 2 - 2018

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	13.22					0.00	0.00		0.00	0.00						0.00
Off-Road	0.30	2.00	1.85	0.00		0.15	0.15		0.15	0.15		281.19		0.03		281.75
Total	**13.52**	**2.00**	**1.85**	**0.00**		**0.15**	**0.15**		**0.15**	**0.15**		**281.19**		**0.03**		**281.75**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.38	0.35	3.43	0.01	1.24	0.04	1.28	0.02	0.04	0.05		822.72		0.04		823.49
Total	**0.38**	**0.35**	**3.43**	**0.01**	**1.24**	**0.04**	**1.28**	**0.02**	**0.04**	**0.05**		**822.72**		**0.04**		**823.49**

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	13.22					0.00	0.00		0.00	0.00						0.00
Off-Road	0.08	0.15	1.83	0.00		0.01	0.01		0.01	0.01		281.19		0.03		281.75
Total	**13.30**	**0.15**	**1.83**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**		**281.19**		**0.03**		**281.75**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.38	0.35	3.43	0.01	0.05	0.04	0.09	0.02	0.04	0.05		822.72		0.04		823.49
Total	**0.38**	**0.35**	**3.43**	**0.01**	**0.05**	**0.04**	**0.09**	**0.02**	**0.04**	**0.05**		**822.72**		**0.04**		**823.49**

3.3 Arch Coating Phase 2 - 2019

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	13.22					0.00	0.00		0.00	0.00						0.00
Off-Road	0.27	1.83	1.84	0.00		0.13	0.13		0.13	0.13		281.19		0.02		281.69
Total	**13.49**	**1.83**	**1.84**	**0.00**		**0.13**	**0.13**		**0.13**	**0.13**		**281.19**		**0.02**		**281.69**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.36	0.32	3.20	0.01	1.24	0.04	1.28	0.02	0.04	0.05		806.24		0.03		806.96
Total	**0.36**	**0.32**	**3.20**	**0.01**	**1.24**	**0.04**	**1.28**	**0.02**	**0.04**	**0.05**		**806.24**		**0.03**		**806.96**

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	13.22					0.00	0.00		0.00	0.00						0.00
Off-Road	0.08	0.15	1.83	0.00		0.01	0.01		0.01	0.01		281.19		0.02		281.69
Total	**13.30**	**0.15**	**1.83**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**		**281.19**		**0.02**		**281.69**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.36	0.32	3.20	0.01	0.05	0.04	0.09	0.02	0.04	0.05		806.24		0.03		806.96
Total	**0.36**	**0.32**	**3.20**	**0.01**	**0.05**	**0.04**	**0.09**	**0.02**	**0.04**	**0.05**		**806.24**		**0.03**		**806.96**

Newport Banning Ranch Ph 3 for paving and arch

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
City Park	2	Acre
Condo/Townhouse	67	Dwelling Unit
Condo/Townhouse High Rise	365	Dwelling Unit
Single Family Housing	180	Dwelling Unit
Regional Shopping Center	37.5	1000sqft
Other Asphalt Surfaces	10.47	Acre

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	Southern California Edison
Climate Zone	8		2.2		
		Precipitation Freq (Days)			

1.3 User Entered Comments

30

Project Characteristics - This file only for paving and arch coating const emissions; all other data not relevant.

Land Use - Lot acreages and population from project description and Section 4.7

Construction Phase - Phases from project plan: Paving 8/15 to 9/15/2019; Arch Coating 8/15/2019-11/20/2023

Off-road Equipment - Equipment from project plan

Trips and VMT - Worker/vendor trips calculated from CalEEMod Appx A

Grading - Export and acreage of disturbance from project description

Off-road Equipment - Default equipment for paving: 2 Pavers, 2 Paving Equipment; 2 Rollers

Off-road Equipment -

Construction Off-road Equipment Mitigation - Approximately 50-50 Tier 3 and Tier 4 construction equipment mitigation

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					
2019	11.78	25.42	25.57	0.04	1.43	2.00	3.42	0.02	1.99	2.01		4,135.73	0.00	0.40	0.00	4,144.15
2020	6.67	1.97	4.71	0.01	1.20	0.15	1.35	0.02	0.15	0.16		1,042.81	0.00	0.05	0.00	1,043.93
2021	6.63	1.79	4.53	0.01	1.20	0.13	1.33	0.02	0.13	0.15		1,031.33	0.00	0.05	0.00	1,032.36
2022	6.61	1.65	4.37	0.01	1.20	0.12	1.32	0.02	0.12	0.13		1,018.98	0.00	0.05	0.00	1,019.96
2023	6.58	1.53	4.22	0.01	1.20	0.11	1.31	0.02	0.11	0.12		1,007.55	0.00	0.04	0.00	1,008.46
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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					
2019	9.77	10.73	24.57	0.04	0.05	1.05	1.10	0.02	1.04	1.06		4,135.73	0.00	0.40	0.00	4,144.15
2020	6.51	0.43	4.71	0.01	0.04	0.05	0.09	0.02	0.04	0.06		1,042.81	0.00	0.05	0.00	1,043.93
2021	6.50	0.41	4.55	0.01	0.04	0.05	0.09	0.02	0.04	0.06		1,031.33	0.00	0.05	0.00	1,032.36
2022	6.49	0.39	4.39	0.01	0.04	0.05	0.09	0.02	0.04	0.06		1,018.98	0.00	0.05	0.00	1,019.96
2023	6.47	0.38	4.24	0.01	0.04	0.05	0.09	0.02	0.04	0.06		1,007.55	0.00	0.04	0.00	1,008.46
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

3.0 Construction Detail

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

3.2 Paving Phase 3 - 2019

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	3.76	23.22	20.05	0.03		1.82	1.82		1.82	1.82		2,928.86		0.34		2,935.95
Paving	1.25					0.00	0.00		0.00	0.00						0.00
Total	**5.01**	**23.22**	**20.05**	**0.03**		**1.82**	**1.82**		**1.82**	**1.82**		**2,928.86**		**0.34**		**2,935.95**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.07	0.06	0.59	0.00	0.23	0.01	0.24	0.00	0.01	0.01		149.30		0.01		149.44
Total	**0.07**	**0.06**	**0.59**	**0.00**	**0.23**	**0.01**	**0.24**	**0.00**	**0.01**	**0.01**		**149.30**		**0.01**		**149.44**

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	1.94	10.21	19.07	0.03		0.99	0.99		0.99	0.99		2,928.86		0.34		2,935.95
Paving	1.25					0.00	0.00		0.00	0.00						0.00
Total	**3.19**	**10.21**	**19.07**	**0.03**		**0.99**	**0.99**		**0.99**	**0.99**		**2,928.86**		**0.34**		**2,935.95**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.07	0.06	0.59	0.00	0.01	0.01	0.02	0.00	0.01	0.01		149.30		0.01		149.44
Total	**0.07**	**0.06**	**0.59**	**0.00**	**0.01**	**0.01**	**0.02**	**0.00**	**0.01**	**0.01**		**149.30**		**0.01**		**149.44**

3.3 Arch Coating Phase 3 - 2019

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	6.09					0.00	0.00		0.00	0.00						0.00
Off-Road	0.27	1.83	1.84	0.00		0.13	0.13		0.13	0.13		281.19		0.02		281.69
Total	**6.36**	**1.83**	**1.84**	**0.00**		**0.13**	**0.13**		**0.13**	**0.13**		**281.19**		**0.02**		**281.69**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.35	0.31	3.08	0.01	1.20	0.04	1.24	0.02	0.04	0.05		776.38		0.03		777.07
Total	**0.35**	**0.31**	**3.08**	**0.01**	**1.20**	**0.04**	**1.24**	**0.02**	**0.04**	**0.05**		**776.38**		**0.03**		**777.07**

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	6.09					0.00	0.00		0.00	0.00						0.00
Off-Road	0.08	0.15	1.83	0.00		0.01	0.01		0.01	0.01		281.19		0.02		281.69
Total	**6.17**	**0.15**	**1.83**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**		**281.19**		**0.02**		**281.69**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.35	0.31	3.08	0.01	0.04	0.04	0.08	0.02	0.04	0.05		776.38		0.03		777.07
Total	**0.35**	**0.31**	**3.08**	**0.01**	**0.04**	**0.04**	**0.08**	**0.02**	**0.04**	**0.05**		**776.38**		**0.03**		**777.07**

3.3 Arch Coating Phase 3 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.09					0.00	0.00		0.00	0.00						0.00
Off-Road	0.24	1.68	1.83	0.00		0.11	0.11		0.11	0.11		281.19		0.02		281.65
Total	**6.33**	**1.68**	**1.83**	**0.00**		**0.11**	**0.11**		**0.11**	**0.11**		**281.19**		**0.02**		**281.65**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.34	0.28	2.88	0.01	1.20	0.04	1.24	0.02	0.04	0.05		761.63		0.03		762.28
Total	**0.34**	**0.28**	**2.88**	**0.01**	**1.20**	**0.04**	**1.24**	**0.02**	**0.04**	**0.05**		**761.63**		**0.03**		**762.28**

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	6.09					0.00	0.00		0.00	0.00						0.00
Off-Road	0.08	0.15	1.83	0.00		0.01	0.01		0.01	0.01		281.19		0.02		281.65
Total	**6.17**	**0.15**	**1.83**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**		**281.19**		**0.02**		**281.65**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.34	0.28	2.88	0.01	0.04	0.04	0.08	0.02	0.04	0.05		761.63		0.03		762.28
Total	**0.34**	**0.28**	**2.88**	**0.01**	**0.04**	**0.04**	**0.08**	**0.02**	**0.04**	**0.05**		**761.63**		**0.03**		**762.28**

3.3 Arch Coating Phase 3 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.09					0.00	0.00		0.00	0.00						0.00
Off-Road	0.22	1.53	1.82	0.00		0.09	0.09		0.09	0.09		281.19		0.02		281.60
Total	**6.31**	**1.53**	**1.82**	**0.00**		**0.09**	**0.09**		**0.09**	**0.09**		**281.19**		**0.02**		**281.60**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.32	0.26	2.72	0.01	1.20	0.04	1.24	0.02	0.04	0.05		750.14		0.03		750.77
Total	**0.32**	**0.26**	**2.72**	**0.01**	**1.20**	**0.04**	**1.24**	**0.02**	**0.04**	**0.05**		**750.14**		**0.03**		**750.77**

