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February 22, 2013

California Energy Commission
DOCKETED
12-AFC-02
TN # 69631
FEB 22 2013

VIA EMAIL

Ms. Felicia Miller, Siting Project Manager
California Energy Commission
1516 Ninth Street
Sacramento, CA 95814

Re: Huntington Beach Energy Project (12-AFC-02)
Applicant's Responses to Data Requests, Set 2A (Public Health #74-77)

Dear Ms. Miller:

On behalf of Applicant AES Southland Development, LLC, please find enclosed herewith Applicant's responses to Staff's Data Requests, Set 2. Specifically, these responses relate solely to data requests regarding Public Health (#74-77).

Should you have any questions regarding these responses, please contact Robert Mason or me directly.

Respectfully submitted,

Melissa A. Foster

MAF:jmw
Enclosure
cc: Proof of Service

73434050.1 0043653-00005

BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION OF THE STATE OF CALIFORNIA
1516 NINTH STREET, SACRAMENTO, CA 95814
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APPLICATION FOR CERTIFICATION FOR THE HUNTINGTON BEACH ENERGY PROJECT

Docket No. 12-AFC-02

PROOF OF SERVICE
(Revised 02/19/2013)

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DECLARATION OF SERVICE

I, Judith M. Warmuth, declare that on February 22, 2013, I served and filed copies of the attached Applicant's Responses to Staff's Data Requests, Set 2A (Public Health #74-77), dated February 22, 2013. This document is accompanied by the most recent Proof of Service, which I copied from the web page for this project at: http://www.energy.ca.gov/sitingcases/huntington_beach_energy/index.html.

The document has been sent to the other parties on the Service List above in the following manner:

(*Check one*)

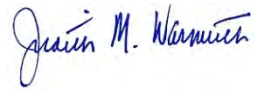
For service to all other parties and filing with the Docket Unit at the Energy Commission:

___ I e-mailed the document to all e-mail addresses on the Service List above and personally delivered it or deposited it in the US mail with first class postage to those parties noted above as "hard copy required"; **OR**

_X_ Instead of e-mailing the document, I personally delivered it or deposited it in the US mail with first class postage to all of the persons on the Service List for whom a mailing address is given.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct, and that I am over the age of 18 years.

Dated: February 22, 2013



Judith M. Warmuth

Huntington Beach Energy Project

(12-AFC-02)

Data Responses, Set 2A

(Response to Data Requests 74 to 77)

Submitted to

California Energy Commission

Prepared by

AES Southland Development, LLC

With Assistance from

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February 22, 2013

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Introduction

Attached are AES Southland Development, LLC's (AES or the Applicant) responses to the California Energy Commission (CEC) Data Requests, Set 2A (numbers 74 through 77), regarding the Huntington Beach Energy Project (HBEP) (12-AFC-02) Application for Certification (AFC). The responses are presented in the same order as the CEC presented them and are keyed to the Data Request numbers (74 through 77).

New or revised graphics or tables are numbered in reference to the Data Request number. For example, the first figure used in response to Data Request 76 would be Figure DR76-1, and so on. Figures or tables from the HBEP AFC that have been revised have "R" following the original number, indicating a revision.

Additional tables, figures, or documents submitted in response to a data request (for example, supporting data and stand-alone documents such as plans, folding graphics, etc.) are found at the end of each response and are not sequentially page-numbered consistently with the remainder of the document, though they may have their own internal page numbering system.

Public Health (74–77)

BACKGROUND

In Applicant's Data Adequacy Supplement, a screening construction health risk assessment for diesel particulate matter was conducted to assess the potential impacts associated with diesel emissions during the construction and demolition activities at HBEP. The results of the analysis are contained in the revised AFC Section 5.9, Public Health, and Appendix 5.9B. This screening health risk assessment was conducted based on the annual average emissions of diesel particulate matter (PM). The incremental increases in cancer risk were estimated by multiplying the predicted annual diesel PM concentration by the Office of Environmental Health Hazard Assessment (OEHHA) inhalation unit risk factor of 3.0E-04 $(\mu g/m^3)^{-1}$ and adjusting the predicted results to a 9-year exposure duration to more closely reflect the exposure duration associated with construction activities (OEHHA, 2003, p. 8-3). The cancer unit risk value for the assumed 9-year exposure is 3.857E-5[1] $(\mu g/m^3)^{-1}$ when interpolated from the unit risk value for a 70-year exposure. Based on applicant's analysis, the predicted incremental increases in cancer risk at the Maximally Exposed Individual Resident (MEIR) and Maximally Exposed Individual Worker (MEIW) associated with construction activities are 9.2 in a million and 3.9 in a million, respectively.

Data requests 74 and 75 were requested verbally at the Data Response Workshop held on November 14, 2012.

DATA REQUEST

74. In Table 5.9B.1, the construction period screening level risk at Point of Maximum Impact (PMI) is 41.5 in a million (listed as 4.15E+1 per million in the table). Any result greater than 10 in a million is potentially significant and needs to be evaluated further. Please explain why the applicant did not evaluate this significant result and discuss how the applicant intends to use mitigation measures to reduce the cancer risk to a level of less than significant during construction.

Response: The Applicant did not consider the Point of Maximum Impact (PMI) construction excess cancer risk impact a significant result because the areas where the excess cancer risk was predicted to be above 10 in one million occur where neither a workplace nor residence exposure is expected (as denoted by the maximum exposed worker and resident excess cancer risks being reported as less than 10 in one million). However, as discussed in the response to Data Request 75 below, the Applicant has prepared a revised construction excess cancer risk assessment.

DATA REQUEST

75. Please refine the construction period health risk assessment at PMI sufficiently to reduce impacts to less than significant or apply sufficient mitigation measures to reduce the risks to less than 10 in a million and redo the health risk assessment analysis.

Response: During the Data Response Workshop held on November 14, 2012, the CEC requested a more robust modeling analysis for 1-hour nitrogen dioxide (NO_2) with the intent of reducing NO_2 emissions during HBEP construction. In response to this request, the Applicant and its engineering contractor reviewed the construction equipment list and the construction schedule. The revised construction equipment list and schedule are presented in Attachment DR75-1. In addition, emission factors for NO_2 and diesel particulate matter (DPM) were updated to reflect the projected year of each construction activity. These modifications reduced NO_2 and DPM

[1] The cancer unit risk for a 9-year exposure was calculated using the following interpolation formula:

The cancer unit risk for a 9-year exposure = The cancer unit risk for a 70-year exposure × 9 years/70 years Adjustment Factor = $3\times10^{-4} \times 0.129 = 3.857\times10^{-5}$.

construction emissions, but also affected construction emissions for the other criteria pollutants and greenhouse gases evaluated.[2]

Beyond the revisions to the construction emissions, the modeling methodology was also updated in response to the CEC's Data Response Workshop request, specifically as it relates to characterization of emission sources. In the AFC, the construction impact analysis characterized construction equipment exhaust emissions as elevated volume sources. As part of the revised construction impact analysis, hourly exhaust emissions, calculated by dividing the maximum monthly exhaust emissions by the hours worked per month, were modeled as point sources spaced approximately 20 meters (m) apart over the construction areas. The construction equipment exhausts were assumed to be horizontal stack releases. The horizontal release type is an American Meteorological Society/U.S. Environmental Protection Agency (EPA) Regulatory Model (AERMOD) beta option (i.e., non-regulatory default option), which negates mechanical plume rise; this conservative approach was used because it is unknown whether the construction equipment will have vertically oriented exhaust stacks. Stack release parameters were selected based on data for typical construction equipment, which consist of a stack release temperature of 533 degrees Kelvin (K; 500 degrees Fahrenheit [°F]), a stack diameter of 0.127 m (5 inches), and a release height of 4.6 m (15 feet).

The emissions of air toxics associated with the construction of HBEP and the demolition of the existing Huntington Beach Generating Station Units 1, 2, and 5 and the Unit 3 and 4 stack consist primarily of combustion byproducts generated during movement of onsite construction/demolition equipment and onsite and offsite movement (vehicular miles traveled) of vehicles associated with the construction and demolition activities for the project. Onsite demolition activities will include the removal of the Unit 5 peaker equipment, the buildings and small tanks associated with Unit 5, and a fuel oil storage tank. Although demolition of existing Huntington Beach Generating Station Units 3 and 4 is not part of the HBEP project definition, demolition of the Units 3 and 4 stack (included in this analysis at the request of CEC staff) will occur during removal of Unit 5. Demolition of Units 1 and 2 will also include an organized, top down, dismantling of the existing boiler units, generators, and stacks. The existing foundation for Units 1 and 2 will remain largely intact at the conclusion of the demolition activities and a majority of the demolition debris will be transported to an offsite location where the materials can be recycled.

The primary air toxic pollutant of concern from construction activities is DPM. The total DPM exhaust emissions from construction activities were averaged over the 7.5-year construction period and spatially distributed in: i) the area associated with the demolition of the Unit 5 peaker equipment and Units 3 and 4 stack and construction of Block 1, ii) the area associated with the construction of Block 2, and iii) the area associated with the demolition of Units 1 and 2 and the construction of buildings 33 and 34. Using the revised DPM exhaust emissions from construction activities, a construction health risk assessment (HRA) was performed using the Air Resources Board (ARB) *Hotspots Analysis Reporting Program* (HARP, Version 1.4f), along with the ARB HARP On-ramp program (Version 1.0). The HARP On-ramp tool was used to import the AERMOD air dispersion modeling results into the HARP Risk Module.

The construction HRA was performed for a shorter exposure duration and different receptor locations. The HARP model limits short-term, continuous residential exposure to 9 years. Therefore, for conservative results, the average annual emissions, calculated as previously described, were assumed to occur each year for 9 years of continuous exposure. Because the primary air toxic pollutant of concern for construction activities is DPM, the cancer risks were evaluated based on annual air toxics ground-level concentrations and inhalation cancer potency. To account for variations in breathing rates, the cancer risks were conservatively estimated using a 9-year continuous residential and sensitive receptor exposure breathing rate, the average of which is equal to 452 liters per kilogram per day (L/kg/day) and higher than the average breathing rate of 271 L/kg/day (OEHHA, 2003).[3] The

[2] Revised construction criteria pollutant emissions and impacts will be provided in a separate filing in response to the November 14, 2012 Data Response Workshop requests.

[3] Note that using the child breathing rate may be overly conservative for many receptor locations because the 9-year cancer risk for a child assumes continuous exposure (i.e., 24 hours-per-day, 7 day-week) during the first 9 years of life, which would not be representative of non-MEIR or sensitive receptor locations.

Office of Environmental Health Hazard Assessment (OEHHA) Derived methodology was used to determine the residential and sensitive receptor exposure cancer risk. An adjusted 9-year, 5-days-per-week, 10 hours-per-day, exposure duration was used for commercial/industrial receptors. Chronic toxicity was also considered using the average annual emissions, calculated as previously described. For purposes of determining the potential offsite DPM concentrations during construction, receptors were not included in the area within the existing Huntington Beach Generating Station fence line. No receptors were included within the Huntington Beach Generating Station fence line because public access is restricted, development of the former bulk liquid storage tanks and secondary containment structures is not expected to be completed prior to the construction of the HBEP, and as a result, no individuals are expected to be routinely working or living in this area during construction of the HBEP.

Based on the analysis, the predicted incremental increases in cancer risk at the PMI, Maximally Exposed Individual Resident (MEIR) and Maximally Exposed Individual Worker (MEIW) associated with construction activities are 16.5, 7.5, and 9.9 in one million, respectively.[4] The predicted chronic health index at the PMI, MEIR, and MEIW are 0.042, 0.019, and 0.14, respectively. The HARP report files have been separately prepared and are included with this submission on compact disc. Although the PMI excess cancer risk is greater than 10 in one million, the elevated risk only occurs in areas where public access is controlled (i.e., within the AES-controlled fence line) or in areas that are not considered residential, commercial, or habitable, as presented in Figure DR76-1. Additionally, potential exposure would be sporadic and limited in length. The predicted incremental increase in cancer risk at the MEIR and MEIW and chronic health index at the PMI, MEIR, and MEIW are less than the California Environmental Quality Act (CEQA) significance thresholds of 10 in one million and 1.0, respectively. Therefore, impacts associated with the finite construction activities are less than significant.

To best capture the revised construction emissions and modeling methodology contributing to the lower cancer risks, AFC Appendix 5.1AR, Construction Emission Calculations, has been revised and is included herewith as Attachment DA75-1. Additionally, the AFC Tables 5.1C.8R and 5.1C.9R from Appendix 5.1C, Dispersion Modeling and Climate Information, have been revised and are included herewith as Tables DR75-1 through DR75-5. Information supporting Table DR75-3 is included here as Attachment DA75-2.

[4] Note that the PMI and MEIR values represent the cancer risk for a child breathing rate. The adult breathing rate led to lower cancer risks at the same locations.

TABLE DR75-1

Construction Source Parameters for AERMOD Input: Area Poly Sources

Source ID	Base Elevation (m)	Release Height (m)	Number of Vertices	Vertical Dimension (m)	Easting (X1) (m)	Northing (Y1) (m)	Easting (X2) (m)	Northing (Y2) (m)	Easting (X3) (m)	Northing (Y3) (m)	Easting (X4) (m)	Northing (Y4) (m)	Easting (X5) (m)	Northing (Y5) (m)	Easting (X6) (m)	Northing (Y6) (m)	Easting (X7) (m)	Northing (Y7) (m)	Easting (X8) (m)	Northing (Y8) (m)	Easting (X9) (m)	Northing (Y9) (m)
FUGE	3.7	1.0	9	0.93	409452	3723309	409563	3723310	409565	3723115	409537	3723136	409449	3723089	409315	3723180	409358	3723245	409372	3723242	409453	3723187
FUGS	3.7	1.0	4	0.93	409199	3723086	409281	3723203	409449	3723089	409304	3723012										

TABLE DR75-2

Construction Source Parameters for AERMOD Input: Area Sources

Source ID	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Release Height (m)	Easterly Length (m)	Northerly Length (m)	Angle from North	Vertical Dimension (m)
FUGW	409066	3723183	3.7	1.0	165	215	35	0.93

TABLE DR75-3

Construction Source Parameters for AERMOD Input: Point Sources *

Source ID	Release Type (Beta)	Base Elevation (m)	Stack Height (m)	Temperature (K)	Exit Velocity (m/s)	Stack Diameter (m)
E (1-70)	Horizontal	3.7	4.6	533.00	18.00	0.127
W (1-72)	Horizontal	3.7	4.6	533.00	18.00	0.127
S (1-46)	Horizontal	3.7	4.6	533.00	18.00	0.127

* A complete list of exhaust point source locations and parameters can be found in Attachment DR75-2.

TABLE DR75-4

Emission Rates for 1-hour, 3-hour, 8-hour, and 24-hour Modeling *

	1-hour NO_2		1-hour CO		8-hour CO		1-hour SO_2		3-hour SO_2		24-hour SO_2		24-hour PM_{10}		24-hour $PM_{2.5}$	
Source ID	(g/s)	(lb/hr)	(g/s)	(lb/hr)	(g/s)	(lb/hr)	(g/s)	(lb/hr)	(g/s)	(lb/hr)	(g/s)	(lb/hr)	(g/s)	(lb/hr)	(g/s)	(lb/hr)
FUGE	—	—	—	—	—	—	—	—	—	—	—	—	0.039	0.31	0.004	0.031
FUGW	—	—	—	—	—	—	—	—	—	—	—	—	0.34	2.70	0.074	0.59
FUGS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
E (1-70)	0.24	1.90	0.17	1.33	0.168	1.33	4.9E-04	3.9E-03	4.9E-04	3.9E-03	2.1E-04	1.6E-03	0.0045	0.035	0.0044	0.035
W (1-72)	0.70	5.52	0.70	5.57	0.702	5.57	1.3E-03	1.0E-02	1.3E-03	1.0E-02	5.4E-04	4.2E-03	0.018	0.14	0.018	0.14
S (1-46)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

* Emission rates for exhaust point sources (E, W, and S source groups) are presented as the sum total for all sources in the respective group.

TABLE DR75-5

Emission Rates for Annual Modeling *

	Annual NO_2		Annual PM_{10}		Annual $PM_{2.5}$	
Source ID	(g/s)	(lb/hr)	(g/s)	(lb/hr)	(g/s)	(lb/hr)
FUGE	—	—	—	—	0.020	0.16
FUGW	—	—	—	—	—	—
FUGS	—	—	0.21	1.67	—	—
E (1-70)	0.24	1.88	—	—	6.1E-04	4.8E-03
W (1-72)	—	—	—	—	—	—
S (1-46)	—	—	0.0073	0.058	—	-—

* Emission rates for exhaust point sources (E, W, and S source groups) are presented as the sum total for all sources in the respective group.

DATA REQUEST

76. If the results of any health risk assessment results in a health risk of greater than 10 in a million, please provide a map containing health risk isopleths, including an isopleth showing the risk value of 10 in a million.

Response: Figure DR76-1 presents an isopleth showing the DPM excess cancer risks, resulting from HBEP construction activities, which are greater than 10 in one million. As explained in the response to Data Request 75 above, this risk only occurs in areas where public access is controlled (i.e., within the AES-controlled fence line) or in areas that are not considered residential, commercial, or habitable. Additionally, potential exposure would be sporadic and limited in length. Therefore, the PMI excess cancer risk represents an overestimate of the expected public health impacts resulting from HBEP construction.

DATA REQUEST

77. The applicant conducted a simple interpolation to get the cancer unit risk for a 9-year exposure (i.e., 3.857E-5 $(\mu g/m^3)^{-1}$). However, by following the method described in the Air Resources Board's (ARB's) Hotspots Analysis Reporting Program (HARP) How-To Guide, under Topic 8: How to Perform Health Analyses Using a Ground-Level Concentration, Part B: Performing a Stochastic Risk Analysis for a Single Receptor Without A Dispersion Analysis, staff obtained a higher cancer unit risk than the value reported by the applicant, resulting in higher predicted incremental increases in cancer risk at the maximally exposed individual residence (MEIR) and above the significance level. Staff believes it is more reasonable to use the methodology following the ARB's HARP How-To Guide than the simple interpolation approach used by the applicant. Please provide a revised analysis using the ARB's HARP How-to Guide or provide evidence to justify usage of the simple interpolation method rather than the ARB's HARP method to determine the cancer unit risk for a 9-year exposure from the one for a 70-year exposure.

Response: The response to Data Request 75 provided above presents the results of the revised construction HRA using the ARB HARP model, along with the ARB HARP On-ramp program. The HARP On-ramp tool was used to import the AERMOD air dispersion modeling results into the HARP Risk Module. As noted above, the methodology used to assess the construction HRA has been revised and the results show that the construction health risks do not pose a significant public health impact. The revised HARP, HARP On-ramp, and AERMOD files for the construction HRA are also included with this submission on compact disc.

Figure DR76-1: HBEP Construction Excess Cancer Risk Assessment Results

Attachment DA75-1
Revised Appendix 5.1A, Construction Emission Calculations

APPENDIX 5.1AR

Construction Emission Estimates

(Criteria and Greenhouse Gas)

Tables 5.1A.1R through 5.1A.9R summarize the construction emissions from the demolition of the existing Peaker 5 unit and storage tank and stack 3 and 4.

Table 5.1A.1R	Onsite Construction Equipment Exhaust Emissions
Table 5.1A.2R	Onsite Motor Vehicle Exhaust Emissions
Table 5.1A.3R	Onsite Demolition Fugitive Dust Emissions
Table 5.1A.4R	Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions
Table 5.1A.5R	Equations Used to Calculate Criteria Pollutant and GHG Emissions
Table 5.1A.6R	Number of Onsite Construction Equipment and Motor Vehicles
Table 5.1A.7R	Construction Equipment Exhaust Criteria Pollutant Emission Factors
Table 5.1A.8R	Onsite and Offsite Motor Vehicle Criteria Pollutant Emission Factors
Table 5.1A.9R	Onsite and Offsite Greenhouse Gas Emission Factors

Tables 5.1A.10R through 5.1A.18R summarize the construction emissions from the construction of Block 1.

Table 5.1A.10R	Onsite Construction Equipment Exhaust Emissions
Table 5.1A.11R	Onsite Motor Vehicle Exhaust Emissions
Table 5.1A.12R	Onsite Construction Fugitive Dust Emissions
Table 5.1A.13R	Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions
Table 5.1A.14R	Equations Used to Calculate Criteria Pollutant and GHG Emissions
Table 5.1A.15R	Number of Onsite Construction Equipment and Motor Vehicles
Table 5.1A.16R	Construction Equipment Exhaust Criteria Pollutant Emission Factors
Table 5.1A.17R	Onsite and Offsite Motor Vehicle Criteria Pollutant Emission Factors
Table 5.1A.18R	Onsite and Offsite Greenhouse Gas Emission Factors

Tables 5.1A.19R through 5.1A.27R summarize the construction emissions from the construction of Block 2.

Table 5.1A.19R	Onsite Construction Equipment Exhaust Emissions
Table 5.1A.20R	Onsite Motor Vehicle Exhaust Emissions
Table 5.1A.21R	Onsite Construction Fugitive Dust Emissions
Table 5.1A.22R	Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions
Table 5.1A.23R	Equations Used to Calculate Criteria Pollutant and GHG Emissions
Table 5.1A.24R	Number of Onsite Construction Equipment and Motor Vehicles
Table 5.1A.25R	Construction Equipment Exhaust Criteria Pollutant Emission Factors
Table 5.1A.26R	Onsite and Offsite Motor Vehicle Criteria Pollutant Emission Factors
Table 5.1A.27R	Onsite and Offsite Greenhouse Gas Emission Factors

Tables 5.1A.28R through 5.1A.36R summarize the construction emissions from the demolition of existing Units 1 and 2.

Table 5.1A.28R	Onsite Construction Equipment Exhaust Emissions
Table 5.1A.29R	Onsite Motor Vehicle Exhaust Emissions
Table 5.1A.30R	Onsite Demolition Fugitive Dust Emissions
Table 5.1A.31R	Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions
Table 5.1A.32R	Equations Used to Calculate Criteria Pollutant and GHG Emissions
Table 5.1A.33R	Number of Onsite Construction Equipment and Motor Vehicles
Table 5.1A.34R	Construction Equipment Exhaust Criteria Pollutant Emission Factors
Table 5.1A.35R	Onsite and Offsite Motor Vehicle Criteria Pollutant Emission Factors
Table 5.1A.36R	Onsite and Offsite Greenhouse Gas Emission Factors

Tables 5.1A.37R through 5.1A.45R summarize the construction emissions from the construction of Buildings 33 and 34.

Table 5.1A.37R	Onsite Construction Equipment Exhaust Emissions
Table 5.1A.38R	Onsite Motor Vehicle Exhaust Emissions
Table 5.1A.39R	Onsite Construction Fugitive Dust Emissions
Table 5.1A.40R	Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions
Table 5.1A.41R	Equations Used to Calculate Criteria Pollutant and GHG Emissions
Table 5.1A.42R	Number of Onsite Construction Equipment and Motor Vehicles
Table 5.1A.43R	Construction Equipment Exhaust Criteria Pollutant Emission Factors
Table 5.1A.44R	Onsite and Offsite Motor Vehicle Criteria Pollutant Emission Factors
Table 5.1A.45R	Onsite and Offsite Greenhouse Gas Emission Factors

Tables 5.1A.46R through 5.1A.48R summarize the construction emissions from all stages of the project.

Table 5.1A.46R	Onsite Construction Exhaust and Fugitive Emissions Summary
Table 5.1A.47R	Offsite Construction Exhaust and Fugitive Emissions Summary
Table 5.1A.48R	Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Huntington Beach Energy Project
Construction Emission Estimates - Peaker and Tank Area and Stack 3 and 4 Demolition
February 2013

Table 5.1A.1R Onsite Construction Equipment Exhaust Emissions

Construction Equipment CO Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	CO Emisisons (lbs/month)														
Onsite Equipment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Water Truck	68.33	68.33	68.33	68.33	68.33	68.33	68.33	68.33	68.33	68.33	68.33	68.33	68.33	68.33	68.33
Excavator	129.94	129.94	129.94	259.88	259.88	259.88	259.88	259.88	389.83	389.83	389.83	389.83	389.83	389.83	389.83
Grader	134.53	134.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	134.53	134.53	134.53
Cranes	0.00	0.00	81.01	121.51	121.51	121.51	121.51	121.51	121.51	81.01	81.01	81.01	81.01	81.01	81.01
Tractor/Loader/Backhoe	43.98	43.98	43.98	43.98	43.98	43.98	43.98	43.98	43.98	43.98	43.98	43.98	43.98	43.98	43.98
Rubber Tired Loader	51.69	51.69	51.69	51.69	51.69	51.69	51.69	51.69	51.69	51.69	51.69	51.69	51.69	51.69	51.69
Crawler Tractor	87.75	87.75	87.75	87.75	87.75	87.75	87.75	87.75	87.75	87.75	87.75	87.75	87.75	87.75	87.75
Air Compressor	58.32	58.32	116.64	116.64	116.64	116.64	116.64	116.64	116.64	116.64	116.64	116.64	116.64	116.64	116.64
Forklift	0.00	0.00	57.07	57.07	114.13	114.13	114.13	114.13	114.13	114.13	114.13	57.07	57.07	57.07	57.07
Roller	64.33	64.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.33	64.33	64.33	64.33
Onsite Total (lbs/month)	**638.86**	**638.86**	**636.40**	**806.84**	**863.91**	**863.91**	**863.91**	**863.91**	**993.85**	**953.34**	**953.34**	**960.61**	**1,095.14**	**1,095.14**	**1,095.14**
Onsite Total (lbs/day) [a]	**27.78**	**27.78**	**27.67**	**35.08**	**37.56**	**37.56**	**37.56**	**37.56**	**43.21**	**41.45**	**41.45**	**41.77**	**47.61**	**47.61**	**47.61**
Onsite Total (tons/year)	**5.70**														

Construction Equipment VOC Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	VOC Emisisons (lbs/month)														
Onsite Equipment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Water Truck	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46	22.46
Excavator	20.52	20.52	20.52	41.04	41.04	41.04	41.04	41.04	61.56	61.56	61.56	61.56	61.56	61.56	61.56
Grader	23.85	23.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.85	23.85	23.85
Cranes	0.00	0.00	27.59	41.39	41.39	41.39	41.39	41.39	41.39	27.59	27.59	27.59	27.59	27.59	27.59
Tractor/Loader/Backhoe	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28	7.28
Rubber Tired Loader	10.55	10.55	10.55	10.55	10.55	10.55	10.55	10.55	10.55	10.55	10.55	10.55	10.55	10.55	10.55
Crawler Tractor	21.01	21.01	21.01	21.01	21.01	21.01	21.01	21.01	21.01	21.01	21.01	21.01	21.01	21.01	21.01
Air Compressor	12.47	12.47	24.94	24.94	24.94	24.94	24.94	24.94	24.94	24.94	24.94	24.94	24.94	24.94	24.94
Forklift	0.00	0.00	8.28	8.28	16.56	16.56	16.56	16.56	16.56	16.56	16.56	8.28	8.28	8.28	8.28
Roller	13.77	13.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.77	13.77	13.77	13.77
Onsite Total (lbs/month)	**131.92**	**131.92**	**142.63**	**176.95**	**185.22**	**185.22**	**185.22**	**185.22**	**205.74**	**191.95**	**191.95**	**197.44**	**221.29**	**221.29**	**221.29**
Onsite Total (lbs/day) [a]	**5.74**	**5.74**	**6.20**	**7.69**	**8.05**	**8.05**	**8.05**	**8.05**	**8.95**	**8.35**	**8.35**	**8.58**	**9.62**	**9.62**	**9.62**
Onsite Total (tons/year)	**1.18**														

Construction Equipment NOx Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	NOx Emissions (lbs/month)														
Onsite Equipment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Water Truck	162.75	162.75	162.75	162.75	162.75	162.75	162.75	162.75	162.75	143.87	143.87	143.87	143.87	143.87	143.87
Excavator	144.68	144.68	144.68	289.35	289.35	289.35	289.35	289.35	434.03	384.50	384.50	384.50	384.50	384.50	384.50
Grader	175.25	175.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	158.54	158.54	158.54
Cranes	0.00	0.00	247.44	371.16	371.16	371.16	371.16	371.16	371.16	225.10	225.10	225.10	225.10	225.10	225.10
Tractor/Loader/Backhoe	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	48.91	44.57	44.57	44.57	44.57	44.57	44.57
Rubber Tired Loader	66.05	66.05	66.05	66.05	66.05	66.05	66.05	66.05	66.05	61.02	61.02	61.02	61.02	61.02	61.02
Crawler Tractor	125.28	125.28	125.28	125.28	125.28	125.28	125.28	125.28	125.28	117.26	117.26	117.26	117.26	117.26	117.26
Air Compressor	78.82	78.82	157.64	157.64	157.64	157.64	157.64	157.64	157.64	145.49	145.49	145.49	145.49	145.49	145.49
Forklift	0.00	0.00	58.75	58.75	117.50	117.50	117.50	117.50	117.50	104.10	104.10	52.05	52.05	52.05	52.05
Roller	88.42	88.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.23	82.23	82.23	82.23
Onsite Total (lbs/month)	**890.17**	**890.17**	**1,011.50**	**1,279.90**	**1,338.65**	**1,338.65**	**1,338.65**	**1,338.65**	**1,483.32**	**1,225.90**	**1,225.90**	**1,256.08**	**1,414.62**	**1,414.62**	**1,414.62**
Onsite Total (lbs/day) [a]	**38.70**	**38.70**	**43.98**	**55.65**	**58.20**	**58.20**	**58.20**	**58.20**	**64.49**	**53.30**	**53.30**	**54.61**	**61.51**	**61.51**	**61.51**
Onsite Total (tons/year)	**8.03**														

Table 5.1A.1R Onsite Construction Equipment Exhaust Emissions

Construction Equipment SOx Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	SOx Emissions (lbs/month)														
Onsite Equipment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Water Truck	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Excavator	0.23	0.23	0.23	0.46	0.46	0.46	0.46	0.46	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Grader	0.24	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.24	0.24
Cranes	0.00	0.00	0.35	0.53	0.53	0.53	0.53	0.53	0.53	0.35	0.35	0.35	0.35	0.35	0.35
Tractor/Loader/Backhoe	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Rubber Tired Loader	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Crawler Tractor	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Air Compressor	0.09	0.09	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Forklift	0.00	0.00	0.10	0.10	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.10	0.10	0.10	0.10
Roller	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.10	0.10
Onsite Total (lbs/month)	**1.21**	**1.21**	**1.42**	**1.83**	**1.93**	**1.93**	**1.93**	**1.93**	**2.16**	**1.98**	**1.98**	**1.98**	**2.22**	**2.22**	**2.22**
Onsite Total (lbs/day) [a]	**0.05**	**0.05**	**0.06**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.09**	**0.09**	**0.09**	**0.09**	**0.10**	**0.10**	**0.10**
Onsite Total (tons/year)	**0.01**														

Construction Equipment PM_{10} Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	PM_{10} Emissions (lbs/month)														
Onsite Equipment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Water Truck	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.12	5.12	5.12	5.12	5.12	5.12
Excavator	7.87	7.87	7.87	15.74	15.74	15.74	15.74	15.74	23.60	20.71	20.71	20.71	20.71	20.71	20.71
Grader	9.66	9.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.74	8.74	8.74
Cranes	0.00	0.00	8.55	12.82	12.82	12.82	12.82	12.82	12.82	7.72	7.72	7.72	7.72	7.72	7.72
Tractor/Loader/Backhoe	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.20	3.20	3.20	3.20	3.20	3.20
Rubber Tired Loader	5.44	5.44	5.44	5.44	5.44	5.44	5.44	5.44	5.44	4.89	4.89	4.89	4.89	4.89	4.89
Crawler Tractor	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	9.79	9.79	9.79	9.79	9.79	9.79
Air Compressor	6.77	6.77	13.55	13.55	13.55	13.55	13.55	13.55	13.55	12.06	12.06	12.06	12.06	12.06	12.06
Forklift	0.00	0.00	3.20	3.20	6.39	6.39	6.39	6.39	6.39	5.64	5.64	2.82	2.82	2.82	2.82
Roller	7.30	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.68	6.68	6.68	6.68
Onsite Total (lbs/month)	**57.17**	**57.17**	**58.73**	**70.87**	**74.06**	**74.06**	**74.06**	**74.06**	**81.93**	**69.14**	**69.14**	**72.99**	**81.73**	**81.73**	**81.73**
Onsite Total (lbs/day) [a]	**2.49**	**2.49**	**2.55**	**3.08**	**3.22**	**3.22**	**3.22**	**3.22**	**3.56**	**3.01**	**3.01**	**3.17**	**3.55**	**3.55**	**3.55**
Onsite Total (tons/year)	**0.45**														

Construction Equipment $PM_{2.5}$ Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	$PM_{2.5}$ Emissions (lbs/month)														
Onsite Equipment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Water Truck	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.78	5.12	5.12	5.12	5.12	5.12	5.12
Excavator	7.87	7.87	7.87	15.74	15.74	15.74	15.74	15.74	23.60	20.71	20.71	20.71	20.71	20.71	20.71
Grader	9.66	9.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.74	8.74	8.74
Cranes	0.00	0.00	8.55	12.82	12.82	12.82	12.82	12.82	12.82	7.72	7.72	7.72	7.72	7.72	7.72
Tractor/Loader/Backhoe	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.20	3.20	3.20	3.20	3.20	3.20
Rubber Tired Loader	5.44	5.44	5.44	5.44	5.44	5.44	5.44	5.44	5.44	4.89	4.89	4.89	4.89	4.89	4.89
Crawler Tractor	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	10.64	9.79	9.79	9.79	9.79	9.79	9.79
Air Compressor	6.77	6.77	13.55	13.55	13.55	13.55	13.55	13.55	13.55	12.06	12.06	12.06	12.06	12.06	12.06
Forklift	0.00	0.00	3.20	3.20	6.39	6.39	6.39	6.39	6.39	5.64	5.64	2.82	2.82	2.82	2.82
Roller	7.30	7.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.68	6.68	6.68	6.68
Onsite Total (lbs/month)	**57.17**	**57.17**	**58.73**	**70.87**	**74.06**	**74.06**	**74.06**	**74.06**	**81.93**	**69.14**	**69.14**	**72.99**	**81.73**	**81.73**	**81.73**
Onsite Total (lbs/day) [a]	**2.49**	**2.49**	**2.55**	**3.08**	**3.22**	**3.22**	**3.22**	**3.22**	**3.56**	**3.01**	**3.01**	**3.17**	**3.55**	**3.55**	**3.55**
Onsite Total (tons/year)	**0.45**														

Table 5.1A.1R Onsite Construction Equipment Exhaust Emissions

Construction Equipment CO_2 Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	CO_2 Emissions (metric tons/month)														
Onsite Equipment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Water Truck	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48
Excavator	10.20	10.20	10.20	20.40	20.40	20.40	20.40	20.40	30.60	30.60	30.60	30.60	30.60	30.60	30.60
Grader	10.61	10.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.61	10.61	10.61
Cranes	0.00	0.00	15.51	23.26	23.26	23.26	23.26	23.26	23.26	15.51	15.51	15.51	15.51	15.51	15.51
Tractor/Loader/Backhoe	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05
Rubber Tired Loader	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47
Crawler Tractor	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67	5.67
Air Compressor	4.04	4.04	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08
Forklift	0.00	0.00	4.49	4.49	8.98	8.98	8.98	8.98	8.98	8.98	8.98	4.49	4.49	4.49	4.49
Roller	4.44	4.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.44	4.44	4.44	4.44
Onsite Total (metric tons/month)	**55.96**	**55.96**	**64.95**	**82.90**	**87.40**	**87.40**	**87.40**	**87.40**	**97.60**	**89.84**	**89.84**	**89.79**	**100.40**	**100.40**	**100.40**
Onsite Total (metric tons/day) [a]	**2.43**	**2.43**	**2.82**	**3.60**	**3.80**	**3.80**	**3.80**	**3.80**	**4.24**	**3.91**	**3.91**	**3.90**	**4.37**	**4.37**	**4.37**
Onsite Total (metric tons/year)	**1,100.76**														

Construction Equipment N_2O Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	N_2O Emissions (metric tons/month)														
Onsite Equipment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Water Truck	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004
Excavator	0.0003	0.0003	0.0003	0.0005	0.0005	0.0005	0.0005	0.0005	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
Grader	0.0003	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0003	0.0003	0.0003
Cranes	0.0000	0.0000	0.0004	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004
Tractor/Loader/Backhoe	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Rubber Tired Loader	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Crawler Tractor	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Air Compressor	0.0001	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Forklift	0.0000	0.0000	0.0001	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001
Roller	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001	0.0001	0.0001
Onsite Total (metric tons/month)	**0.0014**	**0.0014**	**0.0017**	**0.0021**	**0.0022**	**0.0022**	**0.0022**	**0.0022**	**0.0025**	**0.0023**	**0.0023**	**0.0023**	**0.0026**	**0.0026**	**0.0026**
Onsite Total (metric tons/day) [a]	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**
Onsite Total (metric tons/year)	**0.0280**														

Construction Equipment CH_4 Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	CH_4 Emissions (metric tons/month)														
Onsite Equipment	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Water Truck	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
Excavator	0.0006	0.0006	0.0006	0.0012	0.0012	0.0012	0.0012	0.0012	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017
Grader	0.0006	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0006	0.0006	0.0006
Cranes	0.0000	0.0000	0.0009	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009
Tractor/Loader/Backhoe	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Rubber Tired Loader	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Crawler Tractor	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
Air Compressor	0.0002	0.0002	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Forklift	0.0000	0.0000	0.0003	0.0003	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0003	0.0003	0.0003	0.0003
Roller	0.0003	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0003	0.0003	0.0003	0.0003
Onsite Total (metric tons/month)	**0.0032**	**0.0032**	**0.0037**	**0.0047**	**0.0050**	**0.0050**	**0.0050**	**0.0050**	**0.0055**	**0.0051**	**0.0051**	**0.0051**	**0.0057**	**0.0057**	**0.0057**
Onsite Total (metric tons/day) [a]	**0.0001**	**0.0001**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**
Onsite Total (metric tons/year)	**0.0625**														

Notes:
[a] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls', the days per month are as follows: 23

Table 5.1A.2R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle CO Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	CO Emissions (lbs/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Onsite Stake Truck	0.05	0.05	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.05	0.05	0.05	0.05
Onsite Dump Truck	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Onsite Total (lbs/day)	**0.14**	**0.14**	**0.19**	**0.19**	**0.19**	**0.19**	**0.19**	**0.19**	**0.19**	**0.19**	**0.19**	**0.14**	**0.14**	**0.14**	**0.14**
	CO Emissions (lbs/month) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Onsite Stake Truck	1.21	1.21	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	2.42	1.21	1.21	1.21	1.21
Onsite Dump Truck	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21	1.21
Onsite Total (lbs/month)	**3.19**	**3.19**	**4.40**	**4.40**	**4.40**	**4.40**	**4.40**	**4.40**	**4.40**	**4.40**	**4.40**	**3.19**	**3.19**	**3.19**	**3.19**
Onsite Total (tons/year)	**0.02**														

Onsite Construction Vehicle VOC Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	VOC Emisisons (lbs/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Stake Truck	0.03	0.03	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.03	0.03	0.03	0.03
Onsite Dump Truck	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Onsite Total (lbs/day)	**0.064**	**0.064**	**0.095**	**0.095**	**0.095**	**0.095**	**0.095**	**0.095**	**0.095**	**0.095**	**0.095**	**0.064**	**0.064**	**0.064**	**0.064**
	VOC Emissions (lbs/month) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Onsite Stake Truck	0.71	0.71	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	0.71	0.71	0.71	0.71
Onsite Dump Truck	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Onsite Total (lbs/month)	**1.48**	**1.48**	**2.19**	**2.19**	**2.19**	**2.19**	**2.19**	**2.19**	**2.19**	**2.19**	**2.19**	**1.48**	**1.48**	**1.48**	**1.48**
Onsite Total (tons/year)	**0.01**														

Onsite Construction Vehicle SOx Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	SOx Emissions (lbs/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010
Onsite Stake Truck	0.00016	0.00016	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00016	0.00016	0.00016	0.00016
Onsite Dump Truck	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016
Onsite Total (lbs/day)	**0.00042**	**0.00042**	**0.00059**	**0.00059**	**0.00059**	**0.00059**	**0.00059**	**0.00059**	**0.00059**	**0.00059**	**0.00059**	**0.00042**	**0.00042**	**0.00042**	**0.00042**
	SOx Emissions (lbs/month) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.00223	0.00223	0.00223	0.00223	0.00223	0.00223	0.00223	0.00223	0.00223	0.00223	0.00223	0.00223	0.00223	0.00223	0.00223
Onsite Stake Truck	0.00375	0.00375	0.00750	0.00750	0.00750	0.00750	0.00750	0.00750	0.00750	0.00750	0.00750	0.00375	0.00375	0.00375	0.00375
Onsite Dump Truck	0.00375	0.00375	0.00375	0.00375	0.00375	0.00375	0.00375	0.00375	0.00375	0.00375	0.00375	0.00375	0.00375	0.00375	0.00375
Onsite Total (lbs/month)	**0.00974**	**0.00974**	**0.01349**	**0.01349**	**0.01349**	**0.01349**	**0.01349**	**0.01349**	**0.01349**	**0.01349**	**0.01349**	**0.00974**	**0.00974**	**0.00974**	**0.00974**
Onsite Total (tons/year)	**0.00008**														

Onsite Construction Vehicle NOx Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	NOx Emissions (lbs/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Onsite Stake Truck	0.093	0.093	0.187	0.187	0.187	0.187	0.187	0.187	0.187	0.16	0.16	0.08	0.08	0.08	0.08
Onsite Dump Truck	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.08	0.08	0.08	0.08	0.08	0.08
Onsite Total (lbs/day)	**0.19**	**0.19**	**0.28**	**0.28**	**0.28**	**0.28**	**0.28**	**0.28**	**0.28**	**0.25**	**0.25**	**0.17**	**0.17**	**0.17**	**0.17**
	NOx Emissions (lbs/month) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Onsite Stake Truck	2.15	2.15	4.29	4.29	4.29	4.29	4.29	4.29	4.29	3.79	3.79	1.90	1.90	1.90	1.90
Onsite Dump Truck	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	1.90	1.90	1.90	1.90	1.90	1.90
Onsite Total (lbs/month)	**4.36**	**4.36**	**6.51**	**6.51**	**6.51**	**6.51**	**6.51**	**6.51**	**6.51**	**5.75**	**5.75**	**3.86**	**3.86**	**3.86**	**3.86**
Onsite Total (tons/year)	**0.03**														

Table 5.1A.2R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle PM_{10} Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	PM_{10} Emissions (lbs/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.00	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Onsite Stake Truck	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.009	0.009	0.004	0.004	0.004	0.004
Onsite Dump Truck	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.004	0.004	0.004	0.004	0.004	0.004
Onsite Total (lbs/day)	**0.01**	**0.01**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**
	PM_{10} Emissions (lbs/month) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Onsite Stake Truck	0.12	0.12	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.20	0.20	0.10	0.10	0.10	0.10
Onsite Dump Truck	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.10	0.10	0.10	0.10	0.10	0.10
Onsite Total (lbs/month)	**0.27**	**0.27**	**0.39**	**0.39**	**0.39**	**0.39**	**0.39**	**0.39**	**0.39**	**0.33**	**0.33**	**0.23**	**0.23**	**0.23**	**0.23**
Onsite Total (tons/year)	**0.00**														

Onsite Construction Vehicle $PM_{2.5}$ Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	$PM_{2.5}$ Emissions (lbs/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Stake Truck	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00
Onsite Dump Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.01**	**0.01**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**
	$PM_{2.5}$ Emissions (lbs/month) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Onsite Stake Truck	0.11	0.11	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.18	0.18	0.09	0.09	0.09	0.09
Onsite Dump Truck	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.09	0.09	0.09	0.09	0.09	0.09
Onsite Total (lbs/month)	**0.24**	**0.24**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.29**	**0.29**	**0.20**	**0.20**	**0.20**	**0.20**
Onsite Total (tons/year)	**0.00**														

Onsite Construction Vehicle CO_2 Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	CO_2 Emissions (metric tons/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Stake Truck	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
Onsite Dump Truck	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Onsite Total (metric tons/day)	**0.02**	**0.02**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.02**	**0.02**	**0.02**	**0.02**
	CO_2 Emissions (metric tons/month) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Onsite Stake Truck	0.18	0.18	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.18	0.18	0.18	0.18
Onsite Dump Truck	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Onsite Total (metric tons/month)	**0.47**	**0.47**	**0.65**	**0.65**	**0.65**	**0.65**	**0.65**	**0.65**	**0.65**	**0.65**	**0.65**	**0.47**	**0.47**	**0.47**	**0.47**
Onsite Total (metric tons/year)	**7.22**														

Onsite Construction Vehicle N_2O Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	N_2O Emissions (metric tons/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026
Onsite Stake Truck	0.000000010	0.000000010	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000010	0.000000010	0.000000010	0.000000010
Onsite Dump Truck	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010
Onsite Total (metric tons/day)	**0.000000046**	**0.000000046**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000046**	**0.000000046**	**0.000000046**	**0.000000046**
	N_2O Emissions (metric tons/month) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061
Onsite Stake Truck	0.00000022	0.00000022	0.00000044	0.00000044	0.00000044	0.00000044	0.00000044	0.00000044	0.00000044	0.00000044	0.00000044	0.00000022	0.00000022	0.00000022	0.00000022
Onsite Dump Truck	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022
Onsite Total (metric tons/month)	**0.0000010**	**0.0000010**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000010**	**0.0000010**	**0.0000010**	**0.0000010**
Onsite Total (metric tons/year)	**0.000015**														

Table 5.1A.2R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle CH_4 Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	CH_4 Emissions (metric tons/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007
Onsite Stake Truck	0.00000001	0.00000001	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002	0.00000001	0.00000001	0.00000001	0.00000001
Onsite Dump Truck	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001	0.00000001
Onsite Total (metric tons/day)	**0.00000009**	**0.00000009**	**0.00000010**	**0.00000010**	**0.00000010**	**0.00000010**	**0.00000010**	**0.00000010**	**0.00000010**	**0.00000010**	**0.00000010**	**0.00000009**	**0.00000009**	**0.00000009**	**0.00000009**
	CH_4 Emissions (metric tons/month) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.00000150	0.00000150	0.00000150	0.00000150	0.00000150	0.00000150	0.00000150	0.00000150	0.00000150	0.00000150	0.00000150	0.00000150	0.00000150	0.00000150	0.00000150
Onsite Stake Truck	0.00000023	0.00000023	0.00000047	0.00000047	0.00000047	0.00000047	0.00000047	0.00000047	0.00000047	0.00000047	0.00000047	0.00000023	0.00000023	0.00000023	0.00000023
Onsite Dump Truck	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023
Onsite Total (metric tons/month)	**0.0000020**	**0.0000020**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000020**	**0.0000020**	**0.0000020**	**0.0000020**
Onsite Total (metric tons/year)	**0.000026**														

Notes:

[a] The days per month are per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls', as presented on the 'Onsite Fugitive Dust' tab.

Table 5.1A.3R Onsite Demolition Fugitive Dust Emissions

Demolition Activity Levels for Peaker and Tank Area and Stack 3 & 4 Demolition

	Monthly Activity Levels														
Source	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Debris Generated from Mechanical Dismemberment (tons) [a]	321.33	321.33	321.33	321.33	321.33	321.33	321.33	321.33	321.33	321.33	321.33	321.33	321.33	321.33	321.33

[a] Debris generated from Table 5.14-3, Wastes Generated during Demolition of Peaker and Tank Area. Concrete quantities for Stack 3&4 Demolition also included (Table 5.14-3 Units 3 & 4). Only materials generated from demolition that may generate fugitive dust were included. The monthly quantities were determined as follows:

Scrap Materials	8,000	lbs/week	which equals	16.00	tons/month
Scrap Metals	2,000	tons	which equals	133.33	tons/month
Concrete	2,350	tons	which equals	156.67	tons/month
Asphalt	30	tons	which equals	2.00	tons/month
Asbestos Waste	200	tons	which equals	13.33	tons/month

The above calculations are based on the following assumptions:

Demolition will last	15	months
The construction schedule allows for	4	weeks/month

Onsite Construction Vehicle Fugitive PM_{10} Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	Fugitive PM_{10} Emissions (lbs/day) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26
Onsite Stake Truck	2.13	2.13	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	2.13	2.13	2.13	2.13
Onsite Dump Truck	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13
Onsite Total (lbs/day)	**8.53**	**8.53**	**10.66**	**10.66**	**10.66**	**10.66**	**10.66**	**10.66**	**10.66**	**10.66**	**10.66**	**8.53**	**8.53**	**8.53**	**8.53**
	Fugitive PM_{10} Emissions (lbs/month)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05
Onsite Stake Truck	49.03	49.03	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	49.03	49.03	49.03	49.03
Onsite Dump Truck	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03
Onsite Total (lbs/month)	**196.11**	**196.11**	**245.14**	**245.14**	**245.14**	**245.14**	**245.14**	**245.14**	**245.14**	**245.14**	**245.14**	**196.11**	**196.11**	**196.11**	**196.11**
Onsite Total (tons/year)	**1.40**														

Notes:
[a] Emissions based on highest (controlled) unpaved road emission factor for PM_{10}.

Onsite Construction Vehicle Fugitive $PM_{2.5}$ Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Onsite Stake Truck	0.21	0.21	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.21	0.21	0.21	0.21
Onsite Dump Truck	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Onsite Total (lbs/day)	**0.85**	**0.85**	**1.07**	**1.07**	**1.07**	**1.07**	**1.07**	**1.07**	**1.07**	**1.07**	**1.07**	**0.85**	**0.85**	**0.85**	**0.85**
	Fugitive $PM_{2.5}$ Emissions (lbs/month)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Onsite Pick-up Truck	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81
Onsite Stake Truck	4.90	4.90	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	4.90	4.90	4.90	4.90
Onsite Dump Truck	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90
Onsite Total (lbs/month)	**19.61**	**19.61**	**24.51**	**24.51**	**24.51**	**24.51**	**24.51**	**24.51**	**24.51**	**24.51**	**24.51**	**19.61**	**19.61**	**19.61**	**19.61**
Onsite Total (tons/year)	**0.14**														

Notes:
[a] Emissions based on the highest (controlled) unpaved road emission factor for $PM_{2.5}$.

Onsite Demolition Fugitive PM_{10} Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	Fugitive PM_{10} Emissions (lbs/day) [a]														
Demolition Activity	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Dismemberment	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40
Debris Loading [b]	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Onsite Total (lbs/day)	**3.68**	**3.68**	**3.68**	**3.68**	**3.68**	**3.68**	**3.68**	**3.68**	**3.68**	**3.68**	**3.68**	**3.68**	**3.68**	**3.68**	**3.68**
	Fugitive PM_{10} Emissions (lbs/month) [a]														
Demolition Activity	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Dismemberment	78.10	78.10	78.10	78.10	78.10	78.10	78.10	78.10	78.10	78.10	78.10	78.10	78.10	78.10	78.10
Debris Loading [b]	6.52	6.52	6.52	6.52	6.52	6.52	6.52	6.52	6.52	6.52	6.52	6.52	6.52	6.52	6.52
Onsite Total (lbs/month)	**84.63**	**84.63**	**84.63**	**84.63**	**84.63**	**84.63**	**84.63**	**84.63**	**84.63**	**84.63**	**84.63**	**84.63**	**84.63**	**84.63**	**84.63**
Onsite Total (tons/year)	**0.51**														

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Assume that all debris generated per month from dismemberment is loaded in the same month that it is generated.

Table 5.1A.3R Onsite Demolition Fugitive Dust Emissions

Onsite Demolition Fugitive $PM_{2.5}$ Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a]														
Demolition Activity	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Dismemberment	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
Debris Loading [b]	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Onsite Total (lbs/day)	**0.56**	**0.56**	**0.56**	**0.56**	**0.56**	**0.56**	**0.56**	**0.56**	**0.56**	**0.56**	**0.56**	**0.56**	**0.56**	**0.56**	**0.56**
	Fugitive $PM_{2.5}$ Emissions (lbs/month) [a]														
Demolition Activity	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Dismemberment	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83
Debris Loading [b]	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Onsite Total (lbs/month)	**12.81**	**12.81**	**12.81**	**12.81**	**12.81**	**12.81**	**12.81**	**12.81**	**12.81**	**12.81**	**12.81**	**12.81**	**12.81**	**12.81**	**12.81**
Onsite Total (tons/year)	**0.08**														

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Assume that all debris generated per month from dismemberment is loaded in the same month that it is generated.

Onsite Construction Vehicle Activity for Peaker and Tank Area and Stack 3 & 4 Demolition

Vehicle Type	Miles/Day [a]	Working Days per Month [b]
Onsite Pick-up Truck	2	23
Onsite Stake Truck	2	23
Onsite Dump Truck	1	23

Notes:
[a] Estimated based on dimensions of the project site.
[b] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Fugitive Dust Emission Factors for Unpaved Roads

Vehicles on Unpaved Surfaces at Industrial Sites

Parameter	PM_{10}	$PM_{2.5}$
Mean Vehicle Weight [a]	16.5	16.5
Silt Content [b]	8.5	8.5
k [c]	1.5	0.15
a [c]	0.9	0.9
b [c]	0.45	0.45
Emission Factor (Uncontrolled, lbs/mile) [d]	2.37	0.24
Reduction from Watering Twice/Day [e]	55%	55%
Emission Factor (Controlled, lbs/mile)	1.07	0.11

Notes:
[a] Mean vehicle weight assumes that medium/heavy duty trucks weigh 16.5 tons.
[b] Silt content taken from Table 13.2.2-1 of Section 13.2.2 of AP-42 for a Construction Site, Scraper Route; this value is consistent with the CalEEMod defaults.
[c] k, a, and b taken from Table 13.2.2-2 of Section 13.2.2 of AP-42 for industrial roads.
[d] Emission factor calculated using the following equation from Section 13.2.2 of AP-42: Emission Factor (lbs/mile) = {k (lbs/mile) x [Silt Content (%) / 12]a x [Mean Vehicle Weight (tons) / 3]b
[e] Control efficiency taken from Table XI-D of the SCAQMD CEQA Handbook for Travel Over Unpaved Roads; this value is consistent with the CalEEMod defaults.

Fugitive Dust Emission Factors for Dismemberment

Dismemberment and Collapse of Structures

Parameter	PM_{10}	$PM_{2.5}$
k [a]	0.35	0.053
U [b]	2.2	2.2
M [c]	2%	2%
Emission Factor (lbs/ton) [d]	0.243	0.037

Notes:
[a] k, the particle size multiplier, taken from Section 13.2.4.3 of AP-42 per Section 4.4 of Appendix A of the CalEEMod User's Guide.
[b] U, the mean wind speed, taken as the CalEEMod default for the South Coast Air Basin.
[c] M, the material moisture content, taken from Section 4.4 of Appendix A of the CalEEMod User's Guide.
[d] Emission factor calculated using the following equation from Section 13.2.4.3 of AP-42 per Section 4.4 of Appendix A of the CalEEMod User's Guide:

Emission Factor (lbs/ton) = k x 0.0032 x $[U (m/s) / 5]^{1.3}$ x $[M (\%) / 2]^{1.4}$

Fugitive Dust Emission Factors for Debris Loading

Loading of Debris/Building Waste

Parameter	PM_{10}	$PM_{2.5}$
k [a]	0.35	0.053
EF_{L-TSP} [b]	0.058	0.058
Emission Factor (lbs/ton) [c]	0.020	0.003

Notes:
[a] k taken from Section 13.2.4.3 of AP-42 per Section 4.4 of Appendix A of the CalEEMod User's Guide.
[b] EF_{L-TSP} taken from Section 4.4 of Appendix A of the CalEEMod User's Guide.
[c] Emission factor calculated using the following equation from Section 4.4 of Appendix A of the CalEEMod User's Guide:

Emission Factor (lbs/ton) = k x EF_{L-TSP} (lbs/ton)

Table 5.1A.4R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle Usage During Peaker and Tank Area and Stack 3 & 4 Demolition

Vehicle Type	Number per Day														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Offsite Delivery Trucks [a]	0.00	0.00	0.00	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Material Hauling Trucks [b]	0.25	0.50	0.50	0.00	1.00	1.13	6.13	6.13	6.13	6.13	6.13	6.13	6.13	0.63	0.63
Waste Hauling Trucks [c]	0.00	0.00	0.00	0.00	1.25	1.25	1.50	1.75	1.75	2.00	2.25	2.50	2.25	1.25	1.25
Construction Worker Commute [d]	0.00	10.00	12.00	25.00	33.00	37.00	43.00	46.00	51.00	49.00	44.00	23.00	20.00	18.00	12.00

Notes:

[a] Offsite Delivery Trucks include trucks transporting "Consumables & Supplies", as provided in 'Huntington Beach Truck Deliveries 032112.xls'.

[b] Material Hauling Trucks include trucks transporting "Fill Material", "Contractor Mobilization", "Contractor Demobilization", and "Demo Equipment", as provided in 'Huntington Beach Truck Deliveries 032112.xls'.

[c] Waste Hauling Trucks include trucks transporting "Mechanical Equipment", "Electrical Equip. & Mtrls", "Concrete and Rebar", "Steel/Architectural", and "Piping, Supports, & Valves", as provided in 'Huntington Beach Truck Deliveries 032112.xls'.

[d] Assumed 1 commute per 1 worker; number of workers taken from 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Offsite Vehicle CO Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

Vehicle Type	CO Emissions (lbs/day)														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Offsite Delivery Trucks	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Material Hauling Trucks	0.04	0.08	0.08	0.00	0.16	0.18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.10	0.10
Waste Hauling Trucks	0.00	0.00	0.00	0.00	0.31	0.31	0.37	0.43	0.43	0.49	0.55	0.61	0.55	0.31	0.31
Construction Worker Commute	0.00	0.74	0.88	1.84	2.43	2.73	3.17	3.39	3.76	3.61	3.24	1.69	1.47	1.33	0.88
Offsite Total (lbs/day)	**0.04**	**0.82**	**0.97**	**1.86**	**2.92**	**3.24**	**4.55**	**4.84**	**5.20**	**5.12**	**4.81**	**3.33**	**3.04**	**1.75**	**1.31**
Vehicle Type	**CO Emissions (lbs/month)**														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Offsite Delivery Trucks	0.00	0.00	0.00	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46
Material Hauling Trucks	0.94	1.88	1.88	0.00	3.75	4.22	22.98	22.98	22.98	22.98	22.98	22.98	22.98	2.34	2.34
Waste Hauling Trucks	0.00	0.00	0.00	0.00	7.03	7.03	8.44	9.85	9.85	11.25	12.66	14.07	12.66	7.03	7.03
Construction Worker Commute	0.00	16.95	20.34	42.37	55.92	62.70	72.87	77.95	86.42	83.04	74.56	38.98	33.89	30.50	20.34
Offsite Total (lbs/month)	**0.94**	**18.82**	**22.21**	**42.82**	**67.17**	**74.41**	**104.74**	**111.23**	**119.71**	**117.72**	**110.66**	**76.48**	**69.99**	**40.34**	**30.17**
Offsite Total (tons/year)	**0.48**														

Offsite Vehicle VOC Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

Vehicle Type	VOC Emissions (lbs/day)														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Offsite Delivery Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Material Hauling Trucks	0.01	0.01	0.01	0.00	0.03	0.03	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.02	0.02
Waste Hauling Trucks	0.00	0.00	0.00	0.00	0.05	0.05	0.06	0.07	0.07	0.08	0.09	0.10	0.09	0.05	0.05
Construction Worker Commute	0.00	0.02	0.02	0.04	0.05	0.06	0.07	0.07	0.08	0.08	0.07	0.04	0.03	0.03	0.02
Offsite Total (lbs/day)	**0.01**	**0.03**	**0.03**	**0.04**	**0.14**	**0.15**	**0.30**	**0.32**	**0.33**	**0.33**	**0.34**	**0.31**	**0.30**	**0.10**	**0.09**
Vehicle Type	**VOC Emissions (lbs/month)**														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Offsite Delivery Trucks	0.00	0.00	0.00	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Material Hauling Trucks	0.16	0.32	0.32	0.00	0.64	0.72	3.92	3.92	3.92	3.92	3.92	3.92	3.92	0.40	0.40
Waste Hauling Trucks	0.00	0.00	0.00	0.00	1.20	1.20	1.44	1.68	1.68	1.92	2.16	2.40	2.16	1.20	1.20
Construction Worker Commute	0.00	0.36	0.43	0.90	1.19	1.34	1.55	1.66	1.84	1.77	1.59	0.83	0.72	0.65	0.43
Offsite Total (lbs/month)	**0.16**	**0.68**	**0.75**	**1.00**	**3.12**	**3.35**	**7.01**	**7.35**	**7.53**	**7.70**	**7.76**	**7.24**	**6.89**	**2.34**	**2.13**
Offsite Total (tons/year)	**0.03**														

Table 5.1A.4R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle SOx Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	SOx Emissions (lbs/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Material Hauling Trucks	0.000	0.001	0.001	0.000	0.001	0.002	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.001	0.001
Waste Hauling Trucks	0.000	0.000	0.000	0.000	0.003	0.003	0.003	0.004	0.004	0.004	0.005	0.005	0.005	0.003	0.003
Construction Worker Commute	0.000	0.002	0.002	0.004	0.006	0.006	0.007	0.008	0.009	0.008	0.007	0.004	0.003	0.003	0.002
Offsite Total (lbs/day)	**0.000**	**0.002**	**0.003**	**0.004**	**0.010**	**0.010**	**0.019**	**0.020**	**0.021**	**0.021**	**0.020**	**0.017**	**0.016**	**0.007**	**0.006**
	SOx Emissions (lbs/month)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.000	0.000	0.000	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Material Hauling Trucks	0.008	0.016	0.016	0.000	0.031	0.035	0.193	0.193	0.193	0.193	0.193	0.193	0.193	0.020	0.020
Waste Hauling Trucks	0.000	0.000	0.000	0.000	0.059	0.059	0.071	0.083	0.083	0.094	0.106	0.118	0.106	0.059	0.059
Construction Worker Commute	0.000	0.038	0.046	0.096	0.127	0.142	0.165	0.176	0.196	0.188	0.169	0.088	0.077	0.069	0.046
Offsite Total (lbs/month)	**0.008**	**0.054**	**0.062**	**0.099**	**0.220**	**0.239**	**0.431**	**0.455**	**0.474**	**0.478**	**0.470**	**0.402**	**0.378**	**0.151**	**0.128**
Offsite Total (tons/year)	**0.002**														

Offsite Vehicle NOx Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	NOx Emissions (lbs/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05
Material Hauling Trucks	0.13	0.25	0.25	0.00	0.51	0.57	3.11	3.11	3.11	2.75	2.75	2.75	2.75	0.28	0.28
Waste Hauling Trucks	0.00	0.00	0.00	0.00	0.95	0.95	1.14	1.33	1.33	1.35	1.51	1.68	1.51	0.84	0.84
Construction Worker Commute	0.00	0.07	0.09	0.18	0.23	0.26	0.31	0.33	0.36	0.32	0.29	0.15	0.13	0.12	0.08
Offsite Total (lbs/day)	**0.13**	**0.32**	**0.34**	**0.24**	**1.75**	**1.85**	**4.62**	**4.83**	**4.86**	**4.47**	**4.60**	**4.63**	**4.45**	**1.29**	**1.25**
	NOx Emissions (lbs/month)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.00	0.00	0.00	1.40	1.40	1.40	1.40	1.40	1.40	1.23	1.23	1.23	1.23	1.23	1.23
Material Hauling Trucks	2.92	5.84	5.84	0.00	11.67	13.13	71.50	71.50	71.50	63.23	63.23	63.23	63.23	6.45	6.45
Waste Hauling Trucks	0.00	0.00	0.00	0.00	21.89	21.89	26.27	30.64	30.64	30.97	34.84	38.71	34.84	19.36	19.36
Construction Worker Commute	0.00	1.63	1.96	4.08	5.39	6.04	7.02	7.51	8.32	7.31	6.57	3.43	2.98	2.69	1.79
Offsite Total (lbs/month)	**2.92**	**7.47**	**7.79**	**5.48**	**40.35**	**42.46**	**106.18**	**111.05**	**111.87**	**102.74**	**105.87**	**106.60**	**102.28**	**29.72**	**28.83**
Offsite Total (tons/year)	**0.45**														

Offsite Vehicle PM_{10} Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	PM_{10} Emissions (lbs/day) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Material Hauling Trucks	0.01	0.02	0.02	0.00	0.05	0.06	0.30	0.30	0.30	0.29	0.29	0.29	0.29	0.03	0.03
Waste Hauling Trucks	0.00	0.00	0.00	0.00	0.09	0.09	0.11	0.13	0.13	0.14	0.16	0.18	0.16	0.09	0.09
Construction Worker Commute	0.00	0.16	0.19	0.40	0.52	0.59	0.68	0.73	0.81	0.78	0.70	0.36	0.32	0.29	0.19
Offsite Total (lbs/day)	**0.01**	**0.18**	**0.21**	**0.40**	**0.67**	**0.74**	**1.10**	**1.16**	**1.24**	**1.21**	**1.15**	**0.84**	**0.77**	**0.41**	**0.31**
	PM_{10} Emissions (lbs/month) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.00	0.00	0.00	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11
Material Hauling Trucks	0.28	0.56	0.56	0.00	1.13	1.27	6.90	6.90	6.90	6.66	6.66	6.66	6.66	0.68	0.68
Waste Hauling Trucks	0.00	0.00	0.00	0.00	2.11	2.11	2.53	2.96	2.96	3.26	3.67	4.08	3.67	2.04	2.04
Construction Worker Commute	0.00	3.65	4.38	9.12	12.03	13.49	15.68	16.78	18.60	17.87	16.05	8.39	7.29	6.56	4.38
Offsite Total (lbs/month)	**0.28**	**4.21**	**4.94**	**9.23**	**15.39**	**16.99**	**25.23**	**26.75**	**28.57**	**27.91**	**26.49**	**19.24**	**17.74**	**9.40**	**7.21**
Offsite Total (tons/year)	**0.12**														

Notes:
[a] PM_{10} Emissions include emissions from exhaust and paved roads.

Table 5.1A.4R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle $PM_{2.5}$ Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	$PM_{2.5}$ Emissions (lbs/day) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Material Hauling Trucks	0.01	0.01	0.01	0.00	0.02	0.03	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.01	0.01
Waste Hauling Trucks	0.00	0.00	0.00	0.00	0.05	0.05	0.06	0.07	0.07	0.07	0.08	0.09	0.08	0.04	0.04
Construction Worker Commute	0.00	0.04	0.05	0.11	0.15	0.16	0.19	0.20	0.22	0.22	0.20	0.10	0.09	0.08	0.05
Offsite Total (lbs/day)	**0.01**	**0.06**	**0.07**	**0.11**	**0.22**	**0.24**	**0.40**	**0.42**	**0.45**	**0.43**	**0.42**	**0.34**	**0.31**	**0.14**	**0.11**
	$PM_{2.5}$ Emissions (lbs/month) [a]														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.00	0.00	0.00	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Material Hauling Trucks	0.14	0.29	0.29	0.00	0.57	0.65	3.52	3.52	3.52	3.30	3.30	3.30	3.30	0.34	0.34
Waste Hauling Trucks	0.00	0.00	0.00	0.00	1.08	1.08	1.29	1.51	1.51	1.62	1.82	2.02	1.82	1.01	1.01
Construction Worker Commute	0.00	1.01	1.22	2.54	3.35	3.75	4.36	4.67	5.17	5.00	4.49	2.35	2.04	1.84	1.22
Offsite Total (lbs/month)	**0.14**	**1.30**	**1.50**	**2.60**	**5.06**	**5.54**	**9.23**	**9.75**	**10.26**	**9.97**	**9.66**	**7.72**	**7.22**	**3.24**	**2.63**
Offsite Total (tons/year)	**0.04**														

Notes:
[a] $PM_{2.5}$ Emissions include emissions from exhaust and paved roads.

Offsite Vehicle CO_2 Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	CO_2 Emissions (metric tons/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Material Hauling Trucks	0.02	0.03	0.03	0.00	0.07	0.07	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.04	0.04
Waste Hauling Trucks	0.00	0.00	0.00	0.00	0.12	0.12	0.15	0.17	0.17	0.20	0.22	0.25	0.22	0.12	0.12
Construction Worker Commute	0.00	0.07	0.08	0.17	0.23	0.26	0.30	0.32	0.35	0.34	0.31	0.16	0.14	0.13	0.08
Offsite Total (metric tons/day)	**0.02**	**0.10**	**0.12**	**0.18**	**0.42**	**0.46**	**0.86**	**0.90**	**0.94**	**0.95**	**0.94**	**0.81**	**0.77**	**0.30**	**0.25**
	CO_2 Emissions (metric tons/month)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.00	0.00	0.00	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Material Hauling Trucks	0.38	0.75	0.75	0.00	1.51	1.70	9.24	9.24	9.24	9.24	9.24	9.24	9.24	0.94	0.94
Waste Hauling Trucks	0.00	0.00	0.00	0.00	2.83	2.83	3.40	3.96	3.96	4.53	5.09	5.66	5.09	2.83	2.83
Construction Worker Commute	0.00	1.60	1.92	4.00	5.28	5.92	6.88	7.36	8.16	7.84	7.04	3.68	3.20	2.88	1.92
Offsite Total (metric tons/month)	**0.38**	**2.35**	**2.67**	**4.15**	**9.77**	**10.59**	**19.67**	**20.71**	**21.51**	**21.76**	**21.52**	**18.73**	**17.69**	**6.80**	**5.84**
Offsite Total (metric tons/year)	**178.73**														

Offsite Vehicle N_2O Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

	N_2O Emissions (metric tons/day)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Material Hauling Trucks	0.0000000	0.0000001	0.0000001	0.0000000	0.0000002	0.0000002	0.0000012	0.0000012	0.0000012	0.0000012	0.0000012	0.0000012	0.0000012	0.0000001	0.0000001
Waste Hauling Trucks	0.0000000	0.0000000	0.0000000	0.0000000	0.0000004	0.0000004	0.0000004	0.0000005	0.0000005	0.0000006	0.0000006	0.0000007	0.0000006	0.0000004	0.0000004
Construction Worker Commute	0.0000000	0.0000008	0.0000009	0.0000019	0.0000026	0.0000029	0.0000033	0.0000036	0.0000040	0.0000038	0.0000034	0.0000018	0.0000016	0.0000014	0.0000009
Offsite Total (metric tons/day)	**0.0000000**	**0.0000009**	**0.0000010**	**0.0000020**	**0.0000031**	**0.0000035**	**0.0000050**	**0.0000053**	**0.0000057**	**0.0000056**	**0.0000053**	**0.0000037**	**0.0000034**	**0.0000019**	**0.0000014**
	N_2O Emissions (metric tons/month)														
Vehicle Type	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Material Hauling Trucks	0.000001	0.000002	0.000002	0.000000	0.000004	0.000005	0.000027	0.000027	0.000027	0.000027	0.000027	0.000027	0.000027	0.000003	0.000003
Waste Hauling Trucks	0.000000	0.000000	0.000000	0.000000	0.000008	0.000008	0.000010	0.000012	0.000012	0.000013	0.000015	0.000017	0.000015	0.000008	0.000008
Construction Worker Commute	0.000000	0.000018	0.000021	0.000045	0.000059	0.000066	0.000077	0.000082	0.000091	0.000088	0.000079	0.000041	0.000036	0.000032	0.000021
Offsite Total (metric tons/month)	**0.000001**	**0.000020**	**0.000024**	**0.000045**	**0.000072**	**0.000080**	**0.000114**	**0.000121**	**0.000130**	**0.000128**	**0.000121**	**0.000085**	**0.000078**	**0.000044**	**0.000033**
Offsite Total (metric tons/year)	**0.001052**														

Table 5.1A.4R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle CH_4 Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

Vehicle Type	CH_4 Emissions (metric tons/day)														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Offsite Delivery Trucks	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Material Hauling Trucks	0.0000001	0.0000001	0.0000001	0.0000000	0.0000002	0.0000002	0.0000012	0.0000012	0.0000012	0.0000012	0.0000012	0.0000012	0.0000012	0.0000001	0.0000001
Waste Hauling Trucks	0.0000000	0.0000000	0.0000000	0.0000000	0.0000004	0.0000004	0.0000005	0.0000005	0.0000005	0.0000006	0.0000007	0.0000008	0.0000007	0.0000004	0.0000004
Construction Worker Commute	0.0000000	0.0000037	0.0000045	0.0000093	0.0000123	0.0000138	0.0000161	0.0000172	0.0000191	0.0000183	0.0000164	0.0000086	0.0000075	0.0000067	0.0000045
Offsite Total (metric tons/day)	**0.0000001**	**0.0000038**	**0.0000046**	**0.0000094**	**0.0000129**	**0.0000145**	**0.0000178**	**0.0000190**	**0.0000209**	**0.0000202**	**0.0000184**	**0.0000106**	**0.0000094**	**0.0000073**	**0.0000050**
Vehicle Type	**CH_4 Emissions (metric tons/month)**														
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**
Offsite Delivery Trucks	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Material Hauling Trucks	0.000001	0.000002	0.000002	0.000000	0.000005	0.000005	0.000029	0.000029	0.000029	0.000029	0.000029	0.000029	0.000029	0.000003	0.000003
Waste Hauling Trucks	0.000000	0.000000	0.000000	0.000000	0.000009	0.000009	0.000011	0.000012	0.000012	0.000014	0.000016	0.000018	0.000016	0.000009	0.000009
Construction Worker Commute	0.000000	0.000086	0.000103	0.000215	0.000284	0.000318	0.000370	0.000395	0.000438	0.000421	0.000378	0.000198	0.000172	0.000155	0.000103
Offsite Total (metric tons/month)	**0.000001**	**0.000088**	**0.000105**	**0.000215**	**0.000298**	**0.000333**	**0.000409**	**0.000437**	**0.000480**	**0.000464**	**0.000423**	**0.000244**	**0.000217**	**0.000167**	**0.000115**
Offsite Total (metric tons/year)	**0.003802**														

Offsite Construction Vehicle Activity for Peaker and Tank Area and Stack 3 & 4 Demolition

Vehicle Type	Roundtrip Miles/Day [a]	Working Days per Month [b]
Offsite Delivery Trucks	14.6	23
Material Hauling Trucks	40.0	23
Waste Hauling Trucks	60.0	23
Construction Worker Commute	21.6	23

Notes:

[a] Roundtrip miles/day taken as the CalEEMod defaults for the South Coast Air Basin except for Waste Hauling Trucks, which were assumed to travel directly to the the landfill for offsite waste disposal.

[b] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Table 5.1A.5R Equations Used to Calculate Criteria Pollutant and GHG Emissions

Equations Used to Calculate Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

Emission Source	Pollutant(s)	Equation	Variables
Construction Equipment Exhaust	CO, VOC, NOx, SOx, PM_{10}, and $PM_{2.5}$	$E_m = EF * N * Hp * L * H / 453.6$	E_m = Emissions (lbs/month)
			EF = Emission factor (g/bhp-hr)
			N = Number of pieces of equipment
			Hp = Average horsepower
			L = Average load factor
			H = Hours per month
			453.6 = Conversion from g to lbs
		$E_d = E_m / D$	E_d = Emissions (lbs/day)
			E_m = Emissions (lbs/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons
	CO_2	$E_m = N * FC * EF * H * 0.001$	E_m = Emissions (metric tons/month)
			N = Number of pieces of equipment
			FC = Fuel consumption (gallons/hour)
			EF = Emission factor (kg/gallon)
			H = Hours per month
			0.001 = Conversion from kg to metric tons
		$E_d = E_m / D$	E_d = Emissions (metric tons/day)
			E_m = Emissions (metric tons/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
	CH_4 and N_2O	$E_m = N * FC * EF * H / 1{,}000 * 0.001$	E_m = Emissions (metric tons/month)
			N = Number of pieces of equipment
			FC = Fuel consumption (gallons/hour)
			EF = Emission factor (g/gallon)
			H = Hours per month
			1,000 = Conversion from g to kg
			0.001 = Conversion from kg to metric tons
		$E_d = E_m / D$	E_d = Emissions (metric tons/day)
			E_m = Emissions (metric tons/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
Onsite and Offsite Vehicle Exhaust and Paved and Unpaved Road Fugitive PM_{10} and $PM_{2.5}$	CO, VOC, NOx, SOx, PM_{10}, and $PM_{2.5}$	$E_d = N * VMT * EF / 453.6$	E_d = Emissions (lbs/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			EF = EMFAC2007 emission factor (g/mile). Paved and unpaved road fugitive PM_{10} and $PM_{2.5}$ emission factors calculated per Sections 13.2.1 and 13.2.2 of AP-42, respectively.
			453.6 = Conversion from g to lbs
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons

Table 5.1A.5R Equations Used to Calculate Criteria Pollutant and GHG Emissions

Equations Used to Calculate Emissions from Peaker and Tank Area and Stack 3 & 4 Demolition

Emission Source	Pollutant(s)	Equation	Variables
Onsite and Offsite Vehicle Exhaust	CO_2	$E_d = N * VMT / FE * EF * 0.001$	E_d = Emissions (metric tons/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			FE = Fuel economy (mpg)
			EF = Emission factor (kg/gallon)
			0.001 = Conversion from kg to metric tons
		$E_m = E_d * D$	E_m = Emissions (metric tons/month)
			E_d = Emissions (metric tons/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
	CH_4 and N_2O	$E_d = N * VMT * EF / 1{,}000 * 0.001$	E_d = Emissions (metric tons/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			EF = Emission factor (g/mile)
			1,000 = Conversion from g to kg
			0.001 = Conversion from kg to metric tons
		$E_m = E_d * D$	E_m = Emissions (metric tons/month)
			E_d = Emissions (metric tons/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
Onsite Fugitive PM_{10} and $PM_{2.5}$ from Dismemberment and Debris Loading	PM_{10} and $PM_{2.5}$	$E_d = T * EF / D$	E_d = Emissions (lbs/day)
			T = Tons of material dismembered or loaded
			EF = Fugitive PM_{10} and $PM_{2.5}$ emission factors (lbs/ton), calculated per Section 13.2.4.3 of AP-42 for dismemberment and Section 4.4 of Appendix A of the CalEEMod User's Guide for debris loading.
			D = Number of construction days per month
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons

Table 5.1A.6R Number of Onsite Construction Equipment and Motor Vehicles

Number of Onsite Equipment for Peaker and Tank Area and Stack 3 & 4 Demolition

Onsite Equipment	Number per Month [a]														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Water Truck	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Excavator	1	1	1	2	2	2	2	2	3	3	3	3	3	3	3
Grader	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1
Cranes [b]	0	0	2	3	3	3	3	3	3	2	2	2	2	2	2
Tractor/Loader/Backhoe [c]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Rubber Tired Loader [d]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Crawler Tractor [e]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Air Compressor	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2
Forklift	0	0	1	1	2	2	2	2	2	2	2	1	1	1	1
Roller [f]	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1

Notes:

[a] Equipment counts taken from 'HBEP Equipment Usage 1.21.13.xls'.

[b] Numbers presented for Cranes includes the equipment counts for the 50 Ton Hydraulic Crane and the 35 Ton Hydraulic Crane.

[c] Numbers presented for Tractor/Loader/Backhoe includes the equipment counts for the Backhoe.

[d] Numbers presented for Rubber Tired Loader includes the equipment counts for the Front End Loader.

[e] Numbers presented for Crawler Tractor includes the equipment counts for the Dozer

[f] Numbers presented for Roller includes the equipment counts for the Compactor.

Number of Onsite Motor Vehicles for Peaker and Tank Area and Stack 3 & 4 Demolition

Vehicle Type	Number per Month [a]														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Onsite Pick-up Truck	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Onsite Stake Truck	1	1	2	2	2	2	2	2	2	2	2	1	1	1	1
Onsite Dump Truck	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

Notes:

[a] Vehicle counts taken from 'HBEP Equipment Usage 1.21.13.xls'.

Table 5.1A.7R Construction Equipment Exhaust Criteria Pollutant Emission Factors

Construction Equipment Emission Factors for Peaker and Tank Area and Stack 3 & 4 Demolition

Equipment [a]	Percent Usage [b]	Hours per Month [c]	Horsepower [d]	Load Factor [d]	Emission Factors (g/bhp-hr) [e]									Fuel Consumption (gallons/hour) [f]
					CO	VOC	NO_X 2015	NO_X 2016	SO_X	PM_{10} 2015	PM_{10} 2016	$PM_{2.5}$ 2015	$PM_{2.5}$ 2016	
Water Truck [g]	50%	115	381	0.57	1.241	0.408	2.956	2.613	0.005	0.105	0.093	0.105	0.093	12.33
Excavator	85%	196	157	0.57	3.369	0.532	3.751	3.323	0.006	0.204	0.179	0.204	0.179	5.11
Grader	80%	184	162	0.61	3.356	0.595	4.372	3.955	0.006	0.241	0.218	0.241	0.218	5.65
Cranes	65%	150	208	0.43	1.374	0.468	4.197	3.818	0.006	0.145	0.131	0.145	0.131	5.08
Tractor/Loader/Backhoe	55%	127	75	0.55	3.823	0.633	4.252	3.874	0.006	0.322	0.278	0.322	0.278	2.36
Rubber Tired Loader	55%	127	87	0.54	3.945	0.805	5.041	4.657	0.006	0.415	0.373	0.415	0.373	2.69
Crawler Tractor	80%	184	82	0.64	4.122	0.987	5.885	5.508	0.006	0.500	0.460	0.500	0.460	3.02
Air Compressor	80%	184	78	0.48	3.840	0.821	5.190	4.790	0.006	0.446	0.397	0.446	0.397	2.15
Forklift	75%	173	149	0.30	3.357	0.487	3.456	3.062	0.006	0.188	0.166	0.188	0.166	2.55
Roller	70%	161	84	0.56	3.853	0.825	5.296	4.925	0.006	0.437	0.400	0.437	0.400	2.70

Notes:

[a] Assumed all equipment is fired with diesel fuel, per Section 4.2 of Appendix A of the CalEEMod User's Guide.

[b] Percent Usage assumed typical of power plant construction.

[c] Hours per month calculated based on the following schedule, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Work hours per day: 10

Work days per month: 23

[d] Construction equipment horsepower and load factor taken from Table 3.3 of Appendix D of the CalEEMod User's Guide.

[e] Construction equipment emission factors taken from Table 3.4 of Appendix D of the CalEEMod User's Guide. The emission factors for the year 2015 were used for the construction equipment exhaust emission calculations for CO, VOC, and SOx. The emission factors for year 2015 and 2016 were used for NOx, PM10, and PM2.5.

[f] Fuel consumption based on consumption in the OFFROAD2007 model for the SCAB in the year 2015; value estimated by dividing the reported consumption (gallons/day) by the reported activity (hours/day).

[g] Horsepower, load factor, and emission factors for Off-Highway Trucks were assumed representative of Water Trucks.

Table 5.1A.8R Onsite and Offsite Motor Vehicle Criteria Pollutant Emission Factors

Vehicle Emission Factors for Peaker and Tank Area and Stack 3 & 4 Demolition

Vehicle Type	Vehicle Class [a]	Exhaust Emission Factors (g/mile) [b]									Paved Road Emission Factors (g/mile) [c]		Fuel Economy (mpg) [b]
		CO	VOC	SO_X	NO_X 2015	NO_X 2016	PM_{10} 2015	PM_{10} 2016	$PM_{2.5}$ 2015	$PM_{2.5}$ 2016	PM_{10}	$PM_{2.5}$	
Onsite Pick-up Truck	Light-duty Truck	3.823	0.264	0.011	0.354	0.327	0.121	0.123	0.099	0.101	N/A	N/A	7.433
Onsite Stake Truck	Heavy-duty Diesel	11.918	7.032	0.037	21.152	18.687	1.207	1.007	1.073	0.889	N/A	N/A	2.621
Onsite Dump Truck	Heavy-duty Diesel	11.918	7.032	0.037	21.152	18.687	1.207	1.007	1.073	0.889	N/A	N/A	2.621
Offsite Delivery Trucks	Heavy-duty Diesel	2.483	0.498	0.017	7.565	6.621	0.328	0.297	0.264	0.235	0.300	0.075	5.749
Material Hauling Trucks	Heavy/Medium-duty Diesel	1.850	0.316	0.016	5.756	5.090	0.255	0.236	0.208	0.191	0.300	0.075	6.224
Waste Hauling Trucks	Heavy/Medium-duty Diesel	1.850	0.316	0.016	5.756	5.090	0.255	0.236	0.208	0.191	0.300	0.075	6.224
Construction Worker Commute	Light-duty Auto/Truck	1.547	0.033	0.004	0.149	0.136	0.033	0.033	0.018	0.018	0.300	0.075	27.278

Notes:

[a] The vehicle classes are represented as follows:

Light-duty Truck: Assumed to be an average of LDT1, All and LDT2, All values.
Heavy-duty Diesel: Assumed to be 100% HHD DSL values, as confirmed in Section 4.5 of Appendix A of the CalEEMod User's Guide.
Heavy/Medium-duty Diesel: 50% HHD DSL and 50% MHD DSL values, per Section 4.5 of Appendix A of the CalEEMod User's Guide.
Light-duty Auto/Truck: 50% LDA, All; 25% LDT1, All; and 25% LDT2, All values, per Section 4.5 of Appendix A of the CalEEMod User's Guide.

[b] Exhaust emission factors and fuel economy from EMFAC2007 for the South Coast Air Basin, calendar year 2015 for CO, VOC, and SOx. The emission factors for year 2015 and 2016 were used for NOx, PM10, and PM2.5. A speed of 5 mph was assumed for onsite vehicles; a speed of 40 mph was assumed for offsite vehicles and worker commutes, which is consistent with the CalEEMod defaults. An average temperature of 68°F and humidity of 55% were used per Table B-1 of CT-EMFAC: A Computer Model to Estimate Transportation Project Emissions.

[c] Paved road emission factors calculated using CalEEMod methodology, as described below.

Derivation of Paved Road Emission Factors

Vehicles on Paved Roads

Parameter	PM_{10}	$PM_{2.5}$
Average Weight [a]	2.4	2.4
k [b]	1.0	0.25
sL [a]	0.1	0.1
Emission Factor (g/mile) [c]	0.300	0.075

Notes:

[a] Average Weight and sL taken as the default value from CalEEMod.

[b] k taken from Table 13.2.1-1 of Section 13.2.1 of AP-42.

[c] Emission factor calculated using Equation 1 from Section 13.2.1 of AP-42:

$$\text{Emission Factor (g/mile)} = k\ (\text{g/mile}) \times [sL\ (\text{g/m}^2)]^{0.91} \times [\text{Average Weight (tons)}]^{1.02}$$

Table 5.1A.9R Onsite and Offsite Greenhouse Gas Emission Factors

Greenhouse Gas Emission Factors for Peaker and Tank Area and Stack 3 & 4 Demolition

Fuel / Category Type	Emission Factor	Emission Factor Units	Emission Factor Source
CO_2 Emission Factors			
Gasoline	8.78	kg CO_2/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.1, May 2008 as updated through January 2012.
Diesel	10.21	kg CO_2/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.1, May 2008 as updated through January 2012.
N_2O Emission Factors			
Gasoline Passenger Car Model Year 2009 [a]	0.0036	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Gasoline Light-duty Truck Model Year 2009 [a]	0.0066	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Heavy-duty Truck Model Year 1960 - 2009 [a]	0.0048	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Off-road Vehicle	0.26	g N_2O/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.7, May 2008 as updated through January 2012.
CH_4 Emission Factors			
Gasoline Passenger Car Model Year 2009 [a]	0.0173	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Gasoline Light-duty Truck Model Year 2009 [a]	0.0163	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Heavy-duty Truck Model Year 1960 - 2009 [a]	0.0051	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Off-road Vehicle	0.58	g CH_4/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.7, May 2008 as updated through January 2012.

Notes:

[a] Model Year 2009 was the most recent year of emission factors available. As a result, it was assumed representative of vehicles used for this project.

Table 5.1A.10R Onsite Construction Equipment Exhaust Emissions

Construction Equipment CO Emissions from Block 1 Construction

	CO Emisisons (lbs/month)																													
Onsite Equipment	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Water Truck	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57	66.57
Excavator	259.65	259.65	259.65	259.65	259.65	129.83	129.83	129.83	129.83	129.83	129.83	129.83	129.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	268.73	268.73	268.73	268.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	134.37	134.37
Cranes	0.00	0.00	0.00	78.65	78.65	78.65	157.30	157.30	196.62	196.62	157.30	157.30	196.62	196.62	157.30	157.30	157.30	157.30	78.65	78.65	78.65	78.65	78.65	78.65	0.00	0.00	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	43.71	0.00	0.00	0.00	0.00
Rubber Tired Loader	102.69	102.69	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	51.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	174.22	174.22	87.11	87.11	87.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	57.77	57.77	57.77	57.77	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	115.54	57.77	57.77	57.77	57.77	57.77	57.77	57.77	57.77	57.77	57.77
Forklift	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	114.30	57.15	57.15	57.15	57.15	57.15	57.15	57.15	57.15	57.15	57.15
Roller	109.48	109.48	109.48	109.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.74	54.74
Other General Industrial Equipment	91.10	91.10	91.10	91.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**1,288.23**	**1,288.23**	**1,149.78**	**1,228.42**	**816.88**	**599.95**	**678.59**	**678.59**	**717.92**	**717.92**	**678.59**	**678.59**	**717.92**	**588.09**	**548.77**	**548.77**	**548.77**	**548.77**	**470.12**	**470.12**	**355.20**	**303.85**	**303.85**	**303.85**	**225.20**	**225.20**	**181.49**	**181.49**	**370.60**	**370.60**
Onsite Total (lbs/day) [a]	**56.01**	**56.01**	**49.99**	**53.41**	**35.52**	**26.08**	**29.50**	**29.50**	**31.21**	**31.21**	**29.50**	**29.50**	**31.21**	**25.57**	**23.86**	**23.86**	**23.86**	**23.86**	**20.44**	**20.44**	**15.44**	**13.21**	**13.21**	**13.21**	**9.79**	**9.79**	**7.89**	**7.89**	**16.11**	**16.11**
Onsite Total (tons/year)	**5.26**																													

Construction Equipment VOC Emissions from Block 1 Construction

	VOC Emisisons (lbs/month)																													
Onsite Equipment	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Water Truck	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31	21.31
Excavator	37.95	37.95	37.95	37.95	37.95	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	44.66	44.66	44.66	44.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.33	22.33
Cranes	0.00	0.00	0.00	26.12	26.12	26.12	52.24	52.24	65.29	65.29	52.24	52.24	65.29	65.29	52.24	52.24	52.24	52.24	26.12	26.12	26.12	26.12	26.12	26.12	0.00	0.00	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	6.63	0.00	0.00	0.00	0.00
Rubber Tired Loader	19.52	19.52	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	9.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	39.43	39.43	19.71	19.71	19.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	11.30	11.30	11.30	11.30	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	22.60	11.30	11.30	11.30	11.30	11.30	11.30	11.30	11.30	11.30	11.30
Forklift	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	15.50	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75
Roller	21.92	21.92	21.92	21.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.96	10.96
Other General Industrial Equipment	15.75	15.75	15.75	15.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**233.97**	**233.97**	**204.49**	**230.61**	**159.58**	**120.89**	**147.01**	**147.01**	**160.07**	**160.07**	**147.01**	**147.01**	**160.07**	**141.09**	**128.03**	**128.03**	**128.03**	**128.03**	**101.91**	**101.91**	**82.86**	**73.10**	**73.10**	**73.10**	**46.98**	**46.98**	**40.36**	**40.36**	**73.65**	**73.65**
Onsite Total (lbs/day) [a]	**10.17**	**10.17**	**8.89**	**10.03**	**6.94**	**5.26**	**6.39**	**6.39**	**6.96**	**6.96**	**6.39**	**6.39**	**6.96**	**6.13**	**5.57**	**5.57**	**5.57**	**5.57**	**4.43**	**4.43**	**3.60**	**3.18**	**3.18**	**3.18**	**2.04**	**2.04**	**1.75**	**1.75**	**3.20**	**3.20**
Onsite Total (tons/year)	**1.05**																													

Construction Equipment NOx Emissions from Block 1 Construction

	NOx Emissions (lbs/month)																													
Onsite Equipment	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Water Truck	143.87	143.87	143.87	143.87	143.87	143.87	126.74	126.74	126.74	126.74	126.74	126.74	126.74	126.74	126.74	126.74	126.74	126.74	111.49	111.49	111.49	111.49	111.49	111.49	111.49	111.49	111.49	111.49	111.49	111.49
Excavator	256.34	256.34	256.34	256.34	256.34	128.17	112.93	112.93	112.93	112.93	112.93	112.93	112.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	317.08	317.08	317.08	317.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	128.72	128.72
Cranes	0.00	0.00	0.00	225.10	225.10	225.10	408.21	408.21	510.27	510.27	408.21	408.21	510.27	510.27	408.21	408.21	408.21	408.21	184.24	184.24	184.24	184.24	184.24	184.24	0.00	0.00	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	44.57	44.57	44.57	44.57	44.57	44.57	40.64	40.64	40.64	40.64	40.64	40.64	40.64	40.64	40.64	40.64	40.64	40.64	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	0.00	0.00	0.00	0.00
Rubber Tired Loader	122.03	122.03	61.02	61.02	61.02	61.02	56.36	56.36	56.36	56.36	56.36	56.36	56.36	56.36	56.36	56.36	56.36	56.36	52.08	52.08	52.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	234.51	234.51	117.26	117.26	117.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	72.75	72.75	72.75	72.75	145.49	145.49	134.01	134.01	134.01	134.01	134.01	134.01	134.01	134.01	134.01	134.01	134.01	134.01	123.02	123.02	61.51	61.51	61.51	61.51	61.51	61.51	61.51	61.51	61.51	61.51
Forklift	104.10	104.10	104.10	104.10	104.10	104.10	91.66	91.66	91.66	91.66	91.66	91.66	91.66	91.66	91.66	91.66	91.66	91.66	79.49	79.49	39.74	39.74	39.74	39.74	39.74	39.74	39.74	39.74	39.74	39.74
Roller	140.96	140.96	140.96	140.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.81	60.81
Other General Industrial Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**1,436.20**	**1,436.20**	**1,257.93**	**1,483.03**	**1,097.73**	**852.31**	**970.57**	**970.57**	**1,072.62**	**1,072.62**	**970.57**	**970.57**	**1,072.62**	**959.69**	**857.64**	**857.64**	**857.64**	**857.64**	**587.43**	**587.43**	**486.17**	**434.10**	**434.10**	**434.10**	**249.86**	**249.86**	**212.75**	**212.75**	**402.27**	**402.27**
Onsite Total (lbs/day) [a]	**62.44**	**62.44**	**54.69**	**64.48**	**47.73**	**37.06**	**42.20**	**42.20**	**46.64**	**46.64**	**42.20**	**42.20**	**46.64**	**41.73**	**37.29**	**37.29**	**37.29**	**37.29**	**25.54**	**25.54**	**21.14**	**18.87**	**18.87**	**18.87**	**10.86**	**10.86**	**9.25**	**9.25**	**17.49**	**17.49**
Onsite Total (tons/year)	**6.80**																													

Construction Equipment SOx Emissions from Block 1 Construction

	SOx Emissions (lbs/month)																													
Onsite Equipment	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Water Truck	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Excavator	0.46	0.46	0.46	0.46	0.46	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	0.48	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.24
Cranes	0.00	0.00	0.00	0.35	0.35	0.35	0.71	0.71	0.88	0.88	0.71	0.71	0.88	0.88	0.71	0.71	0.71	0.71	0.35	0.35	0.35	0.35	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.00	0.00	0.00	0.00
Rubber Tired Loader	0.16	0.16	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	0.26	0.26	0.13	0.13	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	0.09	0.09	0.09	0.09	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Forklift	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Roller	0.17	0.17	0.17	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09
Other General Industrial Equipment	0.16	0.16	0.16	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**2.33**	**2.33**	**2.12**	**2.48**	**1.75**	**1.39**	**1.75**	**1.75**	**1.92**	**1.92**	**1.75**	**1.75**	**1.92**	**1.69**	**1.52**	**1.52**	**1.52**	**1.52**	**1.16**	**1.16**	**0.97**	**0.89**	**0.89**	**0.89**	**0.54**	**0.54**	**0.47**	**0.47**	**0.79**	**0.79**
Onsite Total (lbs/day) [a]	**0.10**	**0.10**	**0.09**	**0.11**	**0.08**	**0.06**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.05**	**0.05**	**0.04**	**0.04**	**0.04**	**0.04**	**0.02**	**0.02**	**0.02**	**0.02**	**0.03**	**0.03**
Onsite Total (tons/year)	**0.01**																													

Table 5.1A.10R Onsite Construction Equipment Exhaust Emissions

Construction Equipment PM_{10} Emissions from Block 1 Construction

	PM_{10} Emissions (lbs/month)																													
Onsite Equipment	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Water Truck	5.12	5.12	5.12	5.12	5.12	5.12	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
Excavator	13.81	13.81	13.81	13.81	13.81	6.90	5.98	5.98	5.98	5.98	5.98	5.98	5.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	17.48	17.48	17.48	17.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.06	7.06
Cranes	0.00	0.00	0.00	7.72	7.72	7.72	13.91	13.91	17.39	17.39	13.91	13.91	17.39	17.39	13.91	13.91	13.91	13.91	6.31	6.31	6.31	6.31	6.31	6.31	0.00	0.00	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	3.20	3.20	3.20	3.20	3.20	3.20	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	0.00	0.00	0.00	0.00
Rubber Tired Loader	9.77	9.77	4.89	4.89	4.89	4.89	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	3.88	3.88	3.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	19.59	19.59	9.79	9.79	9.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	6.03	6.03	6.03	6.03	12.06	12.06	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	9.23	9.23	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62
Forklift	5.64	5.64	5.64	5.64	5.64	5.64	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.22	4.22	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11
Roller	11.45	11.45	11.45	11.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.69	4.69
Other General Industrial Equipment	6.27	6.27	6.27	6.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**98.36**	**98.36**	**83.68**	**91.40**	**62.23**	**45.54**	**47.06**	**47.06**	**50.54**	**50.54**	**47.06**	**47.06**	**50.54**	**44.56**	**41.08**	**41.08**	**41.08**	**41.08**	**29.97**	**29.97**	**23.24**	**19.36**	**19.36**	**19.36**	**13.06**	**13.06**	**10.74**	**10.74**	**22.49**	**22.49**
Onsite Total (lbs/day) [a]	**4.28**	**4.28**	**3.64**	**3.97**	**2.71**	**1.98**	**2.05**	**2.05**	**2.20**	**2.20**	**2.05**	**2.05**	**2.20**	**1.94**	**1.79**	**1.79**	**1.79**	**1.79**	**1.30**	**1.30**	**1.01**	**0.84**	**0.84**	**0.84**	**0.57**	**0.57**	**0.47**	**0.47**	**0.98**	**0.98**
Onsite Total (tons/year)	**0.38**																													

Construction Equipment $PM_{2.5}$ Emissions from Block 1 Construction

	$PM_{2.5}$ Emissions (lbs/month)																													
Onsite Equipment	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Water Truck	5.12	5.12	5.12	5.12	5.12	5.12	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.51	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
Excavator	13.81	13.81	13.81	13.81	13.81	6.90	5.98	5.98	5.98	5.98	5.98	5.98	5.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	17.48	17.48	17.48	17.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.06	7.06
Cranes	0.00	0.00	0.00	7.72	7.72	7.72	13.91	13.91	17.39	17.39	13.91	13.91	17.39	17.39	13.91	13.91	13.91	13.91	6.31	6.31	6.31	6.31	6.31	6.31	0.00	0.00	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	3.20	3.20	3.20	3.20	3.20	3.20	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.73	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	0.00	0.00	0.00	0.00
Rubber Tired Loader	9.77	9.77	4.89	4.89	4.89	4.89	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	3.88	3.88	3.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	19.59	19.59	9.79	9.79	9.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	6.03	6.03	6.03	6.03	12.06	12.06	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	10.63	9.23	9.23	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62	4.62
Forklift	5.64	5.64	5.64	5.64	5.64	5.64	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.93	4.22	4.22	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11	2.11
Roller	11.45	11.45	11.45	11.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.69	4.69
Other General Industrial Equipment	6.27	6.27	6.27	6.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**98.36**	**98.36**	**83.68**	**91.40**	**62.23**	**45.54**	**47.06**	**47.06**	**50.54**	**50.54**	**47.06**	**47.06**	**50.54**	**44.56**	**41.08**	**41.08**	**41.08**	**41.08**	**29.97**	**29.97**	**23.24**	**19.36**	**19.36**	**19.36**	**13.06**	**13.06**	**10.74**	**10.74**	**22.49**	**22.49**
Onsite Total (lbs/day) [a]	**4.28**	**4.28**	**3.64**	**3.97**	**2.71**	**1.98**	**2.05**	**2.05**	**2.20**	**2.20**	**2.05**	**2.05**	**2.20**	**1.94**	**1.79**	**1.79**	**1.79**	**1.79**	**1.30**	**1.30**	**1.01**	**0.84**	**0.84**	**0.84**	**0.57**	**0.57**	**0.47**	**0.47**	**0.98**	**0.98**
Onsite Total (tons/year)	**0.38**																													

Construction Equipment CO_2 Emissions from Block 1 Construction

	CO_2 Emissions (metric tons/month)																													
Onsite Equipment	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Water Truck	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48	14.48
Excavator	20.40	20.40	20.40	20.40	20.40	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	21.23	21.23	21.23	21.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.61	10.61
Cranes	0.00	0.00	0.00	15.51	15.51	15.51	31.02	31.02	38.77	38.77	31.02	31.02	38.77	38.77	31.02	31.02	31.02	31.02	15.51	15.51	15.51	15.51	15.51	15.51	0.00	0.00	0.00	0.00	0.00	0.00
Tractor/Loader/Backhoe	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	0.00	0.00	0.00	0.00
Rubber Tired Loader	6.95	6.95	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	11.31	11.31	5.65	5.65	5.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	4.04	4.04	4.04	4.04	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04
Forklift	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49
Roller	7.61	7.61	7.61	7.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.80	3.80
Other General Industrial Equipment	7.18	7.18	7.18	7.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (metric tons/month)	**105.22**	**105.22**	**96.10**	**111.60**	**79.62**	**63.77**	**79.28**	**79.28**	**87.03**	**87.03**	**79.28**	**79.28**	**87.03**	**76.83**	**69.08**	**69.08**	**69.08**	**69.08**	**53.57**	**53.57**	**45.04**	**41.56**	**41.56**	**41.56**	**26.06**	**26.06**	**23.01**	**23.01**	**37.43**	**37.43**
Onsite Total (metric tons/day) [a]	**4.57**	**4.57**	**4.18**	**4.85**	**3.46**	**2.77**	**3.45**	**3.45**	**3.78**	**3.78**	**3.45**	**3.45**	**3.78**	**3.34**	**3.00**	**3.00**	**3.00**	**3.00**	**2.33**	**2.33**	**1.96**	**1.81**	**1.81**	**1.81**	**1.13**	**1.13**	**1.00**	**1.00**	**1.63**	**1.63**
Onsite Total (metric tons/year)	**1052.71**																													

Construction Equipment N_2O Emissions from Block 1 Construction

	N_2O Emissions (metric tons/month)																													
Onsite Equipment	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Water Truck	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004
Excavator	0.0005	0.0005	0.0005	0.0005	0.0005	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Grader	0.0005	0.0005	0.0005	0.0005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0003	0.0003
Cranes	0.0000	0.0000	0.0000	0.0004	0.0004	0.0004	0.0008	0.0008	0.0010	0.0010	0.0008	0.0008	0.0010	0.0010	0.0008	0.0008	0.0008	0.0008	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Tractor/Loader/Backhoe	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000
Rubber Tired Loader	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Crawler Tractor	0.0003	0.0003	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Air Compressor	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Forklift	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Roller	0.0002	0.0002	0.0002	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001
Other General Industrial Equipment	0.0002	0.0002	0.0002	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Onsite Total (metric tons/month)	**0.0027**	**0.0027**	**0.0024**	**0.0028**	**0.0020**	**0.0016**	**0.0020**	**0.0020**	**0.0022**	**0.0022**	**0.0020**	**0.0020**	**0.0022**	**0.0020**	**0.0018**	**0.0018**	**0.0018**	**0.0018**	**0.0014**	**0.0014**	**0.0011**	**0.0011**	**0.0011**	**0.0011**	**0.0007**	**0.0007**	**0.0006**	**0.0006**	**0.0010**	**0.0010**
Onsite Total (metric tons/day) [a]	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**
Onsite Total (metric tons/year)	**0.03**																													

Table 5.1A.10R Onsite Construction Equipment Exhaust Emissions

Construction Equipment CH_4 Emissions from Block 1 Construction

	CH_4 Emissions (metric tons/month)																													
Onsite Equipment	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Water Truck	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
Excavator	0.0012	0.0012	0.0012	0.0012	0.0012	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Grader	0.0012	0.0012	0.0012	0.0012	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0006	0.0006
Cranes	0.0000	0.0000	0.0000	0.0009	0.0009	0.0009	0.0018	0.0018	0.0022	0.0022	0.0018	0.0018	0.0022	0.0022	0.0018	0.0018	0.0018	0.0018	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Tractor/Loader/Backhoe	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0000	0.0000	0.0000	0.0000
Rubber Tired Loader	0.0004	0.0004	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Crawler Tractor	0.0006	0.0006	0.0003	0.0003	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Air Compressor	0.0002	0.0002	0.0002	0.0002	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Forklift	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
Roller	0.0004	0.0004	0.0004	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002	0.0002
Other General Industrial Equipment	0.0004	0.0004	0.0004	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Onsite Total (metric tons/month)	**0.0060**	**0.0060**	**0.0055**	**0.0063**	**0.0045**	**0.0036**	**0.0045**	**0.0045**	**0.0049**	**0.0049**	**0.0045**	**0.0045**	**0.0049**	**0.0044**	**0.0039**	**0.0039**	**0.0039**	**0.0039**	**0.0030**	**0.0030**	**0.0026**	**0.0024**	**0.0024**	**0.0024**	**0.0015**	**0.0015**	**0.0013**	**0.0013**	**0.0021**	**0.0021**
Onsite Total (metric tons/day) [a]	**0.0003**	**0.0003**	**0.0002**	**0.0003**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**
Onsite Total (metric tons/year)	**0.06**																													

Notes:
[a] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls', the days per month are as fo 23

Table 5.1A.11R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle CO Emissions from Block 1 Construction

	CO Emissions (lbs/day)																											
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Onsite Stake Truck	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Onsite Dump Truck	0.05	0.05	0.05	0.05	0.05	0.05	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.17**	**0.15**	**0.15**	**0.15**	**0.15**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**

	CO Emissions (lbs/month) [a]																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71
Onsite Stake Truck	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	2.19	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09
Onsite Dump Truck	1.09	1.09	1.09	1.09	1.09	1.09	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.99**	**3.45**	**3.45**	**3.45**	**3.45**	**2.35**	**2.35**	**2.35**	**2.35**	**2.35**	**2.35**	**2.35**	**2.35**	**2.35**	**2.35**	**2.35**	**2.35**	**2.35**	**2.35**	**1.81**	**1.81**	**1.81**	**1.81**	**1.81**	**1.81**
Onsite Total (tons/year)	**0.02**																													

Onsite Construction Vehicle VOC Emissions from Block 1 Construction

	VOC Emisisons (lbs/day)																											
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Stake Truck	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Onsite Dump Truck	0.03	0.03	0.03	0.03	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.085**	**0.085**	**0.085**	**0.085**	**0.085**	**0.085**	**0.071**	**0.071**	**0.071**	**0.071**	**0.044**	**0.044**	**0.044**	**0.044**	**0.044**	**0.044**	**0.044**	**0.044**	**0.044**	**0.044**	**0.044**	**0.044**	**0.044**	**0.044**	**0.030**	**0.030**	**0.030**	**0.030**	**0.030**	**0.030**

	VOC Emissions (lbs/month) [a]																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Onsite Stake Truck	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
Onsite Dump Truck	0.64	0.64	0.64	0.64	0.64	0.64	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**1.96**	**1.96**	**1.96**	**1.96**	**1.96**	**1.96**	**1.64**	**1.64**	**1.64**	**1.64**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	**0.68**	**0.68**	**0.68**	**0.68**	**0.68**	**0.68**
Onsite Total (tons/year)	**0.01**																													

Onsite Construction Vehicle SOx Emissions from Block 1 Construction

	SOx Emissions (lbs/day)																											
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010
Onsite Stake Truck	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016
Onsite Dump Truck	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Onsite Total (lbs/day)	**0.00059**	**0.00059**	**0.00059**	**0.00059**	**0.00059**	**0.00059**	**0.00050**	**0.00050**	**0.00050**	**0.00050**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00026**	**0.00026**	**0.00026**	**0.00026**	**0.00026**	**0.00026**

	SOx Emissions (lbs/month) [a]																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022
Onsite Stake Truck	0.0075	0.0075	0.0075	0.0075	0.0075	0.0075	0.0075	0.0075	0.0075	0.0075	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038
Onsite Dump Truck	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Onsite Total (lbs/month)	**0.0135**	**0.0135**	**0.0135**	**0.0135**	**0.0135**	**0.0135**	**0.0116**	**0.0116**	**0.0116**	**0.0116**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0060**	**0.0060**	**0.0060**	**0.0060**	**0.0060**	**0.0060**
Onsite Total (tons/year)	**0.00**																													

Onsite Construction Vehicle NOx Emissions from Block 1 Construction

	NOx Emissions (lbs/day)																											
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Onsite Stake Truck	0.165	0.165	0.165	0.165	0.165	0.165	0.147	0.147	0.147	0.147	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066
Onsite Dump Truck	0.082	0.082	0.082	0.082	0.082	0.082	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.033	0.033	0.033	0.033	0.033	0.033	0.000	0.000	0.000	0.000	0.000	0.000
Onsite Total (lbs/day)	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.25**	**0.19**	**0.19**	**0.19**	**0.19**	**0.11**	**0.11**	**0.11**	**0.11**	**0.11**	**0.11**	**0.11**	**0.11**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**

	NOx Emissions (lbs/month) [a]																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Onsite Stake Truck	3.79	3.79	3.79	3.79	3.79	3.79	3.38	3.38	3.38	3.38	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51
Onsite Dump Truck	1.90	1.90	1.90	1.90	1.90	1.90	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.76	0.76	0.76	0.76	0.76	0.76	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**5.75**	**5.75**	**5.75**	**5.75**	**5.75**	**5.75**	**4.28**	**4.28**	**4.28**	**4.28**	**2.59**	**2.59**	**2.59**	**2.59**	**2.59**	**2.59**	**2.59**	**2.59**	**2.33**	**2.33**	**2.33**	**2.33**	**2.33**	**2.33**	**1.57**	**1.57**	**1.57**	**1.57**	**1.57**	**1.57**
Onsite Total (tons/year)	**0.03**																													

Onsite Construction Vehicle PM_{10} Emissions from Block 1 Construction

	PM_{10} Emissions (lbs/day)																											
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Onsite Stake Truck	0.009	0.009	0.009	0.009	0.009	0.009	0.007	0.007	0.007	0.007	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Onsite Dump Truck	0.004	0.004	0.004	0.004	0.004	0.004	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000
Onsite Total (lbs/day)	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.010**	**0.010**	**0.010**	**0.010**	**0.007**	**0.007**	**0.007**	**0.007**	**0.007**	**0.007**	**0.007**	**0.007**	**0.006**	**0.006**	**0.006**	**0.006**	**0.006**	**0.006**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**

	PM_{10} Emissions (lbs/month) [a]																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Onsite Stake Truck	0.20	0.20	0.20	0.20	0.20	0.20	0.17	0.17	0.17	0.17	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Onsite Dump Truck	0.10	0.10	0.10	0.10	0.10	0.10	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**0.33**	**0.33**	**0.33**	**0.33**	**0.33**	**0.33**	**0.24**	**0.24**	**0.24**	**0.24**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.13**	**0.13**	**0.13**	**0.13**	**0.13**	**0.13**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**
Onsite Total (tons/year)	**0.00**																													

Onsite Construction Vehicle $PM_{2.5}$ Emissions from Block 1 Construction

	$PM_{2.5}$ Emissions (lbs/day)																											
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Onsite Stake Truck	0.008	0.008	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Onsite Dump Truck	0.004	0.004	0.004	0.004	0.004	0.004	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000
Onsite Total (lbs/day)	**0.013**	**0.013**	**0.013**	**0.013**	**0.013**	**0.013**	**0.009**	**0.009**	**0.009**	**0.009**	**0.006**	**0.006**	**0.006**	**0.006**	**0.006**	**0.006**	**0.006**	**0.006**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.005**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**	**0.004**

	$PM_{2.5}$ Emissions (lbs/month) [a]																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Onsite Stake Truck	0.18	0.18	0.18	0.18	0.18	0.18	0.15	0.15	0.15	0.15	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Onsite Dump Truck	0.09	0.09	0.09	0.09	0.09	0.09	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**0.29**	**0.29**	**0.29**	**0.29**	**0.29**	**0.29**	**0.21**	**0.21**	**0.21**	**0.21**	**0.13**	**0.13**	**0.13**	**0.13**	**0.13**	**0.13**	**0.13**	**0.13**	**0.11**	**0.11**	**0.11**	**0.11**	**0.11**	**0.11**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**
Onsite Total (tons/year)	**0.00**																													

Table 5.1A.11R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle CO_2 Emissions from Block 1 Construction

	CO_2 Emissions (metric tons/day)																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Onsite Stake Truck	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Onsite Dump Truck	0.008	0.008	0.008	0.008	0.008	0.008	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000
Onsite Total (metric tons/day)	**0.028**	**0.028**	**0.028**	**0.028**	**0.028**	**0.028**	**0.024**	**0.024**	**0.024**	**0.024**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.013**	**0.013**	**0.013**	**0.013**	**0.013**	**0.013**
	CO_2 Emissions (metric tons/month) [a]																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Onsite Stake Truck	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Onsite Dump Truck	0.18	0.18	0.18	0.18	0.18	0.18	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (metric tons/month)	**0.65**	**0.65**	**0.65**	**0.65**	**0.65**	**0.65**	**0.56**	**0.56**	**0.56**	**0.56**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.29**	**0.29**	**0.29**	**0.29**	**0.29**	**0.29**
Onsite Total (metric tons/year)	**6.86**																													

Onsite Construction Vehicle N_2O Emissions from Block 1 Construction

	N_2O Emissions (metric tons/day)																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026
Onsite Stake Truck	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010
Onsite Dump Truck	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Onsite Total (metric tons/day)	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000050**	**0.000000050**	**0.000000050**	**0.000000050**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000036**	**0.000000036**	**0.000000036**	**0.000000036**	**0.000000036**	**0.000000036**
	N_2O Emissions (metric tons/month) [a]																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061	0.00000061
Onsite Stake Truck	0.00000044	0.00000044	0.00000044	0.00000044	0.00000044	0.00000044	0.00000044	0.00000044	0.00000044	0.00000044	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022
Onsite Dump Truck	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Onsite Total (metric tons/month)	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000012**	**0.0000012**	**0.0000012**	**0.0000012**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000008**	**0.0000008**	**0.0000008**	**0.0000008**	**0.0000008**	**0.0000008**
Onsite Total (metric tons/year)	**0.000014**																													

Onsite Construction Vehicle CH_4 Emissions from Block 1 Construction

	CH_4 Emissions (metric tons/day)																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065
Onsite Stake Truck	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010
Onsite Dump Truck	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Onsite Total (metric tons/day)	**0.000000096**	**0.000000096**	**0.000000096**	**0.000000096**	**0.000000096**	**0.000000096**	**0.000000091**	**0.000000091**	**0.000000091**	**0.000000091**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000075**	**0.000000075**	**0.000000075**	**0.000000075**	**0.000000075**	**0.000000075**
	CH_4 Emissions (metric tons/month) [a]																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Onsite Pick-up Truck	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015
Onsite Stake Truck	0.0000005	0.0000005	0.0000005	0.0000005	0.0000005	0.0000005	0.0000005	0.0000005	0.0000005	0.0000005	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002
Onsite Dump Truck	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Onsite Total (metric tons/month)	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000021**	**0.0000021**	**0.0000021**	**0.0000021**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000017**	**0.0000017**	**0.0000017**	**0.0000017**	**0.0000017**	**0.0000017**
Onsite Total (metric tons/year)	**0.00003**																													

Notes:
[a] The days per month are per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls', as presented on the 'Fugitive Dust' tab.

Table 5.1A.12R Onsite Construction Fugitive Dust Emissions

Grading and Bulldozing Activity Levels for Block 1 Construction

	Monthly Activity Levels																												
Source	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Onsite Disturbance (acres) [a]	1.33	1.33	1.33	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33	1.33
Bulldozer Operation (hours) [b]	460.00	460.00	230.00	230.00	230.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite Disturbance (acres) [c]	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33

Notes:
[a] A total of 8 acres is disturbed during Block 1 Construction as estimated by H. Larios/PEC on 3/23/12; assumed this disturbance was equally distributed amongst the months in which graders are utilized.
[b] Bulldozer Operation calculated based on the number of equipment and the hours of operation per month, per 'Manpower Schedule Huntington Beach 03.13.12.xls':
Hours per Day: 10
Days per Month: 23
[c] Estimated a total of 16 acres is disturbed at Alamitos for a laydown area during Block 1 and Block 2 Construction and assumed this disturbance was equally distributed amongst the construction activity (48 months total). Also assumed only fugitive dust from grading would occur in this location (i.e., not bulldozing).

Onsite Construction Vehicle Fugitive PM_{10} Emissions from Block 1 Construction

	Fugitive PM_{10} Emissions (lbs/day) [a]																												
Vehicle Type	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Onsite Pick-up Truck	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26
Onsite Stake Truck	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13
Onsite Dump Truck	2.13	2.13	2.13	2.13	2.13	2.13	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**10.66**	**10.66**	**10.66**	**10.66**	**10.66**	**10.66**	**9.59**	**9.59**	**9.59**	**9.59**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**6.39**	**6.39**	**6.39**	**6.39**	**6.39**	**6.39**

	Fugitive PM_{10} Emissions (lbs/month)																												
Vehicle Type	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Onsite Pick-up Truck	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05
Onsite Stake Truck	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03
Onsite Dump Truck	49.03	49.03	49.03	49.03	49.03	49.03	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**245.14**	**245.14**	**245.14**	**245.14**	**245.14**	**245.14**	**220.62**	**220.62**	**220.62**	**220.62**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**147.08**	**147.08**	**147.08**	**147.08**	**147.08**	**147.08**
Onsite Total (tons/year)	**1.35**																													

Notes:
[a] Emissions based on highest (controlled) unpaved road emission factor for PM_{10}.

Onsite Construction Vehicle Fugitive $PM_{2.5}$ Emissions from Block 1 Construction

	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a]																												
Vehicle Type	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Onsite Pick-up Truck	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Onsite Stake Truck	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Onsite Dump Truck	0.21	0.21	0.21	0.21	0.21	0.21	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**1.07**	**1.07**	**1.07**	**1.07**	**1.07**	**1.07**	**0.96**	**0.96**	**0.96**	**0.96**	**0.75**	**0.75**	**0.75**	**0.75**	**0.75**	**0.75**	**0.75**	**0.75**	**0.75**	**0.75**	**0.75**	**0.75**	**0.75**	**0.75**	**0.64**	**0.64**	**0.64**	**0.64**	**0.64**	**0.64**

	Fugitive $PM_{2.5}$ Emissions (lbs/month)																												
Vehicle Type	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Onsite Pick-up Truck	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81
Onsite Stake Truck	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90
Onsite Dump Truck	4.90	4.90	4.90	4.90	4.90	4.90	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**24.51**	**24.51**	**24.51**	**24.51**	**24.51**	**24.51**	**22.06**	**22.06**	**22.06**	**22.06**	**17.16**	**17.16**	**17.16**	**17.16**	**17.16**	**17.16**	**17.16**	**17.16**	**17.16**	**17.16**	**17.16**	**17.16**	**17.16**	**17.16**	**14.71**	**14.71**	**14.71**	**14.71**	**14.71**	**14.71**
Onsite Total (tons/year)	**0.13**																													

Notes:
[a] Emissions based on the highest (controlled) unpaved road emission factor for $PM_{2.5}$.

Onsite Grading and Bulldozing Fugitive PM_{10} Emissions from Block 1 Construction

	Fugitive PM_{10} Emissions (lbs/day) [a]																												
Construction Activity	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Grading [b]	0.06	0.06	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.06
Bulldozing	54.15	54.15	27.07	27.07	27.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**54.21**	**54.21**	**27.13**	**27.13**	**27.07**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.06**	**0.06**

	Fugitive PM_{10} Emissions (lbs/month) [a]																												
Construction Activity	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Grading	1.41	1.41	1.41	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.41	1.41
Bulldozing	1245.34	1245.34	622.67	622.67	622.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**1246.76**	**1246.76**	**624.09**	**624.09**	**622.67**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.41**	**1.41**
Onsite Total (tons/year)	**2.18**																													

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Per Section 4.3 of Appendix A of the CalEEMod User's Guide, the following blade width was assumed for grading equipment: 12 ft

Onsite Grading and Bulldozing Fugitive $PM_{2.5}$ Emissions from Block 1 Construction

	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a]																												
Construction Activity	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Grading	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
Bulldozing	13.12	13.12	6.56	6.56	6.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**13.12**	**13.12**	**6.56**	**6.56**	**6.56**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.01**	**0.01**

	Fugitive $PM_{2.5}$ Emissions (lbs/month) [a]																												
Construction Activity	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Grading	0.15	0.15	0.15	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.15
Bulldozing	301.67	301.67	150.83	150.83	150.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**301.82**	**301.82**	**150.99**	**150.99**	**150.83**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.15**	**0.15**
Onsite Total (tons/year)	**0.53**																													

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Per Section 4.3 of Appendix A of the CalEEMod User's Guide, the following blade width was assumed for grading equipment: 12 ft

Offsite Grading Fugitive PM_{10} Emissions from Block 1 Construction

	Fugitive PM_{10} Emissions (lbs/day) [a]																												
Construction Activity	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Grading [b]	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Offsite Total (lbs/day)	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**

	Fugitive PM_{10} Emissions (lbs/month) [a]																												
Construction Activity	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Grading	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Offsite Total (lbs/month)	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**
Offsite Total (tons/year)	**0.00**																													

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Per Section 4.3 of Appendix A of the CalEEMod User's Guide, the following blade width was assumed for grading equipment: 12 ft

Offsite Grading Fugitive $PM_{2.5}$ Emissions from Block 1 Construction

	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a]																												
Construction Activity	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Grading	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017
Offsite Total (lbs/day)	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**

	Fugitive $PM_{2.5}$ Emissions (lbs/month) [a]																												
Construction Activity	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Grading	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
Offsite Total (lbs/month)	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**
Offsite Total (tons/year)	**0.00**																													

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Per Section 4.3 of Appendix A of the CalEEMod User's Guide, the following blade width was assumed for grading equipment: 12 ft

Table 5.1A.12R Onsite Construction Fugitive Dust Emissions

Onsite Construction Vehicle Activity for Block 1 Construction

Vehicle Type	Miles/Day [a]	Working Days per
Onsite Pick-up Truck	2	23
Onsite Stake Truck	2	23
Onsite Dump Truck	1	23

Notes:
[a] Estimated based on the dimensions of the project site.
[b] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Fugitive Dust Emission Factors for Unpaved Roads

Vehicles on Unpaved Surfaces at Industrial Sites

Parameter	PM_{10}	$PM_{2.5}$
Mean Vehicle Weight [a]	16.5	16.5
Silt Content [a]	8.5	8.5
k [c]	1.5	0.15
a [c]	0.9	0.9
b [c]	0.45	0.45
Emission Factor (Uncontrolled, lbs/mile) [d]	2.37	0.24
Reduction from Watering Twice/Day [e]	55%	55%
Emission Factor (Controlled, lbs/mile)	1.07	0.11

Notes:
[a] Mean vehicle weight assumes that medium/heavy duty trucks weigh 16.5 tons.
[b] Silt content taken from Table 13.2.2-1 of Section 13.2.2 of AP-42 for a Construction Site, Scraper Route; this value is consistent with the CalEEMod defaults.
[c] k, a, and b taken from Table 13.2.2-2 of Section 13.2.2 of AP-42 for industrial roads.
[d] Emission factor calculated using the following equation from Section 13.2.2 of AP-42: Emission Factor (lbs/mile) = [k (lbs/mile) x [Silt Content (%) / 12]a x [Mean Vehicle Weight (tons) / 3]b
[e] Control efficiency taken from Table XI-D of the SCAQMD CEQA Handbook for Travel Over Unpaved Roads; this value is consistent with the CalEEMod defaults.

Fugitive Dust Emission Factors for Grading

Grading Equipment Passes

Parameter	PM_{10}	$PM_{2.5}$
S (mph) [a]	7.1	7.1
F [a]	0.6	0.031
Emission Factor (lbs/VMT) [b]	1.543	0.167

Notes:
[a] The mean vehicle speed (S) and the particulate matter scaling factor (F) taken from Section 11.9 of AP-42 per Section 4.3 of Appendix A of the CalEEMod User's Guide.
[b] Emission factor calculated using the following equation from Section 4.3 of Appendix A of the CalEEMod User's Guide:

PM_{10} Emission Factor (lbs/VMT) = $0.051 \times (S)^{2.5} \times F_{PM10}$

$PM_{2.5}$ Emission Factor (lbs/VMT) = $0.04 \times (S)^{2.5} \times F_{PM2.5}$

Fugitive Dust Emission Factors for Bulldozing

Bulldozing Equipment Passes

Parameter	PM_{10}	$PM_{2.5}$
C [a]	5.7	5.7
M (%) [a]	7.9%	7.9%
s (%) [a]	6.9%	6.9%
F [a]	0.75	0.105
Emission Factor (lbs/hr) [b]	2.707	0.656

Notes:
[a] The arbitrary coefficient (C), material moisture content (M), material silt content (s), and particulate matter scaling factor (F) taken from Section 11.9 of AP-42 per Section 4.3 of Appendix A of the CalEEMod User's Guide.
[b] Emission factor calculated using the following equation from Section 4.3 of Appendix A of the CalEEMod User's Guide:

PM_{10} Emission Factor (lbs/hr) = $[(C \times s^{1.5}) / M^{1.4}] \times F_{PM10}$

$PM_{2.5}$ Emission Factor (lbs/hr) = $[(C \times s^{1.2}) / M^{1.3}] \times F_{PM2.5}$

Table 5.1A.13R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle Usage During Block 1 Construction

	Number per Day																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks [a]	0.00	0.00	0.00	0.75	0.75	0.75	0.75	0.75	0.75	0.75	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Material Hauling Trucks [b, c]	0.40	0.63	1.38	1.38	2.88	2.88	3.25	4.75	5.75	5.75	7.25	8.75	10.75	11.35	11.25	11.10	10.50	8.70	7.70	7.70	7.20	7.20	3.50	2.50	2.50	2.50	2.50	0.50	0.50	0.50
Directly to HBEP	0.16	0.25	0.55	0.55	1.15	1.15	1.30	1.90	2.30	2.30	2.90	3.50	4.30	4.54	4.50	4.44	4.20	3.48	3.08	3.08	2.88	2.88	1.40	1.00	1.00	1.00	1.00	0.20	0.20	0.20
Directly to Alamitos	0.24	0.38	0.83	0.83	1.73	1.73	1.95	2.85	3.45	3.45	4.35	5.25	6.45	6.81	6.75	6.66	6.30	5.22	4.62	4.62	4.32	4.32	2.10	1.50	1.50	1.50	1.50	0.30	0.30	0.30
To HBEP from Alamitos	0.24	0.38	0.83	0.83	1.73	1.73	1.95	2.85	3.45	3.45	4.35	5.25	6.45	6.81	6.75	6.66	6.30	5.22	4.62	4.62	4.32	4.32	2.10	1.50	1.50	1.50	1.50	0.30	0.30	0.30
Construction Worker Commute [d]	2.00	38.00	41.00	49.00	65.00	69.00	73.00	73.00	86.00	98.00	115.00	109.00	123.00	125.00	131.00	135.00	160.00	176.00	180.00	194.00	197.00	209.00	207.00	220.00	220.00	226.00	226.00	230.00	200.00	195.00

Notes:

[a] Offsite Delivery Trucks include trucks transporting "Consumables & Supplies", as provided in 'Huntington Beach Truck Deliveries 032112.xls'. It was assumed that these trucks travel directly to HBEP. Due to the revised, shortened construction duration and in the absence of updated engineering data, the last 6 months of delivery data provided in 'Huntington Beach Truck Deliveries 032112.xls' were not utilized.

[b] Material Hauling Trucks include trucks transporting "Mechanical Equipment", "Electrical Equip. & Mtrls", "Piping, Supports, & Valves", "Concrete and Rebar", "Steel/Architectural", "Contractor Mobilization", "Contractor Demobilization", "Construction Equipment", "HRSGs", "CGTs", "CTGs", "STGs", and "Main Transformers", as provided in 'Huntington Beach Truck Deliveries 032112.xls'. Due to the revised, shortened construction duration and in the absence of updated engineering data, the last 6 months of hauling data provided in 'Huntington Beach Truck Deliveries 032112.xls' were not utilized.

[c] Per "Huntington Beach Truck Deliveries 032112.xls", assumed that 40% of the material haul trucks travel directly to HBEP, that the remaining 60% travel directly to Alamitos, and that all of the materials delivered to Alamitos will later be delivered to HBEP.

[d] Assumed 1 commute per 1 worker; number of workers taken from 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'. Due to the revised, shortened construction duration and in the absence of updated engineering data, the last 12 months of manhour data provided in 'Manpower_Schedule_Huntington_Beach 03.13.12.xls' were not utilized.