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	6.09					0.00	0.00		0.00	0.00						0.00
Off-Road	0.08	0.15	1.83	0.00		0.01	0.01		0.01	0.01		281.19		0.02		281.60
Total	**6.17**	**0.15**	**1.83**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**		**281.19**		**0.02**		**281.60**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.32	0.26	2.72	0.01	0.04	0.04	0.08	0.02	0.04	0.05		750.14		0.03		750.77
Total	**0.32**	**0.26**	**2.72**	**0.01**	**0.04**	**0.04**	**0.08**	**0.02**	**0.04**	**0.05**		**750.14**		**0.03**		**750.77**

3.3 Arch Coating Phase 3 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.09					0.00	0.00		0.00	0.00						0.00
Off-Road	0.20	1.41	1.81	0.00		0.08	0.08		0.08	0.08		281.19		0.02		281.57
Total	**6.29**	**1.41**	**1.81**	**0.00**		**0.08**	**0.08**		**0.08**	**0.08**		**281.19**		**0.02**		**281.57**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.31	0.25	2.56	0.01	1.20	0.04	1.24	0.02	0.04	0.05		737.79		0.03		738.39
Total	**0.31**	**0.25**	**2.56**	**0.01**	**1.20**	**0.04**	**1.24**	**0.02**	**0.04**	**0.05**		**737.79**		**0.03**		**738.39**

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	6.09					0.00	0.00		0.00	0.00						0.00
Off-Road	0.08	0.15	1.83	0.00		0.01	0.01		0.01	0.01		281.19		0.02		281.57
Total	**6.17**	**0.15**	**1.83**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**		**281.19**		**0.02**		**281.57**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.31	0.25	2.56	0.01	0.04	0.04	0.08	0.02	0.04	0.05		737.79		0.03		738.39
Total	**0.31**	**0.25**	**2.56**	**0.01**	**0.04**	**0.04**	**0.08**	**0.02**	**0.04**	**0.05**		**737.79**		**0.03**		**738.39**

3.3 Arch Coating Phase 3 - 2023

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	6.09					0.00	0.00		0.00	0.00						0.00
Off-Road	0.19	1.30	1.81	0.00		0.07	0.07		0.07	0.07		281.19		0.02		281.54
Total	**6.28**	**1.30**	**1.81**	**0.00**		**0.07**	**0.07**		**0.07**	**0.07**		**281.19**		**0.02**		**281.54**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.30	0.23	2.41	0.01	1.20	0.04	1.24	0.02	0.04	0.05		726.36		0.03		726.92
Total	**0.30**	**0.23**	**2.41**	**0.01**	**1.20**	**0.04**	**1.24**	**0.02**	**0.04**	**0.05**		**726.36**		**0.03**		**726.92**

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	6.09					0.00	0.00		0.00	0.00						0.00
Off-Road	0.08	0.15	1.83	0.00		0.01	0.01		0.01	0.01		281.19		0.02		281.54
Total	**6.17**	**0.15**	**1.83**	**0.00**		**0.01**	**0.01**		**0.01**	**0.01**		**281.19**		**0.02**		**281.54**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.30	0.23	2.41	0.01	0.04	0.04	0.08	0.02	0.04	0.05		726.36		0.03		726.92
Total	**0.30**	**0.23**	**2.41**	**0.01**	**0.04**	**0.04**	**0.08**	**0.02**	**0.04**	**0.05**		**726.36**		**0.03**		**726.92**

Newport Banning Ranch buildout 060911

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
City Park	28	Acre
Hotel	75	Room
Condo/Townhouse	222	Dwelling Unit
Condo/Townhouse High Rise	730	Dwelling Unit
Single Family Housing	423	Dwelling Unit
Regional Shopping Center	75	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	Southern California Edison
Climate Zone	8		2.2		
		Precipitation Freq (Days)			

1.3 User Entered Comments

30

Project Characteristics - All operational, most const; arch coating and paving run separately.

Land Use - Lot acreages and population from project description and Section 4.7

Construction Phase - All phases from project plan. Paving and arch coating calculated separately.

Off-road Equipment - Build 1 - 1 Crane, 3 forklift, 1 generator, 2 welder, 2 trac/loader/backhoe

Off-road Equipment - Build 2 - 1 Crane, 3 forklift, 1 generator, 2 welder, 2 trac/loader/backhoe

Off-road Equipment - Build 3 - 1 Crane, 3 forklift, 1 generator, 2 welder, 2 trac/loader/backhoe

Off-road Equipment - Equipment from project plan;
Grading 2- 2 Excavator, 1 grader, 1 dozer, 1 scraper, 2 trac/loader/backhoe

Off-road Equipment - Equipment from project plan;
Grading 3 - 2 Excavator, 1 grader, 2 dozer, 1 scraper, 2 trac/loader/backhoe
Off-road Equipment - Equipment from project plan;
Grading 1 - 2 Excavator, 1 grader, 1 dozer, 1 scraper, 2 trac/loader/backhoe
Off-road Equipment - Equipment from project plan;
Rem 1 - 1 Excavator, 1 grader, 2 dozer, 1 scraper, 2 trac/loader/backhoe
Off-road Equipment - Equipment from project plan;
Rem 2 - 1 Excavator, 1 grader, 2 dozer, 1 scraper, 2 trac/loader/backhoe
Off-road Equipment - Equipment from project plan;
Rem 3 - 1 Excavator, 1 grader, 1 dozer, 1 scraper, 2 trac/loader/backhoe

Trips and VMT - Worker/vendor trips calculated from CalEEMod Appx A factors

Grading - Export and acreage of disturbance from project description

Construction Off-road Equipment Mitigation - Engine mitigation - All Tier 3
Dust mitigation - per Rule 403

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					
2014	19.68	157.01	93.09	0.18	48.31	7.38	55.68	9.97	7.38	17.35		18,791.96	0.00	1.75	0.00	18,828.73
2015	23.91	175.52	119.71	0.24	50.10	8.57	58.67	10.05	8.57	18.62		24,327.52	0.00	2.13	0.00	24,372.17
2016	20.03	142.04	105.46	0.21	29.34	6.96	36.30	6.72	6.96	13.69		21,876.04	0.00	1.79	0.00	21,913.57
2017	25.19	163.07	148.33	0.32	35.96	8.02	43.98	7.00	8.02	15.02		31,635.93	0.00	2.23	0.00	31,682.74
2018	12.91	79.17	82.16	0.19	13.16	3.81	16.96	3.41	3.77	7.19		18,183.24	0.00	1.14	0.00	18,207.12
2019	17.68	100.36	122.78	0.29	20.03	4.82	24.85	3.51	4.76	8.27		27,971.70	0.00	1.55	0.00	28,004.22
2020	10.43	51.21	82.45	0.21	13.49	2.52	16.01	0.20	2.46	2.66		19,361.25	0.00	0.89	0.00	19,380.01
2021	4.90	23.57	40.31	0.11	6.87	1.12	7.99	0.10	1.09	1.19		9,739.37	0.00	0.42	0.00	9,748.12
2022	4.63	21.73	39.16	0.11	6.87	0.99	7.87	0.10	0.96	1.07		9,679.37	0.00	0.39	0.00	9,687.56
2023	4.38	20.09	38.14	0.11	6.87	0.88	7.76	0.10	0.86	0.96		9,623.98	0.00	0.37	0.00	9,631.69
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

Mitigated Construction - All Tier 3

	ROG	NOx	CO	SO2	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					
2014	13.36	86.25	97.91	0.18	36.93	5.86	42.79	3.91	5.86	9.77		18,791.96	0.00	1.75	0.00	18,828.73
2015	17.90	109.01	129.23	0.24	38.80	7.72	46.52	3.99	7.72	11.71		24,327.52	0.00	2.13	0.00	24,372.17
2016	16.19	97.57	117.74	0.21	21.80	7.10	28.90	2.69	7.10	9.79		21,876.04	0.00	1.79	0.00	21,913.57
2017	22.57	127.19	164.77	0.32	28.42	9.28	37.70	2.96	9.28	12.24		31,635.93	0.00	2.23	0.00	31,682.74
2018	12.35	67.84	91.72	0.19	9.33	4.93	14.27	1.39	4.90	6.29		18,183.24	0.00	1.14	0.00	18,207.12
2019	18.49	96.21	135.61	0.29	16.21	7.09	23.30	1.49	7.03	8.52		27,971.70	0.00	1.55	0.00	28,004.22
2020	12.21	56.57	87.34	0.21	13.49	4.30	17.79	0.20	4.24	4.44		19,361.25	0.00	0.89	0.00	19,380.01
2021	6.05	27.98	42.94	0.11	6.87	2.15	9.02	0.10	2.12	2.22		9,739.37	0.00	0.42	0.00	9,748.12
2022	5.96	27.57	41.88	0.11	6.87	2.14	9.01	0.10	2.11	2.21		9,679.37	0.00	0.39	0.00	9,687.56
2023	5.88	27.23	40.92	0.11	6.87	2.13	9.00	0.10	2.10	2.20		9,623.98	0.00	0.37	0.00	9,631.69
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

3.0 Construction Detail

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

3.2 Remediation 1 - 2014

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					12.42	0.00	12.42	6.62	0.00	6.62						0.00
Off-Road	10.34	83.57	47.07	0.09		3.85	3.85		3.85	3.85		9,508.88		0.93		9,528.32
Total	**10.34**	**83.57**	**47.07**	**0.09**	**12.42**	**3.85**	**16.27**	**6.62**	**3.85**	**10.47**		**9,508.88**		**0.93**		**9,528.32**

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	0.33	3.44	2.14	0.01	29.10	0.13	29.24	0.02	0.13	0.15		591.53		0.02		591.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.11	0.11	1.05	0.00	0.28	0.01	0.29	0.01	0.01	0.02		200.83		0.01		201.06
Total	**0.44**	**3.55**	**3.19**	**0.01**	**29.38**	**0.14**	**29.53**	**0.03**	**0.14**	**0.17**		**792.36**		**0.03**		**792.94**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.84	0.00	4.84	2.58	0.00	2.58						0.00
Off-Road	6.84	44.09	48.75	0.09		2.96	2.96		2.96	2.96		9,508.88		0.93		9,528.32
Total	**6.84**	**44.09**	**48.75**	**0.09**	**4.84**	**2.96**	**7.80**	**2.58**	**2.96**	**5.54**		**9,508.88**		**0.93**		**9,528.32**