Offsite Vehicle CO Emissions from Block 1 Construction

	CO Emissions (lbs/day)																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.000	0.000	0.000	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018
Material Hauling Trucks																														
Directly to HBEP	0.024	0.038	0.083	0.083	0.174	0.174	0.197	0.288	0.349	0.349	0.439	0.530	0.652	0.688	0.682	0.673	0.636	0.527	0.467	0.467	0.436	0.436	0.212	0.152	0.152	0.152	0.152	0.030	0.030	0.030
Directly to Alamitos	0.036	0.057	0.125	0.125	0.261	0.261	0.296	0.432	0.523	0.523	0.659	0.796	0.977	1.032	1.023	1.009	0.955	0.791	0.700	0.700	0.655	0.655	0.318	0.227	0.227	0.227	0.227	0.045	0.045	0.045
To HBEP from Alamitos	0.024	0.037	0.081	0.081	0.170	0.170	0.192	0.281	0.340	0.340	0.428	0.517	0.635	0.671	0.665	0.656	0.621	0.514	0.455	0.455	0.426	0.426	0.207	0.148	0.148	0.148	0.148	0.030	0.030	0.030
Construction Worker Commute	0.137	2.596	2.801	3.347	4.440	4.713	4.987	4.987	5.875	6.694	7.856	7.446	8.402	8.539	8.949	9.222	10.930	12.022	12.296	13.252	13.457	14.277	14.140	15.028	15.028	15.438	15.438	15.711	13.662	13.320
Offsite Total (lbs/day)	**0.221**	**2.727**	**3.090**	**3.691**	**5.100**	**5.373**	**5.725**	**6.041**	**7.140**	**7.960**	**9.455**	**9.361**	**10.739**	**11.002**	**11.391**	**11.632**	**13.214**	**13.927**	**13.990**	**14.946**	**15.046**	**15.866**	**14.895**	**15.573**	**15.573**	**15.983**	**15.983**	**15.835**	**13.785**	**13.444**
	CO Emissions (lbs/month)																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.000	0.000	0.000	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	1.665	0.416	0.416	0.416	0.416	0.416	0.416	0.416	0.416
Material Hauling Trucks																														
Directly to HBEP	0.558	0.871	1.917	1.917	4.008	4.008	4.531	6.622	8.017	8.017	10.108	12.199	14.988	15.824	15.685	15.476	14.639	12.130	10.735	10.735	10.038	10.038	4.880	3.485	3.485	3.485	3.485	0.697	0.697	0.697
Directly to Alamitos	0.837	1.307	2.876	2.876	6.012	6.012	6.797	9.934	12.025	12.025	15.162	18.299	22.481	23.736	23.527	23.213	21.959	18.194	16.103	16.103	15.057	15.057	7.320	5.228	5.228	5.228	5.228	1.046	1.046	1.046
To HBEP from Alamitos	0.544	0.850	1.869	1.869	3.908	3.908	4.418	6.457	7.816	7.816	9.855	11.894	14.613	15.429	15.293	15.089	14.273	11.826	10.467	10.467	9.787	9.787	4.758	3.398	3.398	3.398	3.398	0.680	0.680	0.680
Construction Worker Commute	3.142	59.703	64.416	76.985	102.123	108.407	114.692	114.692	135.116	153.970	180.679	171.252	193.248	196.390	205.817	212.101	251.379	276.517	282.801	304.797	309.510	328.364	325.222	345.646	345.646	355.073	355.073	361.357	314.224	306.368
Offsite Total (lbs/month)	**5.08**	**62.73**	**71.08**	**84.90**	**117.30**	**123.58**	**131.69**	**138.95**	**164.22**	**183.08**	**217.47**	**215.31**	**246.99**	**253.04**	**261.99**	**267.54**	**303.91**	**320.33**	**321.77**	**343.77**	**346.06**	**364.91**	**342.59**	**358.17**	**358.17**	**367.60**	**367.60**	**364.20**	**317.06**	**309.21**
Offsite Total (tons/year)	**2.09**																													

Offsite Vehicle VOC Emissions from Block 1 Construction

	VOC Emissions (lbs/day)																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.000	0.000	0.000	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Material Hauling Trucks																														
Directly to HBEP	0.004	0.006	0.014	0.014	0.029	0.029	0.033	0.049	0.059	0.059	0.074	0.090	0.110	0.116	0.115	0.114	0.107	0.089	0.079	0.079	0.074	0.074	0.036	0.026	0.026	0.026	0.026	0.005	0.005	0.005
Directly to Alamitos	0.006	0.010	0.021	0.021	0.044	0.044	0.050	0.073	0.088	0.088	0.111	0.134	0.165	0.174	0.173	0.170	0.161	0.133	0.118	0.118	0.110	0.110	0.054	0.038	0.038	0.038	0.038	0.008	0.008	0.008
To HBEP from Alamitos	0.004	0.006	0.014	0.014	0.029	0.029	0.032	0.047	0.057	0.057	0.072	0.087	0.107	0.113	0.112	0.111	0.105	0.087	0.077	0.077	0.072	0.072	0.035	0.025	0.025	0.025	0.025	0.005	0.005	0.005
Construction Worker Commute	0.003	0.052	0.056	0.067	0.088	0.094	0.099	0.099	0.117	0.133	0.156	0.148	0.167	0.170	0.178	0.183	0.217	0.239	0.244	0.263	0.267	0.284	0.281	0.299	0.299	0.307	0.307	0.312	0.271	0.265
Offsite Total (lbs/day)	**0.017**	**0.074**	**0.105**	**0.126**	**0.201**	**0.207**	**0.226**	**0.279**	**0.332**	**0.348**	**0.428**	**0.474**	**0.564**	**0.588**	**0.592**	**0.592**	**0.605**	**0.563**	**0.533**	**0.552**	**0.538**	**0.554**	**0.409**	**0.391**	**0.391**	**0.399**	**0.399**	**0.334**	**0.293**	**0.286**
	VOC Emissions (lbs/month)																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.000	0.000	0.000	0.252	0.252	0.252	0.252	0.252	0.252	0.252	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.335	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084
Material Hauling Trucks																														
Directly to HBEP	0.094	0.147	0.324	0.324	0.676	0.676	0.765	1.118	1.353	1.353	1.706	2.059	2.529	2.670	2.647	2.612	2.470	2.047	1.812	1.812	1.694	1.694	0.823	0.588	0.588	0.588	0.588	0.118	0.118	0.118
Directly to Alamitos	0.141	0.221	0.485	0.485	1.015	1.015	1.147	1.676	2.029	2.029	2.559	3.088	3.794	4.006	3.970	3.917	3.706	3.070	2.717	2.717	2.541	2.541	1.235	0.882	0.882	0.882	0.882	0.176	0.176	0.176
To HBEP from Alamitos	0.092	0.143	0.315	0.315	0.660	0.660	0.746	1.090	1.319	1.319	1.663	2.007	2.466	2.604	2.581	2.546	2.409	1.996	1.766	1.766	1.652	1.652	0.803	0.573	0.573	0.573	0.573	0.115	0.115	0.115
Construction Worker Commute	0.062	1.186	1.280	1.530	2.029	2.154	2.279	2.279	2.684	3.059	3.590	3.402	3.839	3.902	4.089	4.214	4.994	5.494	5.619	6.056	6.149	6.524	6.461	6.867	6.867	7.054	7.054	7.179	6.243	6.087
Offsite Total (lbs/month)	**0.389**	**1.697**	**2.404**	**2.905**	**4.631**	**4.756**	**5.187**	**6.414**	**7.637**	**8.012**	**9.852**	**10.891**	**12.964**	**13.517**	**13.622**	**13.624**	**13.914**	**12.942**	**12.249**	**12.686**	**12.371**	**12.746**	**9.407**	**8.995**	**8.995**	**9.182**	**9.182**	**7.672**	**6.735**	**6.579**
Offsite Total (tons/year)	**0.076**																													

Offsite Vehicle SOx Emissions from Block 1 Construction

	SOx Emissions (lbs/day)																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.0000	0.0000	0.0000	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Material Hauling Trucks																														
Directly to HBEP	0.0002	0.0003	0.0008	0.0008	0.0016	0.0016	0.0018	0.0026	0.0031	0.0031	0.0040	0.0048	0.0059	0.0062	0.0062	0.0061	0.0057	0.0048	0.0042	0.0042	0.0039	0.0039	0.0019	0.0014	0.0014	0.0014	0.0014	0.0003	0.0003	0.0003
Directly to Alamitos	0.0003	0.0005	0.0011	0.0011	0.0024	0.0024	0.0027	0.0039	0.0047	0.0047	0.0059	0.0072	0.0088	0.0093	0.0092	0.0091	0.0086	0.0071	0.0063	0.0063	0.0059	0.0059	0.0029	0.0021	0.0021	0.0021	0.0021	0.0004	0.0004	0.0004
To HBEP from Alamitos	0.0002	0.0003	0.0007	0.0007	0.0015	0.0015	0.0017	0.0025	0.0031	0.0031	0.0039	0.0047	0.0057	0.0061	0.0060	0.0059	0.0056	0.0046	0.0041	0.0041	0.0038	0.0038	0.0019	0.0013	0.0013	0.0013	0.0013	0.0003	0.0003	0.0003
Construction Worker Commute	0.0003	0.0063	0.0068	0.0082	0.0108	0.0115	0.0122	0.0122	0.0143	0.0163	0.0192	0.0182	0.0205	0.0208	0.0218	0.0225	0.0267	0.0293	0.0300	0.0323	0.0328	0.0348	0.0345	0.0367	0.0367	0.0377	0.0377	0.0383	0.0333	0.0325
Offsite Total (lbs/day)	**0.0011**	**0.0075**	**0.0094**	**0.0112**	**0.0167**	**0.0174**	**0.0188**	**0.0216**	**0.0257**	**0.0277**	**0.0335**	**0.0353**	**0.0415**	**0.0429**	**0.0438**	**0.0441**	**0.0472**	**0.0464**	**0.0452**	**0.0475**	**0.0471**	**0.0491**	**0.0413**	**0.0416**	**0.0416**	**0.0426**	**0.0426**	**0.0394**	**0.0344**	**0.0336**
	SOx Emissions (lbs/month)																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.0000	0.0000	0.0000	0.0094	0.0094	0.0094	0.0094	0.0094	0.0094	0.0094	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0126	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031
Material Hauling Trucks																														
Directly to HBEP	0.0050	0.0079	0.0173	0.0173	0.0362	0.0362	0.0409	0.0597	0.0723	0.0723	0.0912	0.1100	0.1352	0.1427	0.1415	0.1396	0.1320	0.1094	0.0968	0.0968	0.0905	0.0905	0.0440	0.0314	0.0314	0.0314	0.0314	0.0063	0.0063	0.0063
Directly to Alamitos	0.0075	0.0118	0.0259	0.0259	0.0542	0.0542	0.0613	0.0896	0.1085	0.1085	0.1368	0.1650	0.2028	0.2141	0.2122	0.2094	0.1981	0.1641	0.1452	0.1452	0.1358	0.1358	0.0660	0.0472	0.0472	0.0472	0.0472	0.0094	0.0094	0.0094
To HBEP from Alamitos	0.0049	0.0077	0.0169	0.0169	0.0352	0.0352	0.0398	0.0582	0.0705	0.0705	0.0889	0.1073	0.1318	0.1392	0.1379	0.1361	0.1287	0.1067	0.0944	0.0944	0.0883	0.0883	0.0429	0.0307	0.0307	0.0307	0.0307	0.0061	0.0061	0.0061
Construction Worker Commute	0.0077	0.1457	0.1572	0.1878	0.2492	0.2645	0.2798	0.2798	0.3297	0.3757	0.4408	0.4178	0.4715	0.4792	0.5022	0.5175	0.6133	0.6747	0.6900	0.7437	0.7552	0.8012	0.7935	0.8433	0.8433	0.8663	0.8663	0.8817	0.7667	0.7475
Offsite Total (lbs/month)	**0.0251**	**0.1730**	**0.2173**	**0.2574**	**0.3842**	**0.3996**	**0.4313**	**0.4968**	**0.5904**	**0.6364**	**0.7702**	**0.8128**	**0.9538**	**0.9877**	**1.0064**	**1.0151**	**1.0847**	**1.0674**	**1.0391**	**1.0927**	**1.0824**	**1.1284**	**0.9496**	**0.9557**	**0.9557**	**0.9787**	**0.9787**	**0.9067**	**0.7917**	**0.7725**
Offsite Total (tons/year)	**0.006**																													

Table 5.1A.13R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle NOx Emissions from Block 1 Construction

	NOx Emissions (lbs/day)																												
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.00	0.00	0.00	0.16	0.16	0.16	0.14	0.14	0.14	0.14	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.17	0.17	0.17	0.17	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Material Hauling Trucks																														
Directly to HBEP	0.07	0.11	0.25	0.25	0.52	0.52	0.52	0.76	0.92	0.92	1.16	1.40	1.72	1.81	1.80	1.77	1.68	1.39	1.10	1.10	1.03	1.03	0.50	0.36	0.36	0.36	0.36	0.07	0.07	0.07
Directly to Alamitos	0.11	0.17	0.37	0.37	0.77	0.77	0.78	1.14	1.38	1.38	1.74	2.10	2.58	2.72	2.69	2.66	2.52	2.08	1.65	1.65	1.54	1.54	0.75	0.54	0.54	0.54	0.54	0.11	0.11	0.11
To HBEP from Alamitos	0.07	0.11	0.24	0.24	0.50	0.50	0.51	0.74	0.90	0.90	1.13	1.36	1.67	1.77	1.75	1.73	1.63	1.35	1.07	1.07	1.00	1.00	0.49	0.35	0.35	0.35	0.35	0.07	0.07	0.07
Construction Worker Commute	0.01	0.25	0.27	0.32	0.42	0.45	0.43	0.43	0.51	0.58	0.68	0.65	0.73	0.74	0.78	0.80	0.95	1.04	0.97	1.05	1.06	1.13	1.12	1.19	1.19	1.22	1.22	1.24	1.08	1.05
Offsite Total (lbs/day)	**0.26**	**0.64**	**1.12**	**1.34**	**2.38**	**2.40**	**2.38**	**3.21**	**3.84**	**3.91**	**4.89**	**5.69**	**6.88**	**7.23**	**7.21**	**7.15**	**6.96**	**6.06**	**4.96**	**5.03**	**4.80**	**4.87**	**2.90**	**2.47**	**2.47**	**2.50**	**2.50**	**1.53**	**1.37**	**1.34**

	NOx Emissions (lbs/month)																												
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.00	0.00	0.00	3.68	3.68	3.68	3.24	3.24	3.24	3.24	4.32	4.32	4.32	4.32	4.32	4.32	4.32	4.32	3.84	3.84	3.84	3.84	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Material Hauling Trucks																														
Directly to HBEP	1.65	2.58	5.68	5.68	11.87	11.87	11.94	17.45	21.12	21.12	26.63	32.14	39.49	41.69	41.32	40.77	38.57	31.96	25.27	25.27	23.63	23.63	11.49	8.21	8.21	8.21	8.21	1.64	1.64	1.64
Directly to Alamitos	2.48	3.87	8.52	8.52	17.81	17.81	17.91	26.17	31.68	31.68	39.95	48.21	59.23	62.53	61.98	61.16	57.85	47.93	37.91	37.91	35.45	35.45	17.23	12.31	12.31	12.31	12.31	2.46	2.46	2.46
To HBEP from Alamitos	1.61	2.52	5.54	5.54	11.58	11.58	11.64	17.01	20.59	20.59	25.96	31.34	38.50	40.65	40.29	39.75	37.60	31.16	24.64	24.64	23.04	23.04	11.20	8.00	8.00	8.00	8.00	1.60	1.60	1.60
Construction Worker Commute	0.30	5.67	6.12	7.31	9.70	10.30	9.95	9.95	11.73	13.36	15.68	14.86	16.77	17.04	17.86	18.41	21.82	24.00	22.38	24.12	24.49	25.98	25.73	27.35	27.35	28.09	28.09	28.59	24.86	24.24
Offsite Total (lbs/month)	**6.04**	**14.64**	**25.85**	**30.72**	**54.63**	**55.23**	**54.68**	**73.83**	**88.36**	**90.00**	**112.55**	**130.87**	**158.31**	**166.24**	**165.78**	**164.41**	**160.16**	**139.37**	**114.04**	**115.78**	**110.45**	**111.94**	**66.61**	**56.82**	**56.82**	**57.57**	**57.57**	**35.25**	**31.53**	**30.90**
Offsite Total (tons/year)	**0.825**																													

Offsite Vehicle PM_{10} Emissions from Block 1 Construction

	PM_{10} Emissions (lbs/day) [a]																												
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.000	0.000	0.000	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Material Hauling Trucks																														
Directly to HBEP	0.008	0.012	0.026	0.026	0.054	0.054	0.060	0.087	0.105	0.105	0.133	0.160	0.197	0.208	0.206	0.204	0.193	0.160	0.137	0.137	0.129	0.129	0.062	0.045	0.045	0.045	0.045	0.009	0.009	0.009
Directly to Alamitos	0.011	0.018	0.039	0.039	0.082	0.082	0.089	0.131	0.158	0.158	0.199	0.241	0.296	0.312	0.310	0.305	0.289	0.239	0.206	0.206	0.193	0.193	0.094	0.067	0.067	0.067	0.067	0.013	0.013	0.013
To HBEP from Alamitos	0.007	0.012	0.025	0.025	0.053	0.053	0.058	0.085	0.103	0.103	0.130	0.156	0.192	0.203	0.201	0.199	0.188	0.156	0.134	0.134	0.125	0.125	0.061	0.044	0.044	0.044	0.044	0.009	0.009	0.009
Construction Worker Commute	0.032	0.603	0.650	0.777	1.031	1.094	1.158	1.158	1.365	1.555	1.825	1.730	1.952	1.984	2.079	2.142	2.539	2.793	2.856	3.078	3.126	3.316	3.285	3.491	3.491	3.586	3.586	3.650	3.174	3.094
Offsite Total (lbs/day)	**0.058**	**0.644**	**0.741**	**0.882**	**1.234**	**1.298**	**1.379**	**1.475**	**1.745**	**1.935**	**2.305**	**2.306**	**2.655**	**2.725**	**2.814**	**2.868**	**3.226**	**3.366**	**3.351**	**3.574**	**3.590**	**3.781**	**3.506**	**3.650**	**3.650**	**3.746**	**3.746**	**3.685**	**3.209**	**3.130**

	PM_{10} Emissions (lbs/month) [a]																												
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.000	0.000	0.000	0.332	0.332	0.332	0.317	0.317	0.317	0.317	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.422	0.406	0.406	0.406	0.406	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102
Material Hauling Trucks																														
Directly to HBEP	0.174	0.272	0.598	0.598	1.251	1.251	1.371	2.004	2.426	2.426	3.058	3.691	4.535	4.788	4.746	4.683	4.429	3.670	3.161	3.161	2.956	2.956	1.437	1.026	1.026	1.026	1.026	0.205	0.205	0.205
Directly to Alamitos	0.261	0.408	0.898	0.898	1.877	1.877	2.057	3.006	3.638	3.638	4.588	5.537	6.802	7.182	7.119	7.024	6.644	5.505	4.741	4.741	4.433	4.433	2.155	1.539	1.539	1.539	1.539	0.308	0.308	0.308
To HBEP from Alamitos	0.170	0.265	0.583	0.583	1.220	1.220	1.337	1.954	2.365	2.365	2.982	3.599	4.422	4.668	4.627	4.566	4.319	3.578	3.082	3.082	2.882	2.882	1.401	1.001	1.001	1.001	1.001	0.200	0.200	0.200
Construction Worker Commute	0.729	13.858	14.952	17.870	23.705	25.164	26.643	26.643	31.387	35.767	41.971	39.781	44.891	45.621	47.811	49.270	58.395	64.234	65.694	70.803	71.898	76.278	75.548	80.293	80.293	82.482	82.482	83.942	72.993	71.168
Offsite Total (lbs/month)	**1.334**	**14.804**	**17.032**	**20.281**	**28.385**	**29.844**	**31.724**	**33.922**	**40.133**	**44.513**	**53.021**	**53.031**	**61.072**	**62.682**	**64.725**	**65.965**	**74.209**	**77.410**	**77.084**	**82.193**	**82.575**	**86.955**	**80.642**	**83.960**	**83.960**	**86.150**	**86.150**	**84.757**	**73.808**	**71.983**
Offsite Total (tons/year)	**0.493**																													

Notes:
[a] PM_{10} Emissions include emissions from exhaust and paved roads.

Offsite Vehicle $PM_{2.5}$ Emissions from Block 1 Construction

	$PM_{2.5}$ Emissions (lbs/day) [a]																												
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.000	0.000	0.000	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Material Hauling Trucks																														
Directly to HBEP	0.004	0.006	0.013	0.013	0.027	0.027	0.029	0.042	0.051	0.051	0.064	0.077	0.095	0.100	0.099	0.098	0.093	0.077	0.065	0.065	0.060	0.060	0.029	0.021	0.021	0.021	0.021	0.004	0.004	0.004
Directly to Alamitos	0.006	0.009	0.019	0.019	0.040	0.040	0.043	0.063	0.076	0.076	0.096	0.116	0.143	0.151	0.149	0.147	0.139	0.115	0.097	0.097	0.091	0.091	0.044	0.031	0.031	0.031	0.031	0.006	0.006	0.006
To HBEP from Alamitos	0.004	0.006	0.013	0.013	0.026	0.026	0.028	0.041	0.050	0.050	0.062	0.075	0.093	0.098	0.097	0.096	0.091	0.075	0.063	0.063	0.059	0.059	0.029	0.020	0.020	0.020	0.020	0.004	0.004	0.004
Construction Worker Commute	0.009	0.169	0.182	0.217	0.288	0.306	0.324	0.324	0.381	0.435	0.510	0.483	0.545	0.554	0.581	0.599	0.709	0.780	0.798	0.860	0.874	0.927	0.918	0.976	0.976	1.002	1.002	1.020	0.887	0.865
Offsite Total (lbs/day)	**0.022**	**0.189**	**0.227**	**0.270**	**0.389**	**0.407**	**0.430**	**0.477**	**0.565**	**0.618**	**0.742**	**0.761**	**0.885**	**0.912**	**0.936**	**0.949**	**1.041**	**1.057**	**1.031**	**1.093**	**1.092**	**1.145**	**1.022**	**1.050**	**1.050**	**1.077**	**1.077**	**1.037**	**0.904**	**0.881**

	$PM_{2.5}$ Emissions (lbs/month) [a]																												
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.000	0.000	0.000	0.172	0.172	0.172	0.159	0.159	0.159	0.159	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.212	0.196	0.196	0.196	0.196	0.049	0.049	0.049	0.049	0.049	0.049	0.049	0.049
Material Hauling Trucks																														
Directly to HBEP	0.086	0.135	0.296	0.296	0.620	0.620	0.661	0.966	1.169	1.169	1.474	1.779	2.186	2.308	2.287	2.257	2.135	1.769	1.484	1.484	1.388	1.388	0.675	0.482	0.482	0.482	0.482	0.096	0.096	0.096
Directly to Alamitos	0.129	0.202	0.444	0.444	0.929	0.929	0.991	1.449	1.754	1.754	2.211	2.669	3.279	3.462	3.431	3.385	3.202	2.653	2.227	2.227	2.082	2.082	1.012	0.723	0.723	0.723	0.723	0.145	0.145	0.145
To HBEP from Alamitos	0.084	0.131	0.289	0.289	0.604	0.604	0.644	0.942	1.140	1.140	1.437	1.735	2.131	2.250	2.230	2.200	2.082	1.725	1.447	1.447	1.353	1.353	0.658	0.470	0.470	0.470	0.470	0.094	0.094	0.094
Construction Worker Commute	0.204	3.876	4.182	4.997	6.629	7.037	7.445	7.445	8.771	9.995	11.729	11.117	12.545	12.749	13.361	13.768	16.318	17.950	18.358	19.786	20.092	21.316	21.112	22.437	22.437	23.049	23.049	23.457	20.398	19.888
Offsite Total (lbs/month)	**0.504**	**4.344**	**5.211**	**6.199**	**8.954**	**9.362**	**9.900**	**10.960**	**12.993**	**14.216**	**17.063**	**17.511**	**20.352**	**20.980**	**21.521**	**21.823**	**23.949**	**24.309**	**23.712**	**25.140**	**25.111**	**26.335**	**23.505**	**24.161**	**24.161**	**24.773**	**24.773**	**23.841**	**20.782**	**20.272**
Offsite Total (tons/year)	**0.147**																													

Notes:
[a] $PM_{2.5}$ Emissions include emissions from exhaust and paved roads.

Offsite Vehicle CO_2 Emissions from Block 1 Construction

	CO_2 Emissions (metric tons/day)																												
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.000	0.000	0.000	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
Material Hauling Trucks																														
Directly to HBEP	0.010	0.016	0.036	0.036	0.075	0.075	0.085	0.125	0.151	0.151	0.190	0.230	0.282	0.298	0.295	0.291	0.276	0.228	0.202	0.202	0.189	0.189	0.092	0.066	0.066	0.066	0.066	0.013	0.013	0.013
Directly to Alamitos	0.016	0.025	0.054	0.054	0.113	0.113	0.128	0.187	0.226	0.226	0.285	0.345	0.423	0.447	0.443	0.437	0.413	0.343	0.303	0.303	0.283	0.283	0.138	0.098	0.098	0.098	0.098	0.020	0.020	0.020
To HBEP from Alamitos	0.010	0.016	0.035	0.035	0.074	0.074	0.083	0.122	0.147	0.147	0.186	0.224	0.275	0.290	0.288	0.284	0.269	0.223	0.197	0.197	0.184	0.184	0.090	0.064	0.064	0.064	0.064	0.013	0.013	0.013
Construction Worker Commute	0.014	0.264	0.285	0.340	0.451	0.479	0.507	0.507	0.597	0.680	0.798	0.757	0.854	0.868	0.909	0.937	1.110	1.222	1.249	1.346	1.367	1.451	1.437	1.527	1.527	1.569	1.569	1.596	1.388	1.353
Offsite Total (metric tons/day)	**0.050**	**0.321**	**0.410**	**0.485**	**0.733**	**0.761**	**0.823**	**0.959**	**1.141**	**1.224**	**1.485**	**1.581**	**1.860**	**1.929**	**1.961**	**1.975**	**2.094**	**2.041**	**1.978**	**2.075**	**2.050**	**2.133**	**1.762**	**1.761**	**1.761**	**1.803**	**1.803**	**1.648**	**1.440**	**1.405**

	CO_2 Emissions (metric tons/month)																												
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.000	0.000	0.000	0.447	0.447	0.447	0.447	0.447	0.447	0.447	0.596	0.596	0.596	0.596	0.596	0.596	0.596	0.596	0.596	0.596	0.596	0.596	0.149	0.149	0.149	0.149	0.149	0.149	0.149	0.149
Material Hauling Trucks																														
Directly to HBEP	0.241	0.377	0.830	0.830	1.736	1.736	1.962	2.868	3.471	3.471	4.377	5.283	6.490	6.852	6.792	6.701	6.339	5.252	4.649	4.649	4.347	4.347	2.113	1.509	1.509	1.509	1.509	0.302	0.302	0.302
Directly to Alamitos	0.362	0.566	1.245	1.245	2.604	2.604	2.943	4.302	5.207	5.207	6.566	7.924	9.735	10.278	10.188	10.052	9.509	7.879	6.973	6.973	6.520	6.520	3.170	2.264	2.264	2.264	2.264	0.453	0.453	0.453
To HBEP from Alamitos	0.235	0.368	0.809	0.809	1.692	1.692	1.913	2.796	3.385	3.385	4.268	5.151	6.328	6.681	6.622	6.534	6.181	5.121	4.532	4.532	4.238	4.238	2.060	1.472	1.472	1.472	1.472	0.294	0.294	0.294
Construction Worker Commute	0.319	6.066	6.545	7.822	10.376	11.015	11.653	11.653	13.728	15.644	18.358	17.400	19.635	19.954	20.912	21.550	25.541	28.095	28.734	30.969	31.448	33.363	33.044	35.119	35.119	36.077	36.077	36.715	31.926	31.128
Offsite Total (metric tons/month)	**1.16**	**7.38**	**9.43**	**11.15**	**16.85**	**17.49**	**18.92**	**22.07**	**26.24**	**28.15**	**34.16**	**36.35**	**42.78**	**44.36**	**45.11**	**45.43**	**48.17**	**46.94**	**45.48**	**47.72**	**47.15**	**49.06**	**40.54**	**40.51**	**40.51**	**41.47**	**41.47**	**37.91**	**33.12**	**32.33**
Offsite Total (metric tons/year)	**543.27**																													

Table 5.1A.13R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle N_2O Emissions from Block 1 Construction

	N_2O Emissions (metric tons/day)																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.00000000	0.00000000	0.00000000	0.00000005	0.00000005	0.00000005	0.00000005	0.00000005	0.00000005	0.00000005	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002
Material Hauling Trucks																														
Directly to HBEP	0.00000003	0.00000005	0.00000011	0.00000011	0.00000022	0.00000022	0.00000025	0.00000036	0.00000044	0.00000044	0.00000056	0.00000067	0.00000083	0.00000087	0.00000086	0.00000085	0.00000081	0.00000067	0.00000059	0.00000059	0.00000055	0.00000055	0.00000027	0.00000019	0.00000019	0.00000019	0.00000019	0.00000004	0.00000004	0.00000004
Directly to Alamitos	0.00000005	0.00000007	0.00000016	0.00000016	0.00000033	0.00000033	0.00000037	0.00000055	0.00000066	0.00000066	0.00000084	0.00000101	0.00000124	0.00000131	0.00000130	0.00000128	0.00000121	0.00000100	0.00000089	0.00000089	0.00000083	0.00000083	0.00000040	0.00000029	0.00000029	0.00000029	0.00000029	0.00000006	0.00000006	0.00000006
To HBEP from Alamitos	0.00000003	0.00000005	0.00000010	0.00000010	0.00000022	0.00000022	0.00000024	0.00000036	0.00000043	0.00000043	0.00000054	0.00000066	0.00000080	0.00000085	0.00000084	0.00000083	0.00000079	0.00000065	0.00000058	0.00000058	0.00000054	0.00000054	0.00000026	0.00000019	0.00000019	0.00000019	0.00000019	0.00000004	0.00000004	0.00000004
Construction Worker Commute	0.00000016	0.00000295	0.00000319	0.00000381	0.00000505	0.00000537	0.00000568	0.00000568	0.00000669	0.00000762	0.00000894	0.00000848	0.00000956	0.00000972	0.00001019	0.00001050	0.00001244	0.00001369	0.00001400	0.00001509	0.00001532	0.00001625	0.00001610	0.00001711	0.00001711	0.00001757	0.00001757	0.00001788	0.00001555	0.00001516
Offsite Total (metric tons/day)	**0.0000003**	**0.0000031**	**0.0000036**	**0.0000042**	**0.0000059**	**0.0000062**	**0.0000066**	**0.0000070**	**0.0000083**	**0.0000092**	**0.0000109**	**0.0000109**	**0.0000125**	**0.0000128**	**0.0000133**	**0.0000135**	**0.0000153**	**0.0000161**	**0.0000161**	**0.0000172**	**0.0000173**	**0.0000182**	**0.0000170**	**0.0000178**	**0.0000178**	**0.0000183**	**0.0000183**	**0.0000180**	**0.0000157**	**0.0000153**

	N_2O Emissions (metric tons/month)																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.0000000	0.0000000	0.0000000	0.0000012	0.0000012	0.0000012	0.0000012	0.0000012	0.0000012	0.0000012	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004
Material Hauling Trucks																														
Directly to HBEP	0.0000007	0.0000011	0.0000024	0.0000024	0.0000051	0.0000051	0.0000057	0.0000084	0.0000102	0.0000102	0.0000128	0.0000155	0.0000190	0.0000200	0.0000199	0.0000196	0.0000185	0.0000154	0.0000136	0.0000136	0.0000127	0.0000127	0.0000062	0.0000044	0.0000044	0.0000044	0.0000044	0.0000009	0.0000009	0.0000009
Directly to Alamitos	0.0000011	0.0000017	0.0000036	0.0000036	0.0000076	0.0000076	0.0000086	0.0000126	0.0000152	0.0000152	0.0000192	0.0000232	0.0000285	0.0000301	0.0000298	0.0000294	0.0000278	0.0000231	0.0000204	0.0000204	0.0000191	0.0000191	0.0000093	0.0000066	0.0000066	0.0000066	0.0000066	0.0000013	0.0000013	0.0000013
To HBEP from Alamitos	0.0000007	0.0000011	0.0000024	0.0000024	0.0000050	0.0000050	0.0000056	0.0000082	0.0000099	0.0000099	0.0000125	0.0000151	0.0000185	0.0000195	0.0000194	0.0000191	0.0000181	0.0000150	0.0000133	0.0000133	0.0000124	0.0000124	0.0000060	0.0000043	0.0000043	0.0000043	0.0000043	0.0000009	0.0000009	0.0000009
Construction Worker Commute	0.0000036	0.0000680	0.0000733	0.0000876	0.0001163	0.0001234	0.0001306	0.0001306	0.0001538	0.0001753	0.0002057	0.0001949	0.0002200	0.0002236	0.0002343	0.0002414	0.0002862	0.0003148	0.0003219	0.0003470	0.0003523	0.0003738	0.0003702	0.0003935	0.0003935	0.0004042	0.0004042	0.0004114	0.0003577	0.0003488
Offsite Total (metric tons/month)	**0.000006**	**0.000072**	**0.000082**	**0.000097**	**0.000135**	**0.000142**	**0.000152**	**0.000161**	**0.000190**	**0.000212**	**0.000252**	**0.000250**	**0.000288**	**0.000295**	**0.000305**	**0.000311**	**0.000352**	**0.000370**	**0.000371**	**0.000396**	**0.000398**	**0.000420**	**0.000392**	**0.000409**	**0.000409**	**0.000420**	**0.000420**	**0.000415**	**0.000361**	**0.000352**
Offsite Total (metric tons/year)	**0.0048**																													

Offsite Vehicle CH_4 Emissions from Block 1 Construction

	CH_4 Emissions (metric tons/day)																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.00000000	0.00000000	0.00000000	0.00000006	0.00000006	0.00000006	0.00000006	0.00000006	0.00000006	0.00000006	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002	0.00000002
Material Hauling Trucks																														
Directly to HBEP	0.00000003	0.00000005	0.00000011	0.00000011	0.00000023	0.00000023	0.00000027	0.00000039	0.00000047	0.00000047	0.00000059	0.00000071	0.00000088	0.00000093	0.00000092	0.00000091	0.00000086	0.00000071	0.00000063	0.00000063	0.00000059	0.00000059	0.00000029	0.00000020	0.00000020	0.00000020	0.00000020	0.00000004	0.00000004	0.00000004
Directly to Alamitos	0.00000005	0.00000008	0.00000017	0.00000017	0.00000035	0.00000035	0.00000040	0.00000058	0.00000070	0.00000070	0.00000089	0.00000107	0.00000132	0.00000139	0.00000138	0.00000136	0.00000129	0.00000106	0.00000094	0.00000094	0.00000088	0.00000088	0.00000043	0.00000031	0.00000031	0.00000031	0.00000031	0.00000006	0.00000006	0.00000006
To HBEP from Alamitos	0.00000003	0.00000005	0.00000011	0.00000011	0.00000023	0.00000023	0.00000026	0.00000038	0.00000046	0.00000046	0.00000058	0.00000070	0.00000086	0.00000090	0.00000090	0.00000088	0.00000084	0.00000069	0.00000061	0.00000061	0.00000057	0.00000057	0.00000028	0.00000020	0.00000020	0.00000020	0.00000020	0.00000004	0.00000004	0.00000004
Construction Worker Commute	0.00000075	0.00001420	0.00001532	0.00001831	0.00002429	0.00002578	0.00002728	0.00002728	0.00003214	0.00003662	0.00004297	0.00004073	0.00004596	0.00004671	0.00004895	0.00005045	0.00005979	0.00006577	0.00006726	0.00007249	0.00007361	0.00007810	0.00007735	0.00008221	0.00008221	0.00008445	0.00008445	0.00008595	0.00007474	0.00007287
Offsite Total (metric tons/day)	**0.0000009**	**0.0000144**	**0.0000157**	**0.0000188**	**0.0000252**	**0.0000267**	**0.0000283**	**0.0000287**	**0.0000338**	**0.0000383**	**0.0000451**	**0.0000433**	**0.0000491**	**0.0000500**	**0.0000522**	**0.0000537**	**0.0000628**	**0.0000683**	**0.0000695**	**0.0000748**	**0.0000757**	**0.0000802**	**0.0000784**	**0.0000829**	**0.0000829**	**0.0000852**	**0.0000852**	**0.0000861**	**0.0000749**	**0.0000730**

	CH_4 Emissions (metric tons/month)																													
Vehicle Type	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**
Offsite Delivery Trucks	0.0000000	0.0000000	0.0000000	0.0000013	0.0000013	0.0000013	0.0000013	0.0000013	0.0000013	0.0000013	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004
Material Hauling Trucks																														
Directly to HBEP	0.0000008	0.0000012	0.0000026	0.0000026	0.0000054	0.0000054	0.0000061	0.0000089	0.0000108	0.0000108	0.0000136	0.0000164	0.0000202	0.0000213	0.0000211	0.0000208	0.0000197	0.0000163	0.0000145	0.0000145	0.0000135	0.0000135	0.0000066	0.0000047	0.0000047	0.0000047	0.0000047	0.0000009	0.0000009	0.0000009
Directly to Alamitos	0.0000011	0.0000018	0.0000039	0.0000039	0.0000081	0.0000081	0.0000091	0.0000134	0.0000162	0.0000162	0.0000204	0.0000246	0.0000303	0.0000320	0.0000317	0.0000312	0.0000296	0.0000245	0.0000217	0.0000217	0.0000203	0.0000203	0.0000099	0.0000070	0.0000070	0.0000070	0.0000070	0.0000014	0.0000014	0.0000014
To HBEP from Alamitos	0.0000007	0.0000011	0.0000025	0.0000025	0.0000053	0.0000053	0.0000059	0.0000087	0.0000105	0.0000105	0.0000133	0.0000160	0.0000197	0.0000208	0.0000206	0.0000203	0.0000192	0.0000159	0.0000141	0.0000141	0.0000132	0.0000132	0.0000064	0.0000046	0.0000046	0.0000046	0.0000046	0.0000009	0.0000009	0.0000009
Construction Worker Commute	0.0000172	0.0003266	0.0003524	0.0004211	0.0005587	0.0005930	0.0006274	0.0006274	0.0007391	0.0008423	0.0009884	0.0009368	0.0010571	0.0010743	0.0011259	0.0011603	0.0013751	0.0015127	0.0015470	0.0016674	0.0016931	0.0017963	0.0017791	0.0018908	0.0018908	0.0019424	0.0019424	0.0019768	0.0017189	0.0016760
Offsite Total (metric tons/month)	**0.00002**	**0.00033**	**0.00036**	**0.00043**	**0.00058**	**0.00061**	**0.00065**	**0.00066**	**0.00078**	**0.00088**	**0.00104**	**0.00100**	**0.00113**	**0.00115**	**0.00120**	**0.00123**	**0.00145**	**0.00157**	**0.00160**	**0.00172**	**0.00174**	**0.00184**	**0.00180**	**0.00191**	**0.00191**	**0.00196**	**0.00196**	**0.00198**	**0.00172**	**0.00168**
Offsite Total (metric tons/year)	**0.0218**																													

Offsite Construction Vehicle Activity for Block 1 Construction

Vehicle Type	Roundtrip Miles/Day [a]	Working Days per Month [b]
Offsite Delivery Trucks	14.6	23
Material Hauling Trucks	40.0	23
Directly to HBEP	40.0	23
Directly to Alamitos	40.0	23
To HBEP from Alamitos	26.0	23
Construction Worker Commute	21.6	23

Notes:

[a] Roundtrip miles/day taken as the CalEEMod defaults for the South Coast Air Basin except for "To HBEP from Alamitos", which was measured using Google Earth.

[b] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Table 5.1A.14R Equations Used to Calculate Criteria Pollutant and GHG Emissions

Equations Used to Calculate Emissions from Block 1 Construction

Emission Source	Pollutant(s)	Equation	Variables
Construction Equipment Exhaust	CO, VOC, NOx, SOx, PM_{10}, and $PM_{2.5}$	$E_m = EF * N * Hp * L * H / 453.6$	E_m = Emissions (lbs/month)
			EF = Emission factor (g/bhp-hr)
			N = Number of pieces of equipment
			Hp = Average horsepower
			L = Average load factor
			H = Hours per month
			453.6 = Conversion from g to lbs
		$E_d = E_m / D$	E_d = Emissions (lbs/day)
			E_m = Emissions (lbs/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons
	CO_2	$E_m = N * FC * EF * H * 0.001$	E_m = Emissions (metric tons/month)
			N = Number of pieces of equipment
			FC = Fuel consumption (gallons/hour)
			EF = Emission factor (kg/gallon)
			H = Hours per month
			0.001 = Conversion from kg to metric tons
		$E_d = E_m / D$	E_d = Emissions (metric tons/day)
			E_m = Emissions (metric tons/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
	CH_4 and N_2O	$E_m = N * FC * EF * H / 1{,}000 * 0.001$	E_m = Emissions (metric tons/month)
			N = Number of pieces of equipment
			FC = Fuel consumption (gallons/hour)
			EF = Emission factor (g/gallon)
			H = Hours per month
			1,000 = Conversion from g to kg
			0.001 = Conversion from kg to metric tons
		$E_d = E_m / D$	E_d = Emissions (metric tons/day)
			E_m = Emissions (metric tons/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
Onsite and Offsite Vehicle Exhaust and Paved and Unpaved Road Fugitive PM_{10} and $PM_{2.5}$	CO, VOC, NOx, SOx, PM_{10}, and $PM_{2.5}$	$E_d = N * VMT * EF / 453.6$	E_d = Emissions (lbs/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			EF = EMFAC2007 emission factor (g/mile). Paved and unpaved road fugitive PM_{10} and $PM_{2.5}$ emission factors calculated per Sections 13.2.1 and 13.2.2 of AP-42, respectively.
			453.6 = Conversion from g to lbs
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons

Table 5.1A.14R Equations Used to Calculate Criteria Pollutant and GHG Emissions

Equations Used to Calculate Emissions from Block 1 Construction

Emission Source	Pollutant(s)	Equation	Variables
Onsite and Offsite Vehicle Exhaust	CO_2	$E_d = N * VMT / FE * EF * 0.001$	E_d = Emissions (metric tons/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			FE = Fuel economy (mpg)
			EF = Emission factor (kg/gallon)
			0.001 = Conversion from kg to metric tons
		$E_m = E_d * D$	E_m = Emissions (metric tons/month)
			E_d = Emissions (metric tons/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
	CH_4 and N_2O	$E_d = N * VMT * EF / 1{,}000 * 0.001$	E_d = Emissions (metric tons/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			EF = Emission factor (g/mile)
			1,000 = Conversion from g to kg
			0.001 = Conversion from kg to metric tons
		$E_m = E_d * D$	E_m = Emissions (metric tons/month)
			E_d = Emissions (metric tons/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
Onsite and Offsite Fugitive PM_{10} and $PM_{2.5}$ from Grading	PM_{10} and $PM_{2.5}$	$E_d = EF \times A / W \times 43{,}560 / 5{,}280 / D$	E_d = Emissions (lbs/day)
			EF = Fugitive PM_{10} and $PM_{2.5}$ emission factors (lbs/mile), calculated per Section 4.3 of Appendix A of the CalEEMod User's Guide.
			A = Site disturbed (acres/month)
			W = Grading equipment blade width (ft)
			43,560 = Conversion factor from square feet to acres
			5,280 = Conversion factor from feet to miles
			D = Number of construction days per month
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons
Onsite Fugitive PM_{10} and $PM_{2.5}$ from Bulldozing	PM_{10} and $PM_{2.5}$	$E_d = EF \times H / D$	E_d = Emissions (lbs/day)
			EF = Fugitive PM_{10} and $PM_{2.5}$ emission factors (lbs/mile), calculated per Section 4.3 of Appendix A of the CalEEMod User's Guide.
			H = Hours per month for all bulldozers
			D = Number of construction days per month
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons

Table 5.1A.15R Number of Onsite Construction Equipment and Motor Vehicles

Number of Onsite Equipment for Block 1 Construction

Onsite Equipment	Number per Month [a]																													
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Water Truck	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Excavator	2	2	2	2	2	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grader	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Cranes [b]	0	0	0	2	2	2	4	4	5	5	4	4	5	5	4	4	4	4	2	2	2	2	2	2	0	0	0	0	0	0
Tractor/Loader/Backhoe [c]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0
Rubber Tired Loader [d]	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
Crawler Tractor [e]	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressor	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1
Forklift	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1
Roller [f]	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Other General Industrial Equipment [g]	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

[a] Equipment counts taken from 'HBEP Equipment Usage 1.21.13.xls'.

[b] Numbers presented for Cranes includes the equipment counts for the 75 Ton Hydraulic Crane, the 35 Ton Hydraulic Crane, the Heavy Lift Lattice Boom Main Crane, the Heavy Lift Lattice Boom Tail Crane, and the Heavy Lift Gantry Crane.

[c] Numbers presented for Tractor/Loader/Backhoe includes the equipment counts for the Backhoe.

[d] Numbers presented for Rubber Tired Loader includes the equipment counts for the Front End Loader.

[e] Numbers presented for Crawler Tractor includes the equipment counts for the Dozer

[f] Numbers presented for Roller includes the equipment counts for the Compactor.

[g] Numbers presented for Other General Industrial Equipment includes the equipment counts for the Pile Driver.

Number of Onsite Motor Vehicles for Block 1 Construction

Vehicle Type	Number per Month [a]																													
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Onsite Pick-up Truck	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Onsite Stake Truck	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Onsite Dump Truck	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0

Notes:

[a] Vehicle counts taken from 'HBEP Equipment Usage 1.21.13.xls'.

Table 5.1A.16R Construction Equipment Exhaust Criteria Pollutant Emission Factors

Construction Equipment Emission Factors for Block 1 Construction

Equipment [a]	Percent Usage [b]	Hours per Month [c]	Horsepower [d]	Load Factor [d]	Emission Factors (g/bhp-hr) [e]												Fuel Consumption (gallons/hour) [f]
					CO	VOC	NO_X 2016	NO_X 2017	NO_X 2018	SO_X	PM_{10} 2016	PM_{10} 2017	PM_{10} 2018	$PM_{2.5}$ 2016	$PM_{2.5}$ 2017	$PM_{2.5}$ 2018	
Water Truck [g]	50%	115	381	0.57	1.209	0.387	2.613	2.302	2.025	0.005	0.093	0.082	0.073	0.093	0.082	0.073	12.33
Excavator	85%	196	157	0.57	3.366	0.492	3.323	2.928	2.567	0.006	0.179	0.155	0.133	0.179	0.155	0.133	5.11
Grader	80%	184	162	0.61	3.352	0.557	3.955	3.568	3.211	0.006	0.218	0.196	0.176	0.218	0.196	0.176	5.65
Cranes	65%	150	208	0.43	1.334	0.443	3.818	3.462	3.125	0.006	0.131	0.118	0.107	0.131	0.118	0.107	5.08
Tractor/Loader/Backhoe	55%	127	75	0.55	3.800	0.576	3.874	3.533	3.226	0.006	0.278	0.237	0.201	0.278	0.237	0.201	2.36
Rubber Tired Loader	55%	127	87	0.54	3.919	0.745	4.657	4.302	3.975	0.006	0.373	0.333	0.296	0.373	0.333	0.296	2.69
Crawler Tractor	80%	184	82	0.64	4.092	0.926	5.508	5.156	4.826	0.006	0.460	0.422	0.386	0.460	0.422	0.386	3.01
Air Compressor	80%	184	78	0.48	3.804	0.744	4.790	4.412	4.050	0.006	0.397	0.350	0.304	0.397	0.350	0.304	2.15
Forklift	75%	173	149	0.30	3.362	0.456	3.062	2.696	2.338	0.006	0.166	0.145	0.124	0.166	0.145	0.124	2.55
Roller	60%	138	84	0.56	3.825	0.766	4.925	4.576	4.249	0.006	0.400	0.364	0.328	0.400	0.364	0.328	2.70
Other General Industrial Equipment	70%	161	150	0.51	3.355	0.580	4.126	3.686	3.277	0.006	0.231	0.204	0.178	0.231	0.204	0.178	4.37

Notes:

[a] Assumed all equipment is fired with diesel fuel, per Section 4.2 of Appendix A of the CalEEMod User's Guide.

[b] Percent Usage assumed typical of power plant construction.

[c] Hours per month calculated based on the following schedule, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Work hours per day: 10
Work days per month: 23

[d] Construction equipment horsepower and load factor taken from Table 3.3 of Appendix D of the CalEEMod User's Guide.

[e] Construction equipment emission factors taken from Table 3.4 of Appendix D of the CalEEMod User's Guide. The emission factors for the year 2016 were used for the construction equipment exhaust emission calculations for CO, VOC, and SOx. The emission factors for year 2016, 2017 and 2018 were used for NOx, PM10, and PM2.5.

[f] Fuel consumption based on consumption in the OFFROAD2007 model for the SCAB in the year 2016; value estimated by dividing the reported consumption (gallons/day) by the reported activity (hours/day).

[g] Horsepower, load factor, and emission factors for Off-Highway Trucks were assumed representative of Water Trucks.

Table 5.1A.17R Onsite and Offsite Motor Vehicle Criteria Pollutant Emission Factors

Vehicle Emission Factors for Block 1 Construction

Vehicle Type	Vehicle Class [a]	Exhaust Emission Factors (g/mile) [b]												Paved Road Emission Factors (g/mile) [c]		Fuel Economy (mpg) [b]
		CO	VOC	SO_X	NO_X 2016	NO_X 2017	NO_X 2018	PM_{10} 2016	PM_{10} 2017	PM_{10} 2018	$PM_{2.5}$ 2016	$PM_{2.5}$ 2017	$PM_{2.5}$ 2018	PM_{10}	$PM_{2.5}$	
Onsite Pick-up Truck	Light-duty Truck	3.508	0.235	0.011	0.327	0.301	0.278	0.123	0.124	0.126	0.101	0.103	0.104	N/A	N/A	7.440
Onsite Stake Truck	Heavy-duty Diesel	10.786	6.276	0.037	18.687	16.645	14.934	1.007	0.843	0.709	0.889	0.738	0.614	N/A	N/A	2.621
Onsite Dump Truck	Heavy-duty Diesel	10.786	6.276	0.037	18.687	16.645	14.934	1.007	0.843	0.709	0.889	0.738	0.614	N/A	N/A	2.621
Offsite Delivery Trucks	Heavy-duty Diesel	2.249	0.453	0.017	6.621	5.842	5.193	0.297	0.270	0.248	0.235	0.211	0.190	0.300	0.075	5.749
Material Hauling Trucks	Heavy/Medium-duty Diesel	1.719	0.290	0.016	5.090	4.528	4.046	0.236	0.220	0.206	0.191	0.176	0.163	0.300	0.075	6.224
Construction Worker Commute	Light-duty Auto/Truck	1.435	0.029	0.004	0.136	0.125	0.114	0.033	0.033	0.033	0.018	0.018	0.018	0.300	0.075	27.325

Notes:

[a] The vehicle classes are represented as follows:

Light-duty Truck: Assumed to be an average of LDT1, All and LDT2, All values.
Heavy-duty Diesel: Assumed to be 100% HHD DSL values, as confirmed in Section 4.5 of Appendix A of the CalEEMod User's Guide.
Heavy/Medium-duty Diesel: 50% HHD DSL and 50% MHD DSL values, per Section 4.5 of Appendix A of the CalEEMod User's Guide.
Light-duty Auto/Truck: 50% LDA, All; 25% LDT1, All; and 25% LDT2, All values, per Section 4.5 of Appendix A of the CalEEMod User's Guide.

[b] Exhaust emission factors and fuel economy from EMFAC2007 for the South Coast Air Basin, calendar year 2016 for CO, VOC, and SOx. Calendar year 2016, 2017 and 2018 were used for NOx, PM10, and PM2.5. A speed of 5 mph was assumed for onsite vehicles; a speed of 40 mph was assumed for offsite vehicles and worker commutes, which is consistent with the CalEEMod defaults. An average temperature of 68°F and humidity of 55% were used per Table B-1 of CT-EMFAC: A Computer Model to Estimate Transportation Project Emissions.

[c] Paved road emission factors calculated using CalEEMod methodology, as described below.

Derivation of Paved Road Emission Factors

Vehicles on Paved Roads

Parameter	PM_{10}	$PM_{2.5}$
Average Weight [a]	2.4	2.4
k [b]	1.0	0.25
sL [a]	0.1	0.1
Emission Factor (g/mile) [c]	0.300	0.075

Notes:

[a] Average Weight and sL taken as the default value from CalEEMod.

[b] k taken from Table 13.2.1-1 of Section 13.2.1 of AP-42.

[c] Emission factor calculated using Equation 1 from Section 13.2.1 of AP-42:

$$\text{Emission Factor (g/mile)} = k\ (\text{g/mile}) \times [sL\ (\text{g/m}^2)]^{0.91} \times [\text{Average Weight (tons)}]^{1.02}$$

Table 5.1A.18R Onsite and Offsite Greenhouse Gas Emission Factors

Greenhouse Gas Emission Factors for Block 1 Construction

Fuel / Category Type	Emission Factor	Emission Factor Units	Emission Factor Source
CO_2 Emission Factors			
Gasoline	8.78	kg CO_2/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.1, May 2008 as updated through January 2012.
Diesel	10.21	kg CO_2/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.1, May 2008 as updated through January 2012.
N_2O Emission Factors			
Gasoline Passenger Car Model Year 2009 [a]	0.0036	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Gasoline Light-duty Truck Model Year 2009 [a]	0.0066	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Heavy-duty Truck Model Year 1960 - 2009 [a]	0.0048	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Off-road Vehicle	0.26	g N_2O/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.7, May 2008 as updated through January 2012.
CH_4 Emission Factors			
Gasoline Passenger Car Model Year 2009 [a]	0.0173	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Gasoline Light-duty Truck Model Year 2009 [a]	0.0163	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Heavy-duty Truck Model Year 1960 - 2009 [a]	0.0051	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Off-road Vehicle	0.58	g CH_4/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.7, May 2008 as updated through January 2012.

Notes:

[a] Model Year 2009 was the most recent year of emission factors available. As a result, it was assumed representative of vehicles used for this project.

Table 5.1A.19R Onsite Construction Equipment Exhaust Emissions

Construction Equipment CO Emissions from Block 2 Construction

	CO Emisisons (lbs/month)																											
Onsite Equipment	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Water Truck	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09	64.09
Excavator	129.67	259.34	259.34	259.34	259.34	259.34	129.67	129.67	129.67	129.67	129.67	129.67	129.67	129.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	134.09	268.17	268.17	134.09	134.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	134.09	134.09
Cranes	0.00	0.00	0.00	0.00	75.29	75.29	150.57	150.57	150.57	188.22	150.57	150.57	225.86	188.22	150.57	150.57	150.57	150.57	75.29	75.29	75.29	75.29	75.29	75.29	75.29	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.00	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30	43.30
Rubber Tired Loader	0.00	101.49	101.49	50.74	50.74	50.74	50.74	50.74	50.74	50.74	50.74	50.74	50.74	50.74	50.74	50.74	50.74	50.74	50.74	50.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	86.00	172.01	172.01	86.00	86.00	86.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	0.00	56.86	56.86	56.86	56.86	113.72	113.72	113.72	113.72	113.72	113.72	113.72	113.72	113.72	113.72	113.72	113.72	113.72	113.72	56.86	56.86	56.86	56.86	56.86	56.86	56.86	56.86	56.86
Forklift	0.00	114.40	114.40	114.40	114.40	114.40	114.40	114.40	114.40	114.40	114.40	114.40	114.40	114.40	114.40	114.40	114.40	114.40	114.40	57.20	57.20	57.20	57.20	57.20	57.20	57.20	57.20	57.20
Roller	54.02	108.05	108.05	54.02	54.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.02	54.02
Other General Industrial Equipment	0.00	91.04	91.04	91.04	91.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**467.88**	**1,278.76**	**1,278.76**	**953.90**	**1,029.19**	**806.89**	**666.50**	**666.50**	**666.50**	**704.15**	**666.50**	**666.50**	**741.79**	**704.15**	**536.83**	**536.83**	**536.83**	**536.83**	**461.54**	**347.48**	**296.74**	**296.74**	**296.74**	**296.74**	**296.74**	**221.45**	**409.56**	**409.56**
Onsite Total (lbs/day) [a]	**20.34**	**55.60**	**55.60**	**41.47**	**44.75**	**35.08**	**28.98**	**28.98**	**28.98**	**30.62**	**28.98**	**28.98**	**32.25**	**30.62**	**23.34**	**23.34**	**23.34**	**23.34**	**20.07**	**15.11**	**12.90**	**12.90**	**12.90**	**12.90**	**12.90**	**9.63**	**17.81**	**17.81**
Offsite Total (tons/year)	**5.06**																											

Construction Equipment VOC Emissions from Block 2 Construction

	VOC Emisisons (lbs/month)																											
Onsite Equipment	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Water Truck	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00	19.00
Excavator	16.08	32.17	32.17	32.17	32.17	32.17	16.08	16.08	16.08	16.08	16.08	16.08	16.08	16.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	19.44	38.88	38.88	19.44	19.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.44	19.44
Cranes	0.00	0.00	0.00	0.00	23.46	23.46	46.93	46.93	46.93	58.66	46.93	46.93	70.39	58.66	46.93	46.93	46.93	46.93	23.46	23.46	23.46	23.46	23.46	23.46	23.46	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.00	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49
Rubber Tired Loader	0.00	16.67	16.67	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	17.37	34.74	34.74	17.37	17.37	17.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	0.00	9.16	9.16	9.16	9.16	18.32	18.32	18.32	18.32	18.32	18.32	18.32	18.32	18.32	18.32	18.32	18.32	18.32	18.32	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16	9.16
Forklift	0.00	13.46	13.46	13.46	13.46	13.46	13.46	13.46	13.46	13.46	13.46	13.46	13.46	13.46	13.46	13.46	13.46	13.46	13.46	6.73	6.73	6.73	6.73	6.73	6.73	6.73	6.73	6.73
Roller	9.37	18.75	18.75	9.37	9.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.37	9.37
Other General Industrial Equipment	0.00	13.25	13.25	13.25	13.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**81.27**	**201.56**	**201.56**	**147.04**	**170.51**	**137.60**	**127.61**	**127.61**	**127.61**	**139.34**	**127.61**	**127.61**	**151.07**	**139.34**	**111.52**	**111.52**	**111.52**	**111.52**	**88.06**	**72.17**	**63.84**	**63.84**	**63.84**	**63.84**	**63.84**	**40.37**	**69.19**	**69.19**
Onsite Total (lbs/day) [a]	**3.53**	**8.76**	**8.76**	**6.39**	**7.41**	**5.98**	**5.55**	**5.55**	**5.55**	**6.06**	**5.55**	**5.55**	**6.57**	**6.06**	**4.85**	**4.85**	**4.85**	**4.85**	**3.83**	**3.14**	**2.78**	**2.78**	**2.78**	**2.78**	**2.78**	**1.76**	**3.01**	**3.01**
Offsite Total (tons/year)	**0.89**																											

Construction Equipment NOx Emissions from Block 2 Construction

	NOx Emissions (lbs/month)																											
Onsite Equipment	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Water Truck	111.49	111.49	111.49	111.49	111.49	111.49	111.49	111.49	111.49	111.49	97.95	97.95	97.95	97.95	97.95	97.95	97.95	97.95	97.95	97.95	97.95	97.95	85.95	85.95	85.95	85.95	85.95	85.95
Excavator	99.01	198.02	198.02	198.02	198.02	198.02	99.01	99.01	99.01	99.01	86.47	86.47	86.47	86.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	128.72	257.43	257.43	128.72	128.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	103.34	103.34
Cranes	0.00	0.00	0.00	0.00	184.24	184.24	368.48	368.48	368.48	460.60	330.98	330.98	496.47	413.73	330.98	330.98	330.98	330.98	165.49	165.49	165.49	165.49	147.80	147.80	147.80	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.00	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	37.11	33.95	33.95	33.95	33.95	33.95	33.95	33.95	33.95	33.95	33.95	33.95	33.95	31.16	31.16	31.16	31.16	31.16	31.16
Rubber Tired Loader	0.00	104.16	104.16	52.08	52.08	52.08	52.08	52.08	52.08	52.08	48.18	48.18	48.18	48.18	48.18	48.18	48.18	48.18	48.18	48.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	102.74	205.47	205.47	102.74	102.74	102.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	0.00	61.51	61.51	61.51	61.51	123.02	123.02	123.02	123.02	123.02	112.57	112.57	112.57	112.57	112.57	112.57	112.57	112.57	112.57	56.28	56.28	56.28	51.64	51.64	51.64	51.64	51.64	51.64
Forklift	0.00	79.49	79.49	79.49	79.49	79.49	79.49	79.49	79.49	79.49	69.56	69.56	69.56	69.56	69.56	69.56	69.56	69.56	69.56	34.78	34.78	34.78	30.29	30.29	30.29	30.29	30.29	30.29
Roller	60.81	121.62	121.62	60.81	60.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.38	52.38
Other General Industrial Equipment	0.00	88.98	88.98	88.98	88.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**502.76**	**1,265.28**	**1,265.28**	**920.94**	**1,105.18**	**888.18**	**870.67**	**870.67**	**870.67**	**962.79**	**779.65**	**779.65**	**945.14**	**862.40**	**693.18**	**693.18**	**693.18**	**693.18**	**527.69**	**436.63**	**388.45**	**388.45**	**346.84**	**346.84**	**346.84**	**199.04**	**354.76**	**354.76**
Onsite Total (lbs/day) [a]	**21.86**	**55.01**	**55.01**	**40.04**	**48.05**	**38.62**	**37.86**	**37.86**	**37.86**	**41.86**	**33.90**	**33.90**	**41.09**	**37.50**	**30.14**	**30.14**	**30.14**	**30.14**	**22.94**	**18.98**	**16.89**	**16.89**	**15.08**	**15.08**	**15.08**	**8.65**	**15.42**	**15.42**
Offsite Total (tons/year)	**5.76**																											

Table 5.1A.19R Onsite Construction Equipment Exhaust Emissions

Construction Equipment SOx Emissions from Block 2 Construction

	SOx Emissions (lbs/month)																										
Onsite Equipment	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Water Truck	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Excavator	0.23	0.46	0.46	0.46	0.46	0.46	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	0.24	0.48	0.48	0.24	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.24
Cranes	0.00	0.00	0.00	0.00	0.35	0.35	0.71	0.71	0.71	0.88	0.71	0.71	1.06	0.88	0.71	0.71	0.71	0.71	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.00	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Rubber Tired Loader	0.00	0.16	0.16	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	0.13	0.26	0.26	0.13	0.13	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	0.00	0.09	0.09	0.09	0.09	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
Forklift	0.00	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Roller	0.09	0.17	0.17	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.09
Other General Industrial Equipment	0.00	0.16	0.16	0.16	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**0.96**	**2.33**	**2.33**	**1.80**	**2.15**	**1.75**	**1.75**	**1.75**	**1.75**	**1.92**	**1.75**	**1.75**	**2.10**	**1.92**	**1.52**	**1.52**	**1.52**	**1.52**	**1.16**	**0.97**	**0.89**	**0.89**	**0.89**	**0.89**	**0.89**	**0.54**	**0.86**	**0.86**
Onsite Total (lbs/day) [a]	**0.04**	**0.10**	**0.10**	**0.08**	**0.09**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.09**	**0.08**	**0.07**	**0.07**	**0.07**	**0.07**	**0.05**	**0.04**	**0.04**	**0.04**	**0.04**	**0.04**	**0.04**	**0.02**	**0.04**	**0.04**
Offsite Total (tons/year)	**0.01**																											

Construction Equipment PM_{10} Emissions from Block 2 Construction

	PM_{10} Emissions (lbs/month)																										
Onsite Equipment	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Water Truck	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.14	3.14	3.14	3.14	3.14	3.14
Excavator	5.13	10.26	10.26	10.26	10.26	10.26	5.13	5.13	5.13	5.13	4.40	4.40	4.40	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	7.06	14.11	14.11	7.06	7.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.57	5.57
Cranes	0.00	0.00	0.00	0.00	6.31	6.31	12.62	12.62	12.62	15.77	11.32	11.32	16.98	14.15	11.32	11.32	11.32	11.32	5.66	5.66	5.66	5.66	5.07	5.07	5.07	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.00	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.62	1.62	1.62	1.62	1.62	1.62
Rubber Tired Loader	0.00	7.76	7.76	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	8.22	16.43	16.43	8.22	8.22	8.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	0.00	4.62	4.62	4.62	4.62	9.23	9.23	9.23	9.23	9.23	7.90	7.90	7.90	7.90	7.90	7.90	7.90	7.90	7.90	3.95	3.95	3.95	3.40	3.40	3.40	3.40	3.40	3.40
Forklift	0.00	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	1.78	1.78	1.78	1.48	1.48	1.48	1.48	1.48	1.48
Roller	4.69	9.39	9.39	4.69	4.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.72	3.72
Other General Industrial Equipment	0.00	4.83	4.83	4.83	4.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**29.12**	**77.95**	**77.95**	**54.10**	**60.41**	**48.44**	**41.41**	**41.41**	**41.41**	**44.56**	**36.07**	**36.07**	**41.73**	**38.90**	**31.67**	**31.67**	**31.67**	**31.67**	**26.01**	**20.28**	**16.86**	**16.86**	**14.71**	**14.71**	**14.71**	**9.64**	**18.93**	**18.93**
Onsite Total (lbs/day) [a]	**1.27**	**3.39**	**3.39**	**2.35**	**2.63**	**2.11**	**1.80**	**1.80**	**1.80**	**1.94**	**1.57**	**1.57**	**1.81**	**1.69**	**1.38**	**1.38**	**1.38**	**1.38**	**1.13**	**0.88**	**0.73**	**0.73**	**0.64**	**0.64**	**0.64**	**0.42**	**0.82**	**0.82**
Offsite Total (tons/year)	**0.30**																											

Construction Equipment $PM_{2.5}$ Emissions from Block 2 Construction

	$PM_{2.5}$ Emissions (lbs/month)																										
Onsite Equipment	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Water Truck	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.52	3.14	3.14	3.14	3.14	3.14	3.14
Excavator	5.13	10.26	10.26	10.26	10.26	10.26	5.13	5.13	5.13	5.13	4.40	4.40	4.40	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	7.06	14.11	14.11	7.06	7.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.57	5.57
Cranes	0.00	0.00	0.00	0.00	6.31	6.31	12.62	12.62	12.62	15.77	11.32	11.32	16.98	14.15	11.32	11.32	11.32	11.32	5.66	5.66	5.66	5.66	5.07	5.07	5.07	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.00	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	2.31	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.62	1.62	1.62	1.62	1.62	1.62
Rubber Tired Loader	0.00	7.76	7.76	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	8.22	16.43	16.43	8.22	8.22	8.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	0.00	4.62	4.62	4.62	4.62	9.23	9.23	9.23	9.23	9.23	7.90	7.90	7.90	7.90	7.90	7.90	7.90	7.90	7.90	3.95	3.95	3.95	3.40	3.40	3.40	3.40	3.40	3.40
Forklift	0.00	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	4.22	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	1.78	1.78	1.78	1.48	1.48	1.48	1.48	1.48	1.48
Roller	4.69	9.39	9.39	4.69	4.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.72	3.72
Other General Industrial Equipment	0.00	4.83	4.83	4.83	4.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**29.12**	**77.95**	**77.95**	**54.10**	**60.41**	**48.44**	**41.41**	**41.41**	**41.41**	**44.56**	**36.07**	**36.07**	**41.73**	**38.90**	**31.67**	**31.67**	**31.67**	**31.67**	**26.01**	**20.28**	**16.86**	**16.86**	**14.71**	**14.71**	**14.71**	**9.64**	**18.93**	**18.93**
Onsite Total (lbs/day) [a]	**1.27**	**3.39**	**3.39**	**2.35**	**2.63**	**2.11**	**1.80**	**1.80**	**1.80**	**1.94**	**1.57**	**1.57**	**1.81**	**1.69**	**1.38**	**1.38**	**1.38**	**1.38**	**1.13**	**0.88**	**0.73**	**0.73**	**0.64**	**0.64**	**0.64**	**0.42**	**0.82**	**0.82**
Offsite Total (tons/year)	**0.30**																											

Table 5.1A.19R Onsite Construction Equipment Exhaust Emissions

Construction Equipment CO_2 Emissions from Block 2 Construction

	CO_2 Emissions (metric tons/month)																											
Onsite Equipment	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Water Truck	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47
Excavator	10.20	20.40	20.40	20.40	20.40	20.40	10.20	10.20	10.20	10.20	10.20	10.20	10.20	10.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grader	10.61	21.23	21.23	10.61	10.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.61	10.61
Cranes	0.00	0.00	0.00	0.00	15.51	15.51	31.02	31.02	31.02	38.77	31.02	31.02	46.52	38.77	31.02	31.02	31.02	31.02	15.51	15.51	15.51	15.51	15.51	15.51	15.51	0.00	0.00	0.00
Tractor/Loader/Backhoe	0.00	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05
Rubber Tired Loader	0.00	6.95	6.95	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Crawler Tractor	5.65	11.31	11.31	5.65	5.65	5.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	0.00	4.02	4.02	4.02	4.02	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
Forklift	0.00	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49	4.49
Roller	3.79	7.58	7.58	3.79	3.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.79	3.79
Other General Industrial Equipment	0.00	7.18	7.18	7.18	7.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (metric tons/month)	**44.72**	**105.17**	**105.17**	**81.63**	**97.14**	**79.57**	**79.23**	**79.23**	**79.23**	**86.98**	**79.23**	**79.23**	**94.74**	**86.98**	**69.03**	**69.03**	**69.03**	**69.03**	**53.52**	**45.01**	**41.53**	**41.53**	**41.53**	**41.53**	**41.53**	**26.03**	**40.43**	**40.43**
Onsite Total (metric tons/day) [a]	**1.94**	**4.57**	**4.57**	**3.55**	**4.22**	**3.46**	**3.44**	**3.44**	**3.44**	**3.78**	**3.44**	**3.44**	**4.12**	**3.78**	**3.00**	**3.00**	**3.00**	**3.00**	**2.33**	**1.96**	**1.81**	**1.81**	**1.81**	**1.81**	**1.81**	**1.13**	**1.76**	**1.76**
Onsite Total (metric tons/year)	**1,046.53**																											

Construction Equipment N_2O Emissions from Block 2 Construction

	N_2O Emissions (metric tons/month)																											
Onsite Equipment	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Water Truck	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004
Excavator	0.0003	0.0005	0.0005	0.0005	0.0005	0.0005	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Grader	0.0003	0.0005	0.0005	0.0003	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0003	0.0003
Cranes	0.0000	0.0000	0.0000	0.0000	0.0004	0.0004	0.0008	0.0008	0.0008	0.0010	0.0008	0.0008	0.0012	0.0010	0.0008	0.0008	0.0008	0.0008	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0000	0.0000	0.0000
Tractor/Loader/Backhoe	0.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Rubber Tired Loader	0.0000	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Crawler Tractor	0.0001	0.0003	0.0003	0.0001	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Air Compressor	0.0000	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Forklift	0.0000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Roller	0.0001	0.0002	0.0002	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0001
Other General Industrial Equipment	0.0000	0.0002	0.0002	0.0002	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Onsite Total (metric tons/month)	**0.0011**	**0.0027**	**0.0027**	**0.0021**	**0.0025**	**0.0020**	**0.0020**	**0.0020**	**0.0020**	**0.0022**	**0.0020**	**0.0020**	**0.0024**	**0.0022**	**0.0018**	**0.0018**	**0.0018**	**0.0018**	**0.0014**	**0.0011**	**0.0011**	**0.0011**	**0.0011**	**0.0011**	**0.0011**	**0.0007**	**0.0010**	**0.0010**
Onsite Total (metric tons/day) [a]	**0.0000**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**
Onsite Total (metric tons/year)	**0.0267**																											

Construction Equipment CH_4 Emissions from Block 2 Construction

	CH_4 Emissions (metric tons/month)																											
Onsite Equipment	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Water Truck	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
Excavator	0.0006	0.0012	0.0012	0.0012	0.0012	0.0012	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Grader	0.0006	0.0012	0.0012	0.0006	0.0006	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0006	0.0006
Cranes	0.0000	0.0000	0.0000	0.0000	0.0009	0.0009	0.0018	0.0018	0.0018	0.0022	0.0018	0.0018	0.0026	0.0022	0.0018	0.0018	0.0018	0.0018	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0000	0.0000	0.0000
Tractor/Loader/Backhoe	0.0000	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Rubber Tired Loader	0.0000	0.0004	0.0004	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Crawler Tractor	0.0003	0.0006	0.0006	0.0003	0.0003	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Air Compressor	0.0000	0.0002	0.0002	0.0002	0.0002	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Forklift	0.0000	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
Roller	0.0002	0.0004	0.0004	0.0002	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002	0.0002
Other General Industrial Equipment	0.0000	0.0004	0.0004	0.0004	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Onsite Total (metric tons/month)	**0.0025**	**0.0060**	**0.0060**	**0.0046**	**0.0055**	**0.0045**	**0.0045**	**0.0045**	**0.0045**	**0.0049**	**0.0045**	**0.0045**	**0.0054**	**0.0049**	**0.0039**	**0.0039**	**0.0039**	**0.0039**	**0.0030**	**0.0026**	**0.0024**	**0.0024**	**0.0024**	**0.0024**	**0.0024**	**0.0015**	**0.0023**	**0.0023**
Onsite Total (metric tons/day) [a]	**0.0001**	**0.0003**	**0.0003**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**
Onsite Total (metric tons/year)	**0.0595**																											

Notes:

[a] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls', the days per month are as follows: 23

Table 5.1A.20R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle CO Emissions from Block 2 Construction

	CO Emissions (lbs/day)																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.01	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Onsite Stake Truck	0.04	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Onsite Dump Truck	0.02	0.04	0.04	0.04	0.04	0.04	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.07**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.15**	**0.13**	**0.13**	**0.13**	**0.13**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.07**	**0.07**	**0.07**
	CO Emissions (lbs/month) [a]																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.30	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
Onsite Stake Truck	0.91	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Onsite Dump Truck	0.46	0.91	0.91	0.91	0.91	0.91	0.91	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.00	0.00	0.00
Onsite Total (lbs/month)	**1.67**	**3.34**	**3.34**	**3.34**	**3.34**	**3.34**	**3.34**	**2.88**	**2.88**	**2.88**	**2.88**	**1.97**	**1.97**	**1.97**	**1.97**	**1.97**	**1.97**	**1.97**	**1.97**	**1.97**	**1.97**	**1.97**	**1.97**	**1.97**	**1.97**	**1.51**	**1.51**	**1.51**
Offsite Total (tons/year)	**0.02**																										

Onsite Construction Vehicle VOC Emissions from Block 2 Construction

	VOC Emisisons (lbs/day)																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Stake Truck	0.02	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Onsite Dump Truck	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.035**	**0.069**	**0.069**	**0.069**	**0.069**	**0.069**	**0.069**	**0.058**	**0.058**	**0.058**	**0.058**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.035**	**0.024**	**0.024**	**0.024**
	VOC Emissions (lbs/month) [a]																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.02	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Onsite Stake Truck	0.52	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	1.03	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
Onsite Dump Truck	0.26	0.52	0.52	0.52	0.52	0.52	0.52	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.00	0.00	0.00
Onsite Total (lbs/month)	**0.79**	**1.59**	**1.59**	**1.59**	**1.59**	**1.59**	**1.59**	**1.33**	**1.33**	**1.33**	**1.33**	**0.81**	**0.81**	**0.81**	**0.81**	**0.81**	**0.81**	**0.81**	**0.81**	**0.81**	**0.81**	**0.81**	**0.81**	**0.81**	**0.81**	**0.55**	**0.55**	**0.55**
Offsite Total (tons/year)	**0.01**																										

Onsite Construction Vehicle SOx Emissions from Block 2 Construction

	SOx Emissions (lbs/day)																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.00005	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010
Onsite Stake Truck	0.00016	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016
Onsite Dump Truck	0.00008	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00000	0.00000	0.00000
Onsite Total (lbs/day)	**0.00029**	**0.00059**	**0.00059**	**0.00059**	**0.00059**	**0.00059**	**0.00059**	**0.00050**	**0.00050**	**0.00050**	**0.00050**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00034**	**0.00026**	**0.00026**	**0.00026**
	SOx Emissions (lbs/month) [a]																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.0011	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022
Onsite Stake Truck	0.0038	0.0075	0.0075	0.0075	0.0075	0.0075	0.0075	0.0075	0.0075	0.0075	0.0075	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038
Onsite Dump Truck	0.0019	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0000	0.0000	0.0000
Onsite Total (lbs/month)	**0.0067**	**0.0135**	**0.0135**	**0.0135**	**0.0135**	**0.0135**	**0.0135**	**0.0116**	**0.0116**	**0.0116**	**0.0116**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0079**	**0.0060**	**0.0060**	**0.0060**
Offsite Total (tons/year)	**0.0001**																										

Onsite Construction Vehicle NOx Emissions from Block 2 Construction

	NOx Emissions (lbs/day)																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Stake Truck	0.07	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05
Onsite Dump Truck	0.03	0.07	0.07	0.07	0.07	0.07	0.07	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.10**	**0.20**	**0.20**	**0.20**	**0.20**	**0.20**	**0.20**	**0.17**	**0.17**	**0.17**	**0.15**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.08**	**0.08**	**0.08**	**0.06**	**0.06**	**0.06**
	NOx Emissions (lbs/month) [a]																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.03	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Onsite Stake Truck	1.51	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	2.74	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.25	1.25	1.25	1.25	1.25	1.25
Onsite Dump Truck	0.76	1.51	1.51	1.51	1.51	1.51	1.51	0.76	0.76	0.76	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.62	0.62	0.62	0.00	0.00	0.00
Onsite Total (lbs/month)	**2.30**	**4.60**	**4.60**	**4.60**	**4.60**	**4.60**	**4.60**	**3.84**	**3.84**	**3.84**	**3.47**	**2.11**	**2.11**	**2.11**	**2.11**	**2.11**	**2.11**	**2.11**	**2.11**	**2.11**	**2.11**	**2.11**	**1.92**	**1.92**	**1.92**	**1.29**	**1.29**	**1.29**
Offsite Total (tons/year)	**0.02**																										

Onsite Construction Vehicle PM_{10} Emissions from Block 2 Construction

	PM_{10} Emissions (lbs/day)																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.0006	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011
Onsite Stake Truck	0.0031	0.0063	0.0063	0.0063	0.0063	0.0063	0.0063	0.0063	0.0063	0.0063	0.0053	0.0026	0.0026	0.0026	0.0026	0.0026	0.0026	0.0026	0.0026	0.0026	0.0026	0.0026	0.0022	0.0022	0.0022	0.0022	0.0022	0.0022
Onsite Dump Truck	0.0016	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031	0.0016	0.0016	0.0016	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0011	0.0011	0.0011	0.0000	0.0000	0.0000
Onsite Total (lbs/day)	**0.0052**	**0.0105**	**0.0105**	**0.0105**	**0.0105**	**0.0105**	**0.0105**	**0.0089**	**0.0089**	**0.0089**	**0.0077**	**0.0051**	**0.0051**	**0.0051**	**0.0051**	**0.0051**	**0.0051**	**0.0051**	**0.0051**	**0.0051**	**0.0051**	**0.0051**	**0.0045**	**0.0045**	**0.0045**	**0.0034**	**0.0034**	**0.0034**
	PM_{10} Emissions (lbs/month) [a]																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.01	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Onsite Stake Truck	0.07	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.12	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05
Onsite Dump Truck	0.04	0.07	0.07	0.07	0.07	0.07	0.07	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.00	0.00	0.00
Onsite Total (lbs/month)	**0.12**	**0.24**	**0.24**	**0.24**	**0.24**	**0.24**	**0.24**	**0.21**	**0.21**	**0.21**	**0.18**	**0.12**	**0.12**	**0.12**	**0.12**	**0.12**	**0.12**	**0.12**	**0.12**	**0.12**	**0.12**	**0.12**	**0.10**	**0.10**	**0.10**	**0.08**	**0.08**	**0.08**
Offsite Total (tons/year)	**0.00**																										

Table 5.1A.20R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle $PM_{2.5}$ Emissions from Block 2 Construction

	$PM_{2.5}$ Emissions (lbs/day)																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.0005	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009
Onsite Stake Truck	0.0027	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.0054	0.0045	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019
Onsite Dump Truck	0.0014	0.0027	0.0027	0.0027	0.0027	0.0027	0.0027	0.0014	0.0014	0.0014	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0009	0.0009	0.0009	0.0000	0.0000	0.0000
Onsite Total (lbs/day)	**0.0045**	**0.0090**	**0.0090**	**0.0090**	**0.0090**	**0.0090**	**0.0090**	**0.0077**	**0.0077**	**0.0077**	**0.0066**	**0.0043**	**0.0043**	**0.0043**	**0.0043**	**0.0043**	**0.0043**	**0.0043**	**0.0043**	**0.0043**	**0.0043**	**0.0043**	**0.0038**	**0.0038**	**0.0038**	**0.0028**	**0.0028**	**0.0028**

	$PM_{2.5}$ Emissions (lbs/month) [a]																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.010	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
Onsite Stake Truck	0.062	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.104	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.043	0.043	0.043	0.043	0.043	0.043
Onsite Dump Truck	0.031	0.062	0.062	0.062	0.062	0.062	0.062	0.031	0.031	0.031	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.022	0.022	0.022	0.000	0.000	0.000
Onsite Total (lbs/month)	**0.104**	**0.208**	**0.208**	**0.208**	**0.208**	**0.208**	**0.208**	**0.177**	**0.177**	**0.177**	**0.151**	**0.099**	**0.099**	**0.099**	**0.099**	**0.099**	**0.099**	**0.099**	**0.099**	**0.099**	**0.099**	**0.099**	**0.086**	**0.086**	**0.086**	**0.065**	**0.065**	**0.065**
Offsite Total (tons/year)	**0.001**																											

Onsite Construction Vehicle CO_2 Emissions from Block 2 Construction

	CO_2 Emissions (metric tons/day)																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.002	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Onsite Stake Truck	0.008	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Onsite Dump Truck	0.004	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.000	0.000	0.000
Onsite Total (metric tons/day)	**0.014**	**0.028**	**0.028**	**0.028**	**0.028**	**0.028**	**0.028**	**0.028**	**0.024**	**0.024**	**0.024**	**0.024**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.016**	**0.013**	**0.013**	**0.013**

	CO_2 Emissions (metric tons/month) [a]																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.05	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Onsite Stake Truck	0.18	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Onsite Dump Truck	0.09	0.18	0.18	0.18	0.18	0.18	0.18	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.00	0.00	0.00
Onsite Total (metric tons/month)	**0.32**	**0.65**	**0.65**	**0.65**	**0.65**	**0.65**	**0.65**	**0.56**	**0.56**	**0.56**	**0.56**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.38**	**0.29**	**0.29**	**0.29**
Onsite Total (metric tons/year)	**6.86**																											

Onsite Construction Vehicle N_2O Emissions from Block 2 Construction

	N_2O Emissions (metric tons/day)																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.000000013	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026	0.000000026
Onsite Stake Truck	0.000000010	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010
Onsite Dump Truck	0.000000005	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000000	0.000000000	0.000000000
Onsite Total (metric tons/day)	**0.000000028**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000055**	**0.000000050**	**0.000000050**	**0.000000050**	**0.000000050**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000041**	**0.000000036**	**0.000000036**	**0.000000036**

	N_2O Emissions (metric tons/month) [a]																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.0000003	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006	0.0000006
Onsite Stake Truck	0.0000002	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002
Onsite Dump Truck	0.0000001	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000000	0.0000000	0.0000000
Onsite Total (metric tons/month)	**0.0000006**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000013**	**0.0000012**	**0.0000012**	**0.0000012**	**0.0000012**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000009**	**0.0000008**	**0.0000008**	**0.0000008**
Onsite Total (metric tons/year)	**0.0000141**																											

Onsite Construction Vehicle CH_4 Emissions from Block 2 Construction

	CH_4 Emissions (metric tons/day)																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.000000033	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065	0.000000065
Onsite Stake Truck	0.000000010	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010
Onsite Dump Truck	0.000000005	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000000	0.000000000	0.000000000
Onsite Total (metric tons/day)	**0.000000048**	**0.000000096**	**0.000000096**	**0.000000096**	**0.000000096**	**0.000000096**	**0.000000096**	**0.000000091**	**0.000000091**	**0.000000091**	**0.000000091**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000081**	**0.000000075**	**0.000000075**	**0.000000075**

	CH_4 Emissions (metric tons/month) [a]																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Onsite Pick-up Truck	0.0000007	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015	0.0000015
Onsite Stake Truck	0.0000002	0.0000005	0.0000005	0.0000005	0.0000005	0.0000005	0.0000005	0.0000005	0.0000005	0.0000005	0.0000005	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002
Onsite Dump Truck	0.0000001	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000000	0.0000000	0.0000000
Onsite Total (metric tons/month)	**0.0000011**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000022**	**0.0000021**	**0.0000021**	**0.0000021**	**0.0000021**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000019**	**0.0000017**	**0.0000017**	**0.0000017**
Onsite Total (metric tons/year)	**0.0000253**																											

Notes:

[a] The days per month are per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls', as presented on the 'Fugitive Dust' tab.

Table 5.1A.21R Onsite Construction Fugitive Dust Emissions

Grading and Bulldozing Activity Levels for Block 2 Construction

Source	Monthly Activity Levels																										
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Onsite Disturbance (acres) [a]	0.66	0.66	0.66	0.66	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0.66	0.66
Bulldozer Operation (hours) [b]	230	460	460	230	230	230	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite Disturbance (acres) [c]	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33

Notes:
[a] Estimated a total of 4.6 acres is disturbed during Block 2 Construction as estimated based on data provided by H. Larios/PEC on 3/23/12; assumed this disturbance was equally distributed amongst the months in which graders are utilized.
[b] Bulldozer Operation calculated based on the number of equipment and the hours of operation per month, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls':
Hours per Day: 10
Days per Month: 23
[c] Estimated a total of 16 acres is disturbed at Alamitos for a laydown area during Block 1 and Block 2 Construction and assumed this disturbance was equally distributed amongst the construction activity (48 months total). Also assumed only fugitive dust from grading would occur in this location (i.e., not bulldozing).

Onsite Construction Vehicle Fugitive PM_{10} Emissions from Block 2 Construction

Vehicle Type	Fugitive PM_{10} Emissions (lbs/day) [a]																										
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Onsite Pick-up Truck	2.13	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26
Onsite Stake Truck	2.13	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	4.26	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13
Onsite Dump Truck	1.07	2.13	2.13	2.13	2.13	2.13	2.13	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	0.00	0.00	0.00
Onsite Total (lbs/day)	**5.33**	**10.66**	**10.66**	**10.66**	**10.66**	**10.66**	**10.66**	**9.59**	**9.59**	**9.59**	**9.59**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**6.39**	**6.39**	**6.39**
Vehicle Type	**Fugitive PM_{10} Emissions (lbs/month)**																										
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Onsite Pick-up Truck	49.03	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05
Onsite Stake Truck	49.03	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	98.05	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03
Onsite Dump Truck	24.51	49.03	49.03	49.03	49.03	49.03	49.03	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	0.00	0.00	0.00
Onsite Total (lbs/month)	**122.57**	**245.14**	**245.14**	**245.14**	**245.14**	**245.14**	**245.14**	**220.62**	**220.62**	**220.62**	**220.62**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**147.08**	**147.08**	**147.08**
Offsite Total (tons/year)	**1.35**																										

Notes:
[a] Emissions based on highest (controlled) unpaved road emission factor for PM_{10}.

Onsite Construction Vehicle Fugitive $PM_{2.5}$ Emissions from Block 2 Construction

Vehicle Type	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a]																										
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Onsite Pick-up Truck	0.21	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Onsite Stake Truck	0.21	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Onsite Dump Truck	0.11	0.21	0.21	0.21	0.21	0.21	0.21	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.53**	**1.07**	**1.07**	**1.07**	**1.07**	**1.07**	**1.07**	**0.96**	**0.96**	**0.96**	**0.96**	**0.75**	**0.75**	**0.75**	**0.75**	**0.75**	**0.75**	**0.75**	**0.75**	**0.75**	**0.75**	**0.75**	**0.75**	**0.75**	**0.75**	**0.64**	**0.64**	**0.64**
Vehicle Type	**Fugitive $PM_{2.5}$ Emissions (lbs/month)**																										
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Onsite Pick-up Truck	4.90	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81
Onsite Stake Truck	4.90	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	9.81	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90
Onsite Dump Truck	2.45	4.90	4.90	4.90	4.90	4.90	4.90	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	0.00	0.00	0.00
Onsite Total (lbs/month)	**12.26**	**24.51**	**24.51**	**24.51**	**24.51**	**24.51**	**24.51**	**22.06**	**22.06**	**22.06**	**22.06**	**17.16**	**17.16**	**17.16**	**17.16**	**17.16**	**17.16**	**17.16**	**17.16**	**17.16**	**17.16**	**17.16**	**17.16**	**17.16**	**17.16**	**14.71**	**14.71**	**14.71**
Offsite Total (tons/year)	**0.13**																										

Notes:
[a] Emissions based on the highest (controlled) unpaved road emission factor for $PM_{2.5}$.

Onsite Grading and Bulldozing Fugitive PM_{10} Emissions from Block 2 Construction

Construction Activity	Fugitive PM_{10} Emissions (lbs/day) [a]																										
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Grading [b]	0.03	0.03	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03
Bulldozing	27.07	54.15	54.15	27.07	27.07	27.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**27.10**	**54.18**	**54.18**	**27.10**	**27.10**	**27.07**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.03**	**0.03**
Construction Activity	**Fugitive PM_{10} Emissions (lbs/month) [a]**																										
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Grading	0.70	0.70	0.70	0.70	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.70
Bulldozing	622.67	1245.34	1245.34	622.67	622.67	622.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**623.37**	**1246.04**	**1246.04**	**623.37**	**623.37**	**622.67**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.70**	**0.70**
Offsite Total (tons/year)	**2.49**																										

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Per Section 4.3 of Appendix A of the CalEEMod User's Guide, the following blade width was assumed for grading equipment: 12 ft

Onsite Grading and Bulldozing Fugitive $PM_{2.5}$ Emissions from Block 2 Construction

Construction Activity	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a]																										
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulldozing	6.56	13.12	13.12	6.56	6.56	6.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**6.56**	**13.12**	**13.12**	**6.56**	**6.56**	**6.56**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Construction Activity	**Fugitive $PM_{2.5}$ Emissions (lbs/month) [a]**																										
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Grading	0.08	0.08	0.08	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08
Bulldozing	150.83	301.67	301.67	150.83	150.83	150.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**150.91**	**301.74**	**301.74**	**150.91**	**150.91**	**150.83**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.08**	**0.08**
Offsite Total (tons/year)	**0.60**																										

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Per Section 4.3 of Appendix A of the CalEEMod User's Guide, the following blade width was assumed for grading equipment: 12 ft

Table 5.1A.21R Onsite Construction Fugitive Dust Emissions

Offsite Grading Fugitive PM_{10} Emissions from Block 2 Construction

	Fugitive PM_{10} Emissions (lbs/day) [a]																										
Construction Activity	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Grading [b]	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Offsite Total (lbs/day)	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**	**0.015**
	Fugitive PM_{10} Emissions (lbs/month) [a]																										
Construction Activity	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Grading	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Offsite Total (lbs/month)	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**
Offsite Total (tons/year)	**0.00**																										

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Per Section 4.3 of Appendix A of the CalEEMod User's Guide, the following blade width was assumed for grading equipment: 12 ft

Offsite Grading Fugitive $PM_{2.5}$ Emissions from Block 2 Construction

	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a]																										
Construction Activity	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Grading	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017	0.0017
Offsite Total (lbs/day)	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**	**0.0017**
	Fugitive $PM_{2.5}$ Emissions (lbs/month) [a]																										
Construction Activity	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Grading	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
Offsite Total (lbs/month)	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**	**0.038**
Offsite Total (tons/year)	**0.000**																										

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Per Section 4.3 of Appendix A of the CalEEMod User's Guide, the following blade width was assumed for grading equipment: 12 ft

Onsite Construction Vehicle Activity for Block 2 Construction

Vehicle Type	Miles/Day [a]	Working Days per
Onsite Pick-up Truck	2	23
Onsite Stake Truck	2	23
Onsite Dump Truck	1	23

Notes:
[a] Estimated based on the dimensions of the project site.
[b] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Fugitive Dust Emission Factors for Unpaved Roads

Vehicles on Unpaved Surfaces at Industrial Sites

Parameter	PM_{10}	$PM_{2.5}$
Mean Vehicle Weight [a]	16.5	16.5
Silt Content [b]	8.5	8.5
k [c]	1.5	0.15
a [c]	0.9	0.9
b [c]	0.45	0.45
Emission Factor (Uncontrolled, lbs/mile) [d]	2.37	0.24
Reduction from Watering Twice/Day [e]	55%	55%
Emission Factor (Controlled, lbs/mile)	1.07	0.11

Notes:
[a] Mean vehicle weight assumes that medium/heavy duty trucks weigh 16.5 tons.
[b] Silt content taken from Table 13.2.2-1 of Section 13.2.2 of AP-42 for a Construction Site, Scraper Route; this value is consistent with the CalEEMod defaults.
[c] k, a, and b taken from Table 13.2.2-2 of Section 13.2.2 of AP-42 for industrial roads.
[d] Emission factor calculated using the following equation from Section 13.2.2 of AP-42: Emission Factor (lbs/mile) = {k (lbs/mile) x [Silt Content (%) / 12]a x [Mean Vehicle Weight (tons) / 3]b
[e] Control efficiency taken from Table XI-D of the SCAQMD CEQA Handbook for Travel Over Unpaved Roads; this value is consistent with the CalEEMod defaults.

Fugitive Dust Emission Factors for Grading

Grading Equipment Passes

Parameter	PM_{10}	$PM_{2.5}$
S (mph) [a]	7.1	7.1
F [a]	0.6	0.031
Emission Factor (lbs/VMT) [b]	1.543	0.167

Notes:
[a] The mean vehicle speed (S) and the particulate matter scaling factor (F) taken from Section 11.9 of AP-42 per Section 4.3 of Appendix A of the CalEEMod User's Guide.
[b] Emission factor calculated using the following equation from Section 4.3 of Appendix A of the CalEEMod User's Guide:

PM_{10} Emission Factor (lbs/VMT) = $0.051 \times (S)^{2.0} \times F_{PM10}$

$PM_{2.5}$ Emission Factor (lbs/VMT) = $0.04 \times (S)^{2.5} \times F_{PM2.5}$

Fugitive Dust Emission Factors for Bulldozing

Bulldozing Equipment Passes

Parameter	PM_{10}	$PM_{2.5}$
C [a]	5.7	5.7
M (%) [a]	7.9%	7.9%
s (%) [a]	6.9%	6.9%
F [a]	0.75	0.105
Emission Factor (lbs/hr) [b]	2.707	0.656

Notes:
[a] The arbitrary coefficient (C), material moisture content (M), material silt content (s), and particulate matter scaling factor (F) taken from Section 11.9 of AP-42 per Section 4.3 of Appendix A of the CalEEMod User's Guide.
[b] Emission factor calculated using the following equation from Section 4.3 of Appendix A of the CalEEMod User's Guide:

PM_{10} Emission Factor (lbs/hr) = $[(C \times s^{1.5}) / M^{1.4}] \times F_{PM10}$

$PM_{2.5}$ Emission Factor (lbs/hr) = $[(C \times s^{1.2}) / M^{1.3}] \times F_{PM2.5}$

Table 5.1A.22R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle Usage During Block 2 Construction

	Number per Day																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks [a]	0.00	0.00	0.75	0.75	0.75	0.75	0.75	0.75	0.75	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Material Hauling Trucks [b, c]	0.38	0.38	0.38	4.88	5.13	6.25	6.75	4.75	6.75	9.25	12.85	11.75	11.85	12.25	11.50	10.50	8.70	7.70	8.70	5.70	8.70	4.70	3.70	3.70	2.70	2.70	3.70	2.70
Directly to HBEP	0.15	0.15	0.15	1.95	2.05	2.50	2.70	1.90	2.70	3.70	5.14	4.70	4.74	4.90	4.60	4.20	3.48	3.08	3.48	2.28	3.48	1.88	1.48	1.48	1.08	1.08	1.48	1.08
Directly to Alamitos	0.23	0.23	0.23	2.93	3.08	3.75	4.05	2.85	4.05	5.55	7.71	7.05	7.11	7.35	6.90	6.30	5.22	4.62	5.22	3.42	5.22	2.82	2.22	2.22	1.62	1.62	2.22	1.62
To HBEP from Alamitos	0.23	0.23	0.23	2.93	3.08	3.75	4.05	2.85	4.05	5.55	7.71	7.05	7.11	7.35	6.90	6.30	5.22	4.62	5.22	3.42	5.22	2.82	2.22	2.22	1.62	1.62	2.22	1.62
Construction Worker Commute [d]	37.00	49.00	69.00	79.00	99.00	111.00	110.00	132.00	134.00	142.00	146.00	176.00	230.00	230.00	230.00	230.00	235.00	236.00	236.00	231.00	231.00	231.00	231.00	175.00	141.00	90.00	86.00	86.00

Notes:

[a] Offsite Delivery Trucks include trucks transporting "Consumables & Supplies", as provided in 'Huntington Beach Truck Deliveries 032112.xls'. It was assumed that these trucks travel directly to HBEP.

[b] Material Hauling Trucks include trucks transporting "Fill Material", "Mechanical Equipment", "Electrical Equip. & Mtrls", "Piping, Supports, & Valves", "Concrete and Rebar", "Steel/Architectural", "Contractor Mobilization", "Contractor Demobilization", "Construction Equipment", "HRSGs", "CGTs", "CTGs", "STGs", and "Main Transformers", as provided in 'Huntington Beach Truck Deliveries 032112.xls'.

[c] Per "Huntington Beach Truck Deliveries 032112.xls", assumed that 40% of the material haul trucks travel directly to HBEP, that the remaining 60% travel directly to Alamitos, and that all of the materials delivered to Alamitos will later be delivered to HBEP.

[d] Assumed 1 commute per 1 worker; number of workers taken from 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Offsite Vehicle CO Emissions from Block 2 Construction

	CO Emissions (lbs/day)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Material Hauling Trucks																												
Directly to HBEP	0.02	0.02	0.02	0.26	0.27	0.33	0.36	0.25	0.36	0.49	0.69	0.63	0.63	0.65	0.61	0.56	0.46	0.41	0.46	0.30	0.46	0.25	0.20	0.20	0.14	0.14	0.20	0.14
Directly to Alamitos	0.03	0.03	0.03	0.39	0.41	0.50	0.54	0.38	0.54	0.74	1.03	0.94	0.95	0.98	0.92	0.84	0.70	0.62	0.70	0.46	0.70	0.38	0.30	0.30	0.22	0.22	0.30	0.22
To HBEP from Alamitos	0.02	0.02	0.02	0.25	0.27	0.33	0.35	0.25	0.35	0.48	0.67	0.61	0.62	0.64	0.60	0.55	0.45	0.40	0.45	0.30	0.45	0.24	0.19	0.19	0.14	0.14	0.19	0.14
Construction Worker Commute	2.17	2.87	4.04	4.62	5.79	6.50	6.44	7.73	7.84	8.31	8.54	10.30	13.46	13.46	13.46	13.46	13.75	13.81	13.81	13.52	13.52	13.52	13.52	10.24	8.25	5.27	5.03	5.03
Offsite Total (lbs/day)	**2.23**	**2.94**	**4.15**	**5.57**	**6.79**	**7.70**	**7.73**	**8.65**	**9.14**	**10.09**	**10.99**	**12.54**	**15.72**	**15.79**	**15.65**	**15.47**	**15.43**	**15.30**	**15.49**	**14.64**	**15.19**	**14.45**	**14.27**	**10.99**	**8.81**	**5.83**	**5.78**	**5.59**
	CO Emissions (lbs/month)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.00	0.00	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
Material Hauling Trucks																												
Directly to HBEP	0.46	0.46	0.46	5.98	6.29	7.67	8.29	5.83	8.29	11.35	15.77	14.42	14.55	15.04	14.12	12.89	10.68	9.45	10.68	7.00	10.68	5.77	4.54	4.54	3.31	3.31	4.54	3.31
Directly to Alamitos	0.69	0.69	0.69	8.98	9.44	11.51	12.43	8.75	12.43	17.03	23.66	21.63	21.82	22.55	21.17	19.33	16.02	14.18	16.02	10.49	16.02	8.65	6.81	6.81	4.97	4.97	6.81	4.97
To HBEP from Alamitos	0.45	0.45	0.45	5.83	6.13	7.48	8.08	5.68	8.08	11.07	15.38	14.06	14.18	14.66	13.76	12.57	10.41	9.22	10.41	6.82	10.41	5.62	4.43	4.43	3.23	3.23	4.43	3.23
Construction Worker Commute	49.80	65.96	92.88	106.34	133.26	149.41	148.07	177.68	180.37	191.14	196.52	236.90	309.59	309.59	309.59	309.59	316.32	317.67	317.67	310.94	310.94	310.94	310.94	235.56	189.79	121.14	115.76	115.76
Offsite Total (lbs/month)	**51.40**	**67.56**	**95.52**	**128.18**	**156.17**	**177.12**	**177.90**	**198.99**	**210.21**	**231.99**	**252.73**	**288.42**	**361.53**	**363.24**	**360.04**	**355.77**	**354.83**	**351.91**	**356.17**	**336.65**	**349.44**	**332.38**	**328.12**	**252.74**	**202.71**	**134.06**	**132.94**	**128.67**
Offsite Total (tons/year)	**2.07**																											

Offsite Vehicle VOC Emissions from Block 2 Construction

	VOC Emissions (lbs/day)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.000	0.000	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.012
Material Hauling Trucks																												
Directly to HBEP	0.003	0.003	0.003	0.043	0.045	0.055	0.060	0.042	0.060	0.082	0.114	0.104	0.105	0.108	0.102	0.093	0.077	0.068	0.077	0.050	0.077	0.042	0.033	0.033	0.024	0.024	0.033	0.024
Directly to Alamitos	0.005	0.005	0.005	0.065	0.068	0.083	0.090	0.063	0.090	0.123	0.171	0.156	0.157	0.163	0.153	0.139	0.116	0.102	0.116	0.076	0.116	0.062	0.049	0.049	0.036	0.036	0.049	0.036
To HBEP from Alamitos	0.003	0.003	0.003	0.042	0.044	0.054	0.058	0.041	0.058	0.080	0.111	0.101	0.102	0.106	0.099	0.091	0.075	0.066	0.075	0.049	0.075	0.041	0.032	0.032	0.023	0.023	0.032	0.023
Construction Worker Commute	0.037	0.049	0.069	0.079	0.099	0.111	0.110	0.132	0.134	0.142	0.146	0.176	0.230	0.230	0.230	0.230	0.235	0.236	0.236	0.231	0.231	0.231	0.231	0.175	0.141	0.090	0.086	0.086
Offsite Total (lbs/day)	**0.049**	**0.061**	**0.090**	**0.238**	**0.266**	**0.313**	**0.327**	**0.287**	**0.351**	**0.439**	**0.554**	**0.550**	**0.607**	**0.619**	**0.596**	**0.565**	**0.515**	**0.485**	**0.516**	**0.419**	**0.511**	**0.388**	**0.357**	**0.301**	**0.236**	**0.185**	**0.212**	**0.181**
	VOC Emissions (lbs/month)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.00	0.00	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Material Hauling Trucks																												
Directly to HBEP	0.08	0.08	0.08	0.99	1.04	1.27	1.37	0.97	1.37	1.88	2.62	2.39	2.41	2.49	2.34	2.14	1.77	1.57	1.77	1.16	1.77	0.96	0.75	0.75	0.55	0.55	0.75	0.55
Directly to Alamitos	0.11	0.11	0.11	1.49	1.57	1.91	2.06	1.45	2.06	2.83	3.93	3.59	3.62	3.74	3.51	3.21	2.66	2.35	2.66	1.74	2.66	1.44	1.13	1.13	0.82	0.82	1.13	0.82
To HBEP from Alamitos	0.07	0.07	0.07	0.97	1.02	1.24	1.34	0.94	1.34	1.84	2.55	2.33	2.35	2.43	2.28	2.08	1.73	1.53	1.73	1.13	1.73	0.93	0.73	0.73	0.54	0.54	0.73	0.54
Construction Worker Commute	0.85	1.13	1.59	1.82	2.28	2.55	2.53	3.04	3.08	3.27	3.36	4.05	5.29	5.29	5.29	5.29	5.41	5.43	5.43	5.31	5.31	5.31	5.31	4.03	3.24	2.07	1.98	1.98
Offsite Total (lbs/month)	**1.12**	**1.39**	**2.07**	**5.48**	**6.12**	**7.19**	**7.52**	**6.61**	**8.07**	**10.10**	**12.74**	**12.65**	**13.96**	**14.24**	**13.71**	**13.00**	**11.85**	**11.16**	**11.87**	**9.63**	**11.75**	**8.92**	**8.22**	**6.93**	**5.44**	**4.26**	**4.88**	**4.17**
Offsite Total (tons/year)	**0.07**																											

Offsite Vehicle SOx Emissions from Block 2 Construction

	SOx Emissions (lbs/day)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.0000	0.0000	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Material Hauling Trucks																												
Directly to HBEP	0.0002	0.0002	0.0002	0.0027	0.0028	0.0034	0.0037	0.0026	0.0037	0.0051	0.0070	0.0064	0.0065	0.0067	0.0063	0.0057	0.0048	0.0042	0.0048	0.0031	0.0048	0.0026	0.0020	0.0020	0.0015	0.0015	0.0020	0.0015
Directly to Alamitos	0.0003	0.0003	0.0003	0.0040	0.0042	0.0051	0.0055	0.0039	0.0055	0.0076	0.0105	0.0096	0.0097	0.0100	0.0094	0.0086	0.0071	0.0063	0.0071	0.0047	0.0071	0.0039	0.0030	0.0030	0.0022	0.0022	0.0030	0.0022
To HBEP from Alamitos	0.0002	0.0002	0.0002	0.0026	0.0027	0.0033	0.0036	0.0025	0.0036	0.0049	0.0068	0.0063	0.0063	0.0065	0.0061	0.0056	0.0046	0.0041	0.0046	0.0030	0.0046	0.0025	0.0020	0.0020	0.0014	0.0014	0.0020	0.0014
Construction Worker Commute	0.0057	0.0076	0.0107	0.0122	0.0153	0.0172	0.0170	0.0204	0.0207	0.0220	0.0226	0.0272	0.0356	0.0356	0.0356	0.0356	0.0364	0.0365	0.0365	0.0358	0.0358	0.0358	0.0358	0.0271	0.0218	0.0139	0.0133	0.0133
Offsite Total (lbs/day)	**0.0064**	**0.0083**	**0.0118**	**0.0219**	**0.0255**	**0.0295**	**0.0303**	**0.0299**	**0.0340**	**0.0401**	**0.0476**	**0.0501**	**0.0587**	**0.0594**	**0.0580**	**0.0561**	**0.0534**	**0.0517**	**0.0536**	**0.0471**	**0.0528**	**0.0452**	**0.0433**	**0.0347**	**0.0275**	**0.0196**	**0.0209**	**0.0190**
	SOx Emissions (lbs/month)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.000	0.000	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
Material Hauling Trucks																												
Directly to HBEP	0.005	0.005	0.005	0.061	0.064	0.079	0.085	0.060	0.085	0.116	0.162	0.148	0.149	0.154	0.145	0.132	0.109	0.097	0.109	0.072	0.109	0.059	0.047	0.047	0.034	0.034	0.047	0.034
Directly to Alamitos	0.007	0.007	0.007	0.092	0.097	0.118	0.127	0.090	0.127	0.174	0.242	0.222	0.224	0.231	0.217	0.198	0.164	0.145	0.164	0.108	0.164	0.089	0.070	0.070	0.051	0.051	0.070	0.051
To HBEP from Alamitos	0.005	0.005	0.005	0.060	0.063	0.077	0.083	0.058	0.083	0.113	0.158	0.144	0.145	0.150	0.141	0.129	0.107	0.094	0.107	0.070	0.107	0.058	0.045	0.045	0.033	0.033	0.045	0.033
Construction Worker Commute	0.132	0.174	0.246	0.281	0.352	0.395	0.392	0.470	0.477	0.505	0.520	0.626	0.819	0.819	0.819	0.819	0.836	0.840	0.840	0.822	0.822	0.822	0.822	0.623	0.502	0.320	0.306	0.306
Offsite Total (lbs/month)	**0.148**	**0.191**	**0.271**	**0.504**	**0.586**	**0.678**	**0.696**	**0.687**	**0.781**	**0.922**	**1.094**	**1.153**	**1.349**	**1.367**	**1.334**	**1.290**	**1.229**	**1.189**	**1.233**	**1.084**	**1.215**	**1.040**	**0.997**	**0.797**	**0.632**	**0.451**	**0.480**	**0.437**
Offsite Total (tons/year)	**0.007**																											

Table 5.1A.22R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle NOx Emissions from Block 2 Construction

	NOx Emissions (lbs/day)																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.00	0.00	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.17	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.13	0.13	0.13	0.13	0.13	0.13
Material Hauling Trucks																												
Directly to HBEP	0.05	0.05	0.05	0.70	0.73	0.89	0.96	0.68	0.96	1.32	1.65	1.51	1.52	1.57	1.47	1.35	1.11	0.99	1.11	0.73	1.11	0.60	0.43	0.43	0.31	0.31	0.43	0.31
Directly to Alamitos	0.08	0.08	0.08	1.04	1.10	1.34	1.44	1.02	1.44	1.98	2.47	2.26	2.28	2.35	2.21	2.02	1.67	1.48	1.67	1.10	1.67	0.90	0.64	0.64	0.47	0.47	0.64	0.47
To HBEP from Alamitos	0.05	0.05	0.05	0.68	0.71	0.87	0.94	0.66	0.94	1.29	1.60	1.47	1.48	1.53	1.44	1.31	1.09	0.96	1.09	0.71	1.09	0.59	0.42	0.42	0.30	0.30	0.42	0.30
Construction Worker Commute	0.20	0.26	0.37	0.43	0.54	0.60	0.59	0.71	0.72	0.77	0.72	0.87	1.14	1.14	1.14	1.14	1.17	1.17	1.17	1.15	1.15	1.15	1.06	0.81	0.65	0.41	0.40	0.40
Offsite Total (lbs/day)	**0.39**	**0.45**	**0.68**	**2.97**	**3.20**	**3.82**	**4.07**	**3.19**	**4.20**	**5.52**	**6.59**	**6.25**	**6.57**	**6.74**	**6.41**	**5.97**	**5.19**	**4.75**	**5.19**	**3.83**	**5.17**	**3.39**	**2.69**	**2.43**	**1.87**	**1.63**	**2.02**	**1.62**
	NOx Emissions (lbs/month)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.00	0.00	2.88	2.88	2.88	2.88	2.88	2.88	2.88	3.84	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.44	3.10	3.10	3.10	3.10	3.10	3.10
Material Hauling Trucks																												
Directly to HBEP	1.23	1.23	1.23	16.00	16.82	20.51	22.15	15.59	22.15	30.36	37.86	34.62	34.91	36.09	33.88	30.94	25.63	22.69	25.63	16.79	25.63	13.85	9.84	9.84	7.18	7.18	9.84	7.18
Directly to Alamitos	1.85	1.85	1.85	24.00	25.23	30.77	33.23	23.38	33.23	45.54	56.79	51.93	52.37	54.14	50.82	46.40	38.45	34.03	38.45	25.19	38.45	20.77	14.76	14.76	10.77	10.77	14.76	10.77
To HBEP from Alamitos	1.20	1.20	1.20	15.60	16.40	20.00	21.60	15.20	21.60	29.60	36.91	33.75	34.04	35.19	33.03	30.16	24.99	22.12	24.99	16.37	24.99	13.50	9.59	9.59	7.00	7.00	9.59	7.00
Construction Worker Commute	4.60	6.09	8.58	9.82	12.31	13.80	13.67	16.41	16.66	17.65	16.67	20.10	26.26	26.26	26.26	26.26	26.83	26.95	26.95	26.38	26.38	26.38	24.48	18.54	14.94	9.54	9.11	9.11
Offsite Total (lbs/month)	**8.88**	**10.37**	**15.74**	**68.30**	**73.64**	**87.96**	**93.54**	**73.47**	**96.53**	**126.99**	**151.67**	**143.83**	**151.02**	**155.12**	**147.44**	**137.20**	**119.34**	**109.22**	**119.46**	**88.17**	**118.89**	**77.93**	**61.78**	**55.84**	**43.00**	**37.59**	**46.41**	**37.17**
Offsite Total (tons/year)	**0.78**																											

Offsite Vehicle PM_{10} Emissions from Block 2 Construction

	PM_{10} Emissions (lbs/day) [a]																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.000	0.000	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.018	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
Material Hauling Trucks																												
Directly to HBEP	0.007	0.007	0.007	0.087	0.091	0.112	0.120	0.085	0.120	0.165	0.224	0.205	0.206	0.213	0.200	0.183	0.152	0.134	0.152	0.099	0.152	0.082	0.063	0.063	0.046	0.046	0.063	0.046
Directly to Alamitos	0.010	0.010	0.010	0.131	0.137	0.167	0.181	0.127	0.181	0.248	0.336	0.307	0.310	0.320	0.301	0.274	0.227	0.201	0.227	0.149	0.227	0.123	0.095	0.095	0.069	0.069	0.095	0.069
To HBEP from Alamitos	0.007	0.007	0.007	0.085	0.089	0.109	0.117	0.083	0.117	0.161	0.218	0.200	0.201	0.208	0.195	0.178	0.148	0.131	0.148	0.097	0.148	0.080	0.062	0.062	0.045	0.045	0.062	0.045
Construction Worker Commute	0.587	0.778	1.095	1.254	1.571	1.761	1.745	2.095	2.126	2.253	2.317	2.793	3.650	3.650	3.650	3.650	3.729	3.745	3.745	3.666	3.666	3.666	3.666	2.777	2.237	1.428	1.365	1.365
Offsite Total (lbs/day)	**0.610**	**0.801**	**1.131**	**1.569**	**1.902**	**2.162**	**2.177**	**2.402**	**2.558**	**2.845**	**3.112**	**3.521**	**4.384**	**4.408**	**4.363**	**4.302**	**4.273**	**4.228**	**4.289**	**4.028**	**4.209**	**3.967**	**3.902**	**3.013**	**2.414**	**1.605**	**1.601**	**1.541**
	PM_{10} Emissions (lbs/month) [a]																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.00	0.00	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.41	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.38	0.38	0.38
Material Hauling Trucks																												
Directly to HBEP	0.15	0.15	0.15	2.00	2.10	2.57	2.77	1.95	2.77	3.80	5.15	4.71	4.75	4.91	4.61	4.21	3.49	3.09	3.49	2.28	3.49	1.88	1.45	1.45	1.06	1.06	1.45	1.06
Directly to Alamitos	0.23	0.23	0.23	3.00	3.16	3.85	4.16	2.92	4.16	5.70	7.72	7.06	7.12	7.36	6.91	6.31	5.23	4.63	5.23	3.43	5.23	2.83	2.18	2.18	1.59	1.59	2.18	1.59
To HBEP from Alamitos	0.15	0.15	0.15	1.95	2.05	2.50	2.70	1.90	2.70	3.70	5.02	4.59	4.63	4.79	4.49	4.10	3.40	3.01	3.40	2.23	3.40	1.84	1.42	1.42	1.03	1.03	1.42	1.03
Construction Worker Commute	13.50	17.88	25.18	28.83	36.13	40.51	40.15	48.18	48.91	51.83	53.29	64.23	83.94	83.94	83.94	83.94	85.77	86.13	86.13	84.31	84.31	84.31	84.31	63.87	51.46	32.85	31.39	31.39
Offsite Total (lbs/month)	**14.04**	**18.42**	**26.02**	**36.09**	**43.75**	**49.73**	**50.08**	**55.26**	**58.84**	**65.43**	**71.57**	**80.99**	**100.84**	**101.39**	**100.35**	**98.96**	**98.27**	**97.25**	**98.64**	**92.64**	**96.82**	**91.24**	**89.74**	**69.30**	**55.53**	**36.91**	**36.82**	**35.45**
Offsite Total (tons/year)	**0.57**																											

Notes:
[a] PM_{10} Emissions include emissions from exhaust and paved roads.

Offsite Vehicle $PM_{2.5}$ Emissions from Block 2 Construction

	$PM_{2.5}$ Emissions (lbs/day) [a]																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.000	0.000	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.009	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Material Hauling Trucks																												
Directly to HBEP	0.003	0.003	0.003	0.041	0.043	0.052	0.057	0.040	0.057	0.078	0.098	0.090	0.091	0.094	0.088	0.080	0.066	0.059	0.066	0.044	0.066	0.036	0.028	0.028	0.021	0.021	0.028	0.021
Directly to Alamitos	0.005	0.005	0.005	0.061	0.064	0.079	0.085	0.060	0.085	0.116	0.147	0.135	0.136	0.140	0.132	0.120	0.100	0.088	0.100	0.065	0.100	0.054	0.043	0.043	0.031	0.031	0.043	0.031
To HBEP from Alamitos	0.003	0.003	0.003	0.040	0.042	0.051	0.055	0.039	0.055	0.076	0.096	0.088	0.088	0.091	0.086	0.078	0.065	0.057	0.065	0.042	0.065	0.035	0.028	0.028	0.020	0.020	0.028	0.020
Construction Worker Commute	0.164	0.217	0.306	0.350	0.439	0.492	0.488	0.585	0.594	0.630	0.649	0.783	1.023	1.023	1.023	1.023	1.045	1.049	1.049	1.027	1.027	1.027	1.027	0.778	0.627	0.400	0.382	0.382
Offsite Total (lbs/day)	**0.175**	**0.228**	**0.323**	**0.499**	**0.595**	**0.681**	**0.691**	**0.730**	**0.797**	**0.908**	**0.998**	**1.103**	**1.345**	**1.356**	**1.336**	**1.309**	**1.284**	**1.262**	**1.288**	**1.186**	**1.266**	**1.160**	**1.133**	**0.884**	**0.706**	**0.480**	**0.489**	**0.462**
	$PM_{2.5}$ Emissions (lbs/month) [a]																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.00	0.00	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.20	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17
Material Hauling Trucks																												
Directly to HBEP	0.07	0.07	0.07	0.94	0.99	1.20	1.30	0.92	1.30	1.78	2.26	2.06	2.08	2.15	2.02	1.85	1.53	1.35	1.53	1.00	1.53	0.83	0.65	0.65	0.48	0.48	0.65	0.48
Directly to Alamitos	0.11	0.11	0.11	1.41	1.48	1.81	1.95	1.37	1.95	2.67	3.39	3.10	3.12	3.23	3.03	2.77	2.29	2.03	2.29	1.50	2.29	1.24	0.98	0.98	0.72	0.72	0.98	0.72
To HBEP from Alamitos	0.07	0.07	0.07	0.92	0.96	1.17	1.27	0.89	1.27	1.74	2.20	2.01	2.03	2.10	1.97	1.80	1.49	1.32	1.49	0.98	1.49	0.81	0.64	0.64	0.46	0.46	0.64	0.46
Construction Worker Commute	3.77	5.00	7.04	8.06	10.10	11.32	11.22	13.46	13.67	14.48	14.93	18.00	23.52	23.52	23.52	23.52	24.03	24.13	24.13	23.62	23.62	23.62	23.62	17.90	14.42	9.20	8.79	8.79
Offsite Total (lbs/month)	**4.02**	**5.25**	**7.44**	**11.47**	**13.68**	**15.65**	**15.89**	**16.79**	**18.34**	**20.88**	**22.96**	**25.36**	**30.94**	**31.19**	**30.73**	**30.12**	**29.53**	**29.02**	**29.63**	**27.29**	**29.12**	**26.68**	**26.07**	**20.34**	**16.25**	**11.03**	**11.24**	**10.62**
Offsite Total (tons/year)	**0.17**																											

Notes:
[a] $PM_{2.5}$ Emissions include emissions from exhaust and paved roads.

Offsite Vehicle CO_2 Emissions from Block 2 Construction

	CO_2 Emissions (metric tons/day)																										
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.000	0.000	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
Material Hauling Trucks																												
Directly to HBEP	0.010	0.010	0.010	0.128	0.135	0.164	0.177	0.125	0.177	0.243	0.337	0.308	0.311	0.322	0.302	0.276	0.228	0.202	0.228	0.150	0.228	0.123	0.097	0.097	0.071	0.071	0.097	0.071
Directly to Alamitos	0.015	0.015	0.015	0.192	0.202	0.246	0.266	0.187	0.266	0.364	0.506	0.463	0.467	0.482	0.453	0.413	0.343	0.303	0.343	0.224	0.343	0.185	0.146	0.146	0.106	0.106	0.146	0.106
To HBEP from Alamitos	0.010	0.010	0.010	0.125	0.131	0.160	0.173	0.122	0.173	0.237	0.329	0.301	0.303	0.314	0.294	0.269	0.223	0.197	0.223	0.146	0.223	0.120	0.095	0.095	0.069	0.069	0.095	0.069
Construction Worker Commute	0.256	0.339	0.477	0.546	0.685	0.768	0.761	0.913	0.927	0.982	1.010	1.217	1.591	1.591	1.591	1.591	1.625	1.632	1.632	1.598	1.598	1.598	1.598	1.210	0.975	0.622	0.595	0.595
Offsite Total (metric tons/day)	**0.290**	**0.373**	**0.531**	**1.011**	**1.172**	**1.357**	**1.396**	**1.366**	**1.562**	**1.852**	**2.208**	**2.315**	**2.698**	**2.734**	**2.666**	**2.575**	**2.445**	**2.361**	**2.452**	**2.144**	**2.417**	**2.052**	**1.961**	**1.574**	**1.247**	**0.895**	**0.958**	**0.867**
	CO_2 Emissions (metric tons/month)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.00	0.00	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
Material Hauling Trucks																												
Directly to HBEP	0.23	0.23	0.23	2.94	3.09	3.77	4.08	2.87	4.08	5.58	7.76	7.09	7.15	7.40	6.94	6.34	5.25	4.65	5.25	3.44	5.25	2.84	2.23	2.23	1.63	1.63	2.23	1.63
Directly to Alamitos	0.34	0.34	0.34	4.41	4.64	5.66	6.11	4.30	6.11	8.38	11.64	10.64	10.73	11.09	10.41	9.51	7.88	6.97	7.88	5.16	7.88	4.26	3.35	3.35	2.45	2.45	3.35	2.45
To HBEP from Alamitos	0.22	0.22	0.22	2.87	3.02	3.68	3.97	2.80	3.97	5.44	7.56	6.92	6.98	7.21	6.77	6.18	5.12	4.53	5.12	3.36	5.12	2.77	2.18	2.18	1.59	1.59	2.18	1.59
Construction Worker Commute	5.89	7.80	10.98	12.57	15.75	17.66	17.50	21.00	21.32	22.59	23.23	28.00	36.59	36.59	36.59	36.59	37.38	37.54	37.54	36.75	36.75	36.75	36.75	27.84	22.43	14.32	13.68	13.68
Offsite Total (metric tons/month)	**6.67**	**8.58**	**12.21**	**23.24**	**26.95**	**31.22**	**32.11**	**31.41**	**35.93**	**42.59**	**50.78**	**53.25**	**62.05**	**62.89**	**61.31**	**59.21**	**56.23**	**54.29**	**56.39**	**49.30**	**55.60**	**47.20**	**45.11**	**36.20**	**28.69**	**20.58**	**22.04**	**19.94**
Offsite Total (metric tons/year)	**668.51**																											

Table 5.1A.22R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle N_2O Emissions from Block 2 Construction

	N_2O Emissions (metric tons/day)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.00000000	0.00000000	0.00000005	0.00000005	0.00000005	0.00000005	0.00000005	0.00000005	0.00000005	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007
Material Hauling Trucks																												
Directly to HBEP	0.00000003	0.00000003	0.00000003	0.00000037	0.00000039	0.00000048	0.00000052	0.00000036	0.00000052	0.00000071	0.00000099	0.00000090	0.00000091	0.00000094	0.00000088	0.00000081	0.00000067	0.00000059	0.00000067	0.00000044	0.00000067	0.00000036	0.00000028	0.00000028	0.00000021	0.00000021	0.00000028	0.00000021
Directly to Alamitos	0.00000004	0.00000004	0.00000004	0.00000056	0.00000059	0.00000072	0.00000078	0.00000055	0.00000078	0.00000107	0.00000148	0.00000135	0.00000137	0.00000141	0.00000132	0.00000121	0.00000100	0.00000089	0.00000100	0.00000066	0.00000100	0.00000054	0.00000043	0.00000043	0.00000031	0.00000031	0.00000043	0.00000031
To HBEP from Alamitos	0.00000003	0.00000003	0.00000003	0.00000037	0.00000038	0.00000047	0.00000051	0.00000036	0.00000051	0.00000069	0.00000096	0.00000088	0.00000089	0.00000092	0.00000086	0.00000079	0.00000065	0.00000058	0.00000065	0.00000043	0.00000065	0.00000035	0.00000028	0.00000028	0.00000020	0.00000020	0.00000028	0.00000020
Construction Worker Commute	0.00000288	0.00000381	0.00000537	0.00000614	0.00000770	0.00000863	0.00000855	0.00001026	0.00001042	0.00001104	0.00001135	0.00001369	0.00001788	0.00001788	0.00001788	0.00001788	0.00001827	0.00001835	0.00001835	0.00001796	0.00001796	0.00001796	0.00001796	0.00001361	0.00001096	0.00000700	0.00000669	0.00000669
Offsite Total (metric tons/day)	**0.0000030**	**0.0000039**	**0.0000055**	**0.0000075**	**0.0000091**	**0.0000104**	**0.0000104**	**0.0000116**	**0.0000123**	**0.0000136**	**0.0000149**	**0.0000169**	**0.0000211**	**0.0000212**	**0.0000210**	**0.0000208**	**0.0000207**	**0.0000205**	**0.0000207**	**0.0000196**	**0.0000204**	**0.0000193**	**0.0000190**	**0.0000147**	**0.0000118**	**0.0000078**	**0.0000077**	**0.0000075**

	N_2O Emissions (metric tons/month)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.0000000	0.0000000	0.0000012	0.0000012	0.0000012	0.0000012	0.0000012	0.0000012	0.0000012	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016
Material Hauling Trucks																												
Directly to HBEP	0.0000007	0.0000007	0.0000007	0.0000086	0.0000091	0.0000110	0.0000119	0.0000084	0.0000119	0.0000163	0.0000227	0.0000208	0.0000209	0.0000216	0.0000203	0.0000185	0.0000154	0.0000136	0.0000154	0.0000101	0.0000154	0.0000083	0.0000065	0.0000065	0.0000048	0.0000048	0.0000065	0.0000048
Directly to Alamitos	0.0000010	0.0000010	0.0000010	0.0000129	0.0000136	0.0000166	0.0000179	0.0000126	0.0000179	0.0000245	0.0000340	0.0000311	0.0000314	0.0000325	0.0000305	0.0000278	0.0000231	0.0000204	0.0000231	0.0000151	0.0000231	0.0000125	0.0000098	0.0000098	0.0000072	0.0000072	0.0000098	0.0000072
To HBEP from Alamitos	0.0000006	0.0000006	0.0000006	0.0000084	0.0000088	0.0000108	0.0000116	0.0000082	0.0000116	0.0000159	0.0000221	0.0000202	0.0000204	0.0000211	0.0000198	0.0000181	0.0000150	0.0000133	0.0000150	0.0000098	0.0000150	0.0000081	0.0000064	0.0000064	0.0000047	0.0000047	0.0000064	0.0000047
Construction Worker Commute	0.0000662	0.0000876	0.0001234	0.0001413	0.0001771	0.0001985	0.0001967	0.0002361	0.0002397	0.0002540	0.0002611	0.0003148	0.0004114	0.0004114	0.0004114	0.0004114	0.0004203	0.0004221	0.0004221	0.0004131	0.0004131	0.0004131	0.0004131	0.0003130	0.0002522	0.0001610	0.0001538	0.0001538
Offsite Total (metric tons/month)	**0.000068**	**0.000090**	**0.000127**	**0.000172**	**0.000210**	**0.000238**	**0.000239**	**0.000266**	**0.000282**	**0.000312**	**0.000342**	**0.000389**	**0.000486**	**0.000488**	**0.000484**	**0.000477**	**0.000475**	**0.000471**	**0.000477**	**0.000450**	**0.000468**	**0.000444**	**0.000437**	**0.000337**	**0.000270**	**0.000179**	**0.000178**	**0.000172**
Offsite Total (metric tons/year)	**0.00555**																											

Offsite Vehicle CH_4 Emissions from Block 2 Construction

	CH_4 Emissions (metric tons/day)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.00000000	0.00000000	0.00000006	0.00000006	0.00000006	0.00000006	0.00000006	0.00000006	0.00000006	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007
Material Hauling Trucks																												
Directly to HBEP	0.00000003	0.00000003	0.00000003	0.00000040	0.00000042	0.00000051	0.00000055	0.00000039	0.00000055	0.00000075	0.00000105	0.00000096	0.00000097	0.00000100	0.00000094	0.00000086	0.00000071	0.00000063	0.00000071	0.00000047	0.00000071	0.00000038	0.00000030	0.00000030	0.00000022	0.00000022	0.00000030	0.00000022
Directly to Alamitos	0.00000005	0.00000005	0.00000005	0.00000060	0.00000063	0.00000077	0.00000083	0.00000058	0.00000083	0.00000113	0.00000157	0.00000144	0.00000145	0.00000150	0.00000141	0.00000129	0.00000106	0.00000094	0.00000106	0.00000070	0.00000106	0.00000058	0.00000045	0.00000045	0.00000033	0.00000033	0.00000045	0.00000033
To HBEP from Alamitos	0.00000003	0.00000003	0.00000003	0.00000039	0.00000041	0.00000050	0.00000054	0.00000038	0.00000054	0.00000074	0.00000102	0.00000093	0.00000094	0.00000097	0.00000091	0.00000084	0.00000069	0.00000061	0.00000069	0.00000045	0.00000069	0.00000037	0.00000029	0.00000029	0.00000021	0.00000021	0.00000029	0.00000021
Construction Worker Commute	0.00001383	0.00001831	0.00002578	0.00002952	0.00003699	0.00004148	0.00004110	0.00004933	0.00005007	0.00005306	0.00005456	0.00006577	0.00008595	0.00008595	0.00008595	0.00008595	0.00008781	0.00008819	0.00008819	0.00008632	0.00008632	0.00008632	0.00008632	0.00006539	0.00005269	0.00003363	0.00003214	0.00003214
Offsite Total (metric tons/day)	**0.000014**	**0.000018**	**0.000026**	**0.000031**	**0.000039**	**0.000043**	**0.000043**	**0.000051**	**0.000052**	**0.000056**	**0.000058**	**0.000069**	**0.000089**	**0.000089**	**0.000089**	**0.000089**	**0.000090**	**0.000090**	**0.000091**	**0.000088**	**0.000089**	**0.000088**	**0.000087**	**0.000067**	**0.000054**	**0.000034**	**0.000033**	**0.000033**

	CH_4 Emissions (metric tons/month)																											
Vehicle Type	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**
Offsite Delivery Trucks	0.0000000	0.0000000	0.0000013	0.0000013	0.0000013	0.0000013	0.0000013	0.0000013	0.0000013	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017
Material Hauling Trucks																												
Directly to HBEP	0.0000007	0.0000007	0.0000007	0.0000091	0.0000096	0.0000117	0.0000127	0.0000089	0.0000127	0.0000174	0.0000241	0.0000221	0.0000222	0.0000230	0.0000216	0.0000197	0.0000163	0.0000145	0.0000163	0.0000107	0.0000163	0.0000088	0.0000069	0.0000069	0.0000051	0.0000051	0.0000069	0.0000051
Directly to Alamitos	0.0000011	0.0000011	0.0000011	0.0000137	0.0000144	0.0000176	0.0000190	0.0000134	0.0000190	0.0000260	0.0000362	0.0000331	0.0000334	0.0000345	0.0000324	0.0000296	0.0000245	0.0000217	0.0000245	0.0000160	0.0000245	0.0000132	0.0000104	0.0000104	0.0000076	0.0000076	0.0000104	0.0000076
To HBEP from Alamitos	0.0000007	0.0000007	0.0000007	0.0000089	0.0000094	0.0000114	0.0000124	0.0000087	0.0000124	0.0000169	0.0000235	0.0000215	0.0000217	0.0000224	0.0000210	0.0000192	0.0000159	0.0000141	0.0000159	0.0000104	0.0000159	0.0000086	0.0000068	0.0000068	0.0000049	0.0000049	0.0000068	0.0000049
Construction Worker Commute	0.0003180	0.0004211	0.0005930	0.0006790	0.0008509	0.0009540	0.0009454	0.0011345	0.0011517	0.0012204	0.0012548	0.0015127	0.0019768	0.0019768	0.0019768	0.0019768	0.0020197	0.0020283	0.0020283	0.0019854	0.0019854	0.0019854	0.0019854	0.0015041	0.0012118	0.0007735	0.0007391	0.0007391
Offsite Total (metric tons/month)	**0.000320**	**0.000424**	**0.000597**	**0.000712**	**0.000886**	**0.000996**	**0.000991**	**0.001167**	**0.001197**	**0.001282**	**0.001340**	**0.001591**	**0.002056**	**0.002058**	**0.002053**	**0.002047**	**0.002078**	**0.002080**	**0.002087**	**0.002024**	**0.002044**	**0.002018**	**0.002011**	**0.001530**	**0.001231**	**0.000793**	**0.000765**	**0.000758**
Offsite Total (metric tons/year)	**0.02415**																											

Offsite Construction Vehicle Activity for Block 2 Construction

Vehicle Type	Roundtrip Miles/Day [a]	Working Days per Month [b]
Offsite Delivery Trucks	14.6	23
Material Hauling Trucks	40.0	23
Directly to HBEP	40.0	23
Directly to Alamitos	40.0	23
To HBEP from Alamitos	26.0	23
Construction Worker Commute	21.6	23

Notes:

[a] Roundtrip miles/day taken as the CalEEMod defaults for the South Coast Air Basin except for "To HBEP from Alamitos", which was measured using Google Earth.

[b] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Table 5.1A.23R Equations Used to Calculate Criteria Pollutant and GHG Emissions

Equations Used to Calculate Emissions from Block 2 Construction

Emission Source	Pollutant(s)	Equation	Variables
Construction Equipment Exhaust	CO, VOC, NOx, SOx, PM_{10}, and $PM_{2.5}$	$E_m = EF * N * Hp * L * H / 453.6$	E_m = Emissions (lbs/month)
			EF = Emission factor (g/bhp-hr)
			N = Number of pieces of equipment
			Hp = Average horsepower
			L = Average load factor
			H = Hours per month
			453.6 = Conversion from g to lbs
		$E_d = E_m / D$	E_d = Emissions (lbs/day)
			E_m = Emissions (lbs/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons
	CO_2	$E_m = N * FC * EF * H * 0.001$	E_m = Emissions (metric tons/month)
			N = Number of pieces of equipment
			FC = Fuel consumption (gallons/hour)
			EF = Emission factor (kg/gallon)
			H = Hours per month
			0.001 = Conversion from kg to metric tons
		$E_d = E_m / D$	E_d = Emissions (metric tons/day)
			E_m = Emissions (metric tons/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
	CH_4 and N_2O	$E_m = N * FC * EF * H / 1{,}000 * 0.001$	E_m = Emissions (metric tons/month)
			N = Number of pieces of equipment
			FC = Fuel consumption (gallons/hour)
			EF = Emission factor (g/gallon)
			H = Hours per month
			1,000 = Conversion from g to kg
			0.001 = Conversion from kg to metric tons
		$E_d = E_m / D$	E_d = Emissions (metric tons/day)
			E_m = Emissions (metric tons/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
Onsite and Offsite Vehicle Exhaust and Paved and Unpaved Road Fugitive PM_{10} and $PM_{2.5}$	CO, VOC, NOx, SOx, PM_{10}, and $PM_{2.5}$	$E_d = N * VMT * EF / 453.6$	E_d = Emissions (lbs/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			EF = EMFAC2007 emission factor (g/mile). Paved and unpaved road fugitive PM_{10} and $PM_{2.5}$ emission factors calculated per Sections 13.2.1 and 13.2.2 of AP-42, respectively.
			453.6 = Conversion from g to lbs
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons

Table 5.1A.23R Equations Used to Calculate Criteria Pollutant and GHG Emissions

Equations Used to Calculate Emissions from Block 2 Construction

Emission Source	Pollutant(s)	Equation	Variables
Onsite and Offsite Vehicle Exhaust	CO_2	$E_d = N * VMT / FE * EF * 0.001$	E_d = Emissions (metric tons/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			FE = Fuel economy (mpg)
			EF = Emission factor (kg/gallon)
			0.001 = Conversion from kg to metric tons
		$E_m = E_d * D$	E_m = Emissions (metric tons/month)
			E_d = Emissions (metric tons/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
	CH_4 and N_2O	$E_d = N * VMT * EF / 1{,}000 * 0.001$	E_d = Emissions (metric tons/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			EF = Emission factor (g/mile)
			1,000 = Conversion from g to kg
			0.001 = Conversion from kg to metric tons
		$E_m = E_d * D$	E_m = Emissions (metric tons/month)
			E_d = Emissions (metric tons/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
Onsite and Offsite Fugitive PM_{10} and $PM_{2.5}$ from Grading	PM_{10} and $PM_{2.5}$	$E_d = EF \times A / W \times 43{,}560 / 5{,}280 / D$	E_d = Emissions (lbs/day)
			EF = Fugitive PM_{10} and $PM_{2.5}$ emission factors (lbs/mile), calculated per Section 4.3 of Appendix A of the CalEEMod User's Guide.
			A = Site disturbed (acres/month)
			W = Grading equipment blade width (ft)
			43,560 = Conversion factor from square feet to acres
			5,280 = Conversion factor from feet to miles
			D = Number of construction days per month
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons
Onsite Fugitive PM_{10} and $PM_{2.5}$ from Bulldozing	PM_{10} and $PM_{2.5}$	$E_d = EF \times H / D$	E_d = Emissions (lbs/day)
			EF = Fugitive PM_{10} and $PM_{2.5}$ emission factors (lbs/mile), calculated per Section 4.3 of Appendix A of the CalEEMod User's Guide.
			H = Hours per month for all bulldozers
			D = Number of construction days per month
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons

Table 5.1A.24R Number of Onsite Construction Equipment and Motor Vehicles

Number of Onsite Equipment for Block 2 Construction

Onsite Equipment	Number per Month [a]																											
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Water Truck	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Excavator	1	2	2	2	2	2	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grader	1	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Cranes [b]	0	0	0	0	2	2	4	4	4	5	4	4	6	5	4	4	4	4	2	2	2	2	2	2	2	0	0	0
Tractor/Loader/Backhoe [c]	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Rubber Tired Loader [d]	0	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
Crawler Tractor [e]	1	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Air Compressor	0	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1
Forklift	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1
Roller [f]	1	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Other General Industrial Equipment [g]	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
[a] Equipment counts taken from 'HBEP Equipment Usage 1.21.13.xls'.
[b] Numbers presented for Cranes includes the equipment counts for the 75 Ton Hydraulic Crane, the 35 Ton Hydraulic Crane, the Heavy Lift Lattice Boom Main Crane, the Heavy Lift Lattice Boom Tail Crane, and the Heavy Lift Gantry Crane.
[c] Numbers presented for Tractor/Loader/Backhoe includes the equipment counts for the Backhoe.
[d] Numbers presented for Rubber Tired Loader includes the equipment counts for the Front End Loader.
[e] Numbers presented for Crawler Tractor includes the equipment counts for the Dozer
[f] Numbers presented for Rollder includes the equipment counts for the Compactor.
[g] Numbers presented for Other General Industrial Equipment includes the equipment counts for the Pile Driver.

Number of Onsite Motor Vehicles for Block 2 Construction

Vehicle Type	Number per Month [a]																											
	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
Onsite Pick-up Truck	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Onsite Stake Truck	1	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Onsite Dump Truck	1	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0

Notes:
[a] Vehicle counts taken from 'HBEP Equipment Usage 1.21.13.xls'.

Table 5.1A.25R Construction Equipment Exhaust Criteria Pollutant Emission Factors

Construction Equipment Emission Factors for Block 2 Construction

Equipment [a]	Percent Usage [b]	Hours per Month [c]	Horsepower [d]	Load Factor [d]	Emission Factors (g/bhp-hr) [e]												Fuel Consumption (gallons/hour) [f]
					CO	VOC	NO_X 2018	NO_X 2019	NO_X 2020	SO_X	PM_{10} 2018	PM_{10} 2019	PM_{10} 2020	$PM_{2.5}$ 2018	$PM_{2.5}$ 2019	$PM_{2.5}$ 2020	
Water Truck [g]	50%	115	381	0.57	1.164	0.345	2.025	1.779	1.561	0.005	0.073	0.064	0.057	0.073	0.064	0.057	12.32
Excavator	85%	196	157	0.57	3.362	0.417	2.567	2.242	1.958	0.006	0.133	0.114	0.098	0.133	0.114	0.098	5.11
Grader	80%	184	162	0.61	3.345	0.485	3.211	2.881	2.578	0.006	0.176	0.157	0.139	0.176	0.157	0.139	5.65
Cranes	65%	150	208	0.43	1.277	0.398	3.125	2.807	2.507	0.006	0.107	0.096	0.086	0.107	0.096	0.086	5.08
Tractor/Loader/Backhoe	55%	127	75	0.55	3.764	0.477	3.226	2.951	2.709	0.006	0.201	0.169	0.141	0.201	0.169	0.141	2.36
Rubber Tired Loader	55%	127	87	0.54	3.873	0.636	3.975	3.677	3.404	0.006	0.296	0.261	0.228	0.296	0.261	0.228	2.69
Crawler Tractor	80%	184	82	0.64	4.040	0.816	4.826	4.517	4.228	0.006	0.386	0.352	0.320	0.386	0.352	0.320	3.01
Air Compressor	80%	184	78	0.48	3.744	0.603	4.050	3.706	3.400	0.006	0.304	0.260	0.224	0.304	0.260	0.224	2.14
Forklift	75%	173	149	0.30	3.365	0.396	2.338	2.046	1.782	0.006	0.124	0.105	0.087	0.124	0.105	0.087	2.55
Roller	60%	138	84	0.56	3.775	0.655	4.249	3.944	3.66	0.006	0.328	0.293	0.260	0.328	0.293	0.260	2.69
Other General Industrial Equipment	70%	161	150	0.51	3.353	0.488	3.277	2.915	2.591	0.006	0.178	0.156	0.138	0.178	0.156	0.138	4.37

Notes:

[a] Assumed all equipment is fired with diesel fuel, per Section 4.2 of Appendix A of the CalEEMod User's Guide.

[b] Percent Usage assumed typical of power plant construction.

[c] Hours per month calculated based on the following schedule, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Work hours per day: 10

Work days per month: 23

[d] Construction equipment horsepower and load factor taken from Table 3.3 of Appendix D of the CalEEMod User's Guide.

[e] Construction equipment emission factors taken from Table 3.4 of Appendix D of the CalEEMod User's Guide. The emission factors for the year 2018 were used for the construction equipment exhaust emission calculations for CO, VOC, and SOx. The emission factors for year 2018, 2019 and 2020 were used for NOx, PM10, and PM2.5.

[f] Fuel consumption based on consumption in the OFFROAD2007 model for the SCAB in the year 2018; value estimated by dividing the reported consumption (gallons/day) by the reported activity (hours/day).

[g] Horsepower, load factor, and emission factors for Off-Highway Trucks were assumed representative of Water Trucks.