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	0.33	3.44	2.14	0.01	29.10	0.13	29.24	0.02	0.13	0.15		591.53		0.02		591.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.11	0.11	1.05	0.00	0.28	0.01	0.29	0.01	0.01	0.02		200.83		0.01		201.06
Total	**0.44**	**3.55**	**3.19**	**0.01**	**29.38**	**0.14**	**29.53**	**0.03**	**0.14**	**0.17**		**792.36**		**0.03**		**792.94**

3.3 Grading Phase I - 2014

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					6.23	0.00	6.23	3.31	0.00	3.31						0.00
Off-Road	8.80	69.78	41.77	0.08		3.37	3.37		3.37	3.37		8,289.89		0.79		8,306.41
Total	**8.80**	**69.78**	**41.77**	**0.08**	**6.23**	**3.37**	**9.60**	**3.31**	**3.37**	**6.68**		**8,289.89**		**0.79**		**8,306.41**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.11	0.11	1.05	0.00	0.28	0.01	0.29	0.01	0.01	0.02		200.83		0.01		201.06
Total	**0.11**	**0.11**	**1.05**	**0.00**	**0.28**	**0.01**	**0.29**	**0.01**	**0.01**	**0.02**		**200.83**		**0.01**		**201.06**

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					2.43	0.00	2.43	1.29	0.00	1.29						0.00
Off-Road	5.98	38.51	44.91	0.08		2.75	2.75		2.75	2.75		8,289.89		0.79		8,306.41
Total	**5.98**	**38.51**	**44.91**	**0.08**	**2.43**	**2.75**	**5.18**	**1.29**	**2.75**	**4.04**		**8,289.89**		**0.79**		**8,306.41**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.11	0.11	1.05	0.00	0.28	0.01	0.29	0.01	0.01	0.02		200.83		0.01		201.06
Total	**0.11**	**0.11**	**1.05**	**0.00**	**0.28**	**0.01**	**0.29**	**0.01**	**0.01**	**0.02**		**200.83**		**0.01**		**201.06**

3.3 Grading Phase I - 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					6.23	0.00	6.23	3.31	0.00	3.31						0.00
Off-Road	8.27	63.99	40.50	0.08		3.06	3.06		3.06	3.06		8,289.89		0.74		8,305.40
Total	**8.27**	**63.99**	**40.50**	**0.08**	**6.23**	**3.06**	**9.29**	**3.31**	**3.06**	**6.37**		**8,289.89**		**0.74**		**8,305.40**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.10	0.10	0.97	0.00	0.28	0.01	0.29	0.01	0.01	0.02		196.36		0.01		196.57
Total	**0.10**	**0.10**	**0.97**	**0.00**	**0.28**	**0.01**	**0.29**	**0.01**	**0.01**	**0.02**		**196.36**		**0.01**		**196.57**

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					2.43	0.00	2.43	1.29	0.00	1.29						0.00
Off-Road	5.98	38.51	44.91	0.08		2.75	2.75		2.75	2.75		8,289.89		0.74		8,305.40
Total	**5.98**	**38.51**	**44.91**	**0.08**	**2.43**	**2.75**	**5.18**	**1.29**	**2.75**	**4.04**		**8,289.89**		**0.74**		**8,305.40**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.10	0.10	0.97	0.00	0.28	0.01	0.29	0.01	0.01	0.02		196.36		0.01		196.57
Total	**0.10**	**0.10**	**0.97**	**0.00**	**0.28**	**0.01**	**0.29**	**0.01**	**0.01**	**0.02**		**196.36**		**0.01**		**196.57**

3.4 Remediation 2 - 2014

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					12.29	0.00	12.29	6.62	0.00	6.62						0.00
Off-Road	10.34	83.57	47.07	0.09		3.85	3.85		3.85	3.85		9,508.88		0.93		9,528.32
Total	**10.34**	**83.57**	**47.07**	**0.09**	**12.29**	**3.85**	**16.14**	**6.62**	**3.85**	**10.47**		**9,508.88**		**0.93**		**9,528.32**

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	0.22	2.27	1.41	0.00	29.10	0.09	29.18	0.01	0.09	0.10		389.82		0.01		390.05
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.11	0.11	1.05	0.00	0.28	0.01	0.29	0.01	0.01	0.02		200.83		0.01		201.06
Total	**0.33**	**2.38**	**2.46**	**0.00**	**29.38**	**0.10**	**29.47**	**0.02**	**0.10**	**0.12**		**590.65**		**0.02**		**591.11**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.79	0.00	4.79	2.58	0.00	2.58						0.00
Off-Road	6.84	44.09	48.75	0.09		2.96	2.96		2.96	2.96		9,508.88		0.93		9,528.32
Total	**6.84**	**44.09**	**48.75**	**0.09**	**4.79**	**2.96**	**7.75**	**2.58**	**2.96**	**5.54**		**9,508.88**		**0.93**		**9,528.32**

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	0.22	2.27	1.41	0.00	29.10	0.09	29.18	0.01	0.09	0.10		389.82		0.01		390.05
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.11	0.11	1.05	0.00	0.28	0.01	0.29	0.01	0.01	0.02		200.83		0.01		201.06
Total	**0.33**	**2.38**	**2.46**	**0.00**	**29.38**	**0.10**	**29.47**	**0.02**	**0.10**	**0.12**		**590.65**		**0.02**		**591.11**

3.4 Remediation 2 - 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					12.29	0.00	12.29	6.62	0.00	6.62						0.00
Off-Road	9.77	77.20	45.14	0.09		3.52	3.52		3.52	3.52		9,508.88		0.87		9,527.17
Total	**9.77**	**77.20**	**45.14**	**0.09**	**12.29**	**3.52**	**15.81**	**6.62**	**3.52**	**10.14**		**9,508.88**		**0.87**		**9,527.17**

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	0.20	2.00	1.28	0.00	29.10	0.07	29.17	0.01	0.07	0.09		391.57		0.01		391.77
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.10	0.10	0.97	0.00	0.28	0.01	0.29	0.01	0.01	0.02		196.36		0.01		196.57
Total	**0.30**	**2.10**	**2.25**	**0.00**	**29.38**	**0.08**	**29.46**	**0.02**	**0.08**	**0.11**		**587.93**		**0.02**		**588.34**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.79	0.00	4.79	2.58	0.00	2.58						0.00
Off-Road	6.84	44.09	48.75	0.09		2.96	2.96		2.96	2.96		9,508.88		0.87		9,527.17
Total	**6.84**	**44.09**	**48.75**	**0.09**	**4.79**	**2.96**	**7.75**	**2.58**	**2.96**	**5.54**		**9,508.88**		**0.87**		**9,527.17**

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	0.20	2.00	1.28	0.00	29.10	0.07	29.17	0.01	0.07	0.09		391.57		0.01		391.77
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.10	0.10	0.97	0.00	0.28	0.01	0.29	0.01	0.01	0.02		196.36		0.01		196.57
Total	**0.30**	**2.10**	**2.25**	**0.00**	**29.38**	**0.08**	**29.46**	**0.02**	**0.08**	**0.11**		**587.93**		**0.02**		**588.34**

3.5 Building Construction Phase I - 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	4.57	28.32	22.58	0.04		1.75	1.75		1.75	1.75		3,886.46		0.41		3,895.08
Total	**4.57**	**28.32**	**22.58**	**0.04**		**1.75**	**1.75**		**1.75**	**1.75**		**3,886.46**		**0.41**		**3,895.08**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.30	3.19	2.32	0.01	0.22	0.10	0.32	0.02	0.10	0.12		647.14		0.01		647.45
Worker	0.61	0.62	5.96	0.01	1.70	0.05	1.76	0.06	0.05	0.12		1,210.86		0.06		1,212.17
Total	**0.91**	**3.81**	**8.28**	**0.02**	**1.92**	**0.15**	**2.08**	**0.08**	**0.15**	**0.24**		**1,858.00**		**0.07**		**1,859.62**

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	3.77	20.41	24.08	0.04		1.77	1.77		1.77	1.77		3,886.46		0.41		3,895.08
Total	**3.77**	**20.41**	**24.08**	**0.04**		**1.77**	**1.77**		**1.77**	**1.77**		**3,886.46**		**0.41**		**3,895.08**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.30	3.19	2.32	0.01	0.22	0.10	0.32	0.02	0.10	0.12		647.14		0.01		647.45
Worker	0.61	0.62	5.96	0.01	1.70	0.05	1.76	0.06	0.05	0.12		1,210.86		0.06		1,212.17
Total	**0.91**	**3.81**	**8.28**	**0.02**	**1.92**	**0.15**	**2.08**	**0.08**	**0.15**	**0.24**		**1,858.00**		**0.07**		**1,859.62**

3.5 Building Construction Phase I - 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	4.18	25.86	22.35	0.04		1.55	1.55		1.55	1.55		3,886.46		0.37		3,894.33
Total	**4.18**	**25.86**	**22.35**	**0.04**		**1.55**	**1.55**		**1.55**	**1.55**		**3,886.46**		**0.37**		**3,894.33**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.28	2.92	2.16	0.01	0.22	0.09	0.31	0.02	0.09	0.11		648.17		0.01		648.46
Worker	0.58	0.57	5.49	0.01	1.70	0.05	1.76	0.06	0.05	0.12		1,177.20		0.06		1,178.41
Total	**0.86**	**3.49**	**7.65**	**0.02**	**1.92**	**0.14**	**2.07**	**0.08**	**0.14**	**0.23**		**1,825.37**		**0.07**		**1,826.87**

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	3.77	20.41	24.08	0.04		1.77	1.77		1.77	1.77		3,886.46		0.37		3,894.33
Total	**3.77**	**20.41**	**24.08**	**0.04**		**1.77**	**1.77**		**1.77**	**1.77**		**3,886.46**		**0.37**		**3,894.33**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.28	2.92	2.16	0.01	0.22	0.09	0.31	0.02	0.09	0.11		648.17		0.01		648.46
Worker	0.58	0.57	5.49	0.01	1.70	0.05	1.76	0.06	0.05	0.12		1,177.20		0.06		1,178.41
Total	**0.86**	**3.49**	**7.65**	**0.02**	**1.92**	**0.14**	**2.07**	**0.08**	**0.14**	**0.23**		**1,825.37**		**0.07**		**1,826.87**

3.5 Building Construction Phase I - 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					
Off-Road	3.82	23.58	22.15	0.04		1.36	1.36		1.36	1.36		3,886.46		0.34		3,893.62
Total	**3.82**	**23.58**	**22.15**	**0.04**		**1.36**	**1.36**		**1.36**	**1.36**		**3,886.46**		**0.34**		**3,893.62**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.26	2.69	2.03	0.01	0.22	0.08	0.31	0.02	0.08	0.10		649.86		0.01		650.12
Worker	0.55	0.52	5.08	0.01	1.70	0.06	1.76	0.06	0.06	0.12		1,151.68		0.05		1,152.81
Total	**0.81**	**3.21**	**7.11**	**0.02**	**1.92**	**0.14**	**2.07**	**0.08**	**0.14**	**0.22**		**1,801.54**		**0.06**		**1,802.93**