Table 5.1A.26R Onsite and Offsite Motor Vehicle Criteria Pollutant Emission Factors

Vehicle Emission Factors for Block 2 Construction

Vehicle Type	Vehicle Class [a]	Exhaust Emission Factors (g/mile) [b]												Paved Road Emission Factors (g/mile) [c]		Fuel Economy (mpg) [b]
		CO	VOC	SO_X	NO_X 2018	NO_X 2019	NO_X 2020	PM_{10} 2018	PM_{10} 2019	PM_{10} 2020	$PM_{2.5}$ 2018	$PM_{2.5}$ 2019	$PM_{2.5}$ 2020	PM_{10}	$PM_{2.5}$	
Onsite Pick-up Truck	Light-duty Truck	2.934	0.182	0.011	0.278	0.258	0.239	0.126	0.126	0.127	0.104	0.105	0.105	N/A	N/A	7.455
Onsite Stake Truck	Heavy-duty Diesel	9.010	5.097	0.037	14.934	13.495	12.285	0.709	0.597	0.506	0.614	0.512	0.427	N/A	N/A	2.621
Onsite Dump Truck	Heavy-duty Diesel	9.010	5.097	0.037	14.934	13.495	12.285	0.709	0.597	0.506	0.614	0.512	0.427	N/A	N/A	2.621
Offsite Delivery Trucks	Heavy-duty Diesel	1.886	0.384	0.017	5.193	4.648	4.193	0.248	0.229	0.214	0.190	0.173	0.159	0.300	0.075	5.749
Material Hauling Trucks	Heavy/Medium-duty Diesel	1.513	0.251	0.016	4.046	3.632	3.278	0.206	0.194	0.184	0.163	0.142	0.143	0.300	0.075	6.224
Construction Worker Commute	Light-duty Auto/Truck	1.229	0.021	0.003	0.114	0.104	0.097	0.033	0.033	0.033	0.018	0.018	0.018	0.300	0.075	27.419

Notes:

[a] The vehicle classes are represented as follows:

Light-duty Truck: Assumed to be an average of LDT1, All and LDT2, All values.
Heavy-duty Diesel: Assumed to be 100% HHD DSL values, as confirmed in Section 4.5 of Appendix A of the CalEEMod User's Guide.
Heavy/Medium-duty Diesel: 50% HHD DSL and 50% MHD DSL values, per Section 4.5 of Appendix A of the CalEEMod User's Guide.
Light-duty Auto/Truck: 50% LDA, All; 25% LDT1, All; and 25% LDT2, All values, per Section 4.5 of Appendix A of the CalEEMod User's Guide.

[b] Exhaust emission factors and fuel economy from EMFAC2007 for the South Coast Air Basin, calendar year 2018 for CO, VOC, and SOx. Calendar year 2018, 2019 and 2020 were used for NOx, PM10, and PM2.5. A speed of 5 mph was assumed for onsite vehicles; a speed of 40 mph was assumed for offsite vehicles and worker commutes, which is consistent with the CalEEMod defaults. An average temperature of 68°F and humidity of 55% were used per Table B-1 of CT-EMFAC: A Computer Model to Estimate Transportation Project Emissions.

[c] Paved road emission factors calculated using CalEEMod methodology, as described below.

Derivation of Paved Road Emission Factors

Vehicles on Paved Roads

Parameter	PM_{10}	$PM_{2.5}$
Average Weight [a]	2.4	2.4
k [b]	1.0	0.25
sL [a]	0.1	0.1
Emission Factor (g/mile) [c]	0.300	0.075

Notes:

[a] Average Weight and sL taken as the default value from CalEEMod.

[b] k taken from Table 13.2.1-1 of Section 13.2.1 of AP-42.

[c] Emission factor calculated using Equation 1 from Section 13.2.1 of AP-42:

Emission Factor (g/mile) = k (g/mile) x $[sL\ (g/m^2)]^{0.91}$ x $[\text{Average Weight (tons)}]^{1.02}$

Table 5.1A.27R Onsite and Offsite Greenhouse Gas Emission Factors

Greenhouse Gas Emission Factors for Block 2 Construction

Fuel / Category Type	Emission Factor	Emission Factor Units	Emission Factor Source
CO_2 Emission Factors			
Gasoline	8.78	kg CO_2/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.1, May 2008 as updated through January 2012.
Diesel	10.21	kg CO_2/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.1, May 2008 as updated through January 2012.
N_2O Emission Factors			
Gasoline Passenger Car Model Year 2009 [a]	0.0036	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Gasoline Light-duty Truck Model Year 2009 [a]	0.0066	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Heavy-duty Truck Model Year 1960 - 2009 [a]	0.0048	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Off-road Vehicle	0.26	g N_2O/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.7, May 2008 as updated through January 2012.
CH_4 Emission Factors			
Gasoline Passenger Car Model Year 2009 [a]	0.0173	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Gasoline Light-duty Truck Model Year 2009 [a]	0.0163	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Heavy-duty Truck Model Year 1960 - 2009 [a]	0.0051	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Off-road Vehicle	0.58	g CH_4/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.7, May 2008 as updated through January 2012.

Notes:

[a] Model Year 2009 was the most recent year of emission factors available. As a result, it was assumed representative of vehicles used for this project.

Table 5.1A.28R Onsite Construction Equipment Exhaust Emissions

Construction Equipment CO Emissions from Units 1 & 2 Demolition

	CO Emisisons (lbs/month)																							
Onsite Equipment	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Water Truck	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55	62.55
Cranes	109.30	109.30	109.30	109.30	109.30	109.30	72.87	72.87	72.87	72.87	72.87	72.87	72.87	72.87	72.87	72.87	109.30	109.30	109.30	109.30	109.30	109.30	109.30	109.30
Rubber Tired Loader	50.26	50.26	50.26	50.26	50.26	50.26	50.26	50.26	50.26	50.26	50.26	50.26	50.26	50.26	50.26	50.26	100.52	100.52	100.52	100.52	100.52	100.52	100.52	100.52
Air Compressor	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33	112.33
Forklift	57.12	57.12	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23	114.23
Excavator	259.27	259.27	388.90	388.90	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53	518.53
Onsite Total (lbs/month)	**650.82**	**650.82**	**837.57**	**837.57**	**967.20**	**967.20**	**930.77**	**930.77**	**930.77**	**930.77**	**930.77**	**930.77**	**930.77**	**930.77**	**930.77**	**930.77**	**1,017.46**	**1,017.46**	**1,017.46**	**1,017.46**	**1,017.46**	**1,017.46**	**1,017.46**	**1,017.46**
Onsite Total (lbs/day) [a]	**28.30**	**28.30**	**36.42**	**36.42**	**42.05**	**42.05**	**40.47**	**40.47**	**40.47**	**40.47**	**40.47**	**40.47**	**40.47**	**40.47**	**40.47**	**40.47**	**44.24**	**44.24**	**44.24**	**44.24**	**44.24**	**44.24**	**44.24**	**44.24**
Onsite Total (tons/year)	**5.93**																							

Construction Equipment VOC Emissions from Units 1 & 2 Demolition

	VOC Emisisons (lbs/month)																							
Onsite Equipment	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Water Truck	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07	17.07
Cranes	31.48	31.48	31.48	31.48	31.48	31.48	20.99	20.99	20.99	20.99	20.99	20.99	20.99	20.99	20.99	20.99	31.48	31.48	31.48	31.48	31.48	31.48	31.48	31.48
Rubber Tired Loader	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.10	7.10	14.20	14.20	14.20	14.20	14.20	14.20	14.20	14.20
Air Compressor	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85	14.85
Forklift	5.75	5.75	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49	11.49
Excavator	27.38	27.38	41.08	41.08	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77	54.77
Onsite Total (lbs/month)	**103.64**	**103.64**	**123.07**	**123.07**	**136.77**	**136.77**	**126.27**	**126.27**	**126.27**	**126.27**	**126.27**	**126.27**	**126.27**	**126.27**	**126.27**	**126.27**	**143.87**	**143.87**	**143.87**	**143.87**	**143.87**	**143.87**	**143.87**	**143.87**
Onsite Total (lbs/day) [a]	**4.51**	**4.51**	**5.35**	**5.35**	**5.95**	**5.95**	**5.49**	**5.49**	**5.49**	**5.49**	**5.49**	**5.49**	**5.49**	**5.49**	**5.49**	**5.49**	**6.26**	**6.26**	**6.26**	**6.26**	**6.26**	**6.26**	**6.26**	**6.26**
Onsite Total (tons/year)	**0.83**																							

Construction Equipment NOx Emissions from Units 1 & 2 Demolition

	NOx Emissions (lbs/month)																							
Onsite Equipment	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Water Truck	85.95	85.95	85.95	75.15	75.15	75.15	75.15	75.15	75.15	75.15	75.15	75.15	75.15	75.15	75.15	65.74	65.74	65.74	65.74	65.74	65.74	65.74	65.74	65.74
Cranes	221.71	221.71	221.71	197.30	197.30	197.30	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53	131.53	116.67	175.01	175.01	175.01	175.01	175.01	175.01	175.01	175.01
Rubber Tired Loader	44.60	44.60	44.60	41.34	41.34	41.34	41.34	41.34	41.34	41.34	41.34	41.34	41.34	41.34	41.34	38.38	76.75	76.75	76.75	76.75	76.75	76.75	76.75	76.75
Air Compressor	103.27	103.27	103.27	93.64	93.64	93.64	93.64	93.64	93.64	93.64	93.64	93.64	93.64	93.64	93.64	86.39	86.39	86.39	86.39	86.39	86.39	86.39	86.39	86.39
Forklift	30.29	30.29	60.58	51.27	51.27	51.27	51.27	51.27	51.27	51.27	51.27	51.27	51.27	51.27	51.27	43.55	43.55	43.55	43.55	43.55	43.55	43.55	43.55	43.55
Excavator	151.04	151.04	226.56	197.86	263.82	263.82	263.82	263.82	263.82	263.82	263.82	263.82	263.82	263.82	263.82	230.19	230.19	230.19	230.19	230.19	230.19	230.19	230.19	230.19
Onsite Total (lbs/month)	**636.86**	**636.86**	**742.67**	**656.57**	**722.52**	**722.52**	**656.75**	**656.75**	**656.75**	**656.75**	**656.75**	**656.75**	**656.75**	**656.75**	**656.75**	**580.91**	**677.62**	**677.62**	**677.62**	**677.62**	**677.62**	**677.62**	**677.62**	**677.62**
Onsite Total (lbs/day) [a]	**27.69**	**27.69**	**32.29**	**28.55**	**31.41**	**31.41**	**28.55**	**28.55**	**28.55**	**28.55**	**28.55**	**28.55**	**28.55**	**28.55**	**28.55**	**25.26**	**29.46**	**29.46**	**29.46**	**29.46**	**29.46**	**29.46**	**29.46**	**29.46**
Onsite Total (tons/year)	**4.05**																							

Construction Equipment SOx Emissions from Units 1 & 2 Demolition

	SOx Emissions (lbs/month)																							
Onsite Equipment	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Water Truck	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
Cranes	0.53	0.53	0.53	0.53	0.53	0.53	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53
Rubber Tired Loader	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Air Compressor	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Forklift	0.10	0.10	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Excavator	0.46	0.46	0.69	0.69	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Onsite Total (lbs/month)	**1.63**	**1.63**	**1.97**	**1.97**	**2.20**	**2.20**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.02**	**2.28**	**2.28**	**2.28**	**2.28**	**2.28**	**2.28**	**2.28**	**2.28**
Onsite Total (lbs/day) [a]	**0.07**	**0.07**	**0.09**	**0.09**	**0.10**	**0.10**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.09**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**
Onsite Total (tons/year)	**0.01**																							

Table 5.1A.28R Onsite Construction Equipment Exhaust Emissions

Construction Equipment PM_{10} Emissions from Units 1 & 2 Demolition

	PM_{10} Emissions (lbs/month)																							
Onsite Equipment	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Water Truck	3.14	3.14	3.14	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37
Cranes	7.61	7.61	7.61	6.81	6.81	6.81	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01
Rubber Tired Loader	2.99	2.99	2.99	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.24	4.48	4.48	4.48	4.48	4.48	4.48	4.48	4.48
Air Compressor	6.80	6.80	6.80	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01
Forklift	1.48	1.48	2.96	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84
Excavator	7.56	7.56	11.34	9.84	13.11	13.11	13.11	13.11	13.11	13.11	13.11	13.11	13.11	13.11	13.11	11.26	11.26	11.26	11.26	11.26	11.26	11.26	11.26	11.26
Onsite Total (lbs/month)	**29.57**	**29.57**	**34.83**	**30.11**	**33.39**	**33.39**	**31.12**	**31.12**	**31.12**	**31.12**	**31.12**	**31.12**	**31.12**	**31.12**	**31.12**	**26.73**	**30.97**	**30.97**	**30.97**	**30.97**	**30.97**	**30.97**	**30.97**	**30.97**
Onsite Total (lbs/day) [a]	**1.29**	**1.29**	**1.51**	**1.31**	**1.45**	**1.45**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.16**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**
Onsite Total (tons/year)	**0.19**																							

Construction Equipment $PM_{2.5}$ Emissions from Units 1 & 2 Demolition

	$PM_{2.5}$ Emissions (lbs/month)																							
Onsite Equipment	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Water Truck	3.14	3.14	3.14	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37
Cranes	7.61	7.61	7.61	6.81	6.81	6.81	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01	6.01
Rubber Tired Loader	2.99	2.99	2.99	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.59	2.24	4.48	4.48	4.48	4.48	4.48	4.48	4.48	4.48
Air Compressor	6.80	6.80	6.80	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01	5.01
Forklift	1.48	1.48	2.96	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	2.35	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84
Excavator	7.56	7.56	11.34	9.84	13.11	13.11	13.11	13.11	13.11	13.11	13.11	13.11	13.11	13.11	13.11	11.26	11.26	11.26	11.26	11.26	11.26	11.26	11.26	11.26
Onsite Total (lbs/month)	**29.57**	**29.57**	**34.83**	**30.11**	**33.39**	**33.39**	**31.12**	**31.12**	**31.12**	**31.12**	**31.12**	**31.12**	**31.12**	**31.12**	**31.12**	**26.73**	**30.97**	**30.97**	**30.97**	**30.97**	**30.97**	**30.97**	**30.97**	**30.97**
Onsite Total (lbs/day) [a]	**1.29**	**1.29**	**1.51**	**1.31**	**1.45**	**1.45**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.16**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**	**1.35**
Onsite Total (tons/year)	**0.19**																							

Construction Equipment CO_2 Emissions from Units 1 & 2 Demolition

	CO_2 Emissions (metric tons/month)																							
Onsite Equipment	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Water Truck	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47	14.47
Cranes	23.26	23.26	23.26	23.26	23.26	23.26	15.51	15.51	15.51	15.51	15.51	15.51	15.51	15.51	15.51	15.51	23.26	23.26	23.26	23.26	23.26	23.26	23.26	23.26
Rubber Tired Loader	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	6.95	6.95	6.95	6.95	6.95	6.95	6.95	6.95
Air Compressor	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04	8.04
Forklift	4.49	4.49	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98	8.98
Excavator	20.40	20.40	30.60	30.60	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80	40.80
Onsite Total (metric tons/month)	**74.13**	**74.13**	**88.82**	**88.82**	**99.02**	**99.02**	**91.27**	**91.27**	**91.27**	**91.27**	**91.27**	**91.27**	**91.27**	**91.27**	**91.27**	**91.27**	**102.50**	**102.50**	**102.50**	**102.50**	**102.50**	**102.50**	**102.50**	**102.50**
Onsite Total (metric tons/day) [a]	**3.22**	**3.22**	**3.86**	**3.86**	**4.31**	**4.31**	**3.97**	**3.97**	**3.97**	**3.97**	**3.97**	**3.97**	**3.97**	**3.97**	**3.97**	**3.97**	**4.46**	**4.46**	**4.46**	**4.46**	**4.46**	**4.46**	**4.46**	**4.46**
Onsite Total (metric tons/year)	**1,185.07**																							

Construction Equipment N_2O Emissions from Units 1 & 2 Demolition

	N_2O Emissions (metric tons/month)																							
Onsite Equipment	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Water Truck	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004
Cranes	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
Rubber Tired Loader	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Air Compressor	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Forklift	0.0001	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Excavator	0.0005	0.0005	0.0008	0.0008	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
Onsite Total (metric tons/month)	**0.0019**	**0.0019**	**0.0023**	**0.0023**	**0.0025**	**0.0025**	**0.0023**	**0.0023**	**0.0023**	**0.0023**	**0.0023**	**0.0023**	**0.0023**	**0.0023**	**0.0023**	**0.0023**	**0.0026**	**0.0026**	**0.0026**	**0.0026**	**0.0026**	**0.0026**	**0.0026**	**0.0026**
Onsite Total (metric tons/day) [a]	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**	**0.0001**
Onsite Total (metric tons/year)	**0.0302**																							

Table 5.1A.28R Onsite Construction Equipment Exhaust Emissions

Construction Equipment CH_4 Emissions from Units 1 & 2 Demolition

	CH_4 Emissions (metric tons/month)																							
Onsite Equipment	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Water Truck	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
Cranes	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013
Rubber Tired Loader	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004
Air Compressor	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Forklift	0.0003	0.0003	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Excavator	0.0012	0.0012	0.0017	0.0017	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023	0.0023
Onsite Total (metric tons/month)	**0.0042**	**0.0042**	**0.0050**	**0.0050**	**0.0056**	**0.0056**	**0.0052**	**0.0052**	**0.0052**	**0.0052**	**0.0052**	**0.0052**	**0.0052**	**0.0052**	**0.0052**	**0.0052**	**0.0058**	**0.0058**	**0.0058**	**0.0058**	**0.0058**	**0.0058**	**0.0058**	**0.0058**
Onsite Total (metric tons/day) [a]	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0002**	**0.0003**	**0.0003**	**0.0003**	**0.0003**	**0.0003**	**0.0003**	**0.0003**	**0.0003**
Onsite Total (metric tons/year)	**0.0673**																							

Notes:

[a] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls', the days per month are as follows: 23

Table 5.1A.29R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle CO Emissions from Units 1 & 2 Demolition

	CO Emissions (lbs/day)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Onsite Stake Truck	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Onsite Dump Truck	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Onsite Total (lbs/day)	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**	**0.06**
	CO Emissions (lbs/month) [a]																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Onsite Stake Truck	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78
Onsite Dump Truck	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
Onsite Total (lbs/month)	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**	**1.43**
Onsite Total (tons/year)	**0.01**																							

Onsite Construction Vehicle VOC Emissions from Units 1 & 2 Demolition

	VOC Emisisons (lbs/day)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Onsite Stake Truck	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
Onsite Dump Truck	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
Onsite Total (lbs/day)	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**	**0.029**
	VOC Emissions (lbs/month) [a]																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Onsite Stake Truck	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43
Onsite Dump Truck	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Onsite Total (lbs/month)	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**	**0.66**
Onsite Total (tons/year)	**0.00**																							

Onsite Construction Vehicle SOx Emissions from Units 1 & 2 Demolition

	SOx Emissions (lbs/day)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
Onsite Stake Truck	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016
Onsite Dump Truck	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
Onsite Total (lbs/day)	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**
	SOx Emissions (lbs/month) [a]																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011
Onsite Stake Truck	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038
Onsite Dump Truck	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019
Onsite Total (lbs/month)	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**	**0.0067**
Onsite Total (tons/year)	**0.0000**																							

Onsite Construction Vehicle NOx Emissions from Units 1 & 2 Demolition

	NOx Emissions (lbs/day)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Onsite Stake Truck	0.054	0.054	0.054	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046	0.046
Onsite Dump Truck	0.027	0.027	0.027	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
Onsite Total (lbs/day)	**0.082**	**0.082**	**0.082**	**0.075**	**0.075**	**0.075**	**0.075**	**0.075**	**0.075**	**0.075**	**0.075**	**0.075**	**0.075**	**0.075**	**0.075**	**0.070**	**0.070**	**0.070**	**0.070**	**0.070**	**0.070**	**0.070**	**0.070**	**0.070**
	NOx Emissions (lbs/month) [a]																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.024	0.024	0.024	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
Onsite Stake Truck	1.246	1.246	1.246	1.140	1.140	1.140	1.140	1.140	1.140	1.140	1.140	1.140	1.140	1.140	1.140	1.052	1.052	1.052	1.052	1.052	1.052	1.052	1.052	1.052
Onsite Dump Truck	0.623	0.623	0.623	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.570	0.526	0.526	0.526	0.526	0.526	0.526	0.526	0.526	0.526
Onsite Total (lbs/month)	**1.893**	**1.893**	**1.893**	**1.733**	**1.733**	**1.733**	**1.733**	**1.733**	**1.733**	**1.733**	**1.733**	**1.733**	**1.733**	**1.733**	**1.733**	**1.599**	**1.599**	**1.599**	**1.599**	**1.599**	**1.599**	**1.599**	**1.599**	**1.599**
Onsite Total (tons/year)	**0.011**																							

Onsite Construction Vehicle PM_{10} Emissions from Units 1 & 2 Demolition

	PM_{10} Emissions (lbs/day)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
Onsite Stake Truck	0.0022	0.0022	0.0022	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0019	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
Onsite Dump Truck	0.0011	0.0011	0.0011	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
Onsite Total (lbs/day)	**0.0039**	**0.0039**	**0.0039**	**0.0034**	**0.0034**	**0.0034**	**0.0034**	**0.0034**	**0.0034**	**0.0034**	**0.0034**	**0.0034**	**0.0034**	**0.0034**	**0.0034**	**0.0030**	**0.0030**	**0.0030**	**0.0030**	**0.0030**	**0.0030**	**0.0030**	**0.0030**	**0.0030**
	PM_{10} Emissions (lbs/month) [a]																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
Onsite Stake Truck	0.051	0.051	0.051	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
Onsite Dump Truck	0.026	0.026	0.026	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.022	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
Onsite Total (lbs/month)	**0.090**	**0.090**	**0.090**	**0.078**	**0.078**	**0.078**	**0.078**	**0.078**	**0.078**	**0.078**	**0.078**	**0.078**	**0.078**	**0.078**	**0.078**	**0.069**	**0.069**	**0.069**	**0.069**	**0.069**	**0.069**	**0.069**	**0.069**	**0.069**
Onsite Total (tons/year)	**0.000**																							

Table 5.1A.29R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle $PM_{2.5}$ Emissions from Units 1 & 2 Demolition

	$PM_{2.5}$ Emissions (lbs/day)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Onsite Stake Truck	0.0019	0.0019	0.0019	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013
Onsite Dump Truck	0.0009	0.0009	0.0009	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
Onsite Total (lbs/day)	**0.0033**	**0.0033**	**0.0033**	**0.0028**	**0.0028**	**0.0028**	**0.0028**	**0.0028**	**0.0028**	**0.0028**	**0.0028**	**0.0028**	**0.0028**	**0.0028**	**0.0028**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**	**0.0025**
	$PM_{2.5}$ Emissions (lbs/month) [a]																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Onsite Stake Truck	0.043	0.043	0.043	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
Onsite Dump Truck	0.022	0.022	0.022	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Onsite Total (lbs/month)	**0.076**	**0.076**	**0.076**	**0.065**	**0.065**	**0.065**	**0.065**	**0.065**	**0.065**	**0.065**	**0.065**	**0.065**	**0.065**	**0.065**	**0.065**	**0.057**	**0.057**	**0.057**	**0.057**	**0.057**	**0.057**	**0.057**	**0.057**	**0.057**
Onsite Total (tons/year)	**0.000**																							

Onsite Construction Vehicle CO_2 Emissions from Units 1 & 2 Demolition

	CO_2 Emissions (metric tons/day)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Onsite Stake Truck	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Onsite Dump Truck	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Onsite Total (metric tons/day)	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**	**0.014**
	CO_2 Emissions (metric tons/month) [a]																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054
Onsite Stake Truck	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179	0.179
Onsite Dump Truck	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090
Onsite Total (metric tons/month)	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**	**0.323**
Onsite Total (metric tons/year)	**3.875**																							

Onsite Construction Vehicle N_2O Emissions from Units 1 & 2 Demolition

	N_2O Emissions (metric tons/day)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013
Onsite Stake Truck	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010
Onsite Dump Truck	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005
Onsite Total (metric tons/day)	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000028**
	N_2O Emissions (metric tons/month) [a]																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030
Onsite Stake Truck	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022
Onsite Dump Truck	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011	0.00000011
Onsite Total (metric tons/month)	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000063**
Onsite Total (metric tons/year)	**0.00000762**																							

Onsite Construction Vehicle CH_4 Emissions from Units 1 & 2 Demolition

	CH_4 Emissions (metric tons/day)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033
Onsite Stake Truck	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010
Onsite Dump Truck	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005	0.000000005
Onsite Total (metric tons/day)	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000048**
	CH_4 Emissions (metric tons/month) [a]																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007	0.0000007
Onsite Stake Truck	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002
Onsite Dump Truck	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001	0.0000001
Onsite Total (metric tons/month)	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**	**0.0000011**
Onsite Total (metric tons/year)	**0.0000132**																							

Notes:

[a] The days per month are per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls', as presented on the 'Onsite Fugitive Dust' tab.

Table 5.1A.30R Onsite Demolition Fugitive Dust Emissions

Demolition Activity Levels for Units 1 & 2 Demolition

	Monthly Activity Levels																							
Source	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Debris Generated from Mechanical Dismemberment (tons) [a]	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83	972.83

[a] Debris generated from Table 5.14-3, Wastes Generated during Demolition of HBGS Units 1 & 2 or HBGS Units 3 & 4. Only materials generated from demolition that may generate fugitive dust were included. The monthly quantities were determined as follows:

Scrap Materials	16,000	lbs/week	which equals	32.00	tons/month
Scrap Metals	20,000	tons	which equals	833.33	tons/month
Concrete	1,500	tons	which equals	62.50	tons/month
Asphalt	80	tons	which equals	3.33	tons/month
Asbestos Waste	1,000	tons	which equals	41.67	tons/month

The above calculations are based on the following assumptions:

Demolition will last	24	months
The construction schedule allows for	4	weeks/month

Onsite Construction Vehicle Fugitive PM_{10} Emissions from Units 1 & 2 Demolition

	Fugitive PM_{10} Emissions (lbs/day) [a]																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13
Onsite Stake Truck	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13	2.13
Onsite Dump Truck	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
Onsite Total (lbs/day)	**5.33**	**5.33**	**5.33**	**5.33**	**5.33**	**5.33**	**5.33**	**5.33**	**5.33**	**5.33**	**5.33**	**5.33**	**5.33**	**5.33**	**5.33**	**5.33**	**5.33**	**5.33**	**5.33**	**5.33**	**5.33**	**5.33**	**5.33**	**5.33**
	Fugitive PM_{10} Emissions (lbs/month)																							
Vehicle Type	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**	**91**	**92**	**93**	**94**	**95**	**96**
Onsite Pick-up Truck	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03
Onsite Stake Truck	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03	49.03
Onsite Dump Truck	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51	24.51
Onsite Total (lbs/month)	**122.57**	**122.57**	**122.57**	**122.57**	**122.57**	**122.57**	**122.57**	**122.57**	**122.57**	**122.57**	**122.57**	**122.57**	**122.57**	**122.57**	**122.57**	**122.57**	**122.57**	**122.57**	**122.57**	**122.57**	**122.57**	**122.57**	**122.57**	**122.57**
Onsite Total (tons/year)	**0.74**																							

Notes:
[a] Emissions based on highest (controlled) unpaved road emission factor for PM_{10}.

Onsite Construction Vehicle Fugitive $PM_{2.5}$ Emissions from Units 1 & 2 Demolition

	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a]																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Onsite Stake Truck	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Onsite Dump Truck	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Onsite Total (lbs/day)	**0.53**	**0.53**	**0.53**	**0.53**	**0.53**	**0.53**	**0.53**	**0.53**	**0.53**	**0.53**	**0.53**	**0.53**	**0.53**	**0.53**	**0.53**	**0.53**	**0.53**	**0.53**	**0.53**	**0.53**	**0.53**	**0.53**	**0.53**	**0.53**
	Fugitive $PM_{2.5}$ Emissions (lbs/month)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90
Onsite Stake Truck	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90	4.90
Onsite Dump Truck	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45	2.45
Onsite Total (lbs/month)	**12.26**	**12.26**	**12.26**	**12.26**	**12.26**	**12.26**	**12.26**	**12.26**	**12.26**	**12.26**	**12.26**	**12.26**	**12.26**	**12.26**	**12.26**	**12.26**	**12.26**	**12.26**	**12.26**	**12.26**	**12.26**	**12.26**	**12.26**	**12.26**
Onsite Total (tons/year)	**0.07**																							

Notes:
[a] Emissions based on the highest (controlled) unpaved road emission factor for $PM_{2.5}$.

Onsite Demolition Fugitive PM_{10} Emissions from Units 1 & 2 Demolition

	Fugitive PM_{10} Emissions (lbs/day) [a]																							
Demolition Activity	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Dismemberment	10.28	10.28	10.28	10.28	10.28	10.28	10.28	10.28	10.28	10.28	10.28	10.28	10.28	10.28	10.28	10.28	10.28	10.28	10.28	10.28	10.28	10.28	10.28	10.28
Debris Loading [b]	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Onsite Total (lbs/day)	**11.14**	**11.14**	**11.14**	**11.14**	**11.14**	**11.14**	**11.14**	**11.14**	**11.14**	**11.14**	**11.14**	**11.14**	**11.14**	**11.14**	**11.14**	**11.14**	**11.14**	**11.14**	**11.14**	**11.14**	**11.14**	**11.14**	**11.14**	**11.14**
	Fugitive PM_{10} Emissions (lbs/month) [a]																							
Demolition Activity	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Dismemberment	236.45	236.45	236.45	236.45	236.45	236.45	236.45	236.45	236.45	236.45	236.45	236.45	236.45	236.45	236.45	236.45	236.45	236.45	236.45	236.45	236.45	236.45	236.45	236.45
Debris Loading [b]	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75	19.75
Onsite Total (lbs/month)	**256.20**	**256.20**	**256.20**	**256.20**	**256.20**	**256.20**	**256.20**	**256.20**	**256.20**	**256.20**	**256.20**	**256.20**	**256.20**	**256.20**	**256.20**	**256.20**	**256.20**	**256.20**	**256.20**	**256.20**	**256.20**	**256.20**	**256.20**	**256.20**
Onsite Total (tons/year)	**1.54**																							

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Assume that all debris generated per month from dismemberment is loaded in the same month that it is generated.

Table 5.1A.30R Onsite Demolition Fugitive Dust Emissions

Onsite Demolition Fugitive $PM_{2.5}$ Emissions from Units 1 & 2 Demolition

	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a]																							
Demolition Activity	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Dismemberment	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56
Debris Loading [b]	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
Onsite Total (lbs/day)	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**	**1.69**
	Fugitive $PM_{2.5}$ Emissions (lbs/month) [a]																							
Demolition Activity	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Dismemberment	35.81	35.81	35.81	35.81	35.81	35.81	35.81	35.81	35.81	35.81	35.81	35.81	35.81	35.81	35.81	35.81	35.81	35.81	35.81	35.81	35.81	35.81	35.81	35.81
Debris Loading [b]	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99
Onsite Total (lbs/month)	**38.80**	**38.80**	**38.80**	**38.80**	**38.80**	**38.80**	**38.80**	**38.80**	**38.80**	**38.80**	**38.80**	**38.80**	**38.80**	**38.80**	**38.80**	**38.80**	**38.80**	**38.80**	**38.80**	**38.80**	**38.80**	**38.80**	**38.80**	**38.80**
Onsite Total (tons/year)	**0.23**																							

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Assume that all debris generated per month from dismemberment is loaded in the same month that it is generated.

Onsite Construction Vehicle Activity for Units 1 & 2 Demolition

Vehicle Type	Miles/Day [a]	Working Days per Month [b]
Onsite Pick-up Truck	2	23
Onsite Stake Truck	2	23
Onsite Dump Truck	1	23

Notes:
[a] Estimated based on the dimensions of the project site.
[b] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Fugitive Dust Emission Factors for Unpaved Roads

Vehicles on Unpaved Surfaces at Industrial Sites

Parameter	PM_{10}	$PM_{2.5}$
Mean Vehicle Weight [a]	16.5	16.5
Silt Content [b]	8.5	8.5
k [c]	1.5	0.15
a [c]	0.9	0.9
b [c]	0.45	0.45
Emission Factor (Uncontrolled, lbs/mile) [d]	2.37	0.24
Reduction from Watering Twice/Day [e]	55%	55%
Emission Factor (Controlled, lbs/mile)	1.07	0.11

Notes:
[a] Mean vehicle weight assumes that medium/heavy duty trucks weigh 16.5 tons.
[b] Silt content taken from Table 13.2.2-1 of Section 13.2.2 of AP-42 for a Construction Site, Scraper Route; this value is consistent with the CalEEMod defaults.
[c] k, a, and b taken from Table 13.2.2-2 of Section 13.2.2 of AP-42 for industrial roads.
[d] Emission factor calculated using the following equation from Section 13.2.2 of AP-42: Emission Factor (lbs/mile) = $\{k\ (\text{lbs/mile}) \times [\text{Silt Content } (\%) / 12]^{a} \times [\text{Mean Vehicle Weight (tons)} / 3]^{b}$
[e] Control efficiency taken from Table XI-D of the SCAQMD CEQA Handbook for Travel Over Unpaved Roads; this value is consistent with the CalEEMod defaults.

Fugitive Dust Emission Factors for Dismemberment

Dismemberment and Collapse of Structures

Parameter	PM_{10}	$PM_{2.5}$
k [a]	0.35	0.053
U [b]	2.2	2.2
M [c]	2%	2%
Emission Factor (lbs/ton) [d]	0.243	0.037

Notes:
[a] k, the particle size multiplier, taken from Section 13.2.4.3 of AP-42 per Section 4.4 of Appendix A of the CalEEMod User's Guide.
[b] U, the mean wind speed, taken as the CalEEMod default for the South Coast Air Basin.
[c] M, the material moisture content, taken from Section 4.4 of Appendix A of the CalEEMod User's Guide.
[d] Emission factor calculated using the following equation from Section 13.2.4.3 of AP-42 per Section 4.4 of Appendix A of the CalEEMod User's Guide:

Emission Factor (lbs/ton) = $k \times 0.0032 \times [U\ (m/s) / 5]^{1.3} \times [M\ (\%) / 2]^{1.4}$

Fugitive Dust Emission Factors for Debris Loading

Loading of Debris/Building Waste

Parameter	PM_{10}	$PM_{2.5}$
k [a]	0.35	0.053
$EF_{L\text{-}TSP}$ [b]	0.058	0.058
Emission Factor (lbs/ton) [c]	0.020	0.003

Notes:
[a] k taken from Section 13.2.4.3 of AP-42 per Section 4.4 of Appendix A of the CalEEMod User's Guide.
[b] $EF_{L\text{-}TSP}$ taken from Section 4.4 of Appendix A of the CalEEMod User's Guide.
[c] Emission factor calculated using the following equation from Section 4.4 of Appendix A of the CalEEMod User's Guide:

Emission Factor (lbs/ton) = $k \times EF_{L\text{-}TSP}$ (lbs/ton)

Table 5.1A.31R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle Usage During Units 1 & 2 Demolition

	Number per Day																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks [a]	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
Material Hauling Trucks [b]	1.00	1.00	1.00	1.00	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	1.50	1.50	1.50	1.00
Waste Hauling Trucks [c]	3.00	4.00	4.00	5.00	5.00	5.00	6.00	6.00	8.00	8.00	11.00	11.00	12.00	13.00	13.00	13.00	13.00	13.00	13.00	9.00	8.00	6.00	5.00	5.00
Construction Worker Commute [d]	13.00	13.00	28.00	40.00	44.00	50.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00	46.00	45.00	26.00	23.00	15.00

Notes:

[a] Offsite Delivery Trucks include trucks transporting "Consumables & Supplies", as provided in 'Huntington Beach Truck Deliveries 032112.xls'.

[b] Material Hauling Trucks include trucks transporting "Contractor Mobilization", "Contractor Demobilization", and "Construction Equipment", as provided in 'Huntington Beach Truck Deliveries 032112.xls'.

[c] Waste Hauling Trucks include trucks transporting "Mechanical Equipment", "Electrical Equip. & Mtrls", "Concrete / Rebar / Rubble", and "Steel/Architectural", as provided in 'Huntington Beach Truck Deliveries 032112.xls'.

[d] Assumed 1 commute per 1 worker; number of workers taken from 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Offsite Vehicle CO Emissions from Units 1 & 2 Demolition

	CO Emissions (lbs/day)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.00
Material Hauling Trucks	0.12	0.12	0.12	0.12	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.18	0.18	0.18	0.12
Waste Hauling Trucks	0.54	0.72	0.72	0.90	0.90	0.90	1.08	1.08	1.44	1.44	1.98	1.98	2.16	2.34	2.34	2.34	2.34	2.34	2.34	1.62	1.44	1.08	0.90	0.90
Construction Worker Commute	0.67	0.67	1.44	2.05	2.26	2.56	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.46	2.36	2.31	1.33	1.18	0.77
Offsite Total (lbs/day)	**1.38**	**1.56**	**2.33**	**3.12**	**3.27**	**3.58**	**3.65**	**3.65**	**4.01**	**4.01**	**4.55**	**4.55**	**4.73**	**4.91**	**4.91**	**4.91**	**4.91**	**4.91**	**4.91**	**4.09**	**3.98**	**2.64**	**2.31**	**1.79**
	CO Emissions (lbs/month)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	0.00
Material Hauling Trucks	2.76	2.76	2.76	2.76	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	4.13	4.13	4.13	2.76
Waste Hauling Trucks	12.40	16.54	16.54	20.67	20.67	20.67	24.81	24.81	33.08	33.08	45.48	45.48	49.61	53.75	53.75	53.75	53.75	53.75	53.75	37.21	33.08	24.81	20.67	20.67
Construction Worker Commute	15.33	15.33	33.03	47.18	51.90	58.98	56.62	56.62	56.62	56.62	56.62	56.62	56.62	56.62	56.62	56.62	56.62	56.62	56.62	54.26	53.08	30.67	27.13	17.69
Offsite Total (lbs/month)	**31.70**	**35.83**	**53.52**	**71.81**	**75.15**	**82.23**	**84.01**	**84.01**	**92.28**	**92.28**	**104.68**	**104.68**	**108.81**	**112.95**	**112.95**	**112.95**	**112.95**	**112.95**	**112.95**	**94.05**	**91.49**	**60.81**	**53.14**	**41.12**
Offsite Total (tons/year)	**0.64**																							

Offsite Vehicle VOC Emissions from Units 1 & 2 Demolition

	VOC Emissions (lbs/day)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
Material Hauling Trucks	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.03	0.03	0.02
Waste Hauling Trucks	0.09	0.12	0.12	0.15	0.15	0.15	0.18	0.18	0.23	0.23	0.32	0.32	0.35	0.38	0.38	0.38	0.38	0.38	0.38	0.26	0.23	0.18	0.15	0.15
Construction Worker Commute	0.01	0.01	0.02	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.02	0.02	0.01
Offsite Total (lbs/day)	**0.13**	**0.16**	**0.17**	**0.21**	**0.20**	**0.21**	**0.23**	**0.23**	**0.29**	**0.29**	**0.38**	**0.38**	**0.41**	**0.44**	**0.44**	**0.44**	**0.44**	**0.44**	**0.44**	**0.32**	**0.31**	**0.24**	**0.20**	**0.18**
	VOC Emissions (lbs/month)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.00
Material Hauling Trucks	0.45	0.45	0.45	0.45	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.67	0.67	0.67	0.45
Waste Hauling Trucks	2.02	2.69	2.69	3.36	3.36	3.36	4.03	4.03	5.38	5.38	7.40	7.40	8.07	8.74	8.74	8.74	8.74	8.74	8.74	6.05	5.38	4.03	3.36	3.36
Construction Worker Commute	0.24	0.24	0.52	0.74	0.82	0.93	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.86	0.84	0.48	0.43	0.28
Offsite Total (lbs/month)	**2.95**	**3.63**	**3.91**	**4.80**	**4.65**	**4.76**	**5.40**	**5.40**	**6.74**	**6.74**	**8.76**	**8.76**	**9.43**	**10.10**	**10.10**	**10.10**	**10.10**	**10.10**	**10.10**	**7.38**	**7.14**	**5.44**	**4.71**	**4.09**
Offsite Total (tons/year)	**0.05**																							

Offsite Vehicle SOx Emissions from Units 1 & 2 Demolition

	SOx Emissions (lbs/day)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0000
Material Hauling Trucks	0.0014	0.0014	0.0014	0.0014	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0021	0.0021	0.0021	0.0014
Waste Hauling Trucks	0.0062	0.0082	0.0082	0.0103	0.0103	0.0103	0.0123	0.0123	0.0164	0.0164	0.0226	0.0226	0.0246	0.0267	0.0267	0.0267	0.0267	0.0267	0.0267	0.0185	0.0164	0.0123	0.0103	0.0103
Construction Worker Commute	0.0020	0.0020	0.0043	0.0062	0.0068	0.0077	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0074	0.0071	0.0070	0.0040	0.0036	0.0023
Offsite Total (lbs/day)	**0.0101**	**0.0121**	**0.0144**	**0.0184**	**0.0183**	**0.0192**	**0.0210**	**0.0210**	**0.0251**	**0.0251**	**0.0312**	**0.0312**	**0.0333**	**0.0353**	**0.0353**	**0.0353**	**0.0353**	**0.0353**	**0.0353**	**0.0268**	**0.0260**	**0.0189**	**0.0164**	**0.0139**
	SOx Emissions (lbs/month)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.000
Material Hauling Trucks	0.031	0.031	0.031	0.031	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.047	0.047	0.047	0.031
Waste Hauling Trucks	0.141	0.189	0.189	0.236	0.236	0.236	0.283	0.283	0.377	0.377	0.519	0.519	0.566	0.613	0.613	0.613	0.613	0.613	0.613	0.424	0.377	0.283	0.236	0.236
Construction Worker Commute	0.046	0.046	0.100	0.142	0.157	0.178	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.164	0.160	0.093	0.082	0.053
Offsite Total (lbs/month)	**0.232**	**0.279**	**0.332**	**0.422**	**0.421**	**0.442**	**0.482**	**0.482**	**0.576**	**0.576**	**0.718**	**0.718**	**0.765**	**0.812**	**0.812**	**0.812**	**0.812**	**0.812**	**0.812**	**0.616**	**0.597**	**0.435**	**0.377**	**0.321**
Offsite Total (tons/year)	**0.004**																							

Table 5.1A.31R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle NOx Emissions from Units 1 & 2 Demolition

	NOx Emissions (lbs/day)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.00
Material Hauling Trucks	0.29	0.29	0.29	0.26	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.36	0.36	0.36	0.24
Waste Hauling Trucks	1.30	1.73	1.73	1.97	1.97	1.97	2.36	2.36	3.15	3.15	4.33	4.33	4.72	5.11	5.11	4.67	4.67	4.67	4.67	3.23	2.87	2.15	1.79	1.79
Construction Worker Commute	0.06	0.06	0.13	0.17	0.19	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.77	0.77	0.77	0.77	0.73	0.72	0.42	0.37	0.24
Offsite Total (lbs/day)	**1.78**	**2.22**	**2.29**	**2.52**	**2.41**	**2.43**	**2.82**	**2.82**	**3.60**	**3.60**	**4.78**	**4.78**	**5.18**	**5.57**	**5.57**	**5.66**	**5.66**	**5.66**	**5.66**	**4.20**	**4.06**	**3.04**	**2.63**	**2.27**
	NOx Emissions (lbs/month)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	3.10	3.10	3.10	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	0.00
Material Hauling Trucks	6.65	6.65	6.65	6.03	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	3.01	2.75	2.75	2.75	2.75	2.75	8.26	8.26	8.26	5.50
Waste Hauling Trucks	29.92	39.89	39.89	45.22	45.22	45.22	54.26	54.26	72.35	72.35	99.48	99.48	108.52	117.56	117.56	107.32	107.32	107.32	107.32	74.30	66.04	49.53	41.28	41.28
Construction Worker Commute	1.38	1.38	2.97	3.93	4.33	4.91	4.72	4.72	4.72	4.72	4.72	4.72	4.72	4.72	4.72	17.64	17.64	17.64	17.64	16.90	16.54	9.55	8.45	5.51
Offsite Total (lbs/month)	**41.05**	**51.02**	**52.61**	**57.99**	**55.37**	**55.96**	**64.81**	**64.81**	**82.90**	**82.90**	**110.03**	**110.03**	**119.07**	**128.11**	**128.11**	**130.29**	**130.29**	**130.29**	**130.29**	**96.53**	**93.41**	**69.92**	**60.56**	**52.29**
Offsite Total (tons/year)	**0.69**																							

Offsite Vehicle PM_{10} Emissions from Units 1 & 2 Demolition

	PM_{10} Emissions (lbs/day) [a]																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00
Material Hauling Trucks	0.04	0.04	0.04	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.06	0.06	0.06	0.04
Waste Hauling Trucks	0.19	0.26	0.26	0.31	0.31	0.31	0.38	0.38	0.50	0.50	0.69	0.69	0.75	0.82	0.82	0.80	0.80	0.80	0.80	0.56	0.50	0.37	0.31	0.31
Construction Worker Commute	0.21	0.21	0.44	0.63	0.70	0.79	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.73	0.71	0.41	0.37	0.24
Offsite Total (lbs/day)	**0.46**	**0.52**	**0.76**	**1.01**	**1.05**	**1.14**	**1.18**	**1.18**	**1.30**	**1.30**	**1.49**	**1.49**	**1.55**	**1.62**	**1.62**	**1.60**	**1.60**	**1.60**	**1.60**	**1.32**	**1.29**	**0.86**	**0.75**	**0.59**
	PM_{10} Emissions (lbs/month) [a]																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.38	0.38	0.38	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.00
Material Hauling Trucks	0.98	0.98	0.98	0.96	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.47	0.47	0.47	0.47	0.47	1.42	1.42	1.42	0.95
Waste Hauling Trucks	4.42	5.89	5.89	7.23	7.23	7.23	8.68	8.68	11.57	11.57	15.91	15.91	17.36	18.81	18.81	18.51	18.51	18.51	18.51	12.81	11.39	8.54	7.12	7.12
Construction Worker Commute	4.74	4.74	10.22	14.60	16.06	18.25	17.52	17.52	17.52	17.52	17.52	17.52	17.52	17.52	17.52	17.53	17.53	17.53	17.53	16.80	16.44	9.50	8.40	5.48
Offsite Total (lbs/month)	**10.52**	**12.00**	**17.47**	**23.17**	**24.14**	**26.33**	**27.05**	**27.05**	**29.94**	**29.94**	**34.28**	**34.28**	**35.73**	**37.18**	**37.18**	**36.88**	**36.88**	**36.88**	**36.88**	**30.45**	**29.61**	**19.83**	**17.31**	**13.55**
Offsite Total (tons/year)	**0.21**																							

Notes:
[a] PM_{10} Emissions include emissions from exhaust and paved roads.

Offsite Vehicle $PM_{2.5}$ Emissions from Units 1 & 2 Demolition

	$PM_{2.5}$ Emissions (lbs/day) [a]																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00
Material Hauling Trucks	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.03	0.03	0.02
Waste Hauling Trucks	0.09	0.12	0.12	0.14	0.14	0.14	0.17	0.17	0.22	0.22	0.31	0.31	0.33	0.36	0.36	0.35	0.35	0.35	0.35	0.24	0.21	0.16	0.13	0.13
Construction Worker Commute	0.06	0.06	0.12	0.18	0.20	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.12	0.10	0.07
Offsite Total (lbs/day)	**0.17**	**0.20**	**0.27**	**0.34**	**0.35**	**0.38**	**0.40**	**0.40**	**0.45**	**0.45**	**0.53**	**0.53**	**0.56**	**0.59**	**0.59**	**0.58**	**0.58**	**0.58**	**0.58**	**0.46**	**0.45**	**0.31**	**0.27**	**0.22**
	$PM_{2.5}$ Emissions (lbs/month) [a]																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.17	0.17	0.17	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.00
Material Hauling Trucks	0.44	0.44	0.44	0.43	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.62	0.62	0.62	0.41
Waste Hauling Trucks	1.99	2.65	2.65	3.19	3.19	3.19	3.83	3.83	5.10	5.10	7.02	7.02	7.65	8.29	8.29	8.03	8.03	8.03	8.03	5.56	4.94	3.71	3.09	3.09
Construction Worker Commute	1.33	1.33	2.86	4.09	4.50	5.11	4.91	4.91	4.91	4.91	4.91	4.91	4.91	4.91	4.91	4.91	4.91	4.91	4.91	4.70	4.60	2.66	2.35	1.53
Offsite Total (lbs/month)	**3.93**	**4.59**	**6.13**	**7.87**	**8.07**	**8.68**	**9.11**	**9.11**	**10.39**	**10.39**	**12.30**	**12.30**	**12.94**	**13.58**	**13.58**	**13.31**	**13.31**	**13.31**	**13.31**	**10.63**	**10.32**	**7.14**	**6.22**	**5.04**
Offsite Total (tons/year)	**0.07**																							

Notes:
[a] $PM_{2.5}$ Emissions include emissions from exhaust and paved roads.

Offsite Vehicle CO_2 Emissions from Units 1 & 2 Demolition

	CO_2 Emissions (metric tons/day)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.00
Material Hauling Trucks	0.07	0.07	0.07	0.07	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.10	0.10	0.10	0.07
Waste Hauling Trucks	0.30	0.39	0.39	0.49	0.49	0.49	0.59	0.59	0.79	0.79	1.08	1.08	1.18	1.28	1.28	1.28	1.28	1.28	1.28	0.89	0.79	0.59	0.49	0.49
Construction Worker Commute	0.09	0.09	0.19	0.28	0.30	0.34	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.32	0.31	0.18	0.16	0.10
Offsite Total (metric tons/day)	**0.48**	**0.57**	**0.68**	**0.86**	**0.85**	**0.90**	**0.98**	**0.98**	**1.18**	**1.18**	**1.47**	**1.47**	**1.57**	**1.67**	**1.67**	**1.67**	**1.67**	**1.67**	**1.67**	**1.26**	**1.22**	**0.89**	**0.78**	**0.66**
	CO_2 Emissions (metric tons/month)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.00
Material Hauling Trucks	1.51	1.51	1.51	1.51	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	2.26	2.26	2.26	1.51
Waste Hauling Trucks	6.79	9.06	9.06	11.32	11.32	11.32	13.58	13.58	18.11	18.11	24.90	24.90	27.17	29.43	29.43	29.43	29.43	29.43	29.43	20.38	18.11	13.58	11.32	11.32
Construction Worker Commute	2.06	2.06	4.44	6.34	6.98	7.93	7.61	7.61	7.61	7.61	7.61	7.61	7.61	7.61	7.61	7.61	7.61	7.61	7.61	7.30	7.14	4.12	3.65	2.38
Offsite Total (metric tons/month)	**10.96**	**13.22**	**15.60**	**19.77**	**19.65**	**20.60**	**22.55**	**22.55**	**27.08**	**27.08**	**33.87**	**33.87**	**36.13**	**38.40**	**38.40**	**38.40**	**38.40**	**38.40**	**38.40**	**29.02**	**28.11**	**20.57**	**17.83**	**15.21**
Offsite Total (metric tons/year)	**418.44**																							

Table 5.1A.31R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle N_2O Emissions from Units 1 & 2 Demolition

	N_2O Emissions (metric tons/day)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000000
Material Hauling Trucks	0.00000019	0.00000019	0.00000019	0.00000019	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000029	0.00000029	0.00000029	0.00000019
Waste Hauling Trucks	0.00000086	0.00000115	0.00000115	0.00000144	0.00000144	0.00000144	0.00000173	0.00000173	0.00000230	0.00000230	0.00000317	0.00000317	0.00000346	0.00000374	0.00000374	0.00000374	0.00000374	0.00000374	0.00000374	0.00000259	0.00000230	0.00000173	0.00000144	0.00000144
Construction Worker Commute	0.00000101	0.00000101	0.00000218	0.00000311	0.00000342	0.00000389	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000373	0.00000358	0.00000350	0.00000202	0.00000179	0.00000117
Offsite Total (metric tons/day)	**0.00000214**	**0.00000242**	**0.00000359**	**0.00000481**	**0.00000503**	**0.00000549**	**0.00000563**	**0.00000563**	**0.00000620**	**0.00000620**	**0.00000707**	**0.00000707**	**0.00000735**	**0.00000764**	**0.00000764**	**0.00000764**	**0.00000764**	**0.00000764**	**0.00000764**	**0.00000634**	**0.00000616**	**0.00000411**	**0.00000359**	**0.00000280**
	N_2O Emissions (metric tons/month)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000016	0.0000000
Material Hauling Trucks	0.0000044	0.0000044	0.0000044	0.0000044	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000022	0.0000066	0.0000066	0.0000066	0.0000044
Waste Hauling Trucks	0.0000199	0.0000265	0.0000265	0.0000331	0.0000331	0.0000331	0.0000397	0.0000397	0.0000530	0.0000530	0.0000729	0.0000729	0.0000795	0.0000861	0.0000861	0.0000861	0.0000861	0.0000861	0.0000861	0.0000596	0.0000530	0.0000397	0.0000331	0.0000331
Construction Worker Commute	0.0000233	0.0000233	0.0000501	0.0000715	0.0000787	0.0000894	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000858	0.0000823	0.0000805	0.0000465	0.0000411	0.0000268
Offsite Total (metric tons/month)	**0.0000492**	**0.0000558**	**0.0000826**	**0.0001107**	**0.0001156**	**0.0001264**	**0.0001294**	**0.0001294**	**0.0001427**	**0.0001427**	**0.0001625**	**0.0001625**	**0.0001692**	**0.0001758**	**0.0001758**	**0.0001758**	**0.0001758**	**0.0001758**	**0.0001758**	**0.0001457**	**0.0001417**	**0.0000945**	**0.0000825**	**0.0000644**
Offsite Total (metric tons/year)	**0.0019799**																							

Offsite Vehicle CH_4 Emissions from Units 1 & 2 Demolition

	CH_4 Emissions (metric tons/day)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000007	0.00000000
Material Hauling Trucks	0.00000020	0.00000020	0.00000020	0.00000020	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000010	0.00000031	0.00000031	0.00000031	0.00000020
Waste Hauling Trucks	0.00000092	0.00000122	0.00000122	0.00000153	0.00000153	0.00000153	0.00000184	0.00000184	0.00000245	0.00000245	0.00000337	0.00000337	0.00000367	0.00000398	0.00000398	0.00000398	0.00000398	0.00000398	0.00000398	0.00000275	0.00000245	0.00000184	0.00000153	0.00000153
Construction Worker Commute	0.00000486	0.00000486	0.00001046	0.00001495	0.00001644	0.00001868	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001794	0.00001719	0.00001682	0.00000972	0.00000859	0.00000561
Offsite Total (metric tons/day)	**0.00000605**	**0.00000636**	**0.00001197**	**0.00001676**	**0.00001815**	**0.00002039**	**0.00001995**	**0.00001995**	**0.00002056**	**0.00002056**	**0.00002148**	**0.00002148**	**0.00002179**	**0.00002209**	**0.00002209**	**0.00002209**	**0.00002209**	**0.00002209**	**0.00002209**	**0.00002012**	**0.00001964**	**0.00001193**	**0.00001051**	**0.00000734**
	CH_4 Emissions (metric tons/month)																							
Vehicle Type	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000017	0.0000000
Material Hauling Trucks	0.0000047	0.0000047	0.0000047	0.0000047	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000023	0.0000070	0.0000070	0.0000070	0.0000047
Waste Hauling Trucks	0.0000211	0.0000282	0.0000282	0.0000352	0.0000352	0.0000352	0.0000422	0.0000422	0.0000563	0.0000563	0.0000774	0.0000774	0.0000845	0.0000915	0.0000915	0.0000915	0.0000915	0.0000915	0.0000915	0.0000633	0.0000563	0.0000422	0.0000352	0.0000352
Construction Worker Commute	0.0001117	0.0001117	0.0002406	0.0003438	0.0003782	0.0004297	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0004125	0.0003954	0.0003868	0.0002235	0.0001977	0.0001289
Offsite Total (metric tons/month)	**0.0001392**	**0.0001463**	**0.0002752**	**0.0003854**	**0.0004174**	**0.0004690**	**0.0004588**	**0.0004588**	**0.0004729**	**0.0004729**	**0.0004940**	**0.0004940**	**0.0005011**	**0.0005081**	**0.0005081**	**0.0005081**	**0.0005081**	**0.0005081**	**0.0005081**	**0.0004628**	**0.0004518**	**0.0002744**	**0.0002416**	**0.0001688**
Offsite Total (metric tons/year)	**0.0059462**																							

Offsite Construction Vehicle Activity for Units 1 & 2 Demolition

Vehicle Type	Roundtrip Miles/Day [a]	Working Days per Month [b]
Offsite Delivery Trucks	14.6	23
Material Hauling Trucks	40.0	23
Waste Hauling Trucks	60.0	23
Construction Worker Commute	21.6	23

Notes:

[a] Roundtrip miles/day taken as the CalEEMod defaults for the South Coast Air Basin except for Waste Hauling Trucks, which were assumed to travel directly to the the landfill for offsite waste disposal.

[b] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Table 5.1A.32R Equations Used to Calculate Criteria Pollutant and GHG Emissions

Equations Used to Calculate Emissions from Units 1 & 2 Demolition

Emission Source	Pollutant(s)	Equation	Variables
Construction Equipment Exhaust	CO, VOC, NOx, SOx, PM_{10}, and $PM_{2.5}$	$E_m = EF * N * Hp * L * H / 453.6$	E_m = Emissions (lbs/month)
			EF = Emission factor (g/bhp-hr)
			N = Number of pieces of equipment
			Hp = Average horsepower
			L = Average load factor
			H = Hours per month
			453.6 = Conversion from g to lbs
		$E_d = E_m / D$	E_d = Emissions (lbs/day)
			E_m = Emissions (lbs/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons
	CO_2	$E_m = N * FC * EF * H * 0.001$	E_m = Emissions (metric tons/month)
			N = Number of pieces of equipment
			FC = Fuel consumption (gallons/hour)
			EF = Emission factor (kg/gallon)
			H = Hours per month
			0.001 = Conversion from kg to metric tons
		$E_d = E_m / D$	E_d = Emissions (metric tons/day)
			E_m = Emissions (metric tons/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
	CH_4 and N_2O	$E_m = N * FC * EF * H / 1{,}000 * 0.001$	E_m = Emissions (metric tons/month)
			N = Number of pieces of equipment
			FC = Fuel consumption (gallons/hour)
			EF = Emission factor (g/gallon)
			H = Hours per month
			1,000 = Conversion from g to kg
			0.001 = Conversion from kg to metric tons
		$E_d = E_m / D$	E_d = Emissions (metric tons/day)
			E_m = Emissions (metric tons/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
Onsite and Offsite Vehicle Exhaust and Paved and Unpaved Road Fugitive PM_{10} and $PM_{2.5}$	CO, VOC, NOx, SOx, PM_{10}, and $PM_{2.5}$	$E_d = N * VMT * EF / 453.6$	E_d = Emissions (lbs/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			EF = EMFAC2007 emission factor (g/mile). Paved and unpaved road fugitive PM_{10} and $PM_{2.5}$ emission factors calculated per Sections 13.2.1 and 13.2.2 of AP-42, respectively.
			453.6 = Conversion from g to lbs
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons

Table 5.1A.32R Equations Used to Calculate Criteria Pollutant and GHG Emissions

Equations Used to Calculate Emissions from Units 1 & 2 Demolition

Emission Source	Pollutant(s)	Equation	Variables
Onsite and Offsite Vehicle Exhaust	CO_2	$E_d = N * VMT / FE * EF * 0.001$	E_d = Emissions (metric tons/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			FE = Fuel economy (mpg)
			EF = Emission factor (kg/gallon)
			0.001 = Conversion from kg to metric tons
		$E_m = E_d * D$	E_m = Emissions (metric tons/month)
			E_d = Emissions (metric tons/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
	CH_4 and N_2O	$E_d = N * VMT * EF / 1{,}000 * 0.001$	E_d = Emissions (metric tons/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			EF = Emission factor (g/mile)
			1,000 = Conversion from g to kg
			0.001 = Conversion from kg to metric tons
		$E_m = E_d * D$	E_m = Emissions (metric tons/month)
			E_d = Emissions (metric tons/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
Onsite Fugitive PM_{10} and $PM_{2.5}$ from Dismemberment and Debris Loading	PM_{10} and $PM_{2.5}$	$E_d = T * EF / D$	E_d = Emissions (lbs/day)
			T = Tons of material dismembered or loaded
			EF = Fugitive PM_{10} and $PM_{2.5}$ emission factors (lbs/ton), calculated per Section 13.2.4.3 of AP-42 for dismemberment and Section 4.4 of Appendix A of the CalEEMod User's Guide for debris loading.
			D = Number of construction days per month
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons

Table 5.1A.33R Number of Onsite Construction Equipment and Motor Vehicles

Number of Onsite Equipment for Units 1 & 2 Demolition

Onsite Equipment	Number per Month [a]																							
	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Water Truck	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cranes [b]	3	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3
Rubber Tired Loader [c]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2
Air Compressor	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Forklift	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Excavators	2	2	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

Notes:
[a] Equipment counts taken from 'HBEP Equipment Usage 1.21.13.xls'.
[b] Numbers presented for Cranes includes the equipment counts for the 75 Ton Hydraulic Crane and the 35 Ton Hydraulic Crane.
[c] Numbers presented for Rubber Tired Loader includes the equipment counts for the Front End Loader.

Number of Onsite Motor Vehicles for Units 1 & 2 Demolition

Vehicle Type	Number per Month [a]																							
	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Onsite Pick-up Truck	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Onsite Stake Truck	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Onsite Dump Truck	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Notes:
[a] Vehicle counts taken from 'HBEP Equipment Usage 1.21.13.xls'.

Table 5.1A.34R Construction Equipment Exhaust Criteria Pollutant Emission Factors

Construction Equipment Emission Factors for Units 1 & 2 Demolition

Equipment [a]	Percent Usage [b]	Hours per Month [c]	Horsepower [d]	Load Factor [d]	Emission Factors (g/bhp-hr) [e]												Fuel Consumption (gallons/hour) [f]
					CO	VOC	NO_X 2020	NO_X 2021	NO_X 2022	SO_X	PM_{10} 2020	PM_{10} 2021	PM_{10} 2022	$PM_{2.5}$ 2020	$PM_{2.5}$ 2021	$PM_{2.5}$ 2022	
Water Truck [g]	50%	115	381	0.57	1.136	0.310	1.561	1.365	1.194	0.005	0.057	0.050	0.043	0.057	0.050	0.043	12.32
Cranes	65%	150	208	0.43	1.236	0.356	2.507	2.231	1.979	0.006	0.086	0.077	0.068	0.086	0.077	0.068	5.08
Rubber Tired Loader	55%	127	87	0.54	3.836	0.542	3.404	3.155	2.929	0.006	0.228	0.198	0.171	0.228	0.198	0.171	2.69
Air Compressor	80%	184	78	0.48	3.698	0.489	3.400	3.083	2.844	0.006	0.224	0.190	0.165	0.224	0.190	0.165	2.14
Forklift	75%	173	149	0.30	3.360	0.338	1.782	1.508	1.281	0.006	0.087	0.069	0.054	0.087	0.069	0.054	2.55
Excavator	85%	196	157	0.57	3.361	0.355	1.958	1.710	1.492	0.006	0.098	0.085	0.073	0.098	0.085	0.073	5.11

Notes:

[a] Assumed all equipment is fired with diesel fuel, per Section 4.2 of Appendix A of the CalEEMod User's Guide.

[b] Percent Usage assumed typical of power plant construction.

[c] Hours per month calculated based on the following schedule, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Work hours per day: 10

Work days per month: 23

[d] Construction equipment horsepower and load factor taken from Table 3.3 of Appendix D of the CalEEMod User's Guide.

[e] Construction equipment emission factors taken from Table 3.4 of Appendix D of the CalEEMod User's Guide. The emission factors for the year 2020 were used for the construction equipment exhaust emission calculations for CO, VOC, and SOx. The emission factors for year 2020, 2021 and 2022 were used for NOx, PM10, and PM2.5.

[f] Fuel consumption based on consumption in the OFFROAD2007 model for the SCAB in the year 2020; value estimated by dividing the reported consumption (gallons/day) by the reported activity (hours/day).

[g] Horsepower, load factor, and emission factors for Off-Highway Trucks were assumed representative of Water Trucks.

Table 5.1A.35R Onsite and Offsite Motor Vehicle Criteria Pollutant Emission Factors

Vehicle Emission Factors for Units 1 & 2 Demolition

Vehicle Type	Vehicle Class [a]	Exhaust Emission Factors (g/mile) [b]												Paved Road Emission Factors (g/mile) [c]		Fuel Economy (mpg) [b]
		CO	VOC	SO_X	NO_X 2020	NO_X 2021	NO_X 2022	PM_{10} 2020	PM_{10} 2021	PM_{10} 2022	$PM_{2.5}$ 2020	$PM_{2.5}$ 2021	$PM_{2.5}$ 2022	PM_{10}	$PM_{2.5}$	
Onsite Pick-up Truck	Light-duty Truck	2.560	0.153	0.011	0.239	0.223	0.207	0.127	0.128	0.129	0.105	0.106	0.107	N/A	N/A	7.467
Onsite Stake Truck	Heavy-duty Diesel	7.701	4.236	0.037	12.285	11.246	10.375	0.506	0.430	0.368	0.427	0.357	0.301	N/A	N/A	2.621
Onsite Dump Truck	Heavy-duty Diesel	7.701	4.236	0.037	12.285	11.246	10.375	0.506	0.430	0.368	0.427	0.357	0.301	N/A	N/A	2.621
Offsite Delivery Trucks	Heavy-duty Diesel	1.623	0.333	0.017	4.193	3.805	3.481	0.214	0.201	0.190	0.159	0.147	0.137	0.300	0.075	5.749
Material Hauling Trucks	Heavy/Medium-duty Diesel	1.359	0.221	0.016	3.278	2.973	2.714	0.184	0.175	0.168	0.143	0.135	0.128	0.300	0.075	6.224
Waste Hauling Trucks	Heavy/Medium-duty Diesel	1.359	0.221	0.016	3.278	2.973	2.714	0.184	0.175	0.168	0.143	0.135	0.128	0.300	0.075	6.224
Construction Worker Commute	Light-duty Auto/Truck	1.077	0.017	0.003	0.097	0.090	0.336	0.033	0.033	0.033	0.018	0.018	0.018	0.300	0.075	27.504

Notes:

[a] The vehicle classes are represented as follows:

Light-duty Truck: Assumed to be an average of LDT1, All and LDT2, All values.
Heavy-duty Diesel: Assumed to be 100% HHD DSL values, as confirmed in Section 4.5 of Appendix A of the CalEEMod User's Guide.
Heavy/Medium-duty Diesel: 50% HHD DSL and 50% MHD DSL values, per Section 4.5 of Appendix A of the CalEEMod User's Guide.
Light-duty Auto/Truck: 50% LDA, All; 25% LDT1, All; and 25% LDT2, All values, per Section 4.5 of Appendix A of the CalEEMod User's Guide.

[b] Exhaust emission factors and fuel economy from EMFAC2007 for the South Coast Air Basin, calendar year 2020 for CO, VOC, and SOx. Calendar year 2020, 2021 and 2022 were used for NOx, PM10, and PM2.5. A speed of 5 mph was assumed for onsite vehicles; a speed of 40 mph was assumed for offsite vehicles and worker commutes, which is consistent with the CalEEMod defaults. An average temperature of 68°F and humidity of 55% were used per Table B-1 of CT-EMFAC: A Computer Model to Estimate Transportation Project Emissions.

[c] Paved road emission factors calculated using CalEEMod methodology, as described below.

Derivation of Paved Road Emission Factors

Vehicles on Paved Roads

Parameter	PM_{10}	$PM_{2.5}$
Average Weight [a]	2.4	2.4
k [b]	1.0	0.25
sL [a]	0.1	0.1
Emission Factor (g/mile) [c]	0.300	0.075

Notes:

[a] Average Weight and sL taken as the default value from CalEEMod.

[b] k taken from Table 13.2.1-1 of Section 13.2.1 of AP-42.