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	3.77	20.41	24.08	0.04		1.77	1.77		1.77	1.77		3,886.46		0.34		3,893.62
Total	**3.77**	**20.41**	**24.08**	**0.04**		**1.77**	**1.77**		**1.77**	**1.77**		**3,886.46**		**0.34**		**3,893.62**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.26	2.69	2.03	0.01	0.22	0.08	0.31	0.02	0.08	0.10		649.86		0.01		650.12
Worker	0.55	0.52	5.08	0.01	1.70	0.06	1.76	0.06	0.06	0.12		1,151.68		0.05		1,152.81
Total	**0.81**	**3.21**	**7.11**	**0.02**	**1.92**	**0.14**	**2.07**	**0.08**	**0.14**	**0.22**		**1,801.54**		**0.06**		**1,802.93**

3.6 Remediation 3 - 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					6.10	0.00	6.10	3.31	0.00	3.31						0.00
Off-Road	7.43	58.08	35.19	0.07		2.74	2.74		2.74	2.74		7,393.75		0.66		7,407.66
Total	**7.43**	**58.08**	**35.19**	**0.07**	**6.10**	**2.74**	**8.84**	**3.31**	**2.74**	**6.05**		**7,393.75**		**0.66**		**7,407.66**

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	0.06	0.67	0.43	0.00	14.55	0.02	14.57	0.00	0.02	0.03		130.36		0.00		130.42
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.08	0.08	0.81	0.00	0.23	0.01	0.24	0.01	0.01	0.02		163.63		0.01		163.81
Total	**0.14**	**0.75**	**1.24**	**0.00**	**14.78**	**0.03**	**14.81**	**0.01**	**0.03**	**0.05**		**293.99**		**0.01**		**294.23**

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					2.38	0.00	2.38	1.29	0.00	1.29						0.00
Off-Road	5.35	34.41	39.08	0.07		2.40	2.40		2.40	2.40		7,393.75		0.66		7,407.66
Total	**5.35**	**34.41**	**39.08**	**0.07**	**2.38**	**2.40**	**4.78**	**1.29**	**2.40**	**3.69**		**7,393.75**		**0.66**		**7,407.66**

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	0.06	0.67	0.43	0.00	14.55	0.02	14.57	0.00	0.02	0.03		130.36		0.00		130.42
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.08	0.08	0.81	0.00	0.23	0.01	0.24	0.01	0.01	0.02		163.63		0.01		163.81
Total	**0.14**	**0.75**	**1.24**	**0.00**	**14.78**	**0.03**	**14.81**	**0.01**	**0.03**	**0.05**		**293.99**		**0.01**		**294.23**

3.6 Remediation 3 - 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					
Fugitive Dust					6.10	0.00	6.10	3.31	0.00	3.31						0.00
Off-Road	6.99	53.34	34.06	0.07		2.47	2.47		2.47	2.47		7,393.75		0.63		7,406.89
Total	**6.99**	**53.34**	**34.06**	**0.07**	**6.10**	**2.47**	**8.57**	**3.31**	**2.47**	**5.78**		**7,393.75**		**0.63**		**7,406.89**

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	0.06	0.60	0.39	0.00	14.55	0.02	14.57	0.00	0.02	0.03		130.59		0.00		130.65
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.08	0.08	0.74	0.00	0.23	0.01	0.24	0.01	0.01	0.02		159.08		0.01		159.24
Total	**0.14**	**0.68**	**1.13**	**0.00**	**14.78**	**0.03**	**14.81**	**0.01**	**0.03**	**0.05**		**289.67**		**0.01**		**289.89**

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					2.38	0.00	2.38	1.29	0.00	1.29						0.00
Off-Road	5.35	34.41	39.08	0.07		2.40	2.40		2.40	2.40		7,393.75		0.63		7,406.89
Total	**5.35**	**34.41**	**39.08**	**0.07**	**2.38**	**2.40**	**4.78**	**1.29**	**2.40**	**3.69**		**7,393.75**		**0.63**		**7,406.89**

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	0.06	0.60	0.39	0.00	14.55	0.02	14.57	0.00	0.02	0.03		130.59		0.00		130.65
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.08	0.08	0.74	0.00	0.23	0.01	0.24	0.01	0.01	0.02		159.08		0.01		159.24
Total	**0.14**	**0.68**	**1.13**	**0.00**	**14.78**	**0.03**	**14.81**	**0.01**	**0.03**	**0.05**		**289.67**		**0.01**		**289.89**

3.6 Remediation 3 - 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					
Fugitive Dust					6.10	0.00	6.10	3.31	0.00	3.31						0.00
Off-Road	6.57	48.92	33.05	0.07		2.23	2.23		2.23	2.23		7,393.75		0.59		7,406.07
Total	**6.57**	**48.92**	**33.05**	**0.07**	**6.10**	**2.23**	**8.33**	**3.31**	**2.23**	**5.54**		**7,393.75**		**0.59**		**7,406.07**

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	0.05	0.54	0.36	0.00	14.55	0.02	14.57	0.00	0.02	0.02		131.03		0.00		131.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.07	0.07	0.69	0.00	0.23	0.01	0.24	0.01	0.01	0.02		155.63		0.01		155.79
Total	**0.12**	**0.61**	**1.05**	**0.00**	**14.78**	**0.03**	**14.81**	**0.01**	**0.03**	**0.04**		**286.66**		**0.01**		**286.88**

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					2.38	0.00	2.38	1.29	0.00	1.29						0.00
Off-Road	5.35	34.41	39.08	0.07		2.40	2.40		2.40	2.40		7,393.75		0.59		7,406.07
Total	**5.35**	**34.41**	**39.08**	**0.07**	**2.38**	**2.40**	**4.78**	**1.29**	**2.40**	**3.69**		**7,393.75**		**0.59**		**7,406.07**

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	0.05	0.54	0.36	0.00	14.55	0.02	14.57	0.00	0.02	0.02		131.03		0.00		131.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.07	0.07	0.69	0.00	0.23	0.01	0.24	0.01	0.01	0.02		155.63		0.01		155.79
Total	**0.12**	**0.61**	**1.05**	**0.00**	**14.78**	**0.03**	**14.81**	**0.01**	**0.03**	**0.04**		**286.66**		**0.01**		**286.88**

3.7 Grading Phase 2 - 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					
Fugitive Dust					6.26	0.00	6.26	3.31	0.00	3.31						0.00
Off-Road	7.77	58.58	39.37	0.08		2.76	2.76		2.76	2.76		8,289.89		0.70		8,304.49
Total	**7.77**	**58.58**	**39.37**	**0.08**	**6.26**	**2.76**	**9.02**	**3.31**	**2.76**	**6.07**		**8,289.89**		**0.70**		**8,304.49**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.09	0.09	0.89	0.00	0.28	0.01	0.29	0.01	0.01	0.02		190.90		0.01		191.09
Total	**0.09**	**0.09**	**0.89**	**0.00**	**0.28**	**0.01**	**0.29**	**0.01**	**0.01**	**0.02**		**190.90**		**0.01**		**191.09**

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					2.44	0.00	2.44	1.29	0.00	1.29						0.00
Off-Road	5.98	38.51	44.91	0.08		2.75	2.75		2.75	2.75		8,289.89		0.70		8,304.49
Total	**5.98**	**38.51**	**44.91**	**0.08**	**2.44**	**2.75**	**5.19**	**1.29**	**2.75**	**4.04**		**8,289.89**		**0.70**		**8,304.49**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.09	0.09	0.89	0.00	0.28	0.01	0.29	0.01	0.01	0.02		190.90		0.01		191.09
Total	**0.09**	**0.09**	**0.89**	**0.00**	**0.28**	**0.01**	**0.29**	**0.01**	**0.01**	**0.02**		**190.90**		**0.01**		**191.09**

3.7 Grading Phase 2 - 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					
Fugitive Dust					6.26	0.00	6.26	3.31	0.00	3.31						0.00
Off-Road	7.29	53.53	38.36	0.08		2.47	2.47		2.47	2.47		8,289.89		0.65		8,303.53
Total	**7.29**	**53.53**	**38.36**	**0.08**	**6.26**	**2.47**	**8.73**	**3.31**	**2.47**	**5.78**		**8,289.89**		**0.65**		**8,303.53**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.09	0.08	0.82	0.00	0.28	0.01	0.29	0.01	0.01	0.02		186.76		0.01		186.94
Total	**0.09**	**0.08**	**0.82**	**0.00**	**0.28**	**0.01**	**0.29**	**0.01**	**0.01**	**0.02**		**186.76**		**0.01**		**186.94**

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					2.44	0.00	2.44	1.29	0.00	1.29						0.00
Off-Road	5.98	38.51	44.91	0.08		2.75	2.75		2.75	2.75		8,289.89		0.65		8,303.53
Total	**5.98**	**38.51**	**44.91**	**0.08**	**2.44**	**2.75**	**5.19**	**1.29**	**2.75**	**4.04**		**8,289.89**		**0.65**		**8,303.53**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.09	0.08	0.82	0.00	0.28	0.01	0.29	0.01	0.01	0.02		186.76		0.01		186.94
Total	**0.09**	**0.08**	**0.82**	**0.00**	**0.28**	**0.01**	**0.29**	**0.01**	**0.01**	**0.02**		**186.76**		**0.01**		**186.94**

3.8 Building Phase 2 - 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					
Off-Road	3.82	23.58	22.15	0.04		1.36	1.36		1.36	1.36		3,886.46		0.34		3,893.62
Total	**3.82**	**23.58**	**22.15**	**0.04**		**1.36**	**1.36**		**1.36**	**1.36**		**3,886.46**		**0.34**		**3,893.62**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.74	7.73	5.83	0.02	0.64	0.24	0.88	0.05	0.24	0.29		1,868.34		0.04		1,869.11
Worker	1.93	1.82	17.81	0.04	5.97	0.19	6.16	0.22	0.19	0.42		4,036.06		0.19		4,040.04
Total	**2.67**	**9.55**	**23.64**	**0.06**	**6.61**	**0.43**	**7.04**	**0.27**	**0.43**	**0.71**		**5,904.40**		**0.23**		**5,909.15**

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	3.77	20.41	24.08	0.04		1.77	1.77		1.77	1.77		3,886.46		0.34		3,893.62
Total	**3.77**	**20.41**	**24.08**	**0.04**		**1.77**	**1.77**		**1.77**	**1.77**		**3,886.46**		**0.34**		**3,893.62**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.74	7.73	5.83	0.02	0.64	0.24	0.88	0.05	0.24	0.29		1,868.34		0.04		1,869.11
Worker	1.93	1.82	17.81	0.04	5.97	0.19	6.16	0.22	0.19	0.42		4,036.06		0.19		4,040.04
Total	**2.67**	**9.55**	**23.64**	**0.06**	**6.61**	**0.43**	**7.04**	**0.27**	**0.43**	**0.71**		**5,904.40**		**0.23**		**5,909.15**

3.8 Building Phase 2 - 2018

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	3.48	21.41	21.96	0.04		1.18	1.18		1.18	1.18		3,886.47		0.31		3,892.98
Total	**3.48**	**21.41**	**21.96**	**0.04**		**1.18**	**1.18**		**1.18**	**1.18**		**3,886.47**		**0.31**		**3,892.98**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.69	7.17	5.47	0.02	0.64	0.22	0.86	0.02	0.20	0.22		1,872.96		0.03		1,873.67
Worker	1.83	1.67	16.49	0.04	5.97	0.19	6.16	0.08	0.18	0.26		3,951.09		0.18		3,954.80
Total	**2.52**	**8.84**	**21.96**	**0.06**	**6.61**	**0.41**	**7.02**	**0.10**	**0.38**	**0.48**		**5,824.05**		**0.21**		**5,828.47**

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	3.77	20.41	24.08	0.04		1.77	1.77		1.77	1.77		3,886.47		0.31		3,892.98
Total	**3.77**	**20.41**	**24.08**	**0.04**		**1.77**	**1.77**		**1.77**	**1.77**		**3,886.47**		**0.31**		**3,892.98**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.69	7.17	5.47	0.02	0.64	0.22	0.86	0.02	0.20	0.22		1,872.96		0.03		1,873.67
Worker	1.83	1.67	16.49	0.04	5.97	0.19	6.16	0.08	0.18	0.26		3,951.09		0.18		3,954.80
Total	**2.52**	**8.84**	**21.96**	**0.06**	**6.61**	**0.41**	**7.02**	**0.10**	**0.38**	**0.48**		**5,824.05**		**0.21**		**5,828.47**

3.8 Building Phase 2 - 2019

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	3.15	19.48	21.78	0.04		1.02	1.02		1.02	1.02		3,886.47		0.28		3,892.41
Total	**3.15**	**19.48**	**21.78**	**0.04**		**1.02**	**1.02**		**1.02**	**1.02**		**3,886.47**		**0.28**		**3,892.41**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.65	6.70	5.14	0.02	0.64	0.20	0.84	0.02	0.18	0.20		1,877.47		0.03		1,878.13
Worker	1.75	1.54	15.37	0.04	5.97	0.19	6.16	0.08	0.18	0.26		3,871.92		0.17		3,875.41
Total	**2.40**	**8.24**	**20.51**	**0.06**	**6.61**	**0.39**	**7.00**	**0.10**	**0.36**	**0.46**		**5,749.39**		**0.20**		**5,753.54**

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	3.77	20.41	24.08	0.04		1.77	1.77		1.77	1.77		3,886.47		0.28		3,892.41
Total	**3.77**	**20.41**	**24.08**	**0.04**		**1.77**	**1.77**		**1.77**	**1.77**		**3,886.47**		**0.28**		**3,892.41**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.65	6.70	5.14	0.02	0.64	0.20	0.84	0.02	0.18	0.20		1,877.47		0.03		1,878.13
Worker	1.75	1.54	15.37	0.04	5.97	0.19	6.16	0.08	0.18	0.26		3,871.92		0.17		3,875.41
Total	**2.40**	**8.24**	**20.51**	**0.06**	**6.61**	**0.39**	**7.00**	**0.10**	**0.36**	**0.46**		**5,749.39**		**0.20**		**5,753.54**

3.8 Building Phase 2 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.88	17.73	21.63	0.04		0.87	0.87		0.87	0.87		3,886.47		0.26		3,891.87
Total	**2.88**	**17.73**	**21.63**	**0.04**		**0.87**	**0.87**		**0.87**	**0.87**		**3,886.47**		**0.26**		**3,891.87**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.61	6.29	4.84	0.02	0.64	0.18	0.83	0.02	0.17	0.19		1,881.66		0.03		1,882.28
Worker	1.68	1.42	14.37	0.04	5.97	0.20	6.17	0.08	0.18	0.26		3,798.36		0.16		3,801.64
Total	**2.29**	**7.71**	**19.21**	**0.06**	**6.61**	**0.38**	**7.00**	**0.10**	**0.35**	**0.45**		**5,680.02**		**0.19**		**5,683.92**

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	3.77	20.41	24.08	0.04		1.77	1.77		1.77	1.77		3,886.47		0.26		3,891.87
Total	**3.77**	**20.41**	**24.08**	**0.04**		**1.77**	**1.77**		**1.77**	**1.77**		**3,886.47**		**0.26**		**3,891.87**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.61	6.29	4.84	0.02	0.64	0.18	0.83	0.02	0.17	0.19		1,881.66		0.03		1,882.28
Worker	1.68	1.42	14.37	0.04	5.97	0.20	6.17	0.08	0.18	0.26		3,798.36		0.16		3,801.64
Total	**2.29**	**7.71**	**19.21**	**0.06**	**6.61**	**0.38**	**7.00**	**0.10**	**0.35**	**0.45**		**5,680.02**		**0.19**		**5,683.92**

3.9 Grading Phase 3 - 2018

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					6.27	0.00	6.27	3.31	0.00	3.31						0.00
Off-Road	6.83	48.84	37.47	0.08		2.20	2.20		2.20	2.20		8,289.90		0.61		8,302.68
Total	**6.83**	**48.84**	**37.47**	**0.08**	**6.27**	**2.20**	**8.47**	**3.31**	**2.20**	**5.51**		**8,289.90**		**0.61**		**8,302.68**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.08	0.08	0.76	0.00	0.28	0.01	0.29	0.00	0.01	0.01		182.83		0.01		183.00
Total	**0.08**	**0.08**	**0.76**	**0.00**	**0.28**	**0.01**	**0.29**	**0.00**	**0.01**	**0.01**		**182.83**		**0.01**		**183.00**

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					2.44	0.00	2.44	1.29	0.00	1.29						0.00
Off-Road	5.98	38.51	44.91	0.08		2.75	2.75		2.75	2.75		8,289.90		0.61		8,302.68
Total	**5.98**	**38.51**	**44.91**	**0.08**	**2.44**	**2.75**	**5.19**	**1.29**	**2.75**	**4.04**		**8,289.90**		**0.61**		**8,302.68**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.08	0.08	0.76	0.00	0.28	0.01	0.29	0.00	0.01	0.01		182.83		0.01		183.00
Total	**0.08**	**0.08**	**0.76**	**0.00**	**0.28**	**0.01**	**0.29**	**0.00**	**0.01**	**0.01**		**182.83**		**0.01**		**183.00**

3.9 Grading Phase 3 - 2019

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					6.27	0.00	6.27	3.31	0.00	3.31						0.00
Off-Road	6.41	44.50	36.68	0.08		1.97	1.97		1.97	1.97		8,289.89		0.57		8,301.90
Total	**6.41**	**44.50**	**36.68**	**0.08**	**6.27**	**1.97**	**8.24**	**3.31**	**1.97**	**5.28**		**8,289.89**		**0.57**		**8,301.90**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.08	0.07	0.71	0.00	0.28	0.01	0.29	0.00	0.01	0.01		179.16		0.01		179.32
Total	**0.08**	**0.07**	**0.71**	**0.00**	**0.28**	**0.01**	**0.29**	**0.00**	**0.01**	**0.01**		**179.16**		**0.01**		**179.32**

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					2.44	0.00	2.44	1.29	0.00	1.29						0.00
Off-Road	5.98	38.51	44.91	0.08		2.75	2.75		2.75	2.75		8,289.89		0.57		8,301.90
Total	**5.98**	**38.51**	**44.91**	**0.08**	**2.44**	**2.75**	**5.19**	**1.29**	**2.75**	**4.04**		**8,289.89**		**0.57**		**8,301.90**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Worker	0.08	0.07	0.71	0.00	0.28	0.01	0.29	0.00	0.01	0.01		179.16		0.01		179.32
Total	**0.08**	**0.07**	**0.71**	**0.00**	**0.28**	**0.01**	**0.29**	**0.00**	**0.01**	**0.01**		**179.16**		**0.01**		**179.32**

3.10 Building Phase 3 - 2019

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	3.15	19.48	21.78	0.04		1.02	1.02		1.02	1.02		3,886.47		0.28		3,892.41
Total	**3.15**	**19.48**	**21.78**	**0.04**		**1.02**	**1.02**		**1.02**	**1.02**		**3,886.47**		**0.28**		**3,892.41**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.67	6.99	5.36	0.02	0.67	0.21	0.88	0.02	0.19	0.21		1,959.09		0.03		1,959.79
Worker	1.81	1.60	15.96	0.05	6.20	0.20	6.40	0.08	0.19	0.27		4,021.23		0.17		4,024.84
Total	**2.48**	**8.59**	**21.32**	**0.07**	**6.87**	**0.41**	**7.28**	**0.10**	**0.38**	**0.48**		**5,980.32**		**0.20**		**5,984.63**

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	3.77	20.41	24.08	0.04		1.77	1.77		1.77	1.77		3,886.47		0.28		3,892.41
Total	**3.77**	**20.41**	**24.08**	**0.04**		**1.77**	**1.77**		**1.77**	**1.77**		**3,886.47**		**0.28**		**3,892.41**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.67	6.99	5.36	0.02	0.67	0.21	0.88	0.02	0.19	0.21		1,959.09		0.03		1,959.79
Worker	1.81	1.60	15.96	0.05	6.20	0.20	6.40	0.08	0.19	0.27		4,021.23		0.17		4,024.84
Total	**2.48**	**8.59**	**21.32**	**0.07**	**6.87**	**0.41**	**7.28**	**0.10**	**0.38**	**0.48**		**5,980.32**		**0.20**		**5,984.63**