[c] Emission factor calculated using Equation 1 from Section 13.2.1 of AP-42:

$$\text{Emission Factor (g/mile)} = k\ (\text{g/mile}) \times [sL\ (\text{g/m}^2)]^{0.91} \times [\text{Average Weight (tons)}]^{1.02}$$

Table 5.1A.36R Onsite and Offsite Greenhouse Gas Emission Factors

Greenhouse Gas Emission Factors for Units 1 & 2 Demolition

Fuel / Category Type	Emission Factor	Emission Factor Units	Emission Factor Source
CO_2 Emission Factors			
Gasoline	8.78	kg CO_2/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.1, May 2008 as updated through January 2012.
Diesel	10.21	kg CO_2/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.1, May 2008 as updated through January 2012.
N_2O Emission Factors			
Gasoline Passenger Car Model Year 2009 [a]	0.0036	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Gasoline Light-duty Truck Model Year 2009 [a]	0.0066	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Heavy-duty Truck Model Year 1960 - 2009 [a]	0.0048	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Off-road Vehicle	0.26	g N_2O/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.7, May 2008 as updated through January 2012.
CH_4 Emission Factors			
Gasoline Passenger Car Model Year 2009 [a]	0.0173	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Gasoline Light-duty Truck Model Year 2009 [a]	0.0163	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Heavy-duty Truck Model Year 1960 - 2009 [a]	0.0051	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Off-road Vehicle	0.58	g CH_4/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.7, May 2008 as updated through January 2012.

Notes:

[a] Model Year 2009 was the most recent year of emission factors available. As a result, it was assumed representative of vehicles used for this project.

Table 5.1A.37R Onsite Construction Equipment Exhaust Emissions

Construction Equipment CO Emissions from Bldgs. 33 & 34 Construction

	CO Emisisons (lbs/month)													
Onsite Equipment	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Grader	0.00	133.77	133.77	133.77	133.77	133.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cranes	0.00	0.00	0.00	35.93	35.93	35.93	35.93	35.93	35.93	35.93	35.93	35.93	35.93	35.93
Tractor/Loader/Backhoe	0.00	42.89	42.89	42.89	42.89	42.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rubber Tired Loader	50.05	50.05	50.05	50.05	50.05	50.05	50.05	50.05	50.05	50.05	50.05	50.05	50.05	50.05
Crawler Tractor	0.00	84.66	84.66	84.66	84.66	84.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	55.74	55.74	55.74	55.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Roller	0.00	53.12	53.12	53.12	53.12	53.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**105.79**	**420.22**	**420.22**	**456.16**	**400.42**	**400.42**	**85.98**	**85.98**	**85.98**	**85.98**	**85.98**	**85.98**	**85.98**	**85.98**
Onsite Total (lbs/day) [a]	**4.60**	**18.27**	**18.27**	**19.83**	**17.41**	**17.41**	**3.74**	**3.74**	**3.74**	**3.74**	**3.74**	**3.74**	**3.74**	**3.74**
Onsite Total (tons/year)	**1.36**													

Construction Equipment VOC Emissions from Bldgs. 33 & 34 Construction

	VOC Emisisons (lbs/month)													
Onsite Equipment	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Grader	0.00	15.67	15.67	15.67	15.67	15.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cranes	0.00	0.00	0.00	9.93	9.93	9.93	9.93	9.93	9.93	9.93	9.93	9.93	9.93	9.93
Tractor/Loader/Backhoe	0.00	4.29	4.29	4.29	4.29	4.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rubber Tired Loader	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56	6.56
Crawler Tractor	0.00	14.33	14.33	14.33	14.33	14.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	6.71	6.71	6.71	6.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Roller	0.00	7.28	7.28	7.28	7.28	7.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**13.28**	**54.85**	**54.85**	**64.79**	**58.07**	**58.07**	**16.50**	**16.50**	**16.50**	**16.50**	**16.50**	**16.50**	**16.50**	**16.50**
Onsite Total (lbs/day) [a]	**0.58**	**2.38**	**2.38**	**2.82**	**2.52**	**2.52**	**0.72**	**0.72**	**0.72**	**0.72**	**0.72**	**0.72**	**0.72**	**0.72**
Onsite Total (tons/year)	**0.20**													

Construction Equipment NOx Emissions from Bldgs. 33 & 34 Construction

	NOx Emissions (lbs/month)													
Onsite Equipment	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Grader	0.00	92.20	92.20	92.20	92.20	82.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cranes	0.00	0.00	0.00	65.77	65.77	58.34	58.34	58.34	58.34	58.34	58.34	58.34	58.34	58.34
Tractor/Loader/Backhoe	0.00	28.75	28.75	28.75	28.75	26.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rubber Tired Loader	41.34	41.34	41.34	41.34	41.34	38.38	38.38	38.38	38.38	38.38	38.38	38.38	38.38	38.38
Crawler Tractor	0.00	84.28	84.28	84.28	84.28	78.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	46.82	46.82	46.82	46.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Roller	0.00	48.59	48.59	48.59	48.59	45.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**88.16**	**341.97**	**341.97**	**407.74**	**360.91**	**329.49**	**96.71**	**96.71**	**96.71**	**96.71**	**96.71**	**96.71**	**96.71**	**96.71**
Onsite Total (lbs/day) [a]	**3.83**	**14.87**	**14.87**	**17.73**	**15.69**	**14.33**	**4.20**	**4.20**	**4.20**	**4.20**	**4.20**	**4.20**	**4.20**	**4.20**
Onsite Total (tons/year)	**1.23**													

Table 5.1A.37R Onsite Construction Equipment Exhaust Emissions

Construction Equipment SOx Emissions from Bldgs. 33 & 34 Construction

	SOx Emissions (lbs/month)													
Onsite Equipment	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Grader	0.00	0.24	0.24	0.24	0.24	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cranes	0.00	0.00	0.00	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Tractor/Loader/Backhoe	0.00	0.07	0.07	0.07	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rubber Tired Loader	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Crawler Tractor	0.00	0.13	0.13	0.13	0.13	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	0.09	0.09	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Roller	0.00	0.09	0.09	0.09	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**0.17**	**0.69**	**0.69**	**0.87**	**0.78**	**0.78**	**0.26**	**0.26**	**0.26**	**0.26**	**0.26**	**0.26**	**0.26**	**0.26**
Onsite Total (lbs/day) [a]	**0.01**	**0.03**	**0.03**	**0.04**	**0.03**	**0.03**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**0.01**
Onsite Total (tons/year)	**0.00**													

Construction Equipment PM_{10} Emissions from Bldgs. 33 & 34 Construction

	PM_{10} Emissions (lbs/month)													
Onsite Equipment	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Grader	0.00	4.89	4.89	4.89	4.89	4.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cranes	0.00	0.00	0.00	2.27	2.27	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Tractor/Loader/Backhoe	0.00	1.36	1.36	1.36	1.36	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rubber Tired Loader	2.59	2.59	2.59	2.59	2.59	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24
Crawler Tractor	0.00	6.17	6.17	6.17	6.17	5.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	2.89	2.89	2.89	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Roller	0.00	3.26	3.26	3.26	3.26	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**5.48**	**21.16**	**21.16**	**23.43**	**20.55**	**18.10**	**4.24**	**4.24**	**4.24**	**4.24**	**4.24**	**4.24**	**4.24**	**4.24**
Onsite Total (lbs/day) [a]	**0.24**	**0.92**	**0.92**	**1.02**	**0.89**	**0.79**	**0.18**	**0.18**	**0.18**	**0.18**	**0.18**	**0.18**	**0.18**	**0.18**
Onsite Total (tons/year)	**0.07**													

Construction Equipment $PM_{2.5}$ Emissions from Bldgs. 33 & 34 Construction

	$PM_{2.5}$ Emissions (lbs/month)													
Onsite Equipment	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Grader	0.00	4.89	4.89	4.89	4.89	4.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cranes	0.00	0.00	0.00	2.27	2.27	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Tractor/Loader/Backhoe	0.00	1.36	1.36	1.36	1.36	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rubber Tired Loader	2.59	2.59	2.59	2.59	2.59	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24	2.24
Crawler Tractor	0.00	6.17	6.17	6.17	6.17	5.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	2.89	2.89	2.89	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Roller	0.00	3.26	3.26	3.26	3.26	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**5.48**	**21.16**	**21.16**	**23.43**	**20.55**	**18.10**	**4.24**	**4.24**	**4.24**	**4.24**	**4.24**	**4.24**	**4.24**	**4.24**
Onsite Total (lbs/day) [a]	**0.24**	**0.92**	**0.92**	**1.02**	**0.89**	**0.79**	**0.18**	**0.18**	**0.18**	**0.18**	**0.18**	**0.18**	**0.18**	**0.18**
Onsite Total (tons/year)	**0.07**													

Table 5.1A.37R Onsite Construction Equipment Exhaust Emissions

Construction Equipment CO_2 Emissions from Bldgs. 33 & 34 Construction

Onsite Equipment	CO_2 Emissions (metric tons/month)													
	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Grader	0.00	10.60	10.60	10.60	10.60	10.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cranes	0.00	0.00	0.00	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74	7.74
Tractor/Loader/Backhoe	0.00	3.05	3.05	3.05	3.05	3.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rubber Tired Loader	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47
Crawler Tractor	0.00	5.65	5.65	5.65	5.65	5.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Compressor	4.02	4.02	4.02	4.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Roller	0.00	3.79	3.79	3.79	3.79	3.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (metric tons/month)	**7.49**	**30.58**	**30.58**	**38.32**	**34.30**	**34.30**	**11.21**	**11.21**	**11.21**	**11.21**	**11.21**	**11.21**	**11.21**	**11.21**
Onsite Total (metric tons/day) [a]	**0.33**	**1.33**	**1.33**	**1.67**	**1.49**	**1.49**	**0.49**	**0.49**	**0.49**	**0.49**	**0.49**	**0.49**	**0.49**	**0.49**
Onsite Total (metric tons/year)	**246.6**													

Construction Equipment N_2O Emissions from Bldgs. 33 & 34 Construction

Onsite Equipment	N_2O Emissions (metric tons/month)													
	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Grader	0.00000	0.00027	0.00027	0.00027	0.00027	0.00027	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Cranes	0.00000	0.00000	0.00000	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020
Tractor/Loader/Backhoe	0.00000	0.00008	0.00008	0.00008	0.00008	0.00008	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Rubber Tired Loader	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009
Crawler Tractor	0.00000	0.00014	0.00014	0.00014	0.00014	0.00014	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Air Compressor	0.00010	0.00010	0.00010	0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Roller	0.00000	0.00010	0.00010	0.00010	0.00010	0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Onsite Total (metric tons/month)	**0.00019**	**0.00078**	**0.00078**	**0.00098**	**0.00087**	**0.00087**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**	**0.00029**
Onsite Total (metric tons/day) [a]	**0.00001**	**0.00003**	**0.00003**	**0.00004**	**0.00004**	**0.00004**	**0.00001**	**0.00001**	**0.00001**	**0.00001**	**0.00001**	**0.00001**	**0.00001**	**0.00001**
Onsite Total (metric tons/year)	**0.0063**													

Construction Equipment CH_4 Emissions from Bldgs. 33 & 34 Construction

Onsite Equipment	CH_4 Emissions (metric tons/month)													
	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Grader	0.00000	0.00060	0.00060	0.00060	0.00060	0.00060	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Cranes	0.00000	0.00000	0.00000	0.00044	0.00044	0.00044	0.00044	0.00044	0.00044	0.00044	0.00044	0.00044	0.00044	0.00044
Tractor/Loader/Backhoe	0.00000	0.00017	0.00017	0.00017	0.00017	0.00017	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Rubber Tired Loader	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020	0.00020
Crawler Tractor	0.00000	0.00032	0.00032	0.00032	0.00032	0.00032	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Air Compressor	0.00023	0.00023	0.00023	0.00023	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Roller	0.00000	0.00022	0.00022	0.00022	0.00022	0.00022	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Onsite Total (metric tons/month)	**0.00043**	**0.00174**	**0.00174**	**0.00218**	**0.00195**	**0.00195**	**0.00064**	**0.00064**	**0.00064**	**0.00064**	**0.00064**	**0.00064**	**0.00064**	**0.00064**
Onsite Total (metric tons/day) [a]	**0.00002**	**0.00008**	**0.00008**	**0.00009**	**0.00008**	**0.00008**	**0.00003**	**0.00003**	**0.00003**	**0.00003**	**0.00003**	**0.00003**	**0.00003**	**0.00003**
Onsite Total (metric tons/year)	**0.0140**													

Notes:

[a] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls', the days per month are as follows 23

Table 5.1A.38R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle CO Emissions from Bldgs. 33 & 34 Construction

	CO Emissions (lbs/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Onsite Stake Truck	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Onsite Dump Truck	0.00	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.04**	**0.06**	**0.06**	**0.06**	**0.04**	**0.04**	**0.04**	**0.04**	**0.04**	**0.04**	**0.04**	**0.04**	**0.04**	**0.04**
	CO Emissions (lbs/month) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
Onsite Stake Truck	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Onsite Dump Truck	0.00	0.36	0.36	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**0.97**	**1.33**	**1.33**	**1.33**	**0.97**	**0.97**	**0.97**	**0.97**	**0.97**	**0.97**	**0.97**	**0.97**	**0.97**	**0.97**
Onsite Total (tons/year)	**0.01**													

Onsite Construction Vehicle VOC Emissions from Bldgs. 33 & 34 Construction

	VOC Emisisons (lbs/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Stake Truck	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Onsite Dump Truck	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.018**	**0.026**	**0.026**	**0.026**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**	**0.018**
	VOC Emissions (lbs/month) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Onsite Stake Truck	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
Onsite Dump Truck	0.00	0.20	0.20	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**0.41**	**0.61**	**0.61**	**0.61**	**0.41**	**0.41**	**0.41**	**0.41**	**0.41**	**0.41**	**0.41**	**0.41**	**0.41**	**0.41**
Onsite Total (tons/year)	**0.00**													

Onsite Construction Vehicle SOx Emissions from Bldgs. 33 & 34 Construction

	SOx Emissions (lbs/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
Onsite Stake Truck	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016
Onsite Dump Truck	0.00000	0.00008	0.00008	0.00008	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Onsite Total (lbs/day)	**0.00021**	**0.00029**	**0.00029**	**0.00029**	**0.00021**	**0.00021**	**0.00021**	**0.00021**	**0.00021**	**0.00021**	**0.00021**	**0.00021**	**0.00021**	**0.00021**
	SOx Emissions (lbs/month) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011	0.0011
Onsite Stake Truck	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038	0.0038
Onsite Dump Truck	0.0000	0.0019	0.0019	0.0019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Onsite Total (lbs/month)	**0.0049**	**0.0067**	**0.0067**	**0.0067**	**0.0049**	**0.0049**	**0.0049**	**0.0049**	**0.0049**	**0.0049**	**0.0049**	**0.0049**	**0.0049**	**0.0049**
Onsite Total (tons/year)	**0.00003**													

Onsite Construction Vehicle NOx Emissions from Bldgs. 33 & 34 Construction

	NOx Emissions (lbs/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.0010	0.0010	0.0010	0.0010	0.0010	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009	0.0009
Onsite Stake Truck	0.0496	0.0496	0.0496	0.0496	0.0496	0.0457	0.0457	0.0457	0.0457	0.0457	0.0457	0.0457	0.0457	0.0457
Onsite Dump Truck	0.0000	0.0248	0.0248	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Onsite Total (lbs/day)	**0.0506**	**0.0754**	**0.0754**	**0.0754**	**0.0506**	**0.0467**	**0.0467**	**0.0467**	**0.0467**	**0.0467**	**0.0467**	**0.0467**	**0.0467**	**0.0467**
	NOx Emissions (lbs/month) [a]													
Vehicle Type	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**	**91**	**92**	**93**	**94**
Onsite Pick-up Truck	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Onsite Stake Truck	1.14	1.14	1.14	1.14	1.14	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
Onsite Dump Truck	0.00	0.57	0.57	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**1.16**	**1.73**	**1.73**	**1.73**	**1.16**	**1.07**	**1.07**	**1.07**	**1.07**	**1.07**	**1.07**	**1.07**	**1.07**	**1.07**
Onsite Total (tons/year)	**0.01**													

Table 5.1A.38R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle PM_{10} Emissions from Bldgs. 33 & 34 Construction

	PM_{10} Emissions (lbs/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
Onsite Stake Truck	0.0019	0.0019	0.0019	0.0019	0.0019	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016	0.0016
Onsite Dump Truck	0.0000	0.0009	0.0009	0.0009	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Onsite Total (lbs/day)	**0.0025**	**0.0034**	**0.0034**	**0.0034**	**0.0025**	**0.0022**	**0.0022**	**0.0022**	**0.0022**	**0.0022**	**0.0022**	**0.0022**	**0.0022**	**0.0022**
	PM_{10} Emissions (lbs/month) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
Onsite Stake Truck	0.044	0.044	0.044	0.044	0.044	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037	0.037
Onsite Dump Truck	0.000	0.022	0.022	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Onsite Total (lbs/month)	**0.057**	**0.078**	**0.078**	**0.078**	**0.057**	**0.050**	**0.050**	**0.050**	**0.050**	**0.050**	**0.050**	**0.050**	**0.050**	**0.050**
Onsite Total (tons/year)	**0.0004**													

Onsite Construction Vehicle $PM_{2.5}$ Emissions from Bldgs. 33 & 34 Construction

	$PM_{2.5}$ Emissions (lbs/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Onsite Stake Truck	0.0016	0.0016	0.0016	0.0016	0.0016	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013
Onsite Dump Truck	0.0000	0.0008	0.0008	0.0008	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Onsite Total (lbs/day)	**0.0020**	**0.0028**	**0.0028**	**0.0028**	**0.0020**	**0.0018**	**0.0018**	**0.0018**	**0.0018**	**0.0018**	**0.0018**	**0.0018**	**0.0018**	**0.0018**
	$PM_{2.5}$ Emissions (lbs/month) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Onsite Stake Truck	0.036	0.036	0.036	0.036	0.036	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.031
Onsite Dump Truck	0.000	0.018	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Onsite Total (lbs/month)	**0.047**	**0.065**	**0.065**	**0.065**	**0.047**	**0.041**	**0.041**	**0.041**	**0.041**	**0.041**	**0.041**	**0.041**	**0.041**	**0.041**
Onsite Total (tons/year)	**0.0003**													

Onsite Construction Vehicle CO_2 Emissions from Bldgs. 33 & 34 Construction

	CO_2 Emissions (metric tons/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Onsite Stake Truck	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Onsite Dump Truck	0.000	0.004	0.004	0.004	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Onsite Total (metric tons/day)	**0.010**	**0.014**	**0.014**	**0.014**	**0.010**	**0.010**	**0.010**	**0.010**	**0.010**	**0.010**	**0.010**	**0.010**	**0.010**	**0.010**
	CO_2 Emissions (metric tons/month) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Onsite Stake Truck	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
Onsite Dump Truck	0.00	0.09	0.09	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (metric tons/month)	**0.23**	**0.32**	**0.32**	**0.32**	**0.23**	**0.23**	**0.23**	**0.23**	**0.23**	**0.23**	**0.23**	**0.23**	**0.23**	**0.23**
Onsite Total (metric tons/year)	**3.07**													

Onsite Construction Vehicle N_2O Emissions from Bldgs. 33 & 34 Construction

	N_2O Emissions (metric tons/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013	0.000000013
Onsite Stake Truck	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010
Onsite Dump Truck	0.000000000	0.000000005	0.000000005	0.000000005	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Onsite Total (metric tons/day)	**0.000000023**	**0.000000028**	**0.000000028**	**0.000000028**	**0.000000023**	**0.000000023**	**0.000000023**	**0.000000023**	**0.000000023**	**0.000000023**	**0.000000023**	**0.000000023**	**0.000000023**	**0.000000023**
	N_2O Emissions (metric tons/month) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030	0.00000030
Onsite Stake Truck	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022	0.00000022
Onsite Dump Truck	0.00000000	0.00000011	0.00000011	0.00000011	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Onsite Total (metric tons/month)	**0.00000052**	**0.00000063**	**0.00000063**	**0.00000063**	**0.00000052**	**0.00000052**	**0.00000052**	**0.00000052**	**0.00000052**	**0.00000052**	**0.00000052**	**0.00000052**	**0.00000052**	**0.00000052**
Onsite Total (metric tons/year)	**0.000007**													

Table 5.1A.38R Onsite Motor Vehicle Exhaust Emissions

Onsite Construction Vehicle CH_4 Emissions from Bldgs. 33 & 34 Construction

	CH_4 Emissions (metric tons/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033	0.000000033
Onsite Stake Truck	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010	0.000000010
Onsite Dump Truck	0.000000000	0.000000005	0.000000005	0.000000005	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Onsite Total (metric tons/day)	**0.000000043**	**0.000000048**	**0.000000048**	**0.000000048**	**0.000000043**	**0.000000043**	**0.000000043**	**0.000000043**	**0.000000043**	**0.000000043**	**0.000000043**	**0.000000043**	**0.000000043**	**0.000000043**
	CH_4 Emissions (metric tons/month) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.00000075	0.00000075	0.00000075	0.00000075	0.00000075	0.00000075	0.00000075	0.00000075	0.00000075	0.00000075	0.00000075	0.00000075	0.00000075	0.00000075
Onsite Stake Truck	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023	0.00000023
Onsite Dump Truck	0.00000000	0.00000012	0.00000012	0.00000012	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Onsite Total (metric tons/month)	**0.00000098**	**0.00000110**	**0.00000110**	**0.00000110**	**0.00000098**	**0.00000098**	**0.00000098**	**0.00000098**	**0.00000098**	**0.00000098**	**0.00000098**	**0.00000098**	**0.00000098**	**0.00000098**
Onsite Total (metric tons/year)	**0.000012**													

Notes:

[a] The days per month are per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls', as presented on the 'Onsite Fugitive Dust' tab.

Table 5.1A.39R Onsite Construction Fugitive Dust Emissions

Grading and Bulldozing Activity Levels for Bldgs. 33 & 34 Construction

	Monthly Activity Levels													
Source	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Site Disturbance (acres) [a]	0.00	0.48	0.48	0.48	0.48	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulldozer Operation (hours) [b]	0.00	230.00	230.00	230.00	230.00	230.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Notes:
[a] Estimated a total of 2.4 acres is disturbed during Bldgs. 33 & 34 Construction based on data provided by H. Larios/PEC on 3/23/12; assumed this disturbance was equally distributed amongst the months in which graders are utilized.
[b] Bulldozer Operation calculated based on the number of equipment and the hours of operation per month, per 'Manpower Schedule Huntington Beach 03.13.12.xls':

Hours per Day: 10
Days per Month: 23

Onsite Construction Vehicle Fugitive PM_{10} Emissions from Bldgs. 33 & 34 Construction

	Fugitive PM_{10} Emissions (lbs/day) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74
Onsite Stake Truck	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74
Onsite Dump Truck	0.00	2.37	2.37	2.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**9.47**	**11.84**	**11.84**	**11.84**	**9.47**	**9.47**	**9.47**	**9.47**	**9.47**	**9.47**	**9.47**	**9.47**	**9.47**	**9.47**
	Fugitive PM_{10} Emissions (lbs/month)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	108.95	108.95	108.95	108.95	108.95	108.95	108.95	108.95	108.95	108.95	108.95	108.95	108.95	108.95
Onsite Stake Truck	108.95	108.95	108.95	108.95	108.95	108.95	108.95	108.95	108.95	108.95	108.95	108.95	108.95	108.95
Onsite Dump Truck	0.00	54.47	54.47	54.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**217.90**	**272.37**	**272.37**	**272.37**	**217.90**	**217.90**	**217.90**	**217.90**	**217.90**	**217.90**	**217.90**	**217.90**	**217.90**	**217.90**
Onsite Total (tons/year)	**1.39**													

Notes:
[a] Emissions based on highest (controlled) unpaved road emission factor for PM_{10}.

Onsite Construction Vehicle Fugitive $PM_{2.5}$ Emissions from Bldgs. 33 & 34 Construction

	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
Onsite Stake Truck	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47	0.47
Onsite Dump Truck	0.00	0.24	0.24	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.95**	**1.18**	**1.18**	**1.18**	**0.95**	**0.95**	**0.95**	**0.95**	**0.95**	**0.95**	**0.95**	**0.95**	**0.95**	**0.95**
	Fugitive $PM_{2.5}$ Emissions (lbs/month)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Onsite Pick-up Truck	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89
Onsite Stake Truck	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89
Onsite Dump Truck	0.00	5.45	5.45	5.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**21.79**	**27.24**	**27.24**	**27.24**	**21.79**	**21.79**	**21.79**	**21.79**	**21.79**	**21.79**	**21.79**	**21.79**	**21.79**	**21.79**
Onsite Total (tons/year)	**0.14**													

Notes:
[a] Emissions based on the highest (controlled) unpaved road emission factor for $PM_{2.5}$.

Onsite Grading and Bulldozing Fugitive PM_{10} Emissions from Bldgs. 33 & 34 Construction

	Fugitive PM_{10} Emissions (lbs/day) [a]													
Construction Activity	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Grading [b]	0.00	0.02	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulldozing	0.00	27.07	27.07	27.07	27.07	27.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.00**	**27.09**	**27.09**	**27.09**	**27.09**	**27.09**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
	Fugitive PM_{10} Emissions (lbs/month) [a]													
Construction Activity	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Grading	0.00	0.51	0.51	0.51	0.51	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulldozing	0.00	622.67	622.67	622.67	622.67	622.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**0.00**	**623.18**	**623.18**	**623.18**	**623.18**	**623.18**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Onsite Total (tons/year)	**1.56**													

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Per Section 4.3 of Appendix A of the CalEEMod User's Guide, the following blade width was assumed for grading equipment: 12 ft

Table 5.1A.39R Onsite Construction Fugitive Dust Emissions

Onsite Grading and Bulldozing Fugitive $PM_{2.5}$ Emissions from Bldgs. 33 & 34 Construction

	Fugitive $PM_{2.5}$ Emissions (lbs/day) [a]													
Construction Activity	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulldozing	0.00	6.56	6.56	6.56	6.56	6.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/day)	**0.00**	**6.56**	**6.56**	**6.56**	**6.56**	**6.56**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
	Fugitive $PM_{2.5}$ Emissions (lbs/month) [a]													
Construction Activity	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Grading	0.00	0.05	0.05	0.05	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bulldozing	0.00	150.83	150.83	150.83	150.83	150.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite Total (lbs/month)	**0.00**	**150.89**	**150.89**	**150.89**	**150.89**	**150.89**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Onsite Total (tons/year)	**0.38**													

Notes:
[a] Work days per month are as follows, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 23
[b] Per Section 4.3 of Appendix A of the CalEEMod User's Guide, the following blade width was assumed for grading equipment: 12 ft

Onsite Construction Vehicle Activity for Bldgs. 33 & 34 Construction

Vehicle Type	Miles/Day [a]	Working Days per
Onsite Pick-up Truck	2	23
Onsite Stake Truck	2	23
Onsite Dump Truck	1	23

Notes:
[a] Estimated based on the dimensions of the project site.
[b] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Fugitive Dust Emission Factors for Unpaved Roads

Vehicles on Unpaved Surfaces at Industrial Sites

Parameter	PM_{10}	$PM_{2.5}$
Mean Vehicle Weight [a]	16.5	16.5
Silt Content [b]	8.5	8.5
k [c]	1.5	0.15
a [c]	0.9	0.9
b [c]	0.45	0.45
Emission Factor (Uncontrolled, lbs/mile) [d]	2.37	0.24
Reduction from Watering Twice/Day [e]	0%	0%
Emission Factor (Controlled, lbs/mile)	2.37	0.24

Notes:
[a] Mean vehicle weight assumes that medium/heavy duty trucks weigh 16.5 tons.
[b] Silt content taken from Table 13.2.2-1 of Section 13.2.2 of AP-42 for a Construction Site, Scraper Route; this value is consistent with the CalEEMod defaults.
[c] k, a, and b taken from Table 13.2.2-2 of Section 13.2.2 of AP-42 for industrial roads.
[d] Emission factor calculated using the following equation from Section 13.2.2 of AP-42: Emission Factor (lbs/mile) = {k (lbs/mile) x [Silt Content (%) / 12]^a x [Mean Vehicle Weight (tons) / 3]^b
[e] Watering trucks are not present during these construction activities so a control efficiency of 0 percent was applied.

Fugitive Dust Emission Factors for Grading

Grading Equipment Passes

Parameter	PM_{10}	$PM_{2.5}$
S (mph) [a]	7.1	7.1
F [a]	0.6	0.031
Emission Factor (lbs/VMT) [b]	1.543	0.167

Notes:
[a] The mean vehicle speed (S) and the particulate matter scaling factor (F) taken from Section 11.9 of AP-42 per Section 4.3 of Appendix A of the CalEEMod User's Guide.
[b] Emission factor calculated using the following equation from Section 4.3 of Appendix A of the CalEEMod User's Guide:

PM_{10} Emission Factor (lbs/VMT) = $0.051 \times (S)^{2.0} \times F_{PM10}$

$PM_{2.5}$ Emission Factor (lbs/VMT) = $0.04 \times (S)^{2.5} \times F_{PM2.5}$

Table 5.1A.39R Onsite Construction Fugitive Dust Emissions

Fugitive Dust Emission Factors for Bulldozing

Bulldozing Equipment Passes

Parameter	PM_{10}	$PM_{2.5}$
C [a]	5.7	5.7
M (%) [a]	7.9%	7.9%
s (%) [a]	6.9%	6.9%
F [a]	0.75	0.105
Emission Factor (lbs/hr) [b]	2.707	0.656

Notes:

[a] The arbitrary coefficient (C), material moisture content (M), material silt content (s), and particulate matter scaling factor (F) taken from Section 11.9 of AP-42 per Section 4.3 of Appendix A of the CalEEMod User's Guide.

[b] Emission factor calculated using the following equation from Section 4.3 of Appendix A of the CalEEMod User's Guide:

PM_{10} Emission Factor (lbs/hr) = $[(C \times s^{1.5}) / M^{1.4}] \times F_{PM10}$

$PM_{2.5}$ Emission Factor (lbs/hr) = $[(C \times s^{1.2}) / M^{1.3}] \times F_{PM2.5}$

Table 5.1A.40R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle Usage During Bldgs. 33 & 34 Construction

	Number per Day													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks [a]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Material Hauling Trucks [b]	0.10	2.30	2.10	3.10	4.30	1.30	0.30	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Construction Worker Commute [c]	36.00	49.00	51.00	51.00	49.00	52.00	61.00	62.00	68.00	75.00	63.00	79.00	76.00	0.00

Notes:

[a] Offsite Delivery Trucks include trucks transporting "Consumables & Supplies", as provided in 'Huntington Beach Truck Deliveries 032112.xls'. Due to the revised, shortened construction duration and in the absence of updated engineering data, the last month of delivery data provided in 'Huntington Beach Truck Deliveries 032112.xls' was not utilized.

[b] Material Hauling Trucks include trucks transporting "Fill Material", "Mechanical Equipment", "Electrical Equip. & Mtrls", "Concrete / Rebar / Rubble", "Steel/Architectural", "Contractor Mobilization", "Contractor Demobilization", and "Construction Equipment", as provided in 'Huntington Beach Truck Deliveries 032112.xls'. Due to the revised, shortened construction duration and in the absence of updated engineering data, the last month of hauling data provided in 'Huntington Beach Truck Deliveries 032112.xls' was not utilized.

[c] Assumed 1 commute per 1 worker; number of workers taken from 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'. Due to the revised, shortened construction duration and in the absence of updated engineering data, the first two months of manhour data provided in 'Manpower_Schedule_Huntington_Beach 03.13.12.xls' were not utilized.

Offsite Vehicle CO Emissions from Bldgs. 33 & 34 Construction

	CO Emissions (lbs/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Material Hauling Trucks	0.01	0.26	0.24	0.35	0.49	0.15	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Construction Worker Commute	1.74	2.37	2.46	2.46	2.37	2.51	2.95	3.00	3.29	3.62	3.04	3.82	3.67	0.00
Offsite Total (lbs/day)	**1.76**	**2.63**	**2.71**	**2.82**	**2.86**	**2.67**	**2.99**	**3.01**	**3.30**	**3.64**	**3.06**	**3.83**	**3.69**	**0.02**
	CO Emissions (lbs/month)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11
Material Hauling Trucks	0.26	6.04	5.52	8.15	11.30	3.42	0.79	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Construction Worker Commute	40.00	54.44	56.67	56.67	54.44	57.78	67.78	68.89	75.56	83.33	70.00	87.78	84.45	0.00
Offsite Total (lbs/month)	**40.38**	**60.60**	**62.30**	**64.92**	**65.86**	**61.31**	**68.68**	**69.26**	**75.93**	**83.71**	**70.38**	**88.15**	**84.82**	**0.37**
Offsite Total (tons/year)	**0.43**													

Offsite Vehicle VOC Emissions from Bldgs. 33 & 34 Construction

	VOC Emissions (lbs/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010
Material Hauling Trucks	0.0018	0.0425	0.0388	0.0573	0.0794	0.0240	0.0055	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018
Construction Worker Commute	0.0270	0.0368	0.0383	0.0383	0.0368	0.0390	0.0458	0.0465	0.0510	0.0563	0.0473	0.0593	0.0570	0.0000
Offsite Total (lbs/day)	**0.0299**	**0.0802**	**0.0781**	**0.0965**	**0.1172**	**0.0640**	**0.0523**	**0.0494**	**0.0539**	**0.0591**	**0.0501**	**0.0621**	**0.0599**	**0.0029**
	VOC Emissions (lbs/month)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
Material Hauling Trucks	0.042	0.977	0.892	1.317	1.827	0.552	0.127	0.042	0.042	0.042	0.042	0.042	0.042	0.042
Construction Worker Commute	0.621	0.845	0.880	0.880	0.845	0.897	1.052	1.070	1.173	1.294	1.087	1.363	1.311	0.000
Offsite Total (lbs/month)	**0.687**	**1.846**	**1.795**	**2.220**	**2.696**	**1.473**	**1.203**	**1.135**	**1.239**	**1.359**	**1.152**	**1.428**	**1.377**	**0.066**
Offsite Total (tons/year)	**0.01**													

Offsite Vehicle SOx Emissions from Bldgs. 33 & 34 Construction

	SOx Emissions (lbs/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
Material Hauling Trucks	0.00014	0.00314	0.00287	0.00424	0.00588	0.00178	0.00041	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014	0.00014
Construction Worker Commute	0.00557	0.00758	0.00789	0.00789	0.00758	0.00805	0.00944	0.00960	0.01052	0.01161	0.00975	0.01223	0.01176	0.00000
Offsite Total (lbs/day)	**0.00576**	**0.01078**	**0.01082**	**0.01218**	**0.01352**	**0.00988**	**0.00991**	**0.00979**	**0.01072**	**0.01180**	**0.00994**	**0.01242**	**0.01195**	**0.00019**
	SOx Emissions (lbs/month)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013	0.0013
Material Hauling Trucks	0.0031	0.0723	0.0660	0.0975	0.1352	0.0409	0.0094	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031
Construction Worker Commute	0.1281	0.1744	0.1815	0.1815	0.1744	0.1851	0.2171	0.2207	0.2420	0.2670	0.2243	0.2812	0.2705	0.0000
Offsite Total (lbs/month)	**0.1325**	**0.2480**	**0.2488**	**0.2803**	**0.3109**	**0.2272**	**0.2278**	**0.2251**	**0.2464**	**0.2714**	**0.2287**	**0.2856**	**0.2749**	**0.0044**
Offsite Total (tons/year)	**0.0015**													

Table 5.1A.40R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle NOx Emissions from Bldgs. 33 & 34 Construction

	NOx Emissions (lbs/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.012	0.012	0.012	0.012	0.012	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
Material Hauling Trucks	0.026	0.603	0.550	0.813	1.127	0.297	0.068	0.023	0.023	0.023	0.023	0.023	0.023	0.023
Construction Worker Commute	0.154	0.209	0.218	0.218	0.209	0.831	0.975	0.991	1.086	1.198	1.007	1.262	1.214	0.000
Offsite Total (lbs/day)	**0.192**	**0.825**	**0.781**	**1.043**	**1.349**	**1.139**	**1.054**	**1.025**	**1.120**	**1.232**	**1.041**	**1.296**	**1.248**	**0.034**
	NOx Emissions (lbs/month)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.282	0.282	0.282	0.282	0.282	0.258	0.258	0.258	0.258	0.258	0.258	0.258	0.258	0.258
Material Hauling Trucks	0.603	13.866	12.661	18.690	25.924	6.821	1.574	0.525	0.525	0.525	0.525	0.525	0.525	0.525
Construction Worker Commute	3.539	4.817	5.013	5.013	4.817	19.108	22.415	22.782	24.987	27.559	23.150	29.029	27.926	0.000
Offsite Total (lbs/month)	**4.423**	**18.965**	**17.956**	**23.984**	**31.022**	**26.186**	**24.246**	**23.564**	**25.769**	**28.341**	**23.932**	**29.811**	**28.709**	**0.782**
Offsite Total (tons/year)	**0.151**													

Offsite Vehicle PM_{10} Emissions from Bldgs. 33 & 34 Construction

	PM_{10} Emissions (lbs/day) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Material Hauling Trucks	0.004	0.096	0.088	0.130	0.180	0.054	0.012	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Construction Worker Commute	0.571	0.778	0.809	0.809	0.778	0.826	0.969	0.985	1.080	1.191	1.000	1.255	1.207	0.000
Offsite Total (lbs/day)	**0.577**	**0.876**	**0.899**	**0.941**	**0.959**	**0.881**	**0.983**	**0.990**	**1.086**	**1.197**	**1.006**	**1.260**	**1.213**	**0.006**
	PM_{10} Emissions (lbs/month) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.037	0.037	0.037	0.037	0.037	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036	0.036
Material Hauling Trucks	0.096	2.218	2.025	2.990	4.147	1.234	0.285	0.095	0.095	0.095	0.095	0.095	0.095	0.095
Construction Worker Commute	13.139	17.883	18.613	18.613	17.883	18.992	22.280	22.645	24.836	27.393	23.010	28.854	27.758	0.000
Offsite Total (lbs/month)	**13.272**	**20.139**	**20.676**	**21.640**	**22.067**	**20.263**	**22.601**	**22.776**	**24.968**	**27.524**	**23.141**	**28.985**	**27.889**	**0.131**
Offsite Total (tons/year)	**0.141**													

Notes:
[a] PM_{10} Emissions include emissions from exhaust and paved roads.

Offsite Vehicle $PM_{2.5}$ Emissions from Bldgs. 33 & 34 Construction

	$PM_{2.5}$ Emissions (lbs/day) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
Material Hauling Trucks	0.0018	0.0425	0.0388	0.0573	0.0795	0.0233	0.0054	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018	0.0018
Construction Worker Commute	0.1601	0.2179	0.2268	0.2268	0.2179	0.2312	0.2712	0.2757	0.3023	0.3335	0.2801	0.3512	0.3379	0.0000
Offsite Total (lbs/day)	**0.1626**	**0.2611**	**0.2663**	**0.2848**	**0.2981**	**0.2552**	**0.2773**	**0.2781**	**0.3048**	**0.3359**	**0.2826**	**0.3537**	**0.3404**	**0.0025**
	$PM_{2.5}$ Emissions (lbs/month) [a]													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.016
Material Hauling Trucks	0.043	0.978	0.893	1.318	1.828	0.536	0.124	0.041	0.041	0.041	0.041	0.041	0.041	0.041
Construction Worker Commute	3.681	5.011	5.215	5.215	5.011	5.318	6.238	6.340	6.954	7.670	6.443	8.079	7.772	0.000
Offsite Total (lbs/month)	**3.740**	**6.005**	**6.125**	**6.550**	**6.855**	**5.869**	**6.377**	**6.397**	**7.011**	**7.727**	**6.499**	**8.136**	**7.829**	**0.057**
Offsite Total (tons/year)	**0.041**													

Notes:
[a] $PM_{2.5}$ Emissions include emissions from exhaust and paved roads.

Table 5.1A.40R Offsite Motor Vehicle Exhaust and Fugitive Dust Emissions

Offsite Vehicle CO_2 Emissions from Bldgs. 33 & 34 Construction

	CO_2 Emissions (metric tons/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Material Hauling Trucks	0.007	0.151	0.138	0.203	0.282	0.085	0.020	0.007	0.007	0.007	0.007	0.007	0.007	0.007
Construction Worker Commute	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Offsite Total (metric tons/day)	**0.009**	**0.154**	**0.140**	**0.206**	**0.285**	**0.088**	**0.022**	**0.009**	**0.009**	**0.009**	**0.009**	**0.009**	**0.009**	**0.009**
	CO_2 Emissions (metric tons/month)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Material Hauling Trucks	0.15	3.47	3.17	4.68	6.49	1.96	0.45	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Construction Worker Commute	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite Total (metric tons/month)	**0.21**	**3.53**	**3.23**	**4.74**	**6.55**	**2.02**	**0.51**	**0.21**	**0.21**	**0.21**	**0.21**	**0.21**	**0.21**	**0.21**
Offsite Total (metric tons/year)	**21.8**													

Offsite Vehicle N_2O Emissions from Bldgs. 33 & 34 Construction

	N_2O Emissions (metric tons/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007
Material Hauling Trucks	0.000000019	0.000000442	0.000000403	0.000000595	0.000000826	0.000000250	0.000000058	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019	0.000000019
Construction Worker Commute	0.0000028	0.0000038	0.0000040	0.0000040	0.0000038	0.0000040	0.0000047	0.0000048	0.0000053	0.0000058	0.0000049	0.0000061	0.0000059	0.0000000
Offsite Total (metric tons/day)	**0.00000283**	**0.00000426**	**0.00000438**	**0.00000457**	**0.00000464**	**0.00000430**	**0.00000481**	**0.00000485**	**0.00000531**	**0.00000586**	**0.00000493**	**0.00000617**	**0.00000594**	**0.00000003**
	N_2O Emissions (metric tons/month)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002	0.0000002
Material Hauling Trucks	0.0000004	0.0000102	0.0000093	0.0000137	0.0000190	0.0000057	0.0000013	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004	0.0000004
Construction Worker Commute	0.0000644	0.0000876	0.0000912	0.0000912	0.0000876	0.0000930	0.0001091	0.0001109	0.0001216	0.0001341	0.0001127	0.0001413	0.0001359	0.0000000
Offsite Total (metric tons/month)	**0.000065**	**0.000098**	**0.000101**	**0.000105**	**0.000107**	**0.000099**	**0.000111**	**0.000111**	**0.000122**	**0.000135**	**0.000113**	**0.000142**	**0.000137**	**0.000001**
Offsite Total (metric tons/year)	**0.0014**													

Offsite Vehicle CH_4 Emissions from Bldgs. 33 & 34 Construction

	CH_4 Emissions (metric tons/day)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007	0.000000007
Material Hauling Trucks	0.000000020	0.000000469	0.000000428	0.000000632	0.000000877	0.000000265	0.000000061	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020	0.000000020
Construction Worker Commute	0.0000135	0.0000183	0.0000191	0.0000191	0.0000183	0.0000194	0.0000228	0.0000232	0.0000254	0.0000280	0.0000235	0.0000295	0.0000284	0.0000000
Offsite Total (metric tons/day)	**0.00001348**	**0.00001879**	**0.00001949**	**0.00001970**	**0.00001919**	**0.00001970**	**0.00002286**	**0.00002320**	**0.00002544**	**0.00002805**	**0.00002357**	**0.00002955**	**0.00002843**	**0.00000003**
	CH_4 Emissions (metric tons/month)													
Vehicle Type	**77**	**78**	**79**	**80**	**81**	**82**	**83**	**84**	**85**	**86**	**87**	**88**	**89**	**90**
Offsite Delivery Trucks	0.00000017	0.00000017	0.00000017	0.00000017	0.00000017	0.00000017	0.00000017	0.00000017	0.00000017	0.00000017	0.00000017	0.00000017	0.00000017	0.00000017
Material Hauling Trucks	0.00000047	0.00001079	0.00000985	0.00001455	0.00002018	0.00000610	0.00000141	0.00000047	0.00000047	0.00000047	0.00000047	0.00000047	0.00000047	0.00000047
Construction Worker Commute	0.0003094	0.0004211	0.0004383	0.0004383	0.0004211	0.0004469	0.0005243	0.0005329	0.0005844	0.0006446	0.0005415	0.0006790	0.0006532	0.0000000
Offsite Total (metric tons/month)	**0.0003100**	**0.0004321**	**0.0004484**	**0.0004530**	**0.0004415**	**0.0004532**	**0.0005259**	**0.0005335**	**0.0005851**	**0.0006452**	**0.0005421**	**0.0006796**	**0.0006538**	**0.0000006**
Offsite Total (metric tons/year)	**0.0064**													

Offsite Construction Vehicle Activity for Bldgs. 33 & 34 Construction

Vehicle Type	**Roundtrip Miles/Day [a]**	**Working Days per Month [b]**
Offsite Delivery Trucks	14.6	23
Material Hauling Trucks	40.0	23
Construction Worker Commute	21.6	23

Notes:

[a] Roundtrip miles/day taken as the CalEEMod defaults for the South Coast Air Basin.

[b] Per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Table 5.1A.41R Equations Used to Calculate Criteria Pollutant and GHG Emissions

Equations Used to Calculate Emissions from Bldgs. 33 & 34 Construction

Emission Source	Pollutant(s)	Equation	Variables
Construction Equipment Exhaust	CO, VOC, NOx, SOx, PM_{10}, and $PM_{2.5}$	$E_m = EF * N * Hp * L * H / 453.6$	E_m = Emissions (lbs/month)
			EF = Emission factor (g/bhp-hr)
			N = Number of pieces of equipment
			Hp = Average horsepower
			L = Average load factor
			H = Hours per month
			453.6 = Conversion from g to lbs
		$E_d = E_m / D$	E_d = Emissions (lbs/day)
			E_m = Emissions (lbs/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons
	CO_2	$E_m = N * FC * EF * H * 0.001$	E_m = Emissions (metric tons/month)
			N = Number of pieces of equipment
			FC = Fuel consumption (gallons/hour)
			EF = Emission factor (kg/gallon)
			H = Hours per month
			0.001 = Conversion from kg to metric tons
		$E_d = E_m / D$	E_d = Emissions (metric tons/day)
			E_m = Emissions (metric tons/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
	CH_4 and N_2O	$E_m = N * FC * EF * H / 1{,}000 * 0.001$	E_m = Emissions (metric tons/month)
			N = Number of pieces of equipment
			FC = Fuel consumption (gallons/hour)
			EF = Emission factor (g/gallon)
			H = Hours per month
			1,000 = Conversion from g to kg
			0.001 = Conversion from kg to metric tons
		$E_d = E_m / D$	E_d = Emissions (metric tons/day)
			E_m = Emissions (metric tons/month)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
Onsite and Offsite Vehicle Exhaust and Paved and Unpaved Road Fugitive PM_{10} and $PM_{2.5}$	CO, VOC, NOx, SOx, PM_{10}, and $PM_{2.5}$	$E_d = N * VMT * EF / 453.6$	E_d = Emissions (lbs/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			EF = EMFAC2007 emission factor (g/mile). Paved and unpaved road fugitive PM_{10} and $PM_{2.5}$ emission factors calculated per Sections 13.2.1 and 13.2.2 of AP-42, respectively.
			453.6 = Conversion from g to lbs
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons

Table 5.1A.41R Equations Used to Calculate Criteria Pollutant and GHG Emissions

Equations Used to Calculate Emissions from Bldgs. 33 & 34 Construction

Emission Source	Pollutant(s)	Equation	Variables
Onsite and Offsite Vehicle Exhaust	CO_2	$E_d = N * VMT / FE * EF * 0.001$	E_d = Emissions (metric tons/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			FE = Fuel economy (mpg)
			EF = Emission factor (kg/gallon)
			0.001 = Conversion from kg to metric tons
		$E_m = E_d * D$	E_m = Emissions (metric tons/month)
			E_d = Emissions (metric tons/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
	CH_4 and N_2O	$E_d = N * VMT * EF / 1{,}000 * 0.001$	E_d = Emissions (metric tons/day)
			N = Number of vehicles
			VMT = Vehicle miles traveled per day (miles/day)
			EF = Emission factor (g/mile)
			1,000 = Conversion from g to kg
			0.001 = Conversion from kg to metric tons
		$E_m = E_d * D$	E_m = Emissions (metric tons/month)
			E_d = Emissions (metric tons/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m$	E_t = Emissions (metric tons/year)
			E_m = Emissions (metric tons/month)
Onsite Fugitive PM_{10} and $PM_{2.5}$ from Grading	PM_{10} and $PM_{2.5}$	$E_d = EF \times A / W \times 43{,}560 / 5{,}280 / D$	E_d = Emissions (lbs/day)
			EF = Fugitive PM_{10} and $PM_{2.5}$ emission factors (lbs/mile), calculated per Section 4.3 of Appendix A of the CalEEMod User's Guide.
			A = Site disturbed (acres/month)
			W = Grading equipment blade width (ft)
			43,560 = Conversion factor from square feet to acres
			5,280 = Conversion factor from feet to miles
			D = Number of construction days per month
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons
Onsite Fugitive PM_{10} and $PM_{2.5}$ from Bulldozing	PM_{10} and $PM_{2.5}$	$E_d = EF \times H / D$	E_d = Emissions (lbs/day)
			EF = Fugitive PM_{10} and $PM_{2.5}$ emission factors (lbs/mile), calculated per Section 4.3 of Appendix A of the CalEEMod User's Guide.
			H = Hours per month for all bulldozers
			D = Number of construction days per month
		$E_m = E_d * D$	E_m = Emissions (lbs/month)
			E_d = Emissions (lbs/day)
			D = Number of construction days per month
		$E_t = \Sigma E_m / 2{,}000$	E_t = Emissions (tons/year)
			E_m = Emissions (lbs/month)
			2,000 = Conversion from lbs to tons

Table 5.1A.42R Number of Onsite Construction Equipment and Motor Vehicles

Number of Onsite Equipment for Bldgs. 33 & 34 Construction

Onsite Equipment	Number per Month [a]													
	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Grader	0	1	1	1	1	1	0	0	0	0	0	0	0	0
Cranes	0	0	0	1	1	1	1	1	1	1	1	1	1	1
Tractor/Loader/Backhoe [b]	0	1	1	1	1	1	0	0	0	0	0	0	0	0
Rubber Tired Loader [c]	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Crawler Tractor [d]	0	1	1	1	1	1	0	0	0	0	0	0	0	0
Air Compressor	1	1	1	1	0	0	0	0	0	0	0	0	0	0
Roller [e]	0	1	1	1	1	1	0	0	0	0	0	0	0	0

Notes:

[a] Equipment counts taken from 'HBEP Equipment Usage 01.21.13.xls'.

[b] Numbers presented for Tractor/Loader/Backhoe includes the equipment counts for the Backhoe.

[c] Numbers presented for Rubber Tired Loader includes the equipment counts for the Front End Loader.

[d] Numbers presented for Crawler Tractor includes the equipment counts for the Dozer

[e] Numbers presented for Roller includes the equipment counts for the Compactor.

Number of Onsite Motor Vehicles for Bldgs. 33 & 34 Construction

Vehicle Type	Number per Month [a]													
	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Onsite Pick-up Truck	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Onsite Stake Truck	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Onsite Dump Truck	0	1	1	1	0	0	0	0	0	0	0	0	0	0

Notes:

[a] Vehicle counts taken from 'HBEP Equipment Usage 01.21.13.xls'.

Table 5.1A.43R Construction Equipment Exhaust Criteria Pollutant Emission Factors

Construction Equipment Emission Factors for Bldgs. 33 & 34 Construction

Equipment [a]	Percent Usage [b]	Hours per Month [c]	Horsepower [d]	Load Factor [d]	Emission Factors (g/bhp-hr) [e]									Fuel Consumption (gallons/hour) [f]
					CO	VOC	NO_X 2021	NO_X 2022	SO_X	PM_{10} 2021	PM_{10} 2022	$PM_{2.5}$ 2021	$PM_{2.5}$ 2022	
Grader	80%	184	162	0.61	3.337	0.391	2.300	2.046	0.006	0.122	0.107	0.122	0.107	5.64
Cranes	65%	150	208	0.43	1.219	0.337	2.231	1.979	0.006	0.077	0.068	0.077	0.068	5.07
Tractor/Loader/Backhoe	55%	127	75	0.55	3.728	0.373	2.499	2.321	0.006	0.118	0.099	0.118	0.099	2.36
Rubber Tired Loader	55%	127	87	0.54	3.820	0.501	3.155	2.929	0.006	0.198	0.171	0.198	0.171	2.69
Crawler Tractor	80%	184	82	0.64	3.977	0.673	3.959	3.710	0.006	0.290	0.262	0.290	0.262	3.01
Air Compressor	80%	184	78	0.48	3.670	0.442	3.083	2.844	0.006	0.190	0.165	0.190	0.165	2.14
Roller	60%	138	84	0.56	3.712	0.509	3.395	3.150	0.006	0.228	0.199	0.228	0.199	2.69

Notes:

[a] Assumed all equipment is fired with diesel fuel, per Section 4.2 of Appendix A of the CalEEMod User's Guide.

[b] Percent Usage assumed typical of power plant construction.

[c] Hours per month calculated based on the following schedule, per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls'.

Work hours per day: 10
Work days per month: 23

[d] Construction equipment horsepower and load factor taken from Table 3.3 of Appendix D of the CalEEMod User's Guide.

[e] Construction equipment emission factors taken from Table 3.4 of Appendix D of the CalEEMod User's Guide. The emission factors for the year 2021 were used for the construction equipment exhaust emission calculations for CO, VOC, and SOx. The emission factors for years 2021 and 2022 were used for NOx, PM10, and PM2.5.

[f] Fuel consumption based on consumption in the OFFROAD2007 model for the SCAB in the year 2021; value estimated by dividing the reported consumption (gallons/day) by the reported activity (hours/day).

Table 5.1A.44R Onsite and Offsite Motor Vehicle Criteria Pollutant Emission Factors

Vehicle Emission Factors for Bldgs. 33 & 34 Construction

Vehicle Type	Vehicle Class [a]	Exhaust Emission Factors (g/mile) [b]									Paved Road Emission Factors (g/mile) [c]		Fuel Economy (mpg) [b]
		CO	VOC	SO_X	NO_X 2021	NO_X 2022	PM_{10} 2021	PM_{10} 2022	$PM_{2.5}$ 2021	$PM_{2.5}$ 2022	PM_{10}	$PM_{2.5}$	
Onsite Pick-up Truck	Light-duty Truck	2.402	0.143	0.011	0.223	0.207	0.128	0.129	0.106	0.107	N/A	N/A	7.473
Onsite Stake Truck	Heavy-duty Diesel	7.170	3.891	0.037	11.246	10.375	0.430	0.368	0.357	0.301	N/A	N/A	2.621
Onsite Dump Truck	Heavy-duty Diesel	7.170	3.891	0.037	11.246	10.375	0.430	0.368	0.357	0.301	N/A	N/A	2.621
Offsite Delivery Trucks	Heavy-duty Diesel	1.516	0.313	0.017	3.805	3.481	0.201	0.190	0.147	0.137	0.300	0.075	5.749
Material Hauling Trucks	Heavy/Medium-duty Diesel	1.296	0.210	0.016	2.973	2.587	0.175	0.168	0.135	0.128	0.300	0.075	6.224
Construction Worker Commute	Light-duty Auto/Truck	1.015	0.016	0.003	0.090	0.336	0.033	0.033	0.018	0.018	0.300	0.075	27.539

Notes:

[a] The vehicle classes are represented as follows:

Light-duty Truck: Assumed to be an average of LDT1, All and LDT2, All values.
Heavy-duty Diesel: Assumed to be 100% HHD DSL values, as confirmed in Section 4.5 of Appendix A of the CalEEMod User's Guide.
Heavy/Medium-duty Diesel: 50% HHD DSL and 50% MHD DSL values, per Section 4.5 of Appendix A of the CalEEMod User's Guide.
Light-duty Auto/Truck: 50% LDA, All; 25% LDT1, All; and 25% LDT2, All values, per Section 4.5 of Appendix A of the CalEEMod User's Guide.

[b] Exhaust emission factors and fuel economy from EMFAC2007 for the South Coast Air Basin, calendar year 2021 for CO, VOC, and SOx. Calendar years 2021 and 2022 were used for NOx, PM10, and PM2.5. A speed of 5 mph was assumed for onsite vehicles; a speed of 40 mph was assumed for offsite vehicles and worker commutes, which is consistent with the CalEEMod defaults. An average temperature of 68°F and humidity of 55% were used per Table B-1 of CT-EMFAC: A Computer Model to Estimate Transportation Project Emissions.

[c] Paved road emission factors calculated using CalEEMod methodology, as described below.

Derivation of Paved Road Emission Factors

Vehicles on Paved Roads

Parameter	PM_{10}	$PM_{2.5}$
Average Weight [a]	2.4	2.4
k [b]	1.0	0.25
sL [a]	0.1	0.1
Emission Factor (g/mile) [c]	0.300	0.075

Notes:

[a] Average Weight and sL taken as the default value from CalEEMod.

[b] k taken from Table 13.2.1-1 of Section 13.2.1 of AP-42.

[c] Emission factor calculated using Equation 1 from Section 13.2.1 of AP-42:

$$\text{Emission Factor (g/mile)} = k\ (\text{g/mile}) \times [sL\ (\text{g/m}^2)]^{0.91} \times [\text{Average Weight (tons)}]^{1.02}$$

Table 5.1A.45R Onsite and Offsite Greenhouse Gas Emission Factors

Greenhouse Gas Emission Factors for Bldgs. 33 & 34 Construction

Fuel / Category Type	Emission Factor	Emission Factor Units	Emission Factor Source
CO_2 Emission Factors			
Gasoline	8.78	kg CO_2/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.1, May 2008 as updated through January 2012.
Diesel	10.21	kg CO_2/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.1, May 2008 as updated through January 2012.
N_2O Emission Factors			
Gasoline Passenger Car Model Year 2009 [a]	0.0036	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Gasoline Light-duty Truck Model Year 2009 [a]	0.0066	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Heavy-duty Truck Model Year 1960 - 2009 [a]	0.0048	g N_2O/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Off-road Vehicle	0.26	g N_2O/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.7, May 2008 as updated through January 2012.
CH_4 Emission Factors			
Gasoline Passenger Car Model Year 2009 [a]	0.0173	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Gasoline Light-duty Truck Model Year 2009 [a]	0.0163	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Heavy-duty Truck Model Year 1960 - 2009 [a]	0.0051	g CH_4/mile	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.5, May 2008 as updated through January 2012.
Diesel Off-road Vehicle	0.58	g CH_4/gallon	The Climate Registry General Reporting Protocol, Version 1.1, Table 13.7, May 2008 as updated through January 2012.

Notes:

[a] Model Year 2009 was the most recent year of emission factors available. As a result, it was assumed representative of vehicles used for this project.

Table 5.1A.46R Onsite Construction
Exhaust and Fugitive Emissions Summary

Onsite CO Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)	642.06	642.06	640.80	811.24	868.31	868.31	868.31	868.31	998.25	957.75	957.75	963.80	1,098.33	1,098.33	1,098.33																	
Total (lbs/day)	27.92	27.92	27.86	35.27	37.75	37.75	37.75	37.75	43.40	41.64	41.64	41.90	47.75	47.75	47.75																	
Block 1 Construction																																
Total (lbs/month)																1,292.23	1,292.23	1,153.77	1,232.42	820.88	603.94	682.04	682.04	721.36	721.36	680.95	680.95	720.27	590.44	551.12	551.12	551.12
Total (lbs/day)																56.18	56.18	50.16	53.58	35.69	26.26	29.65	29.65	31.36	31.36	29.61	29.61	31.32	25.67	23.96	23.96	23.96
Block 2 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite CO Emissions (Construction Equipment and Vehicles)																																
Pounds per Month	642.06	642.06	640.80	811.24	868.31	868.31	868.31	868.31	998.25	957.75	957.75	963.80	1,098.33	1,098.33	1,098.33	1,292.23	1,292.23	1,153.77	1,232.42	820.88	603.94	682.04	682.04	721.36	721.36	680.95	680.95	720.27	590.44	551.12	551.12	551.12
Pounds per Day	27.92	27.92	27.86	35.27	37.75	37.75	37.75	37.75	43.40	41.64	41.64	41.90	47.75	47.75	47.75	56.18	56.18	50.16	53.58	35.69	26.26	29.65	29.65	31.36	31.36	29.61	29.61	31.32	25.67	23.96	23.96	23.96
Yearly Maximums	10,087	10,543	10,999	11,457	11,938	12,362	12,647	13,011	12,964	12,570	12,294	12,018	11,776	11,399	10,982	10,564	9,992	9,290	8,688	8,006	7,737	7,684	7,474	7,265	7,370	8,237	9,145	9,727	10,267	10,713	11,015	11,317

Maximum Pounds per Day	69.06
Maximum Pounds per Hour [a]	6.91
Maximum Pounds per Month	1,588.30
Month with Maximum	37 or 38
Maximum Pounds per Year	14,505
Maximum Average Pounds per Hour [b]	1.66
Year with Maximum	Months 78 - 89
Tons per Year	7.25

Onsite VOC Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)	133.40	133.40	144.82	179.14	187.42	187.42	187.42	187.42	207.94	194.14	194.14	198.92	222.77	222.77	222.77																	
Total (lbs/day)	5.80	5.80	6.30	7.79	8.15	8.15	8.15	8.15	9.04	8.44	8.44	8.65	9.69	9.69	9.69																	
Block 1 Construction																																
Total (lbs/month)																235.92	235.92	206.45	232.57	161.54	122.85	148.65	148.65	161.71	161.71	148.01	148.01	161.07	142.09	129.03	129.03	129.03
Total (lbs/day)																10.26	10.26	8.98	10.11	7.02	5.34	6.46	6.46	7.03	7.03	6.44	6.44	7.00	6.18	5.61	5.61	5.61
Block 2 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite VOC Emissions (Construction Equipment and Vehicles)																																
Pounds per Month	133.40	133.40	144.82	179.14	187.42	187.42	187.42	187.42	207.94	194.14	194.14	198.92	222.77	222.77	222.77	235.92	235.92	206.45	232.57	161.54	122.85	148.65	148.65	161.71	161.71	148.01	148.01	161.07	142.09	129.03	129.03	129.03
Pounds per Day	5.80	5.80	6.30	7.79	8.15	8.15	8.15	8.15	9.04	8.44	8.44	8.65	9.69	9.69	9.69	10.26	10.26	8.98	10.11	7.02	5.34	6.46	6.46	7.03	7.03	6.44	6.44	7.00	6.18	5.61	5.61	5.61
Yearly Maximums	2,136	2,225	2,314	2,392	2,449	2,498	2,517	2,562	2,536	2,451	2,405	2,360	2,323	2,261	2,187	2,112	2,037	1,943	1,866	1,762	1,730	1,736	1,690	1,645	1,649	1,764	1,894	1,968	2,027	2,072	2,113	2,154

Maximum Pounds per Day	12.05
Maximum Pounds per Hour [a]	1.21
Maximum Pounds per Month	277.25
Month with Maximum	37 or 38
Maximum Pounds per Year	2,562
Maximum Average Pounds per Hour [b]	0.29
Year with Maximum	Months 8 - 19
Tons per Year	1.28

Onsite NOx Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)	894.53	894.53	1,018.01	1,286.40	1,345.15	1,345.15	1,345.15	1,345.15	1,489.83	1,231.65	1,231.65	1,259.93	1,418.47	1,418.47	1,418.47																	
Total (lbs/day)	38.89	38.89	44.26	55.93	58.48	58.48	58.48	58.48	64.78	53.55	53.55	54.78	61.67	61.67	61.67																	
Block 1 Construction																																
Total (lbs/month)																1,441.95	1,441.95	1,263.68	1,488.78	1,103.48	858.06	974.85	974.85	1,076.90	1,076.90	973.16	973.16	1,075.22	962.28	860.23	860.23	860.23
Total (lbs/day)																62.69	62.69	54.94	64.73	47.98	37.31	42.38	42.38	46.82	46.82	42.31	42.31	46.75	41.84	37.40	37.40	37.40
Block 2 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite NOx Emissions (Construction Equipment and Vehicles)																																
Pounds per Month	894.53	894.53	1,018.01	1,286.40	1,345.15	1,345.15	1,345.15	1,345.15	1,489.83	1,231.65	1,231.65	1,259.93	1,418.47	1,418.47	1,418.47	1,441.95	1,441.95	1,263.68	1,488.78	1,103.48	858.06	974.85	974.85	1,076.90	1,076.90	973.16	973.16	1,075.22	962.28	860.23	860.23	860.23
Pounds per Day	38.89	38.89	44.26	55.93	58.48	58.48	58.48	58.48	64.78	53.55	53.55	54.78	61.67	61.67	61.67	62.69	62.69	54.94	64.73	47.98	37.31	42.38	42.38	46.82	46.82	42.31	42.31	46.75	41.84	37.40	37.40	37.40
Yearly Maximums	14,687	15,211	15,735	16,135	16,291	16,388	16,306	16,450	16,208	15,577	15,320	15,063	14,880	14,538	14,093	13,648	13,281	12,801	12,398	11,769	11,526	11,528	11,143	10,758	10,675	11,304	12,037	12,426	12,712	12,894	13,123	13,352

Maximum Pounds per Day	74.19
Maximum Pounds per Hour [a]	7.42
Maximum Pounds per Month	1,706.30
Month with Maximum	37 or 38
Maximum Pounds per Year	16,450
Maximum Average Pounds per Hour [b]	1.88
Year with Maximum	Months 8 - 19
Tons per Year	8.22

Table 5.1A.46R Onsite Construction
Exhaust and Fugitive Emissions Summary

Onsite SOx Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)	1.22	1.22	1.43	1.84	1.94	1.94	1.94	1.94	2.18	2.00	2.00	1.99	2.23	2.23	2.23																	
Total (lbs/day)	0.05	0.05	0.06	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.10	0.10	0.10																	
Block 1 Construction																																
Total (lbs/month)																2.34	2.34	2.14	2.49	1.77	1.41	1.76	1.76	1.94	1.94	1.76	1.76	1.93	1.70	1.52	1.52	1.52
Total (lbs/day)																0.10	0.10	0.09	0.11	0.08	0.06	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07
Block 2 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite SOx Emissions (Construction Equipment and Vehicles)																																
Pounds per Month	**1.22**	**1.22**	**1.43**	**1.84**	**1.94**	**1.94**	**1.94**	**1.94**	**2.18**	**2.00**	**2.00**	**1.99**	**2.23**	**2.23**	**2.23**	**2.34**	**2.34**	**2.14**	**2.49**	**1.77**	**1.41**	**1.76**	**1.76**	**1.94**	**1.94**	**1.76**	**1.76**	**1.93**	**1.70**	**1.52**	**1.52**	**1.52**
Pounds per Day	**0.05**	**0.05**	**0.06**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.09**	**0.09**	**0.09**	**0.09**	**0.10**	**0.10**	**0.10**	**0.10**	**0.10**	**0.09**	**0.11**	**0.08**	**0.06**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.07**	**0.07**	**0.07**	**0.07**
Yearly Maximums	**22**	**23**	**24**	**24**	**25**	**25**	**26**	**26**	**26**	**25**	**25**	**25**	**25**	**24**	**24**	**23**	**23**	**22**	**22**	**21**	**21**	**21**	**20**	**19**	**19**	**21**	**22**	**23**	**24**	**25**	**25**	**26**

Maximum Pounds per Day	**0.14**
Maximum Pounds per Hour [a]	**0.01**
Maximum Pounds per Month	**3.24**
Month with Maximum	**37 or 38**
Maximum Pounds per Year	**32**
Maximum Average Pounds per Hour [b]	**0.00**
Year with Maximum	**Months 78 - 89**
Tons per Year	**0.02**

Onsite Exhaust PM_{10} Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)	57.43	57.43	59.12	71.26	74.46	74.46	74.46	74.46	82.32	69.47	69.47	73.22	81.96	81.96	81.96																	
Total (lbs/day)	2.50	2.50	2.57	3.10	3.24	3.24	3.24	3.24	3.58	3.02	3.02	3.18	3.56	3.56	3.56																	
Block 1 Construction																																
Total (lbs/month)																98.69	98.69	84.01	91.73	62.56	45.87	47.30	47.30	50.77	50.77	47.21	47.21	50.69	44.71	41.23	41.23	41.23
Total (lbs/day)																4.29	4.29	3.65	3.99	2.72	1.99	2.06	2.06	2.21	2.21	2.05	2.05	2.20	1.94	1.79	1.79	1.79
Block 2 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite Exhaust PM_{10} Emissions (Construction Equipment and Vehicles)																																
Pounds per Month	**57.43**	**57.43**	**59.12**	**71.26**	**74.46**	**74.46**	**74.46**	**74.46**	**82.32**	**69.47**	**69.47**	**73.22**	**81.96**	**81.96**	**81.96**	**98.69**	**98.69**	**84.01**	**91.73**	**62.56**	**45.87**	**47.30**	**47.30**	**50.77**	**50.77**	**47.21**	**47.21**	**50.69**	**44.71**	**41.23**	**41.23**	**41.23**
Pounds per Day	**2.50**	**2.50**	**2.57**	**3.10**	**3.24**	**3.24**	**3.24**	**3.24**	**3.58**	**3.02**	**3.02**	**3.18**	**3.56**	**3.56**	**3.56**	**4.29**	**4.29**	**3.65**	**3.99**	**2.72**	**1.99**	**2.06**	**2.06**	**2.21**	**2.21**	**2.05**	**2.05**	**2.20**	**1.94**	**1.79**	**1.79**	**1.79**
Yearly Maximums	**838**	**862**	**887**	**909**	**937**	**961**	**971**	**988**	**976**	**940**	**917**	**895**	**873**	**842**	**807**	**772**	**724**	**670**	**627**	**577**	**556**	**551**	**534**	**516**	**518**	**565**	**616**	**642**	**665**	**683**	**694**	**705**

Maximum Pounds per Day	**4.29**
Maximum Pounds per Hour [a]	**0.43**
Maximum Pounds per Month	**98.69**
Month with Maximum	**16 or 17**
Maximum Pounds per Year	**988**
Maximum Average Pounds per Hour [b]	**0.11**
Year with Maximum	**Months 8 - 19**
Tons per Year	**0.49**

Onsite Fugitive PM_{10} Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)	280.73	280.73	329.76	329.76	329.76	329.76	329.76	329.76	329.76	329.76	329.76	280.73	280.73	280.73	280.73																	
Total (lbs/day)	12.21	12.21	14.34	14.34	14.34	14.34	14.34	14.34	14.34	14.34	14.34	12.21	12.21	12.21	12.21																	
Block 1 Construction																																
Total (lbs/month)																1,491.90	1,491.90	869.22	869.22	867.81	245.14	220.62	220.62	220.62	220.62	171.60	171.60	171.60	171.60	171.60	171.60	171.60
Total (lbs/day)																64.87	64.87	37.79	37.79	37.73	10.66	9.59	9.59	9.59	9.59	7.46	7.46	7.46	7.46	7.46	7.46	7.46
Block 2 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite Fugitive PM_{10} Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																																
Pounds per Month	**280.73**	**280.73**	**329.76**	**329.76**	**329.76**	**329.76**	**329.76**	**329.76**	**329.76**	**329.76**	**329.76**	**280.73**	**280.73**	**280.73**	**280.73**	**1,491.90**	**1,491.90**	**869.22**	**869.22**	**867.81**	**245.14**	**220.62**	**220.62**	**220.62**	**220.62**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**
Pounds per Day	**12.21**	**12.21**	**14.34**	**14.34**	**14.34**	**14.34**	**14.34**	**14.34**	**14.34**	**14.34**	**14.34**	**12.21**	**12.21**	**12.21**	**12.21**	**64.87**	**64.87**	**37.79**	**37.79**	**37.73**	**10.66**	**9.59**	**9.59**	**9.59**	**9.59**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**
Yearly Maximums	**3,810**	**3,810**	**3,810**	**3,761**	**4,923**	**6,085**	**6,625**	**7,164**	**7,702**	**7,618**	**7,509**	**7,399**	**7,339**	**7,279**	**7,170**	**7,061**	**5,741**	**4,420**	**3,723**	**3,025**	**2,329**	**2,255**	**2,206**	**2,157**	**2,854**	**4,296**	**5,787**	**6,656**	**7,500**	**8,343**	**8,564**	**8,760**

Maximum Pounds per Day	**72.29**
Maximum Pounds per Hour [a]	**7.23**
Maximum Pounds per Month	**1,652.77**
Month with Maximum	**37 or 38**
Maximum Pounds per Year	**10,439**
Maximum Average Pounds per Hour [b]	**1.19**
Year with Maximum	**Months 77 - 88 or 78 - 89**
Tons per Year	**5.22**

Table 5.1A.46R Onsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite PM_{10} Emissions (Exhaust and Fugitive)

Parameter	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Pounds per Month	338.17	338.17	388.88	401.02	404.22	404.22	404.22	404.22	412.09	399.23	399.23	353.96	362.69	362.69	362.69	1,590.58	1,590.58	953.23	960.96	930.37	291.00	267.92	267.92	271.40	271.40	218.81	218.81	222.28	216.31	212.83	212.83	212.83
Pounds per Day	14.70	14.70	16.91	17.44	17.57	17.57	17.57	17.57	17.92	17.36	17.36	15.39	15.77	15.77	15.77	69.16	69.16	41.44	41.78	40.45	12.65	11.65	11.65	11.80	11.80	9.51	9.51	9.66	9.40	9.25	9.25	9.25
Yearly Maximums	4,648	4,672	4,697	4,670	5,860	7,046	7,595	8,152	8,678	8,557	8,426	8,295	8,212	8,121	7,977	7,833	6,465	5,090	4,350	3,602	2,884	2,806	2,740	2,674	3,372	4,862	6,453	7,298	8,165	9,026	9,258	9,465

Maximum Pounds per Day	76.54
Maximum Pounds per Hour [a]	7.65
Maximum Pounds per Month	1,760.46
Month with Maximum	37 or 38
Maximum Pounds per Year	10,944
Maximum Average Pounds per Hour [b]	1.25
Year with Maximum	Months 77 - 88
Tons per Year	5.47

Onsite Exhaust $PM_{2.5}$ Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)	57.40	57.40	59.07	71.22	74.41	74.41	74.41	74.41	82.28	69.43	69.43	73.19	81.93	81.93	81.93																	
Total (lbs/day)	2.50	2.50	2.57	3.10	3.24	3.24	3.24	3.24	3.58	3.02	3.02	3.18	3.56	3.56	3.56																	
Block 1 Construction																																
Total (lbs/month)																98.65	98.65	83.97	91.69	62.52	45.83	47.26	47.26	50.74	50.74	47.19	47.19	50.67	44.69	41.21	41.21	41.21
Total (lbs/day)																4.29	4.29	3.65	3.99	2.72	1.99	2.05	2.05	2.21	2.21	2.05	2.05	2.20	1.94	1.79	1.79	1.79
Block 2 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite Exhaust $PM_{2.5}$ Emissions (Construction Equipment and Vehicles)																																
Pounds per Month	57.40	57.40	59.07	71.22	74.41	74.41	74.41	74.41	82.28	69.43	69.43	73.19	81.93	81.93	81.93	98.65	98.65	83.97	91.69	62.52	45.83	47.26	47.26	50.74	50.74	47.19	47.19	50.67	44.69	41.21	41.21	41.21
Pounds per Day	2.50	2.50	2.57	3.10	3.24	3.24	3.24	3.24	3.58	3.02	3.02	3.18	3.56	3.56	3.56	4.29	4.29	3.65	3.99	2.72	1.99	2.05	2.05	2.21	2.21	2.05	2.05	2.20	1.94	1.79	1.79	1.79
Yearly Maximums	837	862	886	909	936	961	970	987	976	939	917	895	872	841	806	772	724	670	627	577	555	551	533	516	518	565	615	642	665	682	693	705

Maximum Pounds per Day	4.29
Maximum Pounds per Hour [a]	0.43
Maximum Pounds per Month	98.65
Month with Maximum	16 or 17
Maximum Pounds per Year	987
Maximum Average Pounds per Hour [b]	0.11
Year with Maximum	Months 8 - 19
Tons per Year	0.49

Onsite Fugitive $PM_{2.5}$ Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)	32.43	32.43	37.33	37.33	37.33	37.33	37.33	37.33	37.33	37.33	37.33	32.43	32.43	32.43	32.43																	
Total (lbs/day)	1.41	1.41	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.41	1.41	1.41	1.41																	
Block 1 Construction																																
Total (lbs/month)																326.33	326.33	175.50	175.50	175.35	24.51	22.06	22.06	22.06	22.06	17.16	17.16	17.16	17.16	17.16	17.16	17.16
Total (lbs/day)																14.19	14.19	7.63	7.63	7.62	1.07	0.96	0.96	0.96	0.96	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Block 2 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite Fugitive $PM_{2.5}$ Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																																
Pounds per Month	32.43	32.43	37.33	37.33	37.33	37.33	37.33	37.33	37.33	37.33	37.33	32.43	32.43	32.43	32.43	326.33	326.33	175.50	175.50	175.35	24.51	22.06	22.06	22.06	22.06	17.16	17.16	17.16	17.16	17.16	17.16	17.16
Pounds per Day	1.41	1.41	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.41	1.41	1.41	1.41	14.19	14.19	7.63	7.63	7.62	1.07	0.96	0.96	0.96	0.96	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Yearly Maximums	433	433	433	428	717	1,006	1,145	1,283	1,421	1,408	1,393	1,377	1,367	1,357	1,341	1,326	1,017	708	549	391	233	226	221	216	374	695	1,022	1,197	1,370	1,543	1,565	1,585

Maximum Pounds per Day	14.93
Maximum Pounds per Hour [a]	1.49
Maximum Pounds per Month	343.41
Month with Maximum	37 or 38
Maximum Pounds per Year	1,645
Maximum Average Pounds per Hour [b]	0.19
Year with Maximum	Months 77 - 88 or 78 - 89
Tons per Year	0.82

Table 5.1A.46R Onsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

Parameter	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Pounds per Month	89.83	89.83	96.40	108.54	111.74	111.74	111.74	111.74	119.61	106.76	106.76	105.62	114.36	114.36	114.36	424.98	424.98	259.47	267.19	237.87	70.34	69.33	69.33	72.81	72.81	64.35	64.35	67.83	61.85	58.37	58.37	58.37
Pounds per Day	3.91	3.91	4.19	4.72	4.86	4.86	4.86	4.86	5.20	4.64	4.64	4.59	4.97	4.97	4.97	18.48	18.48	11.28	11.62	10.34	3.06	3.01	3.01	3.17	3.17	2.80	2.80	2.95	2.69	2.54	2.54	2.54
Yearly Maximums	1,270	1,295	1,319	1,337	1,654	1,967	2,115	2,270	2,396	2,347	2,310	2,272	2,239	2,198	2,148	2,098	1,741	1,378	1,176	968	788	776	754	732	892	1,260	1,637	1,839	2,035	2,225	2,258	2,289

Maximum Pounds per Day	19.18
Maximum Pounds per Hour [a]	1.918
Maximum Pounds per Month	441.05
Month with Maximum	37 or 38
Maximum Pounds per Year	2,396
Maximum Average Pounds per Hour [b]	0.274
Year with Maximum	Months 9 - 20
Tons per Year	1.20

Onsite CO_2 Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (metric tons/month)	56.43	56.43	65.60	83.55	88.04	88.04	88.04	88.04	98.24	90.49	90.49	90.26	100.87	100.87	100.87																	
Total (metric tons/day)	2.45	2.45	2.85	3.63	3.83	3.83	3.83	3.83	4.27	3.93	3.93	3.92	4.39	4.39	4.39																	
Block 1 Construction																																
Total (metric tons/month)																105.87	105.87	96.74	112.25	80.27	64.41	79.83	79.83	87.59	87.59	79.65	79.65	87.41	77.21	69.45	69.45	69.45
Total (metric tons/day)																4.60	4.60	4.21	4.88	3.49	2.80	3.47	3.47	3.81	3.81	3.46	3.46	3.80	3.36	3.02	3.02	3.02
Block 2 Construction																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Units 1 & 2 Demolition																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Bldgs. 33 & 34 Construction																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Total Onsite CO_2 Emissions (Construction Equipment and Vehicles)																																
Metric Tons per Month	56.43	56.43	65.60	83.55	88.04	88.04	88.04	88.04	98.24	90.49	90.49	90.26	100.87	100.87	100.87	105.87	105.87	96.74	112.25	80.27	64.41	79.83	79.83	87.59	87.59	79.65	79.65	87.41	77.21	69.45	69.45	69.45
Metric Tons per Day	2.45	2.45	2.85	3.63	3.83	3.83	3.83	3.83	4.27	3.93	3.93	3.92	4.39	4.39	4.39	4.60	4.60	4.21	4.88	3.49	2.80	3.47	3.47	3.81	3.81	3.46	3.46	3.80	3.36	3.02	3.02	3.02
Yearly Maximums	984	1,028	1,073	1,108	1,130	1,148	1,157	1,181	1,173	1,139	1,129	1,118	1,115	1,102	1,081	1,060	1,041	1,012	985	942	932	937	911	885	888	948	1,016	1,061	1,097	1,127	1,160	1,194

Maximum Metric Tons per Day	6.42
Maximum Metric Tons per Hour [a]	0.64
Maximum Metric Tons per Month	147.75
Month with Maximum	37 or 38
Maximum Metric Tons per Year	1,427
Maximum Average Metric Tons per Hour [b]	0.16
Year with Maximum	Months 78 - 89

Onsite N_2O Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (metric tons/month)	0.00143	0.00143	0.00166	0.00211	0.00223	0.00223	0.00223	0.00223	0.00249	0.00229	0.00229	0.00229	0.00256	0.00256	0.00256																	
Total (metric tons/day)	0.00006	0.00006	0.00007	0.00009	0.00010	0.00010	0.00010	0.00010	0.00011	0.00010	0.00010	0.00010	0.00011	0.00011	0.00011																	
Block 1 Construction																																
Total (metric tons/month)																0.00268	0.00268	0.00245	0.00284	0.00203	0.00163	0.00202	0.00202	0.00222	0.00222	0.00202	0.00202	0.00222	0.00196	0.00176	0.00176	0.00176
Total (metric tons/day)																0.00012	0.00012	0.00011	0.00012	0.00009	0.00007	0.00009	0.00009	0.00010	0.00010	0.00009	0.00009	0.00010	0.00009	0.00008	0.00008	0.00008
Block 2 Construction																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Units 1 & 2 Demolition																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Bldgs. 33 & 34 Construction																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Total Onsite N_2O Emissions (Construction Equipment and Vehicles)																																
Metric Tons per Month	0.00143	0.00143	0.00166	0.00211	0.00223	0.00223	0.00223	0.00223	0.00249	0.00229	0.00229	0.00229	0.00256	0.00256	0.00256	0.00268	0.00268	0.00245	0.00284	0.00203	0.00163	0.00202	0.00202	0.00222	0.00222	0.00202	0.00202	0.00222	0.00196	0.00176	0.00176	0.00176
Metric Tons per Day	0.00006	0.00006	0.00007	0.00009	0.00010	0.00010	0.00010	0.00010	0.00011	0.00010	0.00010	0.00010	0.00011	0.00011	0.00011	0.00012	0.00012	0.00011	0.00012	0.00009	0.00007	0.00009	0.00009	0.00010	0.00010	0.00009	0.00009	0.00010	0.00009	0.00008	0.00008	0.00008
Yearly Maximums	0.02488	0.02601	0.02714	0.02805	0.02861	0.02907	0.02929	0.02991	0.02971	0.02885	0.02858	0.02831	0.02824	0.02790	0.02736	0.02682	0.02636	0.02563	0.02495	0.02386	0.02359	0.02373	0.02307	0.02242	0.02249	0.02401	0.02573	0.02685	0.02777	0.02851	0.02935	0.03020

Maximum Metric Tons per Day	0.000163
Maximum Metric Tons per Hour [a]	0.0000163
Maximum Metric Tons per Month	0.00374
Month with Maximum	37 or 38
Maximum Metric Tons per Year	0.03619
Maximum Average Metric Tons per Hour [b]	0.00000413
Year with Maximum	Months 78 - 89

Onsite CH_4 Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (metric tons/month)	0.00318	0.00318	0.00369	0.00471	0.00497	0.00497	0.00497	0.00497	0.00555	0.00511	0.00511	0.00510	0.00571	0.00571	0.00571																	
Total (metric tons/day)	0.00014	0.00014	0.00016	0.00020	0.00022	0.00022	0.00022	0.00022	0.00024	0.00022	0.00022	0.00022	0.00025	0.00025	0.00025																	
Block 1 Construction																																
Total (metric tons/month)																0.00598	0.00598	0.00546	0.00634	0.00453	0.00362	0.00451	0.00451	0.00495	0.00495	0.00451	0.00451	0.00495	0.00437	0.00393	0.00393	0.00393
Total (metric tons/day)																0.00026	0.00026	0.00024	0.00028	0.00020	0.00016	0.00020	0.00020	0.00022	0.00022	0.00020	0.00020	0.00022	0.00019	0.00017	0.00017	0.00017
Block 2 Construction																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Units 1 & 2 Demolition																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Bldgs. 33 & 34 Construction																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Total Onsite CH_4 Emissions (Construction Equipment and Vehicles)																																
Metric Tons per Month	0.00318	0.00318	0.00369	0.00471	0.00497	0.00497	0.00497	0.00497	0.00555	0.00511	0.00511	0.00510	0.00571	0.00571	0.00571	0.00598	0.00598	0.00546	0.00634	0.00453	0.00362	0.00451	0.00451	0.00495	0.00495	0.00451	0.00451	0.00495	0.00437	0.00393	0.00393	0.00393
Metric Tons per Day	0.00014	0.00014	0.00016	0.00020	0.00022	0.00022	0.00022	0.00022	0.00024	0.00022	0.00022	0.00022	0.00025	0.00025	0.00025	0.00026	0.00026	0.00024	0.00028	0.00020	0.00016	0.00020	0.00020	0.00022	0.00022	0.00020	0.00020	0.00022	0.00019	0.00017	0.00017	0.00017
Yearly Maximums	0.05549	0.05802	0.06054	0.06256	0.06382	0.06484	0.06533	0.06671	0.06627	0.06434	0.06374	0.06314	0.06299	0.06223	0.06103	0.05983	0.05879	0.05718	0.05564	0.05323	0.05263	0.05293	0.05147	0.05001	0.05016	0.05356	0.05739	0.05989	0.06195	0.06358	0.06547	0.06735

Maximum Metric Tons per Day	0.000363
Maximum Metric Tons per Hour [a]	0.0000363
Maximum Metric Tons per Month	0.00834
Month with Maximum	37 or 38
Maximum Metric Tons per Year	0.08072
Maximum Average Metric Tons per Hour [b]	0.0000092
Year with Maximum	Months 78 - 89

Notes:
[a] The hours per day are per 'Manpower Schedule Huntington Beach 03.13.12.xls': 10 hours/day
[b] The hours per year are assumed to allow operation 24 hours per day, 7 days per week despite the actual construction schedule per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 8,760 hours/year

Table 5.1A.46R Onsite Construction
Exhaust and Fugitive Emissions Summary

Onsite CO Emissions

Construction Step	CO Emissions by Month																															
	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Block 1 Construction																																
Total (lbs/month)	551.12	472.47	472.47	357.55	306.20	306.20	306.20	227.01	227.01	183.29	183.29	372.40	372.40																			
Total (lbs/day)	23.96	20.54	20.54	15.55	13.31	13.31	13.31	9.87	9.87	7.97	7.97	16.19	16.19																			
Block 2 Construction																																
Total (lbs/month)				469.54	1,282.09	1,282.09	957.23	1,032.52	810.23	669.84	669.38	669.38	707.03	669.38	668.47	743.76	706.11	538.80	538.80	538.80	538.80	463.51	349.45	298.70	298.70	298.70	298.70	298.70	222.96	411.07	411.07	
Total (lbs/day)				20.41	55.74	55.74	41.62	44.89	35.23	29.12	29.10	29.10	30.74	29.10	29.06	32.34	30.70	23.43	23.43	23.43	23.43	20.15	15.19	12.99	12.99	12.99	12.99	12.99	9.69	17.87	17.87	
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite CO Emissions (Construction Equipment and Vehicles)																																
Pounds per Month	551.12	472.47	472.47	827.09	1,588.30	1,588.30	1,263.44	1,259.53	1,037.24	853.13	852.68	1,041.78	1,079.43	669.38	668.47	743.76	706.11	538.80	538.80	538.80	538.80	463.51	349.45	298.70	298.70	298.70	298.70	298.70	222.96	411.07	411.07	0.00
Pounds per Day	23.96	20.54	20.54	35.96	69.06	69.06	54.93	54.76	45.10	37.09	37.07	45.29	46.93	29.10	29.06	32.34	30.70	23.43	23.43	23.43	23.43	20.15	15.19	12.99	12.99	12.99	12.99	12.99	9.69	17.87	17.87	0.00
Yearly Maximums	11,808	12,336	12,533	12,729	12,645	11,763	10,714	9,989	9,268	8,770	8,380	7,877	7,134	6,353	5,983	5,613	5,168	4,685	4,557	4,429	3,890	3,352	2,888	3,191	3,544	4,085	4,625	5,295	5,965	6,674	7,195	7,716
Maximum Pounds per Day																																
Maximum Pounds per Hour [a]																																
Maximum Pounds per Month																																
Month with Maximum																																
Maximum Pounds per Year																																
Maximum Average Pounds per Hour [b]																																
Year with Maximum																																
Tons per Year																																

Onsite VOC Emissions

Construction Step	VOC Emissions by Month																															
	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Block 1 Construction																																
Total (lbs/month)	129.03	102.92	102.92	83.87	74.10	74.10	74.10	47.67	47.67	41.04	41.04	74.33	74.33																			
Total (lbs/day)	5.61	4.47	4.47	3.65	3.22	3.22	3.22	2.07	2.07	1.78	1.78	3.23	3.23																			
Block 2 Construction																																
Total (lbs/month)				82.06	203.15	203.15	148.63	172.09	139.18	129.19	128.94	128.94	140.67	128.94	128.42	151.88	140.15	112.34	112.34	112.34	112.34	88.87	72.98	64.65	64.65	64.65	64.65	64.65	40.93	69.74	69.74	
Total (lbs/day)				3.57	8.83	8.83	6.46	7.48	6.05	5.62	5.61	5.61	6.12	5.61	5.58	6.60	6.09	4.88	4.88	4.88	4.88	3.86	3.17	2.81	2.81	2.81	2.81	2.81	1.78	3.03	3.03	
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite VOC Emissions (Construction Equipment and Vehicles)																																
Pounds per Month	129.03	102.92	102.92	165.92	277.25	277.25	222.73	219.76	186.85	170.24	169.98	203.27	215.00	128.94	128.42	151.88	140.15	112.34	112.34	112.34	112.34	88.87	72.98	64.65	64.65	64.65	64.65	64.65	40.93	69.74	69.74	0.00
Pounds per Day	5.61	4.47	4.47	7.21	12.05	12.05	9.68	9.55	8.12	7.40	7.39	8.84	9.35	5.61	5.58	6.60	6.09	4.88	4.88	4.88	4.88	3.86	3.17	2.81	2.81	2.81	2.81	2.81	1.78	3.03	3.03	0.00
Yearly Maximums	2,228	2,314	2,340	2,366	2,352	2,214	2,050	1,939	1,832	1,757	1,676	1,579	1,440	1,290	1,226	1,162	1,075	975	933	890	778	666	577	608	648	707	766	839	911	997	1,055	1,112
Maximum Pounds per Day																																
Maximum Pounds per Hour [a]																																
Maximum Pounds per Month																																
Month with Maximum																																
Maximum Pounds per Year																																
Maximum Average Pounds per Hour [b]																																
Year with Maximum																																
Tons per Year																																

Onsite NOx Emissions

Construction Step	NOx Emissions by Month																															
	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Block 1 Construction																																
Total (lbs/month)	860.23	589.76	589.76	488.50	436.42	436.42	436.42	251.43	251.43	214.32	214.32	403.84	403.84																			
Total (lbs/day)	37.40	25.64	25.64	21.24	18.97	18.97	18.97	10.93	10.93	9.32	9.32	17.56	17.56																			
Block 2 Construction																																
Total (lbs/month)				505.06	1,269.88	1,269.88	925.54	1,109.78	892.78	875.27	874.52	874.52	966.64	783.13	781.76	947.25	864.50	695.29	695.29	695.29	695.29	529.80	438.73	390.56	390.56	348.76	348.76	348.76	200.33	356.05	356.05	
Total (lbs/day)				21.96	55.21	55.21	40.24	48.25	38.82	38.06	38.02	38.02	42.03	34.05	33.99	41.18	37.59	30.23	30.23	30.23	30.23	23.03	19.08	16.98	16.98	15.16	15.16	15.16	8.71	15.48	15.48	
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite NOx Emissions (Construction Equipment and Vehicles)																																
Pounds per Month	860.23	589.76	589.76	993.57	1,706.30	1,706.30	1,361.96	1,361.20	1,144.21	1,089.59	1,088.83	1,278.36	1,370.48	783.13	781.76	947.25	864.50	695.29	695.29	695.29	695.29	529.80	438.73	390.56	390.56	348.76	348.76	348.76	200.33	356.05	356.05	0.00
Pounds per Day	37.40	25.64	25.64	43.20	74.19	74.19	59.22	59.18	49.75	47.37	47.34	55.58	59.59	34.05	33.99	41.18	37.59	30.23	30.23	30.23	30.23	23.03	19.08	16.98	16.98	15.16	15.16	15.16	8.71	15.48	15.48	0.00
Yearly Maximums	13,770	14,280	14,474	14,666	14,619	13,778	12,767	12,100	11,434	10,985	10,425	9,775	8,887	7,907	7,473	7,040	6,442	5,777	5,438	5,099	4,404	3,708	3,179	3,379	3,627	3,981	4,290	4,666	5,041	5,499	5,802	6,104
Maximum Pounds per Day																																
Maximum Pounds per Hour [a]																																
Maximum Pounds per Month																																
Month with Maximum																																
Maximum Pounds per Year																																
Maximum Average Pounds per Hour [b]																																
Year with Maximum																																
Tons per Year																																

Table 5.1A.46R Onsite Construction
Exhaust and Fugitive Emissions Summary

Onsite SOx Emissions

	SOx Emissions by Month																														
Construction Step	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Block 1 Construction																																
Total (lbs/month)	1.52	1.17	1.17	0.98	0.90	0.90	0.90	0.54	0.54	0.47	0.47	0.80	0.80																			
Total (lbs/day)	0.07	0.05	0.05	0.04	0.04	0.04	0.04	0.02	0.02	0.02	0.02	0.03	0.03																			
Block 2 Construction																																
Total (lbs/month)				0.97	2.34	2.34	1.81	2.17	1.77	1.76	1.76	1.76	1.94	1.76	1.76	2.11	1.93	1.52	1.52	1.52	1.52	1.17	0.98	0.90	0.90	0.90	0.90	0.90	0.54	0.87	0.87	
Total (lbs/day)				0.04	0.10	0.10	0.08	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.08	0.07	0.07	0.07	0.07	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.02	0.04	0.04	
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite SOx Emissions (Construction Equipment and Vehicles)																																
Pounds per Month	**1.52**	**1.17**	**1.17**	**1.95**	**3.24**	**3.24**	**2.71**	**2.71**	**2.31**	**2.24**	**2.23**	**2.56**	**2.74**	**1.76**	**1.76**	**2.11**	**1.93**	**1.52**	**1.52**	**1.52**	**1.52**	**1.17**	**0.98**	**0.90**	**0.90**	**0.90**	**0.90**	**0.90**	**0.54**	**0.87**	**0.87**	**0.00**
Pounds per Day	**0.07**	**0.05**	**0.05**	**0.08**	**0.14**	**0.14**	**0.12**	**0.12**	**0.10**	**0.10**	**0.10**	**0.11**	**0.12**	**0.08**	**0.08**	**0.09**	**0.08**	**0.07**	**0.07**	**0.07**	**0.07**	**0.05**	**0.04**	**0.04**	**0.04**	**0.04**	**0.04**	**0.04**	**0.02**	**0.04**	**0.04**	**0.00**
Yearly Maximums	**27**	**28**	**29**	**29**	**30**	**28**	**27**	**25**	**24**	**23**	**22**	**21**	**19**	**18**	**17**	**16**	**15**	**13**	**13**	**12**	**10**	**9**	**8**	**8**	**9**	**10**	**11**	**13**	**14**	**15**	**17**	**18**
Maximum Pounds per Day																																
Maximum Pounds per Hour [a]																																
Maximum Pounds per Month																																
Month with Maximum																																
Maximum Pounds per Year																																
Maximum Average Pounds per Hour [b]																																
Year with Maximum																																
Tons per Year																																

Onsite Exhaust PM_{10} Emissions

	Exhaust PM_{10} Emissions by Month																														
Construction Step	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Block 1 Construction																																
Total (lbs/month)	41.23	30.10	30.10	23.38	19.50	19.50	19.50	13.15	13.15	10.84	10.84	22.59	22.59																			
Total (lbs/day)	1.79	1.31	1.31	1.02	0.85	0.85	0.85	0.57	0.57	0.47	0.47	0.98	0.98																			
Block 2 Construction																																
Total (lbs/month)				29.24	78.19	78.19	54.34	60.65	48.69	41.65	41.61	41.61	44.77	36.25	36.19	41.85	39.02	31.79	31.79	31.79	31.79	26.13	20.40	16.98	16.98	14.81	14.81	14.81	9.72	19.01	19.01	
Total (lbs/day)				1.27	3.40	3.40	2.36	2.64	2.12	1.81	1.81	1.81	1.95	1.58	1.57	1.82	1.70	1.38	1.38	1.38	1.38	1.14	0.89	0.74	0.74	0.64	0.64	0.64	0.42	0.83	0.83	
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite Exhaust PM_{10} Emissions (Construction Equipment and Vehicles)																																
Pounds per Month	**41.23**	**30.10**	**30.10**	**52.61**	**97.69**	**97.69**	**73.84**	**73.80**	**61.84**	**52.49**	**52.45**	**64.20**	**67.36**	**36.25**	**36.19**	**41.85**	**39.02**	**31.79**	**31.79**	**31.79**	**31.79**	**26.13**	**20.40**	**16.98**	**16.98**	**14.81**	**14.81**	**14.81**	**9.72**	**19.01**	**19.01**	**0.00**
Pounds per Day	**1.79**	**1.31**	**1.31**	**2.29**	**4.25**	**4.25**	**3.21**	**3.21**	**2.69**	**2.28**	**2.28**	**2.79**	**2.93**	**1.58**	**1.57**	**1.82**	**1.70**	**1.38**	**1.38**	**1.38**	**1.38**	**1.14**	**0.89**	**0.74**	**0.74**	**0.64**	**0.64**	**0.64**	**0.42**	**0.83**	**0.83**	**0.00**
Yearly Maximums	**728**	**754**	**760**	**766**	**756**	**697**	**631**	**589**	**547**	**517**	**491**	**459**	**411**	**361**	**340**	**318**	**291**	**262**	**249**	**236**	**204**	**173**	**147**	**156**	**168**	**186**	**202**	**220**	**239**	**261**	**273**	**285**
Maximum Pounds per Day																																
Maximum Pounds per Hour [a]																																
Maximum Pounds per Month																																
Month with Maximum																																
Maximum Pounds per Year																																
Maximum Average Pounds per Hour [b]																																
Year with Maximum																																
Tons per Year																																

Onsite Fugitive PM_{10} Emissions

	Fugitive PM_{10} Emissions by Month																														
Construction Step	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Block 1 Construction																																
Total (lbs/month)	171.60	171.60	171.60	171.60	171.60	171.60	171.60	147.08	147.08	147.08	147.08	148.50	148.50																			
Total (lbs/day)	7.46	7.46	7.46	7.46	7.46	7.46	7.46	6.39	6.39	6.39	6.39	6.46	6.46																			
Block 2 Construction																																
Total (lbs/month)				745.94	1,491.18	1,491.18	868.51	868.51	867.81	245.14	220.62	220.62	220.62	220.62	171.60	171.60	171.60	171.60	171.60	171.60	171.60	171.60	171.60	171.60	171.60	171.60	171.60	171.60	147.08	147.78	147.78	
Total (lbs/day)				32.43	64.83	64.83	37.76	37.76	37.73	10.66	9.59	9.59	9.59	9.59	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	7.46	6.39	6.43	6.43	
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite Fugitive PM_{10} Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																																
Pounds per Month	**171.60**	**171.60**	**171.60**	**917.53**	**1,662.77**	**1,662.77**	**1,040.10**	**1,015.59**	**1,014.89**	**392.22**	**367.71**	**369.12**	**369.12**	**220.62**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**171.60**	**147.08**	**147.78**	**147.78**	**0.00**
Pounds per Day	**7.46**	**7.46**	**7.46**	**39.89**	**72.29**	**72.29**	**45.22**	**44.16**	**44.13**	**17.05**	**15.99**	**16.05**	**16.05**	**9.59**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**7.46**	**6.39**	**6.43**	**6.43**	**0.00**
Yearly Maximums	**8,957**	**9,155**	**9,204**	**9,204**	**8,458**	**6,967**	**5,476**	**4,607**	**3,763**	**2,920**	**2,699**	**2,503**	**2,306**	**2,108**	**2,059**	**2,059**	**2,059**	**2,035**	**2,011**	**1,987**	**1,815**	**1,644**	**1,472**	**1,679**	**1,887**	**2,094**	**2,301**	**2,508**	**2,715**	**2,947**	**3,178**	**3,409**
Maximum Pounds per Day																																
Maximum Pounds per Hour [a]																																
Maximum Pounds per Month																																
Month with Maximum																																
Maximum Pounds per Year																																
Maximum Average Pounds per Hour [b]																																
Year with Maximum																																
Tons per Year																																

Table 5.1A.46R Onsite Construction
Exhaust and Fugitive Emissions Summary

Total Onsite PM_{10} Emissions (Exhaust and Fugitive)

	Total PM_{10} Emissions by Month																															
Parameter	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Pounds per Month	212.83	201.70	201.70	970.15	1,760.46	1,760.46	1,113.94	1,089.39	1,076.73	444.71	420.16	433.32	436.48	256.87	207.78	213.44	210.61	203.39	203.39	203.39	203.39	197.73	191.99	188.57	188.57	186.41	186.41	186.41	156.80	166.79	166.79	0.00
Pounds per Day	9.25	8.77	8.77	42.18	76.54	76.54	48.43	47.36	46.81	19.34	18.27	18.84	18.98	11.17	9.03	9.28	9.16	8.84	8.84	8.84	8.84	8.60	8.35	8.20	8.20	8.10	8.10	8.10	6.82	7.25	7.25	0.00
Yearly Maximums	9,686	9,909	9,964	9,970	9,214	7,664	6,107	5,196	4,310	3,437	3,190	2,962	2,717	2,469	2,399	2,377	2,350	2,296	2,260	2,223	2,020	1,816	1,619	1,635	2,055	2,280	2,503	2,729	2,954	3,208	3,451	3,694
Maximum Pounds per Day																																
Maximum Pounds per Hour [a]																																
Maximum Pounds per Month																																
Month with Maximum																																
Maximum Pounds per Year																																
Maximum Average Pounds per Hour [b]																																
Year with Maximum																																
Tons per Year																																

Onsite Exhaust $PM_{2.5}$ Emissions

	Exhaust $PM_{2.5}$ Emissions by Month																															
Construction Step	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Block 1 Construction																																
Total (lbs/month)	41.21	30.08	30.08	23.36	19.48	19.48	19.48	13.14	13.14	10.83	10.83	22.58	22.58																			
Total (lbs/day)	1.79	1.31	1.31	1.02	0.85	0.85	0.85	0.57	0.57	0.47	0.47	0.98	0.98																			
Block 2 Construction																																
Total (lbs/month)				29.22	78.15	78.15	54.31	60.62	48.65	41.61	41.58	41.58	44.74	36.22	36.17	41.83	39.00	31.77	31.77	31.77	31.77	26.11	20.38	16.96	16.96	14.80	14.80	14.80	9.71	19.00	19.00	
Total (lbs/day)				1.27	3.40	3.40	2.36	2.64	2.12	1.81	1.81	1.81	1.95	1.57	1.57	1.82	1.70	1.38	1.38	1.38	1.38	1.14	0.89	0.74	0.74	0.64	0.64	0.64	0.42	0.83	0.83	
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite Exhaust $PM_{2.5}$ Emissions (Construction Equipment and Vehicles)																																
Pounds per Month	41.21	30.08	30.08	52.58	97.63	97.63	73.79	73.76	61.79	52.44	52.41	64.16	67.31	36.22	36.17	41.83	39.00	31.77	31.77	31.77	31.77	26.11	20.38	16.96	16.96	14.80	14.80	14.80	9.71	19.00	19.00	0.00
Pounds per Day	1.79	1.31	1.31	2.29	4.24	4.24	3.21	3.21	2.69	2.28	2.28	2.79	2.93	1.57	1.57	1.82	1.70	1.38	1.38	1.38	1.38	1.14	0.89	0.74	0.74	0.64	0.64	0.64	0.42	0.83	0.83	0.00
Yearly Maximums	728	754	760	766	755	697	631	589	547	517	490	458	411	361	339	318	291	262	249	236	204	173	146	156	168	186	202	220	239	260	273	285
Maximum Pounds per Day																																
Maximum Pounds per Hour [a]																																
Maximum Pounds per Month																																
Month with Maximum																																
Maximum Pounds per Year																																
Maximum Average Pounds per Hour [b]																																
Year with Maximum																																
Tons per Year																																

Onsite Fugitive $PM_{2.5}$ Emissions

	Fugitive $PM_{2.5}$ Emissions by Month																															
Construction Step	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Block 1 Construction																																
Total (lbs/month)	17.16	17.16	17.16	17.16	17.16	17.16	17.16	14.71	14.71	14.71	14.71	14.86	14.86																			
Total (lbs/day)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.64	0.64	0.64	0.64	0.65	0.65																			
Block 2 Construction																																
Total (lbs/month)				163.16	326.25	326.25	175.42	175.42	175.35	24.51	22.06	22.06	22.06	22.06	17.16	17.16	17.16	17.16	17.16	17.16	17.16	17.16	17.16	17.16	17.16	17.16	17.16	17.16	14.71	14.78	14.78	
Total (lbs/day)				7.09	14.18	14.18	7.63	7.63	7.62	1.07	0.96	0.96	0.96	0.96	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.64	0.64	0.64	
Units 1 & 2 Demolition																																
Total (lbs/month)																																
Total (lbs/day)																																
Bldgs. 33 & 34 Construction																																
Total (lbs/month)																																
Total (lbs/day)																																
Total Onsite Fugitive $PM_{2.5}$ Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																																
Pounds per Month	17.16	17.16	17.16	180.32	343.41	343.41	192.58	190.13	190.05	39.22	36.77	36.92	36.92	22.06	17.16	17.16	17.16	17.16	17.16	17.16	17.16	17.16	17.16	17.16	17.16	17.16	17.16	17.16	14.71	14.78	14.78	0.00
Pounds per Day	0.75	0.75	0.75	7.84	14.93	14.93	8.37	8.27	8.26	1.71	1.60	1.61	1.61	0.96	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.64	0.64	0.64	0.00
Yearly Maximums	1,604	1,624	1,629	1,629	1,466	1,140	813	638	465	292	270	250	231	211	206	206	206	203	201	199	182	164	147	181	215	249	283	317	351	387	423	459
Maximum Pounds per Day																																
Maximum Pounds per Hour [a]																																
Maximum Pounds per Month																																
Month with Maximum																																
Maximum Pounds per Year																																
Maximum Average Pounds per Hour [b]																																
Year with Maximum																																
Tons per Year																																

Table 5.1A.46R Onsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

	Total $PM_{2.5}$ Emissions by Month																															
Parameter	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Pounds per Month	58.37	47.24	47.24	232.90	441.05	441.05	266.37	263.89	251.85	91.66	89.18	101.08	104.24	58.28	53.33	58.99	56.16	48.93	48.93	48.93	48.93	43.27	37.54	34.12	34.12	31.96	31.96	31.96	24.41	33.78	33.78	0.00
Pounds per Day	2.54	2.05	2.05	10.13	19.18	19.18	11.58	11.47	10.95	3.99	3.88	4.39	4.53	2.53	2.32	2.56	2.44	2.13	2.13	2.13	2.13	1.88	1.63	1.48	1.48	1.39	1.39	1.39	1.06	1.47	1.47	0.00
Yearly Maximums	2,332	2,378	2,389	2,395	2,221	1,836	1,444	1,227	1,012	809	760	709	642	572	545	524	497	465	450	435	386	337	294	337	383	435	484	537	590	647	696	744
Maximum Pounds per Day																																
Maximum Pounds per Hour [a]																																
Maximum Pounds per Month																																
Month with Maximum																																
Maximum Pounds per Year																																
Maximum Average Pounds per Hour [b]																																
Year with Maximum																																
Tons per Year																																

Onsite CO_2 Emissions

	CO_2 Emissions by Month																															
Construction Step	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Block 1 Construction																																
Total (metric tons/month)	69.45	53.95	53.95	45.42	41.94	41.94	41.94	26.34	26.34	23.30	23.30	37.71	37.71																			
Total (metric tons/day)	3.02	2.35	2.35	1.97	1.82	1.82	1.82	1.15	1.15	1.01	1.01	1.64	1.64																			
Block 2 Construction																																
Total (metric tons/month)				45.05	105.81	105.81	82.28	97.79	80.22	79.87	79.78	79.78	87.54	79.78	79.60	95.11	87.36	69.40	69.40	69.40	69.40	53.90	45.38	41.91	41.91	41.91	41.91	41.91	26.31	40.72	40.72	
Total (metric tons/day)				1.96	4.60	4.60	3.58	4.25	3.49	3.47	3.47	3.47	3.81	3.47	3.46	4.14	3.80	3.02	3.02	3.02	3.02	2.34	1.97	1.82	1.82	1.82	1.82	1.82	1.14	1.77	1.77	
Units 1 & 2 Demolition																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Bldgs. 33 & 34 Construction																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Total Onsite CO_2 Emissions (Construction Equipment and Vehicles)																																
Metric Tons per Month	69.45	53.95	53.95	90.46	147.75	147.75	124.22	124.13	106.56	103.17	103.08	117.50	125.25	79.78	79.60	95.11	87.36	69.40	69.40	69.40	69.40	53.90	45.38	41.91	41.91	41.91	41.91	41.91	26.31	40.72	40.72	0.00
Metric Tons per Day	3.02	2.35	2.35	3.93	6.42	6.42	5.40	5.40	4.63	4.49	4.48	5.11	5.45	3.47	3.46	4.14	3.80	3.02	3.02	3.02	3.02	2.34	1.97	1.82	1.82	1.82	1.82	1.82	1.14	1.77	1.77	0.00
Yearly Maximums	1,242	1,298	1,324	1,349	1,354	1,294	1,215	1,160	1,106	1,068	1,019	962	886	803	765	727	674	613	584	555	486	417	363	392	424	472	519	576	634	699	750	801
Maximum Metric Tons per Day																																
Maximum Metric Tons per Hour [a]																																
Maximum Metric Tons per Month																																
Month with Maximum																																
Maximum Metric Tons per Year																																
Maximum Average Metric Tons per Hour [b]																																
Year with Maximum																																

Onsite N_2O Emissions

	N_2O Emissions by Month																															
Construction Step	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Block 1 Construction																																
Total (metric tons/month)	0.00176	0.00137	0.00137	0.00115	0.00106	0.00106	0.00106	0.00066	0.00066	0.00059	0.00059	0.00095	0.00095																			
Total (metric tons/day)	0.00008	0.00006	0.00006	0.00005	0.00005	0.00005	0.00005	0.00003	0.00003	0.00003	0.00003	0.00004	0.00004																			
Block 2 Construction																																
Total (metric tons/month)				0.00114	0.00268	0.00268	0.00208	0.00247	0.00203	0.00202	0.00202	0.00202	0.00222	0.00202	0.00202	0.00241	0.00222	0.00176	0.00176	0.00176	0.00176	0.00136	0.00115	0.00106	0.00106	0.00106	0.00106	0.00106	0.00066	0.00103	0.00103	
Total (metric tons/day)				0.00005	0.00012	0.00012	0.00009	0.00011	0.00009	0.00009	0.00009	0.00009	0.00010	0.00009	0.00009	0.00010	0.00010	0.00008	0.00008	0.00008	0.00008	0.00006	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00003	0.00004	0.00004	
Units 1 & 2 Demolition																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Bldgs. 33 & 34 Construction																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Total Onsite N_2O Emissions (Construction Equipment and Vehicles)																																
Metric Tons per Month	0.00176	0.00137	0.00137	0.00229	0.00374	0.00374	0.00314	0.00314	0.00269	0.00261	0.00261	0.00297	0.00317	0.00202	0.00202	0.00241	0.00222	0.00176	0.00176	0.00176	0.00176	0.00136	0.00115	0.00106	0.00106	0.00106	0.00106	0.00106	0.00066	0.00103	0.00103	0.00000
Metric Tons per Day	0.00008	0.00006	0.00006	0.00010	0.00016	0.00016	0.00014	0.00014	0.00012	0.00011	0.00011	0.00013	0.00014	0.00009	0.00009	0.00010	0.00010	0.00008	0.00008	0.00008	0.00008	0.00006	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00003	0.00004	0.00004	0.00000
Yearly Maximums	0.03141	0.03282	0.03347	0.03413	0.03425	0.03273	0.03075	0.02937	0.02799	0.02705	0.02581	0.02435	0.02244	0.02033	0.01937	0.01841	0.01705	0.01550	0.01477	0.01405	0.01229	0.01053	0.00916	0.00991	0.01074	0.01194	0.01314	0.01461	0.01607	0.01773	0.01903	0.02032
Maximum Metric Tons per Day																																
Maximum Metric Tons per Hour [a]																																
Maximum Metric Tons per Month																																
Month with Maximum																																
Maximum Metric Tons per Year																																
Maximum Average Metric Tons per Hour [b]																																
Year with Maximum																																

Onsite CH_4 Emissions

	CH_4 Emissions by Month																															
Construction Step	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
Peaker and Tank Area and Stack 3&4 Demolition																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Block 1 Construction																																
Total (metric tons/month)	0.00393	0.00304	0.00304	0.00256	0.00236	0.00236	0.00236	0.00148	0.00148	0.00131	0.00131	0.00213	0.00213																			
Total (metric tons/day)	0.00017	0.00013	0.00013	0.00011	0.00010	0.00010	0.00010	0.00006	0.00006	0.00006	0.00006	0.00009	0.00009																			
Block 2 Construction																																
Total (metric tons/month)				0.00254	0.00598	0.00598	0.00464	0.00552	0.00452	0.00450	0.00450	0.00450	0.00494	0.00450	0.00450	0.00538	0.00494	0.00392	0.00392	0.00392	0.00392	0.00304	0.00256	0.00236	0.00236	0.00236	0.00236	0.00236	0.00148	0.00230	0.00230	
Total (metric tons/day)				0.00011	0.00026	0.00026	0.00020	0.00024	0.00020	0.00020	0.00020	0.00020	0.00021	0.00020	0.00020	0.00023	0.00021	0.00017	0.00017	0.00017	0.00017	0.00013	0.00011	0.00010	0.00010	0.00010	0.00010	0.00010	0.00006	0.00010	0.00010	
Units 1 & 2 Demolition																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Bldgs. 33 & 34 Construction																																
Total (metric tons/month)																																
Total (metric tons/day)																																
Total Onsite CH_4 Emissions (Construction Equipment and Vehicles)																																
Metric Tons per Month	0.00393	0.00304	0.00304	0.00510	0.00834	0.00834	0.00700	0.00700	0.00600	0.00581	0.00581	0.00663	0.00707	0.00450	0.00450	0.00538	0.00494	0.00392	0.00392	0.00392	0.00392	0.00304	0.00256	0.00236	0.00236	0.00236	0.00236	0.00236	0.00148	0.00230	0.00230	0.00000
Metric Tons per Day	0.00017	0.00013	0.00013	0.00022	0.00036	0.00036	0.00030	0.00030	0.00026	0.00025	0.00025	0.00029	0.00031	0.00020	0.00020	0.00023	0.00021	0.00017	0.00017	0.00017	0.00017	0.00013	0.00011	0.00010	0.00010	0.00010	0.00010	0.00010	0.00006	0.00010	0.00010	0.00000
Yearly Maximums	0.07006	0.07320	0.07466	0.07612	0.07640	0.07300	0.06859	0.06551	0.06243	0.06035	0.05758	0.05433	0.05006	0.04535	0.04321	0.04106	0.03804	0.03458	0.03295	0.03133	0.02741	0.02348	0.02044	0.02210	0.02395	0.02663	0.02932	0.03258	0.03585	0.03955	0.04244	0.04533
Maximum Metric Tons per Day																																
Maximum Metric Tons per Hour [a]																																
Maximum Metric Tons per Month																																
Month with Maximum																																
Maximum Metric Tons per Year																																
Maximum Average Metric Tons per Hour [b]																																
Year with Maximum																																

Notes:
[a] The hours per day are per 'Manpower Schedule Huntington Be
[b] The hours per year are assumed to allow operation 24 hours per

Table 5.1A.46R Onsite Construction
Exhaust and Fugitive Emissions Summary

Onsite CO Emissions

Construction Step	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 1 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 2 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Units 1 & 2 Demolition																										
Total (lbs/month)			652.25	652.25	839.00	839.00	968.63	968.63	932.20	932.20	932.20	932.20	932.20	932.20	932.20	932.20	932.20	932.20	1,018.89	1,018.89	1,018.89	1,018.89	1,018.89	1,018.89	1,018.89	1,018.89
Total (lbs/day)			28.36	28.36	36.48	36.48	42.11	42.11	40.53	40.53	40.53	40.53	40.53	40.53	40.53	40.53	40.53	40.53	44.30	44.30	44.30	44.30	44.30	44.30	44.30	44.30
Bldgs. 33 & 34 Construction																										
Total (lbs/month)													106.76	421.56	421.56	457.49	401.39	401.39	86.95	86.95	86.95	86.95	86.95	86.95	86.95	86.95
Total (lbs/day)													4.64	18.33	18.33	19.89	17.45	17.45	3.78	3.78	3.78	3.78	3.78	3.78	3.78	3.78
Total Onsite CO Emissions (Construction Equipment and Vehicles)																										
Pounds per Month	0.00	0.00	652.25	652.25	839.00	839.00	968.63	968.63	932.20	932.20	932.20	932.20	1,038.95	1,353.76	1,353.76	1,389.69	1,333.59	1,333.59	1,105.84	1,105.84	1,105.84	1,105.84	1,105.84	1,105.84	1,105.84	1,105.84
Pounds per Day	0.00	0.00	28.36	28.36	36.48	36.48	42.11	42.11	40.53	40.53	40.53	40.53	45.17	58.86	58.86	60.42	57.98	57.98	48.08	48.08	48.08	48.08	48.08	48.08	48.08	48.08
Yearly Maximums	8,649	9,688	11,041	11,743	12,480	12,975	13,469	13,607	13,744	13,917	14,091	14,265	14,438	14,505	14,257											
Maximum Pounds per Day																										
Maximum Pounds per Hour [a]																										
Maximum Pounds per Month																										
Month with Maximum																										
Maximum Pounds per Year																										
Maximum Average Pounds per Hour [b]																										
Year with Maximum																										
Tons per Year																										

Onsite VOC Emissions

Construction Step	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 1 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 2 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Units 1 & 2 Demolition																										
Total (lbs/month)			104.30	104.30	123.73	123.73	137.43	137.43	126.93	126.93	126.93	126.93	126.93	126.93	126.93	126.93	126.93	126.93	144.53	144.53	144.53	144.53	144.53	144.53	144.53	144.53
Total (lbs/day)			4.53	4.53	5.38	5.38	5.98	5.98	5.52	5.52	5.52	5.52	5.52	5.52	5.52	5.52	5.52	5.52	6.28	6.28	6.28	6.28	6.28	6.28	6.28	6.28
Bldgs. 33 & 34 Construction																										
Total (lbs/month)													13.69	55.46	55.46	65.39	58.48	58.48	16.91	16.91	16.91	16.91	16.91	16.91	16.91	16.91
Total (lbs/day)													0.60	2.41	2.41	2.84	2.54	2.54	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Total Onsite VOC Emissions (Construction Equipment and Vehicles)																										
Pounds per Month	0.00	0.00	104.30	104.30	123.73	123.73	137.43	137.43	126.93	126.93	126.93	126.93	140.62	182.39	182.39	192.32	185.41	185.41	161.43	161.43	161.43	161.43	161.43	161.43	161.43	161.43
Pounds per Day	0.00	0.00	4.53	4.53	5.38	5.38	5.98	5.98	5.52	5.52	5.52	5.52	6.11	7.93	7.93	8.36	8.06	8.06	7.02	7.02	7.02	7.02	7.02	7.02	7.02	7.02
Yearly Maximums	1,239	1,379	1,562	1,640	1,728	1,789	1,851	1,875	1,899	1,934	1,968	2,003	2,037	2,058	2,037											
Maximum Pounds per Day																										
Maximum Pounds per Hour [a]																										
Maximum Pounds per Month																										
Month with Maximum																										
Maximum Pounds per Year																										
Maximum Average Pounds per Hour [b]																										
Year with Maximum																										
Tons per Year																										

Onsite NOx Emissions

Construction Step	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 1 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 2 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Units 1 & 2 Demolition																										
Total (lbs/month)			638.75	638.75	744.56	658.30	724.25	724.25	658.49	658.49	658.49	658.49	658.49	658.49	658.49	658.49	658.49	582.51	679.22	679.22	679.22	679.22	679.22	679.22	679.22	679.22
Total (lbs/day)			27.77	27.77	32.37	28.62	31.49	31.49	28.63	28.63	28.63	28.63	28.63	28.63	28.63	28.63	28.63	25.33	29.53	29.53	29.53	29.53	29.53	29.53	29.53	29.53
Bldgs. 33 & 34 Construction																										
Total (lbs/month)													89.32	343.70	343.70	409.47	362.08	330.56	97.79	97.79	97.79	97.79	97.79	97.79	97.79	97.79
Total (lbs/day)													3.88	14.94	14.94	17.80	15.74	14.37	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25
Total Onsite NOx Emissions (Construction Equipment and Vehicles)																										
Pounds per Month	0.00	0.00	638.75	638.75	744.56	658.30	724.25	724.25	658.49	658.49	658.49	658.49	747.81	1,002.19	1,002.19	1,067.96	1,020.56	913.07	777.01	777.01	777.01	777.01	777.01	777.01	777.01	777.01
Pounds per Day	0.00	0.00	27.77	27.77	32.37	28.62	31.49	31.49	28.63	28.63	28.63	28.63	32.51	43.57	43.57	46.43	44.37	39.70	33.78	33.78	33.78	33.78	33.78	33.78	33.78	33.78
Yearly Maximums	6,763	7,511	8,513	8,876	9,305	9,581	9,836	9,889	9,942	10,060	10,179	10,297	10,416	10,445	10,220											
Maximum Pounds per Day																										
Maximum Pounds per Hour [a]																										
Maximum Pounds per Month																										
Month with Maximum																										
Maximum Pounds per Year																										
Maximum Average Pounds per Hour [b]																										
Year with Maximum																										
Tons per Year																										

Table 5.1A.46R Onsite Construction
Exhaust and Fugitive Emissions Summary

Onsite SOx Emissions

Construction Step	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 1 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 2 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Units 1 & 2 Demolition																										
Total (lbs/month)			1.64	1.64	1.97	1.97	2.20	2.20	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.03	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28
Total (lbs/day)			0.07	0.07	0.09	0.09	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Bldgs. 33 & 34 Construction																										
Total (lbs/month)													0.17	0.70	0.70	0.88	0.78	0.78	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
Total (lbs/day)													0.01	0.03	0.03	0.04	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total Onsite SOx Emissions (Construction Equipment and Vehicles)																										
Pounds per Month	**0.00**	**0.00**	**1.64**	**1.64**	**1.97**	**1.97**	**2.20**	**2.20**	**2.03**	**2.03**	**2.03**	**2.03**	**2.20**	**2.73**	**2.73**	**2.90**	**2.81**	**2.81**	**2.54**	**2.54**	**2.54**	**2.54**	**2.54**	**2.54**	**2.54**	**2.54**
Pounds per Day	**0.00**	**0.00**	**0.07**	**0.07**	**0.09**	**0.09**	**0.10**	**0.10**	**0.09**	**0.09**	**0.09**	**0.09**	**0.10**	**0.12**	**0.12**	**0.13**	**0.12**	**0.12**	**0.11**	**0.11**	**0.11**	**0.11**	**0.11**	**0.11**	**0.11**	**0.11**
Yearly Maximums	**20**	**22**	**25**	**26**	**27**	**28**	**29**	**29**	**29**	**30**	**30**	**31**	**31**	**32**	**32**											
Maximum Pounds per Day																										
Maximum Pounds per Hour [a]																										
Maximum Pounds per Month																										
Month with Maximum																										
Maximum Pounds per Year																										
Maximum Average Pounds per Hour [b]																										
Year with Maximum																										
Tons per Year																										

Onsite Exhaust PM_{10} Emissions

Construction Step	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 1 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 2 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Units 1 & 2 Demolition																										
Total (lbs/month)			29.66	29.66	34.92	30.19	33.47	33.47	31.20	31.20	31.20	31.20	31.20	31.20	31.20	31.20	31.20	26.80	31.04	31.04	31.04	31.04	31.04	31.04	31.04	31.04
Total (lbs/day)			1.29	1.29	1.52	1.31	1.46	1.46	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.17	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
Bldgs. 33 & 34 Construction																										
Total (lbs/month)													5.54	21.24	21.24	23.51	20.60	18.15	4.30	4.30	4.30	4.30	4.30	4.30	4.30	4.30
Total (lbs/day)													0.24	0.92	0.92	1.02	0.90	0.79	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Total Onsite Exhaust PM_{10} Emissions (Construction Equipment and Vehicles)																										
Pounds per Month	**0.00**	**0.00**	**29.66**	**29.66**	**34.92**	**30.19**	**33.47**	**33.47**	**31.20**	**31.20**	**31.20**	**31.20**	**36.73**	**52.44**	**52.44**	**54.71**	**51.80**	**44.94**	**35.34**	**35.34**	**35.34**	**35.34**	**35.34**	**35.34**	**35.34**	**35.34**
Pounds per Day	**0.00**	**0.00**	**1.29**	**1.29**	**1.52**	**1.31**	**1.46**	**1.46**	**1.36**	**1.36**	**1.36**	**1.36**	**1.60**	**2.28**	**2.28**	**2.38**	**2.25**	**1.95**	**1.54**	**1.54**	**1.54**	**1.54**	**1.54**	**1.54**	**1.54**	**1.54**
Yearly Maximums	**316**	**353**	**405**	**428**	**453**	**470**	**485**	**487**	**489**	**493**	**497**	**501**	**505**	**504**	**487**											
Maximum Pounds per Day																										
Maximum Pounds per Hour [a]																										
Maximum Pounds per Month																										
Month with Maximum																										
Maximum Pounds per Year																										
Maximum Average Pounds per Hour [b]																										
Year with Maximum																										
Tons per Year																										

Onsite Fugitive PM_{10} Emissions

Construction Step	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 1 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 2 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Units 1 & 2 Demolition																										
Total (lbs/month)			378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77
Total (lbs/day)			16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47
Bldgs. 33 & 34 Construction																										
Total (lbs/month)													217.90	895.56	895.56	895.56	841.08	841.08	217.90	217.90	217.90	217.90	217.90	217.90	217.90	217.90
Total (lbs/day)													9.47	38.94	38.94	38.94	36.57	36.57	9.47	9.47	9.47	9.47	9.47	9.47	9.47	9.47
Total Onsite Fugitive PM_{10} Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																										
Pounds per Month	**0.00**	**0.00**	**378.77**	**378.77**	**378.77**	**378.77**	**378.77**	**378.77**	**378.77**	**378.77**	**378.77**	**378.77**	**596.67**	**1,274.33**	**1,274.33**	**1,274.33**	**1,219.85**	**1,219.85**	**596.67**	**596.67**	**596.67**	**596.67**	**596.67**	**596.67**	**596.67**	**596.67**
Pounds per Day	**0.00**	**0.00**	**16.47**	**16.47**	**16.47**	**16.47**	**16.47**	**16.47**	**16.47**	**16.47**	**16.47**	**16.47**	**25.94**	**55.41**	**55.41**	**55.41**	**53.04**	**53.04**	**25.94**	**25.94**	**25.94**	**25.94**	**25.94**	**25.94**	**25.94**	**25.94**
Yearly Maximums	**3,788**	**4,384**	**5,659**	**6,554**	**7,450**	**8,291**	**9,132**	**9,350**	**9,568**	**9,786**	**10,004**	**10,221**	**10,439**	**10,439**	**9,762**											
Maximum Pounds per Day																										
Maximum Pounds per Hour [a]																										
Maximum Pounds per Month																										
Month with Maximum																										
Maximum Pounds per Year																										
Maximum Average Pounds per Hour [b]																										
Year with Maximum																										
Tons per Year																										

Table 5.1A.46R Onsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite PM_{10} Emissions (Exhaust and Fugitive)

Parameter	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Pounds per Month	0.00	0.00	408.43	408.43	413.69	408.96	412.24	412.24	409.97	409.97	409.97	409.97	633.40	1,326.76	1,326.76	1,329.03	1,271.65	1,264.80	632.01	632.01	632.01	632.01	632.01	632.01	632.01	632.01
Pounds per Day	0.00	0.00	17.76	17.76	17.99	17.78	17.92	17.92	17.82	17.82	17.82	17.82	27.54	57.69	57.69	57.78	55.29	54.99	27.48	27.48	27.48	27.48	27.48	27.48	27.48	27.48
Yearly Maximums	4,104	4,737	6,064	6,982	7,903	8,761	9,617	9,837	10,056	10,278	10,500	10,722	10,944	10,943	10,248											
Maximum Pounds per Day																										
Maximum Pounds per Hour [a]																										
Maximum Pounds per Month																										
Month with Maximum																										
Maximum Pounds per Year																										
Maximum Average Pounds per Hour [b]																										
Year with Maximum																										
Tons per Year																										

Onsite Exhaust $PM_{2.5}$ Emissions

Construction Step	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 1 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 2 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Units 1 & 2 Demolition																										
Total (lbs/month)			29.65	29.65	34.91	30.17	33.45	33.45	31.18	31.18	31.18	31.18	31.18	31.18	31.18	31.18	31.18	26.78	31.03	31.03	31.03	31.03	31.03	31.03	31.03	31.03
Total (lbs/day)			1.29	1.29	1.52	1.31	1.45	1.45	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.16	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
Bldgs. 33 & 34 Construction																										
Total (lbs/month)													5.53	21.23	21.23	23.50	20.60	18.14	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29
Total (lbs/day)													0.24	0.92	0.92	1.02	0.90	0.79	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
Total Onsite Exhaust $PM_{2.5}$ Emissions (Construction Equipment and Vehicles)																										
Pounds per Month	0.00	0.00	29.65	29.65	34.91	30.17	33.45	33.45	31.18	31.18	31.18	31.18	36.71	52.41	52.41	54.68	51.78	44.92	35.31	35.31	35.31	35.31	35.31	35.31	35.31	35.31
Pounds per Day	0.00	0.00	1.29	1.29	1.52	1.31	1.45	1.45	1.36	1.36	1.36	1.36	1.60	2.28	2.28	2.38	2.25	1.95	1.54	1.54	1.54	1.54	1.54	1.54	1.54	1.54
Yearly Maximums	316	353	405	428	453	470	485	486	488	492	497	501	505	503	486											
Maximum Pounds per Day																										
Maximum Pounds per Hour [a]																										
Maximum Pounds per Month																										
Month with Maximum																										
Maximum Pounds per Year																										
Maximum Average Pounds per Hour [b]																										
Year with Maximum																										
Tons per Year																										

Onsite Fugitive $PM_{2.5}$ Emissions

Construction Step	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 1 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Block 2 Construction																										
Total (lbs/month)																										
Total (lbs/day)																										
Units 1 & 2 Demolition																										
Total (lbs/month)			51.05	51.05	51.05	51.05	51.05	51.05	51.05	51.05	51.05	51.05	51.05	51.05	51.05	51.05	51.05	51.05	51.05	51.05	51.05	51.05	51.05	51.05	51.05	51.05
Total (lbs/day)			2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22
Bldgs. 33 & 34 Construction																										
Total (lbs/month)													21.79	178.13	178.13	178.13	172.68	172.68	21.79	21.79	21.79	21.79	21.79	21.79	21.79	21.79
Total (lbs/day)													0.95	7.74	7.74	7.74	7.51	7.51	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Total Onsite Fugitive $PM_{2.5}$ Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																										
Pounds per Month	0.00	0.00	51.05	51.05	51.05	51.05	51.05	51.05	51.05	51.05	51.05	51.05	72.84	229.18	229.18	229.18	223.73	223.73	72.84	72.84	72.84	72.84	72.84	72.84	72.84	72.84
Pounds per Day	0.00	0.00	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	3.17	9.96	9.96	9.96	9.73	9.73	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17
Yearly Maximums	511	583	813	991	1,169	1,341	1,514	1,536	1,558	1,580	1,601	1,623	1,645	1,645	1,489											
Maximum Pounds per Day																										
Maximum Pounds per Hour [a]																										
Maximum Pounds per Month																										
Month with Maximum																										
Maximum Pounds per Year																										
Maximum Average Pounds per Hour [b]																										
Year with Maximum																										
Tons per Year																										

Table 5.1A.46R Onsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

Parameter	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Pounds per Month	0.00	0.00	80.70	80.70	85.96	81.23	84.51	84.51	82.24	82.24	82.24	82.24	109.55	281.59	281.59	283.86	275.51	268.65	108.16	108.16	108.16	108.16	108.16	108.16	108.16	108.16
Pounds per Day	0.00	0.00	3.51	3.51	3.74	3.53	3.67	3.67	3.58	3.58	3.58	3.58	4.76	12.24	12.24	12.34	11.98	11.68	4.70	4.70	4.70	4.70	4.70	4.70	4.70	4.70
Yearly Maximums	827	936	1,218	1,419	1,622	1,811	1,999	2,022	2,046	2,072	2,098	2,124	2,150	2,148	1,975											
Maximum Pounds per Day																										
Maximum Pounds per Hour [a]																										
Maximum Pounds per Month																										
Month with Maximum																										
Maximum Pounds per Year																										
Maximum Average Pounds per Hour [b]																										
Year with Maximum																										
Tons per Year																										

Onsite CO_2 Emissions

Construction Step	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																										
Total (metric tons/month)																										
Total (metric tons/day)																										
Block 1 Construction																										
Total (metric tons/month)																										
Total (metric tons/day)																										
Block 2 Construction																										
Total (metric tons/month)																										
Total (metric tons/day)																										
Units 1 & 2 Demolition																										
Total (metric tons/month)			74.46	74.46	89.15	89.15	99.35	99.35	91.59	91.59	91.59	91.59	91.59	91.59	91.59	91.59	91.59	91.59	102.82	102.82	102.82	102.82	102.82	102.82	102.82	102.82
Total (metric tons/day)			3.24	3.24	3.88	3.88	4.32	4.32	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	3.98	4.47	4.47	4.47	4.47	4.47	4.47	4.47	4.47
Bldgs. 33 & 34 Construction																										
Total (metric tons/month)													7.73	30.91	30.91	38.64	34.53	34.53	11.45	11.45	11.45	11.45	11.45	11.45	11.45	11.45
Total (metric tons/day)													0.34	1.34	1.34	1.68	1.50	1.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
Total Onsite CO_2 Emissions (Construction Equipment and Vehicles)																										
Metric Tons per Month	0.00	0.00	74.46	74.46	89.15	89.15	99.35	99.35	91.59	91.59	91.59	91.59	99.32	122.50	122.50	130.24	126.13	126.13	114.27	114.27	114.27	114.27	114.27	114.27	114.27	114.27
Metric Tons per Day	0.00	0.00	3.24	3.24	3.88	3.88	4.32	4.32	3.98	3.98	3.98	3.98	4.32	5.33	5.33	5.66	5.48	5.48	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97
Yearly Maximums	892	992	1,114	1,162	1,218	1,255	1,292	1,307	1,322	1,344	1,367	1,390	1,412	1,427	1,419											
Maximum Metric Tons per Day																										
Maximum Metric Tons per Hour [a]																										
Maximum Metric Tons per Month																										
Month with Maximum																										
Maximum Metric Tons per Year																										
Maximum Average Metric Tons per Hour [b]																										
Year with Maximum																										