3.10 Building Phase 3 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.88	17.73	21.63	0.04		0.87	0.87		0.87	0.87		3,886.47		0.26		3,891.87
Total	**2.88**	**17.73**	**21.63**	**0.04**		**0.87**	**0.87**		**0.87**	**0.87**		**3,886.47**		**0.26**		**3,891.87**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.63	6.57	5.05	0.02	0.67	0.19	0.86	0.02	0.18	0.19		1,963.47		0.03		1,964.12
Worker	1.74	1.48	14.93	0.05	6.20	0.20	6.40	0.08	0.19	0.27		3,944.83		0.16		3,948.24
Total	**2.37**	**8.05**	**19.98**	**0.07**	**6.87**	**0.39**	**7.26**	**0.10**	**0.37**	**0.46**		**5,908.30**		**0.19**		**5,912.36**

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	3.77	20.41	24.08	0.04		1.77	1.77		1.77	1.77		3,886.47		0.26		3,891.87
Total	**3.77**	**20.41**	**24.08**	**0.04**		**1.77**	**1.77**		**1.77**	**1.77**		**3,886.47**		**0.26**		**3,891.87**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.63	6.57	5.05	0.02	0.67	0.19	0.86	0.02	0.18	0.19		1,963.47		0.03		1,964.12
Worker	1.74	1.48	14.93	0.05	6.20	0.20	6.40	0.08	0.19	0.27		3,944.83		0.16		3,948.24
Total	**2.37**	**8.05**	**19.98**	**0.07**	**6.87**	**0.39**	**7.26**	**0.10**	**0.37**	**0.46**		**5,908.30**		**0.19**		**5,912.36**

3.10 Building Phase 3 - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.62	16.00	21.45	0.04		0.73	0.73		0.73	0.73		3,886.46		0.23		3,891.35
Total	**2.62**	**16.00**	**21.45**	**0.04**		**0.73**	**0.73**		**0.73**	**0.73**		**3,886.46**		**0.23**		**3,891.35**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.60	6.20	4.80	0.02	0.67	0.18	0.85	0.02	0.16	0.18		1,967.56		0.03		1,968.16
Worker	1.68	1.37	14.06	0.05	6.20	0.20	6.40	0.08	0.19	0.27		3,885.35		0.15		3,888.60
Total	**2.28**	**7.57**	**18.86**	**0.07**	**6.87**	**0.38**	**7.25**	**0.10**	**0.35**	**0.45**		**5,852.91**		**0.18**		**5,856.76**

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	3.77	20.41	24.08	0.04		1.77	1.77		1.77	1.77		3,886.46		0.23		3,891.35
Total	**3.77**	**20.41**	**24.08**	**0.04**		**1.77**	**1.77**		**1.77**	**1.77**		**3,886.46**		**0.23**		**3,891.35**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.60	6.20	4.80	0.02	0.67	0.18	0.85	0.02	0.16	0.18		1,967.56		0.03		1,968.16
Worker	1.68	1.37	14.06	0.05	6.20	0.20	6.40	0.08	0.19	0.27		3,885.35		0.15		3,888.60
Total	**2.28**	**7.57**	**18.86**	**0.07**	**6.87**	**0.38**	**7.25**	**0.10**	**0.35**	**0.45**		**5,852.91**		**0.18**		**5,856.76**

3.10 Building Phase 3 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.44	14.56	21.36	0.04		0.62	0.62		0.62	0.62		3,886.46		0.22		3,891.01
Total	**2.44**	**14.56**	**21.36**	**0.04**		**0.62**	**0.62**		**0.62**	**0.62**		**3,886.46**		**0.22**		**3,891.01**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.57	5.90	4.56	0.02	0.67	0.17	0.84	0.02	0.15	0.17		1,971.52		0.03		1,972.09
Worker	1.62	1.27	13.23	0.05	6.20	0.20	6.41	0.08	0.19	0.27		3,821.39		0.15		3,824.46
Total	**2.19**	**7.17**	**17.79**	**0.07**	**6.87**	**0.37**	**7.25**	**0.10**	**0.34**	**0.44**		**5,792.91**		**0.18**		**5,796.55**

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	3.77	20.41	24.08	0.04		1.77	1.77		1.77	1.77		3,886.46		0.22		3,891.01
Total	**3.77**	**20.41**	**24.08**	**0.04**		**1.77**	**1.77**		**1.77**	**1.77**		**3,886.46**		**0.22**		**3,891.01**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.57	5.90	4.56	0.02	0.67	0.17	0.84	0.02	0.15	0.17		1,971.52		0.03		1,972.09
Worker	1.62	1.27	13.23	0.05	6.20	0.20	6.41	0.08	0.19	0.27		3,821.39		0.15		3,824.46
Total	**2.19**	**7.17**	**17.79**	**0.07**	**6.87**	**0.37**	**7.25**	**0.10**	**0.34**	**0.44**		**5,792.91**		**0.18**		**5,796.55**

3.10 Building Phase 3 - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.27	13.27	21.30	0.04		0.52	0.52		0.52	0.52		3,886.46		0.20		3,890.71
Total	**2.27**	**13.27**	**21.30**	**0.04**		**0.52**	**0.52**		**0.52**	**0.52**		**3,886.46**		**0.20**		**3,890.71**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.54	5.64	4.37	0.02	0.67	0.16	0.83	0.02	0.14	0.16		1,975.36		0.03		1,975.90
Worker	1.56	1.19	12.47	0.05	6.20	0.20	6.41	0.08	0.19	0.27		3,762.16		0.14		3,765.08
Total	**2.10**	**6.83**	**16.84**	**0.07**	**6.87**	**0.36**	**7.24**	**0.10**	**0.33**	**0.43**		**5,737.52**		**0.17**		**5,740.98**

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	3.77	20.41	24.08	0.04		1.77	1.77		1.77	1.77		3,886.46		0.20		3,890.71
Total	**3.77**	**20.41**	**24.08**	**0.04**		**1.77**	**1.77**		**1.77**	**1.77**		**3,886.46**		**0.20**		**3,890.71**

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00		0.00
Vendor	0.54	5.64	4.37	0.02	0.67	0.16	0.83	0.02	0.14	0.16		1,975.36		0.03		1,975.90
Worker	1.56	1.19	12.47	0.05	6.20	0.20	6.41	0.08	0.19	0.27		3,762.16		0.14		3,765.08
Total	**2.10**	**6.83**	**16.84**	**0.07**	**6.87**	**0.36**	**7.24**	**0.10**	**0.33**	**0.43**		**5,737.52**		**0.17**		**5,740.98**

NBR Phase I 060711

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
City Park	6.3	Acre
Condo/Townhouse	87	Dwelling Unit
Single Family Housing	141	Dwelling Unit

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	Southern California Edison
Climate Zone	8		2.2		
		Precipitation Freq (Days)			

1.3 User Entered Comments

30

Project Characteristics - NBR Phase I const and op

Land Use - Land use matches Table 3 of traffic report
Population at 2.19 per du per EIR Section 4.7

Construction Phase - Phasing set to project plan

Vehicle Trips - Weekday trips per Project traffic analysis
Sat and Sun trips default ratios

Woodstoves - No woodstoves or wood fireplaces. Gas in 90 percent of homes.

Construction Off-road Equipment Mitigation - Set all grading/remediation equipment to Tier 3- 032311.

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational - winter

	ROG	NOx	CO	SO2	Fugitive 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	32.34	1.34	94.70	0.18		0.00	12.16		0.00	12.16		4,138.28		6.40	0.10	5,912.21
Energy	0.24	2.07	0.88	0.01		0.00	0.17		0.00	0.17		2,640.22		0.05	0.05	2,656.29
Mobile	9.56	17.48	84.00	0.18	21.84	0.95	22.79	0.74	0.95	1.69		16,530.94		0.66		16,544.90
Total	**42.14**	**20.89**	**179.58**	**0.37**	**21.84**	**0.95**	**35.12**	**0.74**	**0.95**	**14.02**		**23,309.44**		**7.11**	**0.15**	**25,113.40**

Highlight indicates higher of winter or summer

Unmitigated Operational - summer

	ROG	NOx	CO	SO2	Fugitive 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	32.34	1.34	94.70	0.18		0.00	12.16		0.00	12.16		4,138.28		6.40	0.10	5,912.21
Energy	0.24	2.07	0.88	0.01		0.00	0.17		0.00	0.17		2,640.22		0.05	0.05	2,656.29
Mobile	8.86	16.08	86.44	0.20	21.84	0.95	22.79	0.74	0.95	1.68		17,507.83		0.71		17,522.67
Total	**41.44**	**19.49**	**182.02**	**0.39**	**21.84**	**0.95**	**35.12**	**0.74**	**0.95**	**14.01**		**24,286.33**		**7.16**	**0.15**	**26,091.17**

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	32.34	1.34	94.70	0.18		0.00	12.16		0.00	12.16		4,138.28		6.40	0.10	5,912.21
Energy	0.24	2.07	0.88	0.01		0.00	0.17		0.00	0.17		2,640.22		0.05	0.05	2,656.29
Mobile	9.56	17.48	84.00	0.18	21.84	0.95	22.79	0.74	0.95	1.69		16,530.94		0.66		16,544.90
Total	**42.14**	**20.89**	**179.58**	**0.37**	**21.84**	**0.95**	**35.12**	**0.74**	**0.95**	**14.02**		**23,309.44**		**7.11**	**0.15**	**25,113.40**

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.56	17.48	84.00	0.18	21.84	0.95	22.79	0.74	0.95	1.69		16,530.94		0.66		16,544.90
Unmitigated	9.56	17.48	84.00	0.18	21.84	0.95	22.79	0.74	0.95	1.69		16,530.94		0.66		16,544.90
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	14.36	14.36	14.36	40,974	40,974
Condo/Townhouse	505.47	548.97	465.45	1,685,161	1,685,161
Single Family Housing	1,349.37	1,421.28	1236.57	4,474,722	4,474,722
Total	1,869.20	1,984.61	1,716.38	6,200,858	6,200,858

4.3 Trip Type Information

	Miles			Trip %		
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
City Park	8.90	13.30	7.40	33.00	48.00	19.00
Condo/Townhouse	12.70	7.00	9.50	40.20	19.20	40.60
Single Family Housing	12.70	7.00	9.50	40.20	19.20	40.60

5.0 Energy Detail

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.24	2.07	0.88	0.01		0.00	0.17		0.00	0.17		2,640.22		0.05	0.05	2,656.29
NaturalGas Unmitigated	0.24	2.07	0.88	0.01		0.00	0.17		0.00	0.17		2,640.22		0.05	0.05	2,656.29
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	lb/day										lb/day					
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Condo/Townhouse	6106.99	0.07	0.56	0.24	0.00		0.00	0.05		0.00	0.05		718.47		0.01	0.01	722.84
Single Family Housing	16334.9	0.18	1.51	0.64	0.01		0.00	0.12		0.00	0.12		1,921.75		0.04	0.04	1,933.45
Total		**0.25**	**2.07**	**0.88**	**0.01**		**0.00**	**0.17**		**0.00**	**0.17**		**2,640.22**		**0.05**	**0.05**	**2,656.29**

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	lb/day										lb/day					
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Condo/Townhouse	6.10699	0.07	0.56	0.24	0.00		0.00	0.05		0.00	0.05		718.47		0.01	0.01	722.84
Single Family Housing	16.3349	0.18	1.51	0.64	0.01		0.00	0.12		0.00	0.12		1,921.75		0.04	0.04	1,933.45
Total		**0.25**	**2.07**	**0.88**	**0.01**		**0.00**	**0.17**		**0.00**	**0.17**		**2,640.22**		**0.05**	**0.05**	**2,656.29**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	32.34	1.34	94.70	0.18		0.00	12.16		0.00	12.16		4,138.28		6.40	0.10	5,912.21
Unmitigated	32.34	1.34	94.70	0.18		0.00	12.16		0.00	12.16		4,138.28		6.40	0.10	5,912.21
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	0.73					0.00	0.00		0.00	0.00						0.00
Consumer Products	6.75					0.00	0.00		0.00	0.00						0.00
Hearth	24.27	1.11	75.47	0.18		0.00	12.06		0.00	12.05		4,104.00		6.37	0.10	5,877.21
Landscaping	0.60	0.22	19.23	0.00		0.00	0.10		0.00	0.10		34.28		0.03		35.00
Total	**32.35**	**1.33**	**94.70**	**0.18**		**0.00**	**12.16**		**0.00**	**12.15**		**4,138.28**		**6.40**	**0.10**	**5,912.21**

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	0.73					0.00	0.00		0.00	0.00						0.00
Consumer Products	6.75					0.00	0.00		0.00	0.00						0.00
Hearth	24.27	1.11	75.47	0.18		0.00	12.06		0.00	12.05		4,104.00		6.37	0.10	5,877.21
Landscaping	0.60	0.22	19.23	0.00		0.00	0.10		0.00	0.10		34.28		0.03		35.00
Total	**32.35**	**1.33**	**94.70**	**0.18**		**0.00**	**12.16**		**0.00**	**12.15**		**4,138.28**		**6.40**	**0.10**	**5,912.21**

Newport Banning Ranch Ph 2 operations

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
Other Asphalt Surfaces	7.26	Acre
City Park	20	Acre
Hotel	75	Room
Condo/Townhouse	68	Dwelling Unit
Condo/Townhouse High Rise	365	Dwelling Unit
Single Family Housing	102	Dwelling Unit
Regional Shopping Center	37.5	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	Southern California Edison
Climate Zone	8		2.2		
		Precipitation Freq (Days)			

1.3 User Entered Comments

30

Project Characteristics - This file only for Phase 2 operations; all construction data not relevant.

Land Use - Lot acreages and population from project description and Section 4.7

Construction Phase - Construction data not relevant

Off-road Equipment - no construction

Off-road Equipment - Equipment from project plan

Trips and VMT - No construction

Grading - Export and acreage of disturbance from project description

Vehicle Trips - Weekday trip rates from traffic analysis. Sat and Sun rates from default ratios.

Woodstoves - No wood stoves or wood fireplaces. Gas FP in all SF and 90% of condo/townhouse.

Energy Use -

Water And Wastewater - Water use from project WSA; res grouping may vary but all H2O included.

Solid Waste - Solid waste generation rates from project study; substantially higher than defaults.
Landfill gas data for Bowerman landfill from OCWaste.

Construction Off-road Equipment Mitigation - Approximately 50-50, Tier 3 and Tier 4 const. equip.

Mobile Land Use Mitigation - Density=763 du/100 ac; 103 du below market rate

Architectural Coating - No coating

Area Mitigation -

Energy Mitigation - Exceed Title 24 by 5% per PDF

Water Mitigation -

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational - Winter

	ROG	NOx	CO	SO2	Fugitive 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	19.62	0.52	44.86	0.00		0.00	0.87		0.00	0.86		9,890.44		0.27	0.18	9,951.79
Energy	0.57	4.96	2.55	0.03		0.00	0.40		0.00	0.40		6,246.37		0.12	0.11	6,284.38
Mobile	30.52	51.11	250.85	0.64	76.85	3.20	80.05	1.06	2.80	3.86		52,846.77		1.97		52,888.16
Total	**50.71**	**56.59**	**298.26**	**0.67**	**76.85**	**3.20**	**81.32**	**1.06**	**2.80**	**5.12**		**68,983.58**		**2.36**	**0.29**	**69,124.33**

Mitigated Operational - Winter

	ROG	NOx	CO	SO2	Fugitive 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	19.62	0.52	44.86	0.00		0.00	0.87		0.00	0.86		9,890.44		0.27	0.18	9,951.79
Energy	0.55	4.74	2.44	0.03		0.00	0.38		0.00	0.38		5,977.09		0.11	0.11	6,013.46
Mobile	28.21	46.62	229.49	0.58	68.47	2.87	71.34	0.95	2.51	3.46		47,229.95		1.78		47,267.29
Total	**48.38**	**51.88**	**276.79**	**0.61**	**68.47**	**2.87**	**72.59**	**0.95**	**2.51**	**4.70**		**63,097.48**		**2.16**	**0.29**	**63,232.54**

Highlight indicates higher of winter or summer

Mitigated Operational - Summer

	ROG	NOx	CO	SO2	Fugitive 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	19.62	0.52	44.86	0.00		0.00	0.87		0.00	0.86		9,890.44		0.27	0.18	9,951.79
Energy	0.55	4.74	2.44	0.03		0.00	0.38		0.00	0.38		5,977.09		0.11	0.11	6,013.46
Mobile	26.20	42.78	232.21	0.61	68.47	2.86	71.33	0.95	2.50	3.45		49,995.02		2.06		50,038.33
Total	**46.37**	**48.04**	**279.51**	**0.64**	**68.47**	**2.86**	**72.58**	**0.95**	**2.50**	**4.69**		**65,862.55**		**2.44**	**0.29**	**66,003.58**

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Integrate Below Market Rate Housing

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive 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	28.21	46.62	229.49	0.58	68.47	2.87	71.34	0.95	2.51	3.46		47,229.95		1.78		47,267.29
Unmitigated	30.52	51.11	250.85	0.64	76.85	3.20	80.05	1.06	2.80	3.86		52,846.77		1.97		52,888.16
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	382.20	382.20	382.20	1,090,249	971,412
Condo/Townhouse	395.08	429.08	363.80	1,317,138	1,173,570
Condo/Townhouse High Rise	2,120.65	2,303.15	1952.75	7,069,929	6,299,307
Hotel	367.50	368.25	267.75	983,784	876,552
Other Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	2,816.25	3,277.50	1655.25	7,122,084	6,345,777
Single Family Housing	976.14	1,028.16	894.54	3,237,033	2,884,196
Total	7,057.82	7,788.34	5,516.29	20,820,218	18,550,814

4.3 Trip Type Information

	Miles			Trip %		
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
City Park	8.90	13.30	7.40	33.00	48.00	19.00
Condo/Townhouse	12.70	7.00	9.50	40.20	19.20	40.60
Condo/Townhouse High Rise	12.70	7.00	9.50	40.20	19.20	40.60
Hotel	8.90	13.30	7.40	19.40	61.60	19.00
Other Asphalt Surfaces	8.90	13.30	7.40	0.00	0.00	0.00
Regional Shopping Center	8.90	13.30	7.40	16.30	64.70	19.00
Single Family Housing	12.70	7.00	9.50	40.20	19.20	40.60

5.0 Energy Detail

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive 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	0.55	4.74	2.44	0.03		0.00	0.38		0.00	0.38		5,977.09		0.11	0.11	6,013.46
NaturalGas Unmitigated	0.57	4.96	2.55	0.03		0.00	0.40		0.00	0.40		6,246.37		0.12	0.11	6,284.38
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	lb/day										lb/day					
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Condo/Townhouse	4773.28	0.05	0.44	0.19	0.00		0.00	0.04		0.00	0.04		561.56		0.01	0.01	564.98
Condo/Townhouse High Rise	25621.3	0.28	2.36	1.00	0.02		0.00	0.19		0.00	0.19		3,014.27		0.06	0.06	3,032.61
Hotel	10672.2	0.12	1.05	0.88	0.01		0.00	0.08		0.00	0.08		1,255.55		0.02	0.02	1,263.19
Other Asphalt Surfaces	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Regional Shopping Center	210.616	0.00	0.02	0.02	0.00		0.00	0.00		0.00	0.00		24.78		0.00	0.00	24.93
Single Family Housing	11816.7	0.13	1.09	0.46	0.01		0.00	0.09		0.00	0.09		1,390.20		0.03	0.03	1,398.66
Total		**0.58**	**4.96**	**2.55**	**0.04**		**0.00**	**0.40**		**0.00**	**0.40**		**6,246.36**		**0.12**	**0.12**	**6,284.37**

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	lb/day										lb/day					
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Condo/Townhouse	4.56614	0.05	0.42	0.18	0.00		0.00	0.03		0.00	0.03		537.19		0.01	0.01	540.46
Condo/Townhouse High Rise	24.5094	0.26	2.26	0.96	0.01		0.00	0.18		0.00	0.18		2,883.46		0.06	0.05	2,901.01
Hotel	10.2154	0.11	1.00	0.84	0.01		0.00	0.08		0.00	0.08		1,201.81		0.02	0.02	1,209.13
Other Asphalt Surfaces	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Regional Shopping Center	0.205479	0.00	0.02	0.02	0.00		0.00	0.00		0.00	0.00		24.17		0.00	0.00	24.32
Single Family Housing	11.3088	0.12	1.04	0.44	0.01		0.00	0.08		0.00	0.08		1,330.45		0.03	0.02	1,338.54
Total		**0.54**	**4.74**	**2.44**	**0.03**		**0.00**	**0.37**		**0.00**	**0.37**		**5,977.08**		**0.12**	**0.10**	**6,013.46**

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

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive 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	19.62	0.52	44.86	0.00		0.00	0.87		0.00	0.86		9,890.44		0.27	0.18	9,951.79
Unmitigated	19.62	0.52	44.86	0.00		0.00	0.87		0.00	0.86		9,890.44		0.27	0.18	9,951.79
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	2.25					0.00	0.00		0.00	0.00						0.00
Consumer Products	15.11					0.00	0.00		0.00	0.00						0.00
Hearth	0.90	0.00	0.05	0.00		0.00	0.62		0.00	0.61		9,810.00		0.19	0.18	9,869.70
Landscaping	1.36	0.52	44.81	0.00		0.00	0.25		0.00	0.25		80.44		0.08		82.09
Total	**19.62**	**0.52**	**44.86**	**0.00**		**0.00**	**0.87**		**0.00**	**0.86**		**9,890.44**		**0.27**	**0.18**	**9,951.79**

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	2.25					0.00	0.00		0.00	0.00						0.00
Consumer Products	15.11					0.00	0.00		0.00	0.00						0.00
Hearth	0.90	0.00	0.05	0.00		0.00	0.62		0.00	0.61		9,810.00		0.19	0.18	9,869.70
Landscaping	1.36	0.52	44.81	0.00		0.00	0.25		0.00	0.25		80.44		0.08		82.09
Total	**19.62**	**0.52**	**44.86**	**0.00**		**0.00**	**0.87**		**0.00**	**0.86**		**9,890.44**		**0.27**	**0.18**	**9,951.79**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

Newport Banning Ranch buildout 062411 Composite

Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric
City Park	28	Acre
Hotel	75	Room
Condo/Townhouse	222	Dwelling Unit
Condo/Townhouse High Rise	730	Dwelling Unit
Single Family Housing	423	Dwelling Unit
Regional Shopping Center	75	1000sqft

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**		**Utility Company**	Southern California Edison
Climate Zone	8		2.2		
		Precipitation Freq (Days)			

1.3 User Entered Comments

30

Project Characteristics - All operational, most const; arch coating and paving run separately.

Land Use - Lot acreages and population from project description and Section 4.7

Vehicle Trips - Weekday trip rates from traffic analysis. Sat and Sun rates from default ratios.
Soccer field and tennis court trips included in City Park
Res H/W trip and Non res C-C entries per SCAQMD.

Woodstoves - No wood stoves or wood fireplaces. Gas FP in all SF and 90% of condo/townhouse.

Energy Use -

Water And Wastewater - Water use from project WSA in EIR Section 4.15; res grouping may vary but all H2O included.

Solid Waste - Solid waste generation rates from project study; substantially higher than defaults.
Landfill gas data for Bowerman landfill from OCWaste.

Land Use Change - Data per bio resources analysis

Mobile Land Use Mitigation - 1,375 du/150 acres-conservative inclusion of 50 acres local parks
206 du below market rate

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Mobile Commute Mitigation -

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational - Winter

	ROG	NOx	CO	SO2	Fugitive 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	48.34	1.32	114.93	0.01		0.00	2.35		0.00	2.33		27,308.39		0.72	0.50	27,477.50
Energy	1.37	11.76	5.46	0.07		0.00	0.95		0.00	0.95		14,932.24		0.29	0.27	15,023.12
Mobile	203.99	124.45	598.46	1.54	178.58	7.63	186.22	2.48	6.62	9.10		122,273.29		4.74		122,372.84
Total	**253.70**	**137.53**	**718.85**	**1.62**	**178.58**	**7.63**	**189.52**	**2.48**	**6.62**	**12.38**		**164,513.92**		**5.75**	**0.77**	**164,873.46**

Mitigated Operational - Winter

	ROG	NOx	CO	SO2	Fugitive 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	48.34	1.32	114.93	0.01		0.00	2.35		0.00	2.33		27,308.39		0.72	0.50	27,477.50
Energy	1.31	11.26	5.22	0.07		0.00	0.90		0.00	0.90		14,288.29		0.27	0.26	14,375.25
Mobile	145.76	97.00	462.77	1.03	116.07	5.20	121.28	1.61	4.54	6.15		81,567.70		3.37		81,638.48
Total	**195.41**	**109.58**	**582.92**	**1.11**	**116.07**	**5.20**	**124.53**	**1.61**	**4.54**	**9.38**		**123,164.38**		**4.36**	**0.76**	**123,491.23**

Highlight indicates higher of winter or summer

Mitigated Operational - Summer

	ROG	NOx	CO	SO2	Fugitive 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	48.34	1.32	114.93	0.01		0.00	2.35		0.00	2.33		27,308.39		0.72	0.50	27,477.50
Energy	1.31	11.26	5.22	0.07		0.00	0.90		0.00	0.90		14,288.29		0.27	0.26	14,375.25
Mobile	128.50	92.99	437.99	1.08	116.07	5.17	121.25	1.61	4.50	6.11		86,210.24		3.34		86,280.39
Total	**178.15**	**105.57**	**558.14**	**1.16**	**116.07**	**5.17**	**124.50**	**1.61**	**4.50**	**9.34**		**127,806.92**		**4.33**	**0.76**	**128,133.14**

4.0 Mobile Detail

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Integrate Below Market Rate Housing

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive 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	145.76	97.00	462.77	1.03	116.07	5.20	121.28	1.61	4.54	6.15		81,567.70		3.37		81,638.48
Unmitigated	203.99	124.45	598.46	1.54	178.58	7.63	186.22	2.48	6.62	9.10		122,273.29		4.74		122,372.84
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	1,070.16	1,070.16	1070.16	1,527,518	992,837
Condo/Townhouse	2,579.64	2,801.64	2375.40	4,301,477	2,795,821
Condo/Townhouse High Rise	8,482.60	9,212.60	7811.00	14,144,495	9,193,465
Hotel	735.00	736.50	535.50	984,299	639,762
Regional Shopping Center	11,265.00	13,110.00	6621.00	14,265,920	9,272,388
Single Family Housing	8,096.22	8,527.68	7419.42	13,428,567	8,728,136
Total	32,228.62	35,458.58	25,832.48	48,652,276	31,622,409

4.3 Trip Type Information

	Miles			Trip %		
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
City Park	8.90	13.30	7.40	33.00	48.00	19.00
Condo/Townhouse	12.70	7.00	9.50	40.20	19.20	40.60
Condo/Townhouse High Rise	12.70	7.00	9.50	40.20	19.20	40.60
Hotel	8.90	13.30	7.40	19.40	61.60	19.00
Regional Shopping Center	8.90	13.30	7.40	16.30	64.70	19.00
Single Family Housing	12.70	7.00	9.50	40.20	19.20	40.60

5.0 Energy Detail

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive 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	1.31	11.26	5.22	0.07		0.00	0.90		0.00	0.90		14,288.29		0.27	0.26	14,375.25
NaturalGas Unmitigated	1.37	11.76	5.46	0.07		0.00	0.95		0.00	0.95		14,932.24		0.29	0.27	15,023.12
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	lb/day										lb/day					
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Condo/Townhouse	15583.4	0.17	1.44	0.61	0.01		0.00	0.12		0.00	0.12		1,833.34		0.04	0.03	1,844.49
Condo/Townhouse High Rise	51242.6	0.55	4.72	2.01	0.03		0.00	0.38		0.00	0.38		6,028.54		0.12	0.11	6,065.23
Hotel	10672.2	0.12	1.05	0.88	0.01		0.00	0.08		0.00	0.08		1,255.55		0.02	0.02	1,263.19
Regional Shopping Center	421.233	0.00	0.04	0.03	0.00		0.00	0.00		0.00	0.00		49.56		0.00	0.00	49.86
Single Family Housing	49004.7	0.53	4.52	1.92	0.03		0.00	0.37		0.00	0.37		5,765.26		0.11	0.11	5,800.35
Total		**1.37**	**11.77**	**5.45**	**0.08**		**0.00**	**0.95**		**0.00**	**0.95**		**14,932.25**		**0.29**	**0.27**	**15,023.12**

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	lb/day										lb/day					
City Park	0	0.00	0.00	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00
Condo/Townhouse	14.9071	0.16	1.37	0.58	0.01		0.00	0.11		0.00	0.11		1,753.78		0.03	0.03	1,764.45
Condo/Townhouse High Rise	49.0188	0.53	4.52	1.92	0.03		0.00	0.37		0.00	0.37		5,766.92		0.11	0.11	5,802.02
Hotel	10.2154	0.11	1.00	0.84	0.01		0.00	0.08		0.00	0.08		1,201.81		0.02	0.02	1,209.13
Regional Shopping Center	0.410959	0.00	0.04	0.03	0.00		0.00	0.00		0.00	0.00		48.35		0.00	0.00	48.64
Single Family Housing	46.8982	0.51	4.32	1.84	0.03		0.00	0.35		0.00	0.35		5,517.43		0.11	0.10	5,551.01
Total		**1.31**	**11.25**	**5.21**	**0.08**		**0.00**	**0.91**		**0.00**	**0.91**		**14,288.29**		**0.27**	**0.26**	**14,375.25**

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

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive 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	48.34	1.32	114.93	0.01		0.00	2.35		0.00	2.33		27,308.39		0.72	0.50	27,477.50
Unmitigated	48.34	1.32	114.93	0.01		0.00	2.35		0.00	2.33		27,308.39		0.72	0.50	27,477.50
Total	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**

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	4.84					0.00	0.00		0.00	0.00						0.00
Consumer Products	37.57					0.00	0.00		0.00	0.00						0.00
Hearth	2.48	0.00	0.14	0.00		0.00	1.72		0.00	1.70		27,101.65		0.52	0.50	27,266.58
Landscaping	3.46	1.32	114.79	0.01		0.00	0.63		0.00	0.63		206.74		0.20		210.91
Total	**48.35**	**1.32**	**114.93**	**0.01**		**0.00**	**2.35**		**0.00**	**2.33**		**27,308.39**		**0.72**	**0.50**	**27,477.49**

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	4.84					0.00	0.00		0.00	0.00						0.00
Consumer Products	37.57					0.00	0.00		0.00	0.00						0.00
Hearth	2.48	0.00	0.14	0.00		0.00	1.72		0.00	1.70		27,101.65		0.52	0.50	27,266.58
Landscaping	3.46	1.32	114.79	0.01		0.00	0.63		0.00	0.63		206.74		0.20		210.91
Total	**48.35**	**1.32**	**114.93**	**0.01**		**0.00**	**2.35**		**0.00**	**2.33**		**27,308.39**		**0.72**	**0.50**	**27,477.49**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System