Onsite N_2O Emissions

Construction Step	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																										
Total (metric tons/month)																										
Total (metric tons/day)																										
Block 1 Construction																										
Total (metric tons/month)																										
Total (metric tons/day)																										
Block 2 Construction																										
Total (metric tons/month)																										
Total (metric tons/day)																										
Units 1 & 2 Demolition																										
Total (metric tons/month)			0.00189	0.00189	0.00226	0.00226	0.00252	0.00252	0.00232	0.00232	0.00232	0.00232	0.00232	0.00232	0.00232	0.00232	0.00232	0.00232	0.00261	0.00261	0.00261	0.00261	0.00261	0.00261	0.00261	0.00261
Total (metric tons/day)			0.00008	0.00008	0.00010	0.00010	0.00011	0.00011	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00010	0.00011	0.00011	0.00011	0.00011	0.00011	0.00011	0.00011	0.00011
Bldgs. 33 & 34 Construction																										
Total (metric tons/month)													0.00019	0.00078	0.00078	0.00098	0.00087	0.00087	0.00029	0.00029	0.00029	0.00029	0.00029	0.00029	0.00029	0.00029
Total (metric tons/day)													0.00001	0.00003	0.00003	0.00004	0.00004	0.00004	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
Total Onsite N_2O Emissions (Construction Equipment and Vehicles)																										
Metric Tons per Month	0.00000	0.00000	0.00189	0.00189	0.00226	0.00226	0.00252	0.00252	0.00232	0.00232	0.00232	0.00232	0.00252	0.00310	0.00310	0.00330	0.00320	0.00320	0.00290	0.00290	0.00290	0.00290	0.00290	0.00290	0.00290	0.00290
Metric Tons per Day	0.00000	0.00000	0.00008	0.00008	0.00010	0.00010	0.00011	0.00011	0.00010	0.00010	0.00010	0.00010	0.00011	0.00013	0.00013	0.00014	0.00014	0.00014	0.00013	0.00013	0.00013	0.00013	0.00013	0.00013	0.00013	0.00013
Yearly Maximums	0.02265	0.02516	0.02827	0.02948	0.03090	0.03183	0.03277	0.03314	0.03352	0.03409	0.03466	0.03523	0.03581	0.03619	0.03598											
Maximum Metric Tons per Day																										
Maximum Metric Tons per Hour [a]																										
Maximum Metric Tons per Month																										
Month with Maximum																										
Maximum Metric Tons per Year																										
Maximum Average Metric Tons per Hour [b]																										
Year with Maximum																										

Onsite CH_4 Emissions

Construction Step	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																										
Total (metric tons/month)																										
Total (metric tons/day)																										
Block 1 Construction																										
Total (metric tons/month)																										
Total (metric tons/day)																										
Block 2 Construction																										
Total (metric tons/month)																										
Total (metric tons/day)																										
Units 1 & 2 Demolition																										
Total (metric tons/month)			0.00421	0.00421	0.00505	0.00505	0.00563	0.00563	0.00519	0.00519	0.00519	0.00519	0.00519	0.00519	0.00519	0.00519	0.00519	0.00519	0.00582	0.00582	0.00582	0.00582	0.00582	0.00582	0.00582	0.00582
Total (metric tons/day)			0.00018	0.00018	0.00022	0.00022	0.00024	0.00024	0.00023	0.00023	0.00023	0.00023	0.00023	0.00023	0.00023	0.00023	0.00023	0.00023	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025
Bldgs. 33 & 34 Construction																										
Total (metric tons/month)													0.00043	0.00174	0.00174	0.00218	0.00195	0.00195	0.00064	0.00064	0.00064	0.00064	0.00064	0.00064	0.00064	0.00064
Total (metric tons/day)													0.00002	0.00008	0.00008	0.00009	0.00008	0.00008	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003
Total Onsite CH_4 Emissions (Construction Equipment and Vehicles)																										
Metric Tons per Month	0.00000	0.00000	0.00421	0.00421	0.00505	0.00505	0.00563	0.00563	0.00519	0.00519	0.00519	0.00519	0.00561	0.00692	0.00692	0.00736	0.00714	0.00714	0.00646	0.00646	0.00646	0.00646	0.00646	0.00646	0.00646	0.00646
Metric Tons per Day	0.00000	0.00000	0.00018	0.00018	0.00022	0.00022	0.00024	0.00024	0.00023	0.00023	0.00023	0.00023	0.00024	0.00030	0.00030	0.00032	0.00031	0.00031	0.00028	0.00028	0.00028	0.00028	0.00028	0.00028	0.00028	0.00028
Yearly Maximums	0.05052	0.05613	0.06305	0.06576	0.06892	0.07100	0.07309	0.07393	0.07476	0.07604	0.07731	0.07859	0.07987	0.08072	0.08025											
Maximum Metric Tons per Day																										
Maximum Metric Tons per Hour [a]																										
Maximum Metric Tons per Month																										
Month with Maximum																										
Maximum Metric Tons per Year																										
Maximum Average Metric Tons per Hour [b]																										
Year with Maximum																										

Notes:
[a] The hours per day are per 'Manpower Schedule Huntington Be
[b] The hours per year are assumed to allow operation 24 hours per

Table 5.1A.47R Offsite Construction
Exhaust and Fugitive Emissions
Summary

Offsite CO Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Peaker and Tank Area and Stack 3&4 Demolition																																						
Total (lbs/month)	0.94	18.82	22.21	42.82	67.17	74.41	104.74	111.23	119.71	117.72	110.66	76.48	69.99	40.34	30.17																							
Total (lbs/day)	0.04	0.82	0.97	1.86	2.92	3.24	4.55	4.84	5.20	5.12	4.81	3.33	3.04	1.75	1.31																							
Block 1 Construction																																						
Total (lbs/month)																5.08	62.73	71.08	84.90	117.30	123.58	131.69	138.95	164.22	183.08	217.47	215.31	246.99	253.04	261.99	267.54	303.91	320.33	321.77	343.77	346.06	364.91	342.59
Total (lbs/day)																0.22	2.73	3.09	3.69	5.10	5.37	5.73	6.04	7.14	7.96	9.46	9.36	10.74	11.00	11.39	11.63	13.21	13.93	13.99	14.95	15.05	15.87	14.90
Block 2 Construction																																						
Total (lbs/month)																																				51.40	67.56	95.52
Total (lbs/day)																																				2.23	2.94	4.15
Units 1 & 2 Demolition																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Bldgs. 33 & 34 Construction																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Total Offsite CO Emissions (Construction Vehicles)																																						
Pounds per Month	**0.94**	**18.82**	**22.21**	**42.82**	**67.17**	**74.41**	**104.74**	**111.23**	**119.71**	**117.72**	**110.66**	**76.48**	**69.99**	**40.34**	**30.17**	**5.08**	**62.73**	**71.08**	**84.90**	**117.30**	**123.58**	**131.69**	**138.95**	**164.22**	**183.08**	**217.47**	**215.31**	**246.99**	**253.04**	**261.99**	**267.54**	**303.91**	**320.33**	**321.77**	**343.77**	**397.46**	**432.47**	**438.12**
Pounds per Day	**0.04**	**0.82**	**0.97**	**1.86**	**2.92**	**3.24**	**4.55**	**4.84**	**5.20**	**5.12**	**4.81**	**3.33**	**3.04**	**1.75**	**1.31**	**0.22**	**2.73**	**3.09**	**3.69**	**5.10**	**5.37**	**5.73**	**6.04**	**7.14**	**7.96**	**9.46**	**9.36**	**10.74**	**11.00**	**11.39**	**11.63**	**13.21**	**13.93**	**13.99**	**14.95**	**17.28**	**18.80**	**19.05**
Yearly Maximums	**867**	**936**	**957**	**965**	**928**	**923**	**920**	**900**	**906**	**910**	**924**	**952**	**1,040**	**1,153**	**1,330**	**1,515**	**1,757**	**1,948**	**2,139**	**2,321**	**2,508**	**2,705**	**2,895**	**3,099**	**3,333**	**3,582**	**3,803**	**4,074**	**4,341**	**4,633**	**4,916**	**5,212**	**5,435**	**5,656**	**5,587**	**5,532**	**5,496**	**5,427**

Maximum Pounds per Day	**24.49**
Maximum Pounds per Hour [a]	**2.45**
Maximum Pounds per Month	**563.18**
Month with Maximum	**43**
Maximum Pounds per Year	**5,656**
Maximum Average Pounds per Hour [b]	**0.65**
Year with Maximum	**Months 34-45**
Tons per Year	**2.83**

Offsite VOC Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Peaker and Tank Area and Stack 3&4 Demolition																																						
Total (lbs/month)	0.16	0.68	0.75	1.00	3.12	3.35	7.01	7.35	7.53	7.70	7.76	7.24	6.89	2.34	2.13																							
Total (lbs/day)	0.01	0.03	0.03	0.04	0.14	0.15	0.30	0.32	0.33	0.33	0.34	0.31	0.30	0.10	0.09																							
Block 1 Construction																																						
Total (lbs/month)																0.39	1.70	2.40	2.91	4.63	4.76	5.19	6.41	7.64	8.01	9.85	10.89	12.96	13.52	13.62	13.62	13.91	12.94	12.25	12.69	12.37	12.75	9.41
Total (lbs/day)																0.02	0.07	0.10	0.13	0.20	0.21	0.23	0.28	0.33	0.35	0.43	0.47	0.56	0.59	0.59	0.59	0.60	0.56	0.53	0.55	0.54	0.55	0.41
Block 2 Construction																																						
Total (lbs/month)																																				1.12	1.39	2.07
Total (lbs/day)																																				0.05	0.06	0.09
Units 1 & 2 Demolition																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Bldgs. 33 & 34 Construction																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Total Offsite VOC Emissions (Construction Vehicles)																																						
Pounds per Month	**0.16**	**0.68**	**0.75**	**1.00**	**3.12**	**3.35**	**7.01**	**7.35**	**7.53**	**7.70**	**7.76**	**7.24**	**6.89**	**2.34**	**2.13**	**0.39**	**1.70**	**2.40**	**2.91**	**4.63**	**4.76**	**5.19**	**6.41**	**7.64**	**8.01**	**9.85**	**10.89**	**12.96**	**13.52**	**13.62**	**13.62**	**13.91**	**12.94**	**12.25**	**12.69**	**13.49**	**14.14**	**11.47**
Pounds per Day	**0.01**	**0.03**	**0.03**	**0.04**	**0.14**	**0.15**	**0.30**	**0.32**	**0.33**	**0.33**	**0.34**	**0.31**	**0.30**	**0.10**	**0.09**	**0.02**	**0.07**	**0.10**	**0.13**	**0.20**	**0.21**	**0.23**	**0.28**	**0.33**	**0.35**	**0.43**	**0.47**	**0.56**	**0.59**	**0.59**	**0.59**	**0.60**	**0.56**	**0.53**	**0.55**	**0.59**	**0.61**	**0.50**
Yearly Maximums	**54**	**60**	**62**	**63**	**63**	**61**	**60**	**56**	**54**	**51**	**48**	**47**	**47**	**49**	**56**	**65**	**77**	**89**	**100**	**111**	**120**	**129**	**136**	**142**	**148**	**154**	**156**	**159**	**161**	**164**	**167**	**168**	**169**	**172**	**173**	**173**	**173**	**173**

Maximum Pounds per Day	**0.73**
Maximum Pounds per Hour [a]	**0.07**
Maximum Pounds per Month	**16.70**
Month with Maximum	**42**
Maximum Pounds per Year	**176**
Maximum Average Pounds per Hour [b]	**0.02**
Year with Maximum	**Months 39-50**
Tons per Year	**0.09**

Offsite NOx Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Peaker and Tank Area and Stack 3&4 Demolition																																						
Total (lbs/month)	2.92	7.47	7.79	5.48	40.35	42.46	106.18	111.05	111.87	102.74	105.87	106.60	102.28	29.72	28.83																							
Total (lbs/day)	0.13	0.32	0.34	0.24	1.75	1.85	4.62	4.83	4.86	4.47	4.60	4.63	4.45	1.29	1.25																							
Block 1 Construction																																						
Total (lbs/month)																6.04	14.64	25.85	30.72	54.63	55.23	54.68	73.83	88.36	90.00	112.55	130.87	158.31	166.24	165.78	164.41	160.16	139.37	114.04	115.78	110.45	111.94	66.61
Total (lbs/day)																0.26	0.64	1.12	1.34	2.38	2.40	2.38	3.21	3.84	3.91	4.89	5.69	6.88	7.23	7.21	7.15	6.96	6.06	4.96	5.03	4.80	4.87	2.90
Block 2 Construction																																						
Total (lbs/month)																																				8.88	10.37	15.74
Total (lbs/day)																																				0.39	0.45	0.68
Units 1 & 2 Demolition																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Bldgs. 33 & 34 Construction																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Total Offsite NOx Emissions (Construction Vehicles)																																						
Pounds per Month	**2.92**	**7.47**	**7.79**	**5.48**	**40.35**	**42.46**	**106.18**	**111.05**	**111.87**	**102.74**	**105.87**	**106.60**	**102.28**	**29.72**	**28.83**	**6.04**	**14.64**	**25.85**	**30.72**	**54.63**	**55.23**	**54.68**	**73.83**	**88.36**	**90.00**	**112.55**	**130.87**	**158.31**	**166.24**	**165.78**	**164.41**	**160.16**	**139.37**	**114.04**	**115.78**	**119.33**	**122.31**	**82.35**
Pounds per Day	**0.13**	**0.32**	**0.34**	**0.24**	**1.75**	**1.85**	**4.62**	**4.83**	**4.86**	**4.47**	**4.60**	**4.63**	**4.45**	**1.29**	**1.25**	**0.26**	**0.64**	**1.12**	**1.34**	**2.38**	**2.40**	**2.38**	**3.21**	**3.84**	**3.91**	**4.89**	**5.69**	**6.88**	**7.23**	**7.21**	**7.15**	**6.96**	**6.06**	**4.96**	**5.03**	**5.19**	**5.32**	**3.58**
Yearly Maximums	**751**	**850**	**872**	**893**	**894**	**868**	**852**	**776**	**720**	**663**	**615**	**583**	**565**	**553**	**635**	**737**	**890**	**1,041**	**1,181**	**1,315**	**1,420**	**1,505**	**1,564**	**1,606**	**1,637**	**1,669**	**1,639**	**1,633**	**1,605**	**1,585**	**1,570**	**1,514**	**1,482**	**1,501**	**1,538**	**1,566**	**1,598**	**1,631**

Maximum Pounds per Day	**7.23**
Maximum Pounds per Hour [a]	**0.72**
Maximum Pounds per Month	**166.24**
Month with Maximum	**29**
Maximum Pounds per Year	**1,708**
Maximum Average Pounds per Hour [b]	**0.19**
Year with Maximum	**Months 40-51**
Tons per Year	**0.85**

Table 5.1A.47R Offsite Construction
Exhaust and Fugitive Emissions
Summary

Offsite SOx Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Peaker and Tank Area and Stack 3&4 Demolition																																						
Total (lbs/month)	0.008	0.054	0.062	0.099	0.220	0.239	0.431	0.455	0.474	0.478	0.470	0.402	0.378	0.151	0.128																							
Total (lbs/day)	0.000	0.002	0.003	0.004	0.010	0.010	0.019	0.020	0.021	0.021	0.020	0.017	0.016	0.007	0.006																							
Block 1 Construction																																						
Total (lbs/month)																0.025	0.173	0.217	0.257	0.384	0.400	0.431	0.497	0.590	0.636	0.770	0.813	0.954	0.988	1.006	1.015	1.085	1.067	1.039	1.093	1.082	1.128	0.950
Total (lbs/day)																0.001	0.008	0.009	0.011	0.017	0.017	0.019	0.022	0.026	0.028	0.033	0.035	0.041	0.043	0.044	0.044	0.047	0.046	0.045	0.048	0.047	0.049	0.041
Block 2 Construction																																						
Total (lbs/month)																																				0.148	0.191	0.271
Total (lbs/day)																																				0.006	0.008	0.012
Units 1 & 2 Demolition																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Bldgs. 33 & 34 Construction																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Total Offsite SOx Emissions (Construction Vehicles)																																						
Pounds per Month	0.008	0.054	0.062	0.099	0.220	0.239	0.431	0.455	0.474	0.478	0.470	0.402	0.378	0.151	0.128	0.025	0.173	0.217	0.257	0.384	0.400	0.431	0.497	0.590	0.636	0.770	0.813	0.954	0.988	1.006	1.015	1.085	1.067	1.039	1.093	1.230	1.319	1.221
Pounds per Day	0.000	0.002	0.003	0.004	0.010	0.010	0.019	0.020	0.021	0.021	0.020	0.017	0.016	0.007	0.006	0.001	0.008	0.009	0.011	0.017	0.017	0.019	0.022	0.026	0.028	0.033	0.035	0.041	0.043	0.044	0.044	0.047	0.046	0.045	0.048	0.053	0.057	0.053
Yearly Maximums	3	4	4	4	4	4	4	4	4	3	3	3	4	4	5	5	6	7	8	8	9	10	10	11	12	12	13	13	14	15	15	16	16	17	17	17	17	17

Maximum Pounds per Day	0.07
Maximum Pounds per Hour [a]	0.01
Maximum Pounds per Month	1.69
Month with Maximum	45
Maximum Pounds per Year	17
Maximum Average Pounds per Hour [b]	0.002
Year with Maximum	Months 39 - 50
Tons per Year	0.01

Offsite Exhaust PM_{10} Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Peaker and Tank Area and Stack 3&4 Demolition																																						
Total (lbs/month)	0.28	4.21	4.94	9.23	15.39	16.99	25.23	26.75	28.57	27.91	26.49	19.24	17.74	9.40	7.21																							
Total (lbs/day)	0.01	0.18	0.21	0.40	0.67	0.74	1.10	1.16	1.24	1.21	1.15	0.84	0.77	0.41	0.31																							
Block 1 Construction																																						
Total (lbs/month)																1.33	14.80	17.03	20.28	28.39	29.84	31.72	33.92	40.13	44.51	53.02	53.03	61.07	62.68	64.72	65.96	74.21	77.41	77.08	82.19	82.57	86.95	80.64
Total (lbs/day)																0.03	0.60	0.65	0.78	1.03	1.09	1.16	1.16	1.36	1.56	1.82	1.73	1.95	1.98	2.08	2.14	2.54	2.79	2.86	3.08	3.13	3.32	3.28
Block 2 Construction																																						
Total (lbs/month)																																				14.04	18.42	26.02
Total (lbs/day)																																				0.61	0.80	1.13
Units 1 & 2 Demolition																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Bldgs. 33 & 34 Construction																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Total Offsite Exhaust PM_{10} Emissions (Construction Vehicles)																																						
Pounds per Month	0.28	4.21	4.94	9.23	15.39	16.99	25.23	26.75	28.57	27.91	26.49	19.24	17.74	9.40	7.21	1.33	14.80	17.03	20.28	28.39	29.84	31.72	33.92	40.13	44.51	53.02	53.03	61.07	62.68	64.72	65.96	74.21	77.41	77.08	82.19	96.61	105.37	106.66
Pounds per Day	0.01	0.18	0.21	0.40	0.67	0.74	1.10	1.16	1.24	1.21	1.15	0.84	0.77	0.41	0.31	0.03	0.60	0.65	0.78	1.03	1.09	1.16	1.16	1.36	1.56	1.82	1.73	1.95	1.98	2.08	2.14	2.54	2.79	2.86	3.08	3.74	4.12	4.42
Yearly Maximums	205	223	228	230	222	222	222	217	218	220	223	231	252	279	322	368	428	476	523	569	615	662	708	756	813	873	927	994	1,061	1,134	1,205	1,279	1,338	1,398	1,392	1,391	1,395	1,391

Maximum Pounds per Day	6.05
Maximum Pounds per Hour [a]	0.61
Maximum Pounds per Month	140.01
Month with Maximum	43
Maximum Pounds per Year	1,398
Maximum Average Pounds per Hour [b]	0.16
Year with Maximum	Months 34 - 45
Tons per Year	0.70

Offsite Fugitive PM_{10} Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Peaker and Tank Area and Stack 3&4 Demolition [c]																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Block 1 Construction																																						
Total (lbs/month)																0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Total (lbs/day)																0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Block 2 Construction																																						
Total (lbs/month)																																				0.35	0.35	0.35
Total (lbs/day)																																				0.02	0.02	0.02
Units 1 & 2 Demolition [c]																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Bldgs. 33 & 34 Construction [c]																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Total Offsite Fugitive PM_{10} Emissions (Grading)																																						
Pounds per Month	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.71	0.71	0.71
Pounds per Day	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03
Yearly Maximums	0.0	0.0	0.0	0.0	0.4	0.7	1.1	1.4	1.8	2.1	2.5	2.8	3.2	3.5	3.9	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.6	4.9	5.3	5.7	6.0	6.4	6.7	7.1	7.4	7.8	7.8	7.8	7.4	7.1

Maximum Pounds per Day	0.03
Maximum Pounds per Hour [a]	0.003
Maximum Pounds per Month	0.71
Month with Maximum	36 - 45
Maximum Pounds per Year	7.8
Maximum Average Pounds per Hour [b]	0.0009
Year with Maximum	Months 34 - 45, 35 - 46, or 36 -
Tons per Year	0.004

Table 5.1A.47R Offsite Construction Exhaust and Fugitive Emissions Summary

Total Offsite PM_{10} Emissions (Exhaust and Fugitive)

Parameter	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Pounds per Month	0.28	4.21	4.94	9.23	15.39	16.99	25.23	26.75	28.57	27.91	26.49	19.24	17.74	9.40	7.21	1.69	15.16	17.39	20.63	28.74	30.20	32.08	34.28	40.49	44.87	53.37	53.38	61.43	63.04	65.08	66.32	74.56	77.76	77.44	82.55	97.32	106.08	107.37
Pounds per Day	0.01	0.18	0.21	0.40	0.67	0.74	1.10	1.16	1.24	1.21	1.15	0.84	0.77	0.41	0.31	0.05	0.62	0.67	0.79	1.05	1.11	1.17	1.17	1.38	1.57	1.84	1.74	1.97	2.00	2.09	2.16	2.55	2.81	2.87	3.09	3.77	4.15	4.45
Yearly Maximums	205	223	228	230	223	222	223	218	220	222	226	234	255	282	326	372	432	480	528	573	619	667	712	760	817	878	932	1,000	1,067	1,140	1,212	1,286	1,345	1,406	1,400	1,399	1,403	1,398

Maximum Pounds per Day	6.08
Maximum Pounds per Hour [a]	0.61
Maximum Pounds per Month	140.72
Month with Maximum	43
Maximum Pounds per Year	1,406
Maximum Average Pounds per Hour [b]	0.16
Year with Maximum	Months 34 - 45
Tons per Year	0.70

Offsite Exhaust $PM_{2.5}$ Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Peaker and Tank Area and Stack 3&4 Demolition																																						
Total (lbs/month)	0.14	1.30	1.50	2.60	5.06	5.54	9.23	9.75	10.26	9.97	9.66	7.72	7.22	3.24	2.63																							
Total (lbs/day)	0.01	0.06	0.07	0.11	0.22	0.24	0.40	0.42	0.45	0.43	0.42	0.34	0.31	0.14	0.11																							
Block 1 Construction																																						
Total (lbs/month)																0.50	4.34	5.21	6.20	8.95	9.36	9.90	10.96	12.99	14.22	17.06	17.51	20.35	20.98	21.52	21.82	23.95	24.31	23.71	25.14	25.11	26.34	23.51
Total (lbs/day)																0.02	0.19	0.23	0.27	0.39	0.41	0.43	0.48	0.56	0.62	0.74	0.76	0.88	0.91	0.94	0.95	1.04	1.06	1.03	1.09	1.09	1.15	1.02
Block 2 Construction																																						
Total (lbs/month)																																				4.02	5.25	7.44
Total (lbs/day)																																				0.17	0.23	0.32
Units 1 & 2 Demolition																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Bldgs. 33 & 34 Construction																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Total Offsite Exhaust $PM_{2.5}$ Emissions (Construction Vehicles)																																						
Pounds per Month	0.14	1.30	1.50	2.60	5.06	5.54	9.23	9.75	10.26	9.97	9.66	7.72	7.22	3.24	2.63	0.50	4.34	5.21	6.20	8.95	9.36	9.90	10.96	12.99	14.22	17.06	17.51	20.35	20.98	21.52	21.82	23.95	24.31	23.71	25.14	29.14	31.58	30.94
Pounds per Day	0.01	0.06	0.07	0.11	0.22	0.24	0.40	0.42	0.45	0.43	0.42	0.34	0.31	0.14	0.11	0.02	0.19	0.23	0.27	0.39	0.41	0.43	0.48	0.56	0.62	0.74	0.76	0.88	0.91	0.94	0.95	1.04	1.06	1.03	1.09	1.27	1.37	1.35
Yearly Maximums	73	80	82	83	81	80	80	77	76	75	75	76	82	89	102	117	137	154	170	186	201	216	229	244	260	277	291	309	327	346	365	384	399	416	415	415	417	417

Maximum Pounds per Day	1.79
Maximum Pounds per Hour [a]	0.18
Maximum Pounds per Month	41.15
Month with Maximum	45
Maximum Pounds per Year	417
Maximum Average Pounds per Hour [b]	0.05
Year with Maximum	Months 37 - 48
Tons per Year	0.21

Offsite Fugitive $PM_{2.5}$ Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Peaker and Tank Area and Stack 3&4 Demolition [c]																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Block 1 Construction																																						
Total (lbs/month)																0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038
Total (lbs/day)																0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Block 2 Construction																																						
Total (lbs/month)																																				0.038	0.038	0.038
Total (lbs/day)																																				0.002	0.002	0.002
Units 1 & 2 Demolition [c]																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Bldgs. 33 & 34 Construction [c]																																						
Total (lbs/month)																																						
Total (lbs/day)																																						
Total Offsite Fugitive $PM_{2.5}$ Emissions (Grading)																																						
Pounds per Month	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.076	0.076	0.076
Pounds per Day	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003
Yearly Maximums	0.00	0.00	0.00	0.00	0.04	0.08	0.11	0.15	0.19	0.23	0.27	0.31	0.34	0.38	0.42	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.50	0.53	0.57	0.61	0.65	0.69	0.73	0.76	0.80	0.84	0.84	0.84	0.80	0.76

Maximum Pounds per Day	0.003
Maximum Pounds per Hour [a]	0.0003
Maximum Pounds per Month	0.08
Month with Maximum	36 - 35
Maximum Pounds per Year	0.84
Maximum Average Pounds per Hour [b]	0.0001
Year with Maximum	35 - 46, or 36 - 47
Tons per Year	0.0004

Table 5.1A.47R Offsite Construction Exhaust and Fugitive Emissions Summary

Total Offsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

Parameter	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Pounds per Month	0.14	1.30	1.50	2.60	5.06	5.54	9.23	9.75	10.26	9.97	9.66	7.72	7.22	3.24	2.63	0.54	4.38	5.25	6.24	8.99	9.40	9.94	11.00	13.03	14.25	17.10	17.55	20.39	21.02	21.56	21.86	23.99	24.35	23.75	25.18	29.21	31.66	31.02
Pounds per Day	0.01	0.06	0.07	0.11	0.22	0.24	0.40	0.42	0.45	0.43	0.42	0.34	0.31	0.14	0.11	0.02	0.19	0.23	0.27	0.39	0.41	0.43	0.48	0.57	0.62	0.74	0.76	0.89	0.91	0.94	0.95	1.04	1.06	1.03	1.09	1.27	1.38	1.35
Yearly Maximums	73	80	82	83	81	80	80	77	76	75	75	77	82	89	103	118	138	154	170	186	201	216	230	244	260	278	292	310	327	347	366	385	400	417	416	416	418	418

Maximum Pounds per Day	1.79
Maximum Pounds per Hour [a]	0.179
Maximum Pounds per Month	41.22
Month with Maximum	45
Maximum Pounds per Year	418
Maximum Average Pounds per Hour [b]	0.048
Year with Maximum	Months 37-48
Tons per Year	0.21

Offsite CO_2 Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Peaker and Tank Area and Stack 3&4 Demolition																																						
Total (metric tons/month)	0.38	2.35	2.67	4.15	9.77	10.59	19.67	20.71	21.51	21.76	21.52	18.73	17.69	6.80	5.84																							
Total (metric tons/day)	0.02	0.10	0.12	0.18	0.42	0.46	0.86	0.90	0.94	0.95	0.94	0.81	0.77	0.30	0.25																							
Block 1 Construction																																						
Total (metric tons/month)																1.16	7.38	9.43	11.15	16.85	17.49	18.92	22.07	26.24	28.15	34.16	36.35	42.78	44.36	45.11	45.43	48.17	46.94	45.48	47.72	47.15	49.06	40.54
Total (metric tons/day)																0.05	0.32	0.41	0.48	0.73	0.76	0.82	0.96	1.14	1.22	1.49	1.58	1.86	1.93	1.96	1.98	2.09	2.04	1.98	2.07	2.05	2.13	1.76
Block 2 Construction																																						
Total (metric tons/month)																																				6.67	8.58	12.21
Total (metric tons/day)																																				0.29	0.37	0.53
Units 1 & 2 Demolition																																						
Total (metric tons/month)																																						
Total (metric tons/day)																																						
Bldgs. 33 & 34 Construction																																						
Total (metric tons/month)																																						
Total (metric tons/day)																																						
Total Offsite CO_2 Emissions (Construction Vehicles)																																						
Metric Tons per Month	0.38	2.35	2.67	4.15	9.77	10.59	19.67	20.71	21.51	21.76	21.52	18.73	17.69	6.80	5.84	1.16	7.38	9.43	11.15	16.85	17.49	18.92	22.07	26.24	28.15	34.16	36.35	42.78	44.36	45.11	45.43	48.17	46.94	45.48	47.72	53.82	57.65	52.75
Metric Tons per Day	0.02	0.10	0.12	0.18	0.42	0.46	0.86	0.90	0.94	0.95	0.94	0.81	0.77	0.30	0.25	0.05	0.32	0.41	0.48	0.73	0.76	0.82	0.96	1.14	1.22	1.49	1.58	1.86	1.93	1.96	1.98	2.09	2.04	1.98	2.07	2.34	2.51	2.29
Yearly Maximums	154	171	176	179	176	173	172	164	160	156	153	154	161	171	199	229	271	308	344	378	409	439	465	491	518	548	567	594	619	647	675	699	720	748	753	759	767	772

Maximum Metric Tons per Day	3.26
Maximum Metric Tons per Hour [a]	0.33
Maximum Metric Tons per Month	74.92
Month with Maximum	45
Maximum Metric Tons per Year	781
Maximum Average Metric Tons per Hour [b]	0.09
Year with Maximum	Months 39 - 50

Offsite N_2O Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Peaker and Tank Area and Stack 3&4 Demolition																																						
Total (metric tons/month)	0.0000011	0.0000201	0.0000237	0.0000451	0.0000721	0.0000798	0.0001143	0.0001213	0.0001303	0.0001283	0.0001210	0.0000851	0.0000781	0.0000436	0.0000329																							
Total (metric tons/day)	0.0000000	0.0000009	0.0000010	0.0000020	0.0000031	0.0000035	0.0000050	0.0000053	0.0000057	0.0000056	0.0000053	0.0000037	0.0000034	0.0000019	0.0000014																							
Block 1 Construction																																						
Total (metric tons/month)																0.0000060	0.0000718	0.0000818	0.0000973	0.0001351	0.0001423	0.0001517	0.0001609	0.0001903	0.0002118	0.0002518	0.0002503	0.0002876	0.0002948	0.0003050	0.0003112	0.0003522	0.0003698	0.0003708	0.0003958	0.0003981	0.0004196	0.0003921
Total (metric tons/day)																0.0000003	0.0000031	0.0000036	0.0000042	0.0000059	0.0000062	0.0000066	0.0000070	0.0000083	0.0000092	0.0000109	0.0000109	0.0000125	0.0000128	0.0000133	0.0000135	0.0000153	0.0000161	0.0000161	0.0000172	0.0000173	0.0000182	0.0000170
Block 2 Construction																																						
Total (metric tons/month)																																				0.0000685	0.0000899	0.0001269
Total (metric tons/day)																																				0.0000030	0.0000039	0.0000055
Units 1 & 2 Demolition																																						
Total (metric tons/month)																																						
Total (metric tons/day)																																						
Bldgs. 33 & 34 Construction																																						
Total (metric tons/month)																																						
Total (metric tons/day)																																						
Total Offsite N_2O Emissions (Construction Vehicles)																																						
Metric Tons per Month	0.00000	0.00002	0.00002	0.00005	0.00007	0.00008	0.00011	0.00012	0.00013	0.00013	0.00012	0.00009	0.00008	0.00004	0.00003	0.00001	0.00007	0.00008	0.00010	0.00014	0.00014	0.00015	0.00016	0.00019	0.00021	0.00025	0.00025	0.00029	0.00029	0.00030	0.00031	0.00035	0.00037	0.00037	0.00040	0.00047	0.00051	0.00052
Metric Tons per Day	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00001	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002
Yearly Maximums	0.00094	0.00102	0.00104	0.00105	0.00101	0.00101	0.00101	0.00100	0.00101	0.00102	0.00105	0.00109	0.00119	0.00133	0.00153	0.00175	0.00203	0.00226	0.00248	0.00269	0.00291	0.00314	0.00336	0.00359	0.00387	0.00417	0.00443	0.00476	0.00510	0.00546	0.00581	0.00618	0.00647	0.00677	0.00674	0.00673	0.00675	0.00673

Maximum Metric Tons per Day	0.000030
Maximum Metric Tons per Hour [a]	0.0000030
Maximum Metric Tons per Month	0.00068
Month with Maximum	43
Maximum Metric Tons per Year	0.00677
Maximum Average Metric Tons per Hour [b]	0.00000077
Year with Maximum	Months 34 - 45

Offsite CH_4 Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Peaker and Tank Area and Stack 3&4 Demolition																																						
Total (metric tons/month)	0.0000012	0.0000883	0.0001055	0.0002153	0.0002975	0.0003325	0.0004093	0.0004368	0.0004798	0.0004644	0.0004232	0.0002444	0.0002169	0.0001669	0.0001153																							
Total (metric tons/day)	0.0000001	0.0000038	0.0000046	0.0000094	0.0000129	0.0000145	0.0000178	0.0000190	0.0000209	0.0000202	0.0000184	0.0000106	0.0000094	0.0000073	0.0000050																							
Block 1 Construction																																						
Total (metric tons/month)																0.0000198	0.0003307	0.0003613	0.0004314	0.0005787	0.0006131	0.0006499	0.0006597	0.0007779	0.0008811	0.0010374	0.0009956	0.0011290	0.0011501	0.0012010	0.0012344	0.0014453	0.0015711	0.0015990	0.0017193	0.0017418	0.0018449	0.0018023
Total (metric tons/day)																0.0000009	0.0000144	0.0000157	0.0000188	0.0000252	0.0000267	0.0000283	0.0000287	0.0000338	0.0000383	0.0000451	0.0000433	0.0000491	0.0000500	0.0000522	0.0000537	0.0000628	0.0000683	0.0000695	0.0000748	0.0000757	0.0000802	0.0000784
Block 2 Construction																																						
Total (metric tons/month)																																				0.0003204	0.0004236	0.0005968
Total (metric tons/day)																																				0.0000139	0.0000184	0.0000259
Units 1 & 2 Demolition																																						
Total (metric tons/month)																																						
Total (metric tons/day)																																						
Bldgs. 33 & 34 Construction																																						
Total (metric tons/month)																																						
Total (metric tons/day)																																						
Total Offsite CH_4 Emissions (Construction Vehicles)																																						
Metric Tons per Month	0.00000	0.00009	0.00011	0.00022	0.00030	0.00033	0.00041	0.00044	0.00048	0.00046	0.00042	0.00024	0.00022	0.00017	0.00012	0.00002	0.00033	0.00036	0.00043	0.00058	0.00061	0.00065	0.00066	0.00078	0.00088	0.00104	0.00100	0.00113	0.00115	0.00120	0.00123	0.00145	0.00157	0.00160	0.00172	0.00206	0.00227	0.00240
Metric Tons per Day	0.00000	0.00000	0.00000	0.00001	0.00001	0.00001	0.00002	0.00002	0.00002	0.00002	0.00002	0.00001	0.00001	0.00001	0.00001	0.00000	0.00001	0.00002	0.00002	0.00003	0.00003	0.00003	0.00003	0.00003	0.00004	0.00005	0.00004	0.00005	0.00005	0.00005	0.00005	0.00006	0.00007	0.00007	0.00007	0.00009	0.00010	0.00010
Yearly Maximums	0.00350	0.00371	0.00379	0.00380	0.00361	0.00364	0.00367	0.00369	0.00383	0.00397	0.00415	0.00439	0.00492	0.00559	0.00646	0.00734	0.00845	0.00927	0.01010	0.01091	0.01177	0.01273	0.01368	0.01474	0.01603	0.01741	0.01877	0.02040	0.02206	0.02387	0.02562	0.02753	0.02900	0.03039	0.03014	0.03001	0.03000	0.02979

Maximum Metric Tons per Day	0.000137
Maximum Metric Tons per Hour [a]	0.0000137
Maximum Metric Tons per Month	0.00315
Month with Maximum	43
Maximum Metric Tons per Year	0.03039
Maximum Average Metric Tons per Hour [b]	0.0000035
Year with Maximum	Months 34 - 45

Notes:
[a] The hours per day are per 'Manpower Schedule Huntington Beach 03.13.12.xls 10 hours/day
[b] The hours per year are assumed to allow operation 24 hours per day, 7 days per week despite the actual construction schedule per 'Manpower_Schedule_Huntington_Beach 03.13. 8,760 hours/year
[c] There are no offsite activities generating fugitive dust during Peaker and Tank Area and Stack 3&4 Demolition, Units 1&2 Demolition and Bldgs. 33 & 34 Construction.

Table 5.1A.47R Offsite Construction
Exhaust and Fugitive Emissions
Summary

Offsite CO Emissions

	CO Emissions by Month																																								
Construction Step	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
Peaker and Tank Area and Stack 3&4 Demolition																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Block 1 Construction																																									
Total (lbs/month)	358.17	358.17	367.60	367.60	364.20	317.06	309.21																																		
Total (lbs/day)	15.57	15.57	15.98	15.98	15.83	13.79	13.44																																		
Block 2 Construction																																									
Total (lbs/month)	128.18	156.17	177.12	177.90	198.99	210.21	231.99	252.73	288.42	361.53	363.24	360.04	355.77	354.83	351.91	356.17	336.65	349.44	332.38	328.12	252.74	202.71	134.06	132.94	128.67																
Total (lbs/day)	5.57	6.79	7.70	7.73	8.65	9.14	10.09	10.99	12.54	15.72	15.79	15.65	15.47	15.43	15.30	15.49	14.64	15.19	14.45	14.27	10.99	8.81	5.83	5.78	5.59																
Units 1 & 2 Demolition																																									
Total (lbs/month)																													31.70	35.83	53.52	71.81	75.15	82.23	84.01	84.01	92.28	92.28	104.68	104.68	108.81
Total (lbs/day)																													1.38	1.56	2.33	3.12	3.27	3.58	3.65	3.65	4.01	4.01	4.55	4.55	4.73
Bldgs. 33 & 34 Construction																																									
Total (lbs/month)																																							40.38	60.60	62.30
Total (lbs/day)																																							1.76	2.63	2.71
Total Offsite CO Emissions (Construction Vehicles)																																									
Pounds per Month	**486.35**	**514.34**	**544.72**	**545.51**	**563.18**	**527.27**	**541.20**	**252.73**	**288.42**	**361.53**	**363.24**	**360.04**	**355.77**	**354.83**	**351.91**	**356.17**	**336.65**	**349.44**	**332.38**	**328.12**	**252.74**	**202.71**	**134.06**	**132.94**	**128.67**	**0.00**	**0.00**	**0.00**	**31.70**	**35.83**	**53.52**	**71.81**	**75.15**	**82.23**	**84.01**	**84.01**	**92.28**	**92.28**	**145.05**	**165.28**	**171.11**
Pounds per Day	**21.15**	**22.36**	**23.68**	**23.72**	**24.49**	**22.92**	**23.53**	**10.99**	**12.54**	**15.72**	**15.79**	**15.65**	**15.47**	**15.43**	**15.30**	**15.49**	**14.64**	**15.19**	**14.45**	**14.27**	**10.99**	**8.81**	**5.83**	**5.78**	**5.59**	**0.00**	**0.00**	**0.00**	**1.38**	**1.56**	**2.33**	**3.12**	**3.27**	**3.58**	**3.65**	**3.65**	**4.01**	**4.01**	**6.31**	**7.19**	**7.44**
Yearly Maximums	**5,349**	**5,218**	**5,058**	**4,866**	**4,676**	**4,450**	**4,272**	**4,063**	**4,139**	**4,103**	**3,944**	**3,715**	**3,488**	**3,261**	**2,906**	**2,554**	**2,198**	**1,893**	**1,579**	**1,300**	**1,044**	**866**	**746**	**696**	**647**	**611**	**703**	**848**	**1,013**	**1,153**	**1,295**	**1,420**	**1,522**	**1,629**	**1,729**	**1,834**	**1,927**	**1,997**	**2,054**	**2,047**	**1,923**
Maximum Pounds per Day																																									
Maximum Pounds per Hour [a]																																									
Maximum Pounds per Month																																									
Month with Maximum																																									
Maximum Pounds per Year																																									
Maximum Average Pounds per Hour [b]																																									
Year with Maximum																																									
Tons per Year																																									

Offsite VOC Emissions

	VOC Emissions by Month																																								
Construction Step	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
Peaker and Tank Area and Stack 3&4 Demolition																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Block 1 Construction																																									
Total (lbs/month)	8.99	8.99	9.18	9.18	7.67	6.74	6.58																																		
Total (lbs/day)	0.39	0.39	0.40	0.40	0.33	0.29	0.29																																		
Block 2 Construction																																									
Total (lbs/month)	5.48	6.12	7.19	7.52	6.61	8.07	10.10	12.74	12.65	13.96	14.24	13.71	13.00	11.85	11.16	11.87	9.63	11.75	8.92	8.22	6.93	5.44	4.26	4.88	4.17																
Total (lbs/day)	0.24	0.27	0.31	0.33	0.29	0.35	0.44	0.55	0.55	0.61	0.62	0.60	0.57	0.52	0.49	0.52	0.42	0.51	0.39	0.36	0.30	0.24	0.19	0.21	0.18																
Units 1 & 2 Demolition																																									
Total (lbs/month)																													2.95	3.63	3.91	4.80	4.65	4.76	5.40	5.40	6.74	6.74	8.76	8.76	9.43
Total (lbs/day)																													0.13	0.16	0.17	0.21	0.20	0.21	0.23	0.23	0.29	0.29	0.38	0.38	0.41
Bldgs. 33 & 34 Construction																																									
Total (lbs/month)																																							0.69	1.85	1.80
Total (lbs/day)																																							0.03	0.08	0.08
Total Offsite VOC Emissions (Construction Vehicles)																																									
Pounds per Month	**14.47**	**15.11**	**16.37**	**16.70**	**14.28**	**14.81**	**16.68**	**12.74**	**12.65**	**13.96**	**14.24**	**13.71**	**13.00**	**11.85**	**11.16**	**11.87**	**9.63**	**11.75**	**8.92**	**8.22**	**6.93**	**5.44**	**4.26**	**4.88**	**4.17**	**0.00**	**0.00**	**0.00**	**2.95**	**3.63**	**3.91**	**4.80**	**4.65**	**4.76**	**5.40**	**5.40**	**6.74**	**6.74**	**9.45**	**10.61**	**11.23**
Pounds per Day	**0.63**	**0.66**	**0.71**	**0.73**	**0.62**	**0.64**	**0.73**	**0.55**	**0.55**	**0.61**	**0.62**	**0.60**	**0.57**	**0.52**	**0.49**	**0.52**	**0.42**	**0.51**	**0.39**	**0.36**	**0.30**	**0.24**	**0.19**	**0.21**	**0.18**	**0.00**	**0.00**	**0.00**	**0.13**	**0.16**	**0.17**	**0.21**	**0.20**	**0.21**	**0.23**	**0.23**	**0.29**	**0.29**	**0.41**	**0.46**	**0.49**
Yearly Maximums	**176**	**174**	**171**	**166**	**161**	**156**	**153**	**145**	**141**	**135**	**127**	**117**	**108**	**99**	**87**	**76**	**64**	**58**	**49**	**44**	**41**	**39**	**38**	**39**	**40**	**42**	**49**	**58**	**69**	**77**	**86**	**95**	**102**	**108**	**115**	**121**	**124**	**126**	**126**	**122**	**116**
Maximum Pounds per Day																																									
Maximum Pounds per Hour [a]																																									
Maximum Pounds per Month																																									
Month with Maximum																																									
Maximum Pounds per Year																																									
Maximum Average Pounds per Hour [b]																																									
Year with Maximum																																									
Tons per Year																																									

Offsite NOx Emissions

	NOx Emissions by Month																																								
Construction Step	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
Peaker and Tank Area and Stack 3&4 Demolition																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Block 1 Construction																																									
Total (lbs/month)	56.82	56.82	57.57	57.57	35.25	31.53	30.90																																		
Total (lbs/day)	2.47	2.47	2.50	2.50	1.53	1.37	1.34																																		
Block 2 Construction																																									
Total (lbs/month)	68.30	73.64	87.96	93.54	73.47	96.53	126.99	151.67	143.83	151.02	155.12	147.44	137.20	119.34	109.22	119.46	88.17	118.89	77.93	61.78	55.84	43.00	37.59	46.41	37.17																
Total (lbs/day)	2.97	3.20	3.82	4.07	3.19	4.20	5.52	6.59	6.25	6.57	6.74	6.41	5.97	5.19	4.75	5.19	3.83	5.17	3.39	2.69	2.43	1.87	1.63	2.02	1.62																
Units 1 & 2 Demolition																																									
Total (lbs/month)																													41.05	51.02	52.61	57.99	55.37	55.96	64.81	64.81	82.90	82.90	110.03	110.03	119.07
Total (lbs/day)																													1.78	2.22	2.29	2.52	2.41	2.43	2.82	2.82	3.60	3.60	4.78	4.78	5.18
Bldgs. 33 & 34 Construction																																									
Total (lbs/month)																																							4.42	18.96	17.96
Total (lbs/day)																																							0.19	0.82	0.78
Total Offsite NOx Emissions (Construction Vehicles)																																									
Pounds per Month	**125.13**	**130.46**	**145.53**	**151.11**	**108.72**	**128.05**	**157.90**	**151.67**	**143.83**	**151.02**	**155.12**	**147.44**	**137.20**	**119.34**	**109.22**	**119.46**	**88.17**	**118.89**	**77.93**	**61.78**	**55.84**	**43.00**	**37.59**	**46.41**	**37.17**	**0.00**	**0.00**	**0.00**	**41.05**	**51.02**	**52.61**	**57.99**	**55.37**	**55.96**	**64.81**	**64.81**	**82.90**	**82.90**	**114.45**	**128.99**	**137.02**
Pounds per Day	**5.44**	**5.67**	**6.33**	**6.57**	**4.73**	**5.57**	**6.87**	**6.59**	**6.25**	**6.57**	**6.74**	**6.41**	**5.97**	**5.19**	**4.75**	**5.19**	**3.83**	**5.17**	**3.39**	**2.69**	**2.43**	**1.87**	**1.63**	**2.02**	**1.62**	**0.00**	**0.00**	**0.00**	**1.78**	**2.22**	**2.29**	**2.52**	**2.41**	**2.43**	**2.82**	**2.82**	**3.60**	**3.60**	**4.98**	**5.61**	**5.96**
Yearly Maximums	**1,696**	**1,708**	**1,697**	**1,661**	**1,629**	**1,608**	**1,599**	**1,519**	**1,429**	**1,341**	**1,233**	**1,116**	**1,015**	**915**	**795**	**686**	**567**	**520**	**452**	**426**	**423**	**422**	**435**	**462**	**481**	**527**	**609**	**724**	**853**	**949**	**1,050**	**1,156**	**1,255**	**1,354**	**1,452**	**1,543**	**1,603**	**1,638**	**1,655**	**1,629**	**1,553**
Maximum Pounds per Day																																									
Maximum Pounds per Hour [a]																																									
Maximum Pounds per Month																																									
Month with Maximum																																									
Maximum Pounds per Year																																									
Maximum Average Pounds per Hour [b]																																									
Year with Maximum																																									
Tons per Year																																									

Table 5.1A.47R Offsite Construction
Exhaust and Fugitive Emissions
Summary

Offsite SOx Emissions

	SOx Emissions by Month																																								
Construction Step	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**
Peaker and Tank Area and Stack 3&4 Demolition																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Block 1 Construction																																									
Total (lbs/month)	0.956	0.956	0.979	0.979	0.907	0.792	0.772																																		
Total (lbs/day)	0.042	0.042	0.043	0.043	0.039	0.034	0.034																																		
Block 2 Construction																																									
Total (lbs/month)	0.504	0.586	0.678	0.696	0.687	0.781	0.922	1.094	1.153	1.349	1.367	1.334	1.290	1.229	1.189	1.233	1.084	1.215	1.040	0.997	0.797	0.632	0.451	0.480	0.437																
Total (lbs/day)	0.022	0.025	0.029	0.030	0.030	0.034	0.040	0.048	0.050	0.059	0.059	0.058	0.056	0.053	0.052	0.054	0.047	0.053	0.045	0.043	0.035	0.027	0.020	0.021	0.019																
Units 1 & 2 Demolition																																									
Total (lbs/month)																													0.232	0.279	0.332	0.422	0.421	0.442	0.482	0.482	0.576	0.576	0.718	0.718	0.765
Total (lbs/day)																													0.010	0.012	0.014	0.018	0.018	0.019	0.021	0.021	0.025	0.025	0.031	0.031	0.033
Bldgs. 33 & 34 Construction																																									
Total (lbs/month)																																							0.133	0.248	0.249
Total (lbs/day)																																							0.006	0.011	0.011
Total Offsite SOx Emissions (Construction Vehicles)																																									
Pounds per Month	**1.459**	**1.542**	**1.656**	**1.675**	**1.594**	**1.573**	**1.695**	**1.094**	**1.153**	**1.349**	**1.367**	**1.334**	**1.290**	**1.229**	**1.189**	**1.233**	**1.084**	**1.215**	**1.040**	**0.997**	**0.797**	**0.632**	**0.451**	**0.480**	**0.437**	**0.000**	**0.000**	**0.000**	**0.232**	**0.279**	**0.332**	**0.422**	**0.421**	**0.442**	**0.482**	**0.482**	**0.576**	**0.576**	**0.850**	**0.966**	**1.014**
Pounds per Day	**0.063**	**0.067**	**0.072**	**0.073**	**0.069**	**0.068**	**0.074**	**0.048**	**0.050**	**0.059**	**0.059**	**0.058**	**0.056**	**0.053**	**0.052**	**0.054**	**0.047**	**0.053**	**0.045**	**0.043**	**0.035**	**0.027**	**0.020**	**0.021**	**0.019**	**0.000**	**0.000**	**0.000**	**0.010**	**0.012**	**0.014**	**0.018**	**0.018**	**0.019**	**0.021**	**0.021**	**0.025**	**0.025**	**0.037**	**0.042**	**0.044**
Yearly Maximums	**17**	**17**	**17**	**17**	**16**	**16**	**15**	**15**	**14**	**14**	**13**	**12**	**12**	**11**	**10**	**8**	**7**	**6**	**5**	**5**	**4**	**4**	**3**	**4**	**4**	**4**	**4**	**5**	**6**	**7**	**8**	**8**	**9**	**10**	**10**	**11**	**11**	**12**	**12**	**11**	**11**
Maximum Pounds per Day																																									
Maximum Pounds per Hour [a]																																									
Maximum Pounds per Month																																									
Month with Maximum																																									
Maximum Pounds per Year																																									
Maximum Average Pounds per Hour [b]																																									
Year with Maximum																																									
Tons per Year																																									

Offsite Exhaust PM_{10} Emissions

	Exhaust PM_{10} Emissions by Month																																								
Construction Step	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**
Peaker and Tank Area and Stack 3&4 Demolition																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Block 1 Construction																																									
Total (lbs/month)	83.96	83.96	86.15	86.15	84.76	73.81	71.98																																		
Total (lbs/day)	3.49	3.49	3.59	3.59	3.65	3.17	3.09																																		
Block 2 Construction																																									
Total (lbs/month)	36.09	43.75	49.73	50.08	55.26	58.84	65.43	71.57	80.99	100.84	101.39	100.35	98.96	98.27	97.25	98.64	92.64	96.82	91.24	89.74	69.30	55.53	36.91	36.82	35.45																
Total (lbs/day)	1.57	1.90	2.16	2.18	2.40	2.56	2.84	3.11	3.52	4.38	4.41	4.36	4.30	4.27	4.23	4.29	4.03	4.21	3.97	3.90	3.01	2.41	1.60	1.60	1.54																
Units 1 & 2 Demolition																																									
Total (lbs/month)																													10.52	12.00	17.47	23.17	24.14	26.33	27.05	27.05	29.94	29.94	34.28	34.28	35.73
Total (lbs/day)																													0.46	0.52	0.76	1.01	1.05	1.14	1.18	1.18	1.30	1.30	1.49	1.49	1.55
Bldgs. 33 & 34 Construction																																									
Total (lbs/month)																																							13.27	20.14	20.68
Total (lbs/day)																																							0.58	0.88	0.90
Total Offsite Exhaust PM_{10} Emissions (Construction Vehicles)																																									
Pounds per Month	**120.05**	**127.71**	**135.88**	**136.23**	**140.01**	**132.65**	**137.41**	**71.57**	**80.99**	**100.84**	**101.39**	**100.35**	**98.96**	**98.27**	**97.25**	**98.64**	**92.64**	**96.82**	**91.24**	**89.74**	**69.30**	**55.53**	**36.91**	**36.82**	**35.45**	**0.00**	**0.00**	**0.00**	**10.52**	**12.00**	**17.47**	**23.17**	**24.14**	**26.33**	**27.05**	**27.05**	**29.94**	**29.94**	**47.56**	**54.42**	**56.41**
Pounds per Day	**5.06**	**5.39**	**5.75**	**5.76**	**6.05**	**5.73**	**5.94**	**3.11**	**3.52**	**4.38**	**4.41**	**4.36**	**4.30**	**4.27**	**4.23**	**4.29**	**4.03**	**4.21**	**3.97**	**3.90**	**3.01**	**2.41**	**1.60**	**1.60**	**1.54**	**0.00**	**0.00**	**0.00**	**0.46**	**0.52**	**0.76**	**1.01**	**1.05**	**1.14**	**1.18**	**1.18**	**1.30**	**1.30**	**2.07**	**2.37**	**2.45**
Yearly Maximums	**1,385**	**1,364**	**1,335**	**1,296**	**1,258**	**1,211**	**1,175**	**1,129**	**1,147**	**1,135**	**1,090**	**1,026**	**962**	**899**	**800**	**703**	**604**	**522**	**438**	**364**	**297**	**252**	**223**	**213**	**203**	**198**	**228**	**275**	**330**	**375**	**422**	**464**	**498**	**533**	**567**	**602**	**632**	**655**	**674**	**672**	**631**
Maximum Pounds per Day																																									
Maximum Pounds per Hour [a]																																									
Maximum Pounds per Month																																									
Month with Maximum																																									
Maximum Pounds per Year																																									
Maximum Average Pounds per Hour [b]																																									
Year with Maximum																																									
Tons per Year																																									

Offsite Fugitive PM_{10} Emissions

	Fugitive PM_{10} Emissions by Month																																								
Construction Step	**39**	**40**	**41**	**42**	**43**	**44**	**45**	**46**	**47**	**48**	**49**	**50**	**51**	**52**	**53**	**54**	**55**	**56**	**57**	**58**	**59**	**60**	**61**	**62**	**63**	**64**	**65**	**66**	**67**	**68**	**69**	**70**	**71**	**72**	**73**	**74**	**75**	**76**	**77**	**78**	**79**
Peaker and Tank Area and Stack 3&4 Demolition [c]																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Block 1 Construction																																									
Total (lbs/month)	0.35	0.35	0.35	0.35	0.35	0.35	0.35																																		
Total (lbs/day)	0.02	0.02	0.02	0.02	0.02	0.02	0.02																																		
Block 2 Construction																																									
Total (lbs/month)	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35																
Total (lbs/day)	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02																
Units 1 & 2 Demolition [c]																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Bldgs. 33 & 34 Construction [c]																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Total Offsite Fugitive PM_{10} Emissions (Grading)																																									
Pounds per Month	**0.71**	**0.71**	**0.71**	**0.71**	**0.71**	**0.71**	**0.71**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.35**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Pounds per Day	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.03**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Yearly Maximums	**6.7**	**6.4**	**6.0**	**5.7**	**5.3**	**4.9**	**4.6**	**4.2**	**4.2**	**4.2**	**4.2**	**4.2**	**4.2**	**4.2**	**3.9**	**3.5**	**3.2**	**2.8**	**2.5**	**2.1**	**1.8**	**1.4**	**1.1**	**0.7**	**0.4**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Maximum Pounds per Day																																									
Maximum Pounds per Hour [a]																																									
Maximum Pounds per Month																																									
Month with Maximum																																									
Maximum Pounds per Year																																									
Maximum Average Pounds per Hour [b]																																									
Year with Maximum																																									
Tons per Year																																									

Table 5.1A.47R Offsite Construction Exhaust and Fugitive Emissions Summary

Total Offsite PM_{10} Emissions (Exhaust and Fugitive)

	Total PM_{10} Emissions by Month																																									
Parameter	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
Pounds per Month	120.76	128.41	136.59	136.94	140.72	133.35	138.12	71.93	81.34	101.19	101.75	100.70	99.31	98.63	97.60	98.99	92.99	97.17	91.60	90.09	69.65	55.88	37.27	37.17	35.81	0.00	0.00	0.00	10.52	12.00	17.47	23.17	24.14	26.33	27.05	27.05	29.94	29.94	47.56	54.42	56.41
Pounds per Day	5.09	5.42	5.78	5.79	6.08	5.76	5.97	3.13	3.54	4.40	4.42	4.38	4.32	4.29	4.24	4.30	4.04	4.22	3.98	3.92	3.03	2.43	1.62	1.62	1.56	0.00	0.00	0.00	0.46	0.52	0.76	1.01	1.05	1.14	1.18	1.18	1.30	1.30	2.07	2.37	2.45
Yearly Maximums	1,392	1,370	1,341	1,302	1,264	1,216	1,180	1,133	1,151	1,140	1,094	1,030	966	903	804	707	608	525	440	366	299	253	224	214	204	198	228	275	330	375	422	464	498	533	567	602	632	655	674	672	631
Maximum Pounds per Day																																									
Maximum Pounds per Hour [a]																																									
Maximum Pounds per Month																																									
Month with Maximum																																									
Maximum Pounds per Year																																									
Maximum Average Pounds per Hour [b]																																									
Year with Maximum																																									
Tons per Year																																									

Offsite Exhaust $PM_{2.5}$ Emissions

	Exhaust $PM_{2.5}$ Emissions by Month																																									
Construction Step	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
Peaker and Tank Area and Stack 3&4 Demolition																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Block 1 Construction																																									
Total (lbs/month)	24.16	24.16	24.77	24.77	23.84	20.78	20.27																																		
Total (lbs/day)	1.05	1.05	1.08	1.08	1.04	0.90	0.88																																		
Block 2 Construction																																									
Total (lbs/month)	11.47	13.68	15.65	15.89	16.79	18.34	20.88	22.96	25.36	30.94	31.19	30.73	30.12	29.53	29.02	29.63	27.29	29.12	26.68	26.07	20.34	16.25	11.03	11.24	10.62																
Total (lbs/day)	0.50	0.59	0.68	0.69	0.73	0.80	0.91	1.00	1.10	1.35	1.36	1.34	1.31	1.28	1.26	1.29	1.19	1.27	1.16	1.13	0.88	0.71	0.48	0.49	0.46																
Units 1 & 2 Demolition																																									
Total (lbs/month)																													3.93	4.59	6.13	7.87	8.07	8.68	9.11	9.11	10.39	10.39	12.30	12.30	12.94
Total (lbs/day)																													0.17	0.20	0.27	0.34	0.35	0.38	0.40	0.40	0.45	0.45	0.53	0.53	0.56
Bldgs. 33 & 34 Construction																																									
Total (lbs/month)																																							3.74	6.01	6.12
Total (lbs/day)																																							0.16	0.26	0.27
Total Offsite Exhaust $PM_{2.5}$ Emissions (Construction Vehicles)																																									
Pounds per Month	35.63	37.84	40.43	40.66	40.63	39.12	41.15	22.96	25.36	30.94	31.19	30.73	30.12	29.53	29.02	29.63	27.29	29.12	26.68	26.07	20.34	16.25	11.03	11.24	10.62	0.00	0.00	0.00	3.93	4.59	6.13	7.87	8.07	8.68	9.11	9.11	10.39	10.39	16.04	18.31	19.06
Pounds per Day	1.55	1.65	1.76	1.77	1.77	1.70	1.79	1.00	1.10	1.35	1.36	1.34	1.31	1.28	1.26	1.29	1.19	1.27	1.16	1.13	0.88	0.71	0.48	0.49	0.46	0.00	0.00	0.00	0.17	0.20	0.27	0.34	0.35	0.38	0.40	0.40	0.45	0.45	0.70	0.80	0.83
Yearly Maximums	417	411	403	391	380	367	357	343	346	341	326	306	286	267	237	208	179	155	131	110	92	80	72	70	68	68	78	94	113	128	143	158	169	181	192	203	212	218	223	221	208
Maximum Pounds per Day																																									
Maximum Pounds per Hour [a]																																									
Maximum Pounds per Month																																									
Month with Maximum																																									
Maximum Pounds per Year																																									
Maximum Average Pounds per Hour [b]																																									
Year with Maximum																																									
Tons per Year																																									

Offsite Fugitive $PM_{2.5}$ Emissions

	Fugitive $PM_{2.5}$ Emissions by Month																																									
Construction Step	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
Peaker and Tank Area and Stack 3&4 Demolition [c]																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Block 1 Construction																																									
Total (lbs/month)	0.038	0.038	0.038	0.038	0.038	0.038	0.038																																		
Total (lbs/day)	0.002	0.002	0.002	0.002	0.002	0.002	0.002																																		
Block 2 Construction																																									
Total (lbs/month)	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038																
Total (lbs/day)	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002																
Units 1 & 2 Demolition [c]																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Bldgs. 33 & 34 Construction [c]																																									
Total (lbs/month)																																									
Total (lbs/day)																																									
Total Offsite Fugitive $PM_{2.5}$ Emissions (Grading)																																									
Pounds per Month	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Pounds per Day	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Yearly Maximums	0.73	0.69	0.65	0.61	0.57	0.53	0.50	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.42	0.38	0.34	0.31	0.27	0.23	0.19	0.15	0.11	0.08	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum Pounds per Day																																									
Maximum Pounds per Hour [a]																																									
Maximum Pounds per Month																																									
Month with Maximum																																									
Maximum Pounds per Year																																									
Maximum Average Pounds per Hour [b]																																									
Year with Maximum																																									
Tons per Year																																									

Table 5.1A.47R Offsite Construction Exhaust and Fugitive Emissions Summary

Total Offsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

	Total $PM_{2.5}$ Emissions by Month																																									
Parameter	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
Pounds per Month	35.71	37.91	40.50	40.74	40.71	39.19	41.22	23.00	25.40	30.98	31.22	30.77	30.15	29.57	29.06	29.67	27.33	29.16	26.71	26.10	20.38	16.29	11.07	11.28	10.66	0.00	0.00	0.00	3.93	4.59	6.13	7.87	8.07	8.68	9.11	9.11	10.39	10.39	16.04	18.31	19.06
Pounds per Day	1.55	1.65	1.76	1.77	1.77	1.70	1.79	1.00	1.10	1.35	1.36	1.34	1.31	1.29	1.26	1.29	1.19	1.27	1.16	1.13	0.89	0.71	0.48	0.49	0.46	0.00	0.00	0.00	0.17	0.20	0.27	0.34	0.35	0.38	0.40	0.40	0.45	0.45	0.70	0.80	0.83
Yearly Maximums	417	412	403	392	381	368	358	343	346	341	326	306	287	267	238	209	179	156	131	110	92	80	72	70	68	68	78	94	113	128	143	158	169	181	192	203	212	218	223	221	208
Maximum Pounds per Day																																									
Maximum Pounds per Hour [a]																																									
Maximum Pounds per Month																																									
Month with Maximum																																									
Maximum Pounds per Year																																									
Maximum Average Pounds per Hour [b]																																									
Year with Maximum																																									
Tons per Year																																									

Offsite CO_2 Emissions

	CO_2 Emissions by Month																																									
Construction Step	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
Peaker and Tank Area and Stack 3&4 Demolition																																										
Total (metric tons/month)																																										
Total (metric tons/day)																																										
Block 1 Construction																																										
Total (metric tons/month)	40.51	40.51	41.47	41.47	37.91	33.12	32.33																																			
Total (metric tons/day)	1.76	1.76	1.80	1.80	1.65	1.44	1.41																																			
Block 2 Construction																																										
Total (metric tons/month)	23.24	26.95	31.22	32.11	31.41	35.93	42.59	50.78	53.25	62.05	62.89	61.31	59.21	56.23	54.29	56.39	49.30	55.60	47.20	45.11	36.20	28.69	20.58	22.04	19.94																	
Total (metric tons/day)	1.01	1.17	1.36	1.40	1.37	1.56	1.85	2.21	2.32	2.70	2.73	2.67	2.57	2.44	2.36	2.45	2.14	2.42	2.05	1.96	1.57	1.25	0.89	0.96	0.87																	
Units 1 & 2 Demolition																																										
Total (metric tons/month)																													10.96	13.22	15.60	19.77	19.65	20.60	22.55	22.55	27.08	27.08	33.87	33.87	36.13
Total (metric tons/day)																													0.48	0.57	0.68	0.86	0.85	0.90	0.98	0.98	1.18	1.18	1.47	1.47	1.57
Bldgs. 33 & 34 Construction																																										
Total (metric tons/month)																																							0.21	3.53	3.23
Total (metric tons/day)																																							0.01	0.15	0.14
Total Offsite CO_2 Emissions (Construction Vehicles)																																										
Metric Tons per Month	63.76	67.46	72.69	73.58	69.32	69.05	74.92	50.78	53.25	62.05	62.89	61.31	59.21	56.23	54.29	56.39	49.30	55.60	47.20	45.11	36.20	28.69	20.58	22.04	19.94	0.00	0.00	0.00	10.96	13.22	15.60	19.77	19.65	20.60	22.55	22.55	27.08	27.08	34.08	37.40	39.36
Metric Tons per Day	2.77	2.93	3.16	3.20	3.01	3.00	3.26	2.21	2.32	2.70	2.73	2.67	2.57	2.44	2.36	2.45	2.14	2.42	2.05	1.96	1.57	1.25	0.89	0.96	0.87	0.00	0.00	0.00	0.48	0.57	0.68	0.86	0.85	0.90	0.98	0.98	1.18	1.18	1.48	1.63	1.71
Yearly Maximums	781	777	765	747	730	710	696	669	663	646	612	570	531	492	435	381	325	286	244	212	187	170	162	164	165	172	199	233	271	299	329	358	379	398	416	432	439	440	434	418	396
Maximum Metric Tons per Day																																									
Maximum Metric Tons per Hour [a]																																									
Maximum Metric Tons per Month																																									
Month with Maximum																																									
Maximum Metric Tons per Year																																									
Maximum Average Metric Tons per Hour [b]																																									
Year with Maximum																																									

Offsite N_2O Emissions

	N_2O Emissions by Month																																									
Construction Step	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
Peaker and Tank Area and Stack 3&4 Demolition																																										
Total (metric tons/month)																																										
Total (metric tons/day)																																										
Block 1 Construction																																										
Total (metric tons/month)	0.0004092	0.0004092	0.0004199	0.0004199	0.0004148	0.0003612	0.0003522																																			
Total (metric tons/day)	0.0000178	0.0000178	0.0000183	0.0000183	0.0000180	0.0000157	0.0000153																																			
Block 2 Construction																																										
Total (metric tons/month)	0.0001724	0.0002097	0.0002381	0.0002394	0.0002664	0.0002823	0.0003124	0.0003416	0.0003885	0.0004857	0.0004882	0.0004836	0.0004774	0.0004753	0.0004710	0.0004771	0.0004497	0.0004682	0.0004436	0.0004375	0.0003373	0.0002704	0.0001791	0.0001781	0.0001720																	
Total (metric tons/day)	0.0000075	0.0000091	0.0000104	0.0000104	0.0000116	0.0000123	0.0000136	0.0000149	0.0000169	0.0000211	0.0000212	0.0000210	0.0000208	0.0000207	0.0000205	0.0000207	0.0000196	0.0000204	0.0000193	0.0000190	0.0000147	0.0000118	0.0000078	0.0000077	0.0000075																	
Units 1 & 2 Demolition																																										
Total (metric tons/month)																													0.0000492	0.0000558	0.0000826	0.0001107	0.0001156	0.0001264	0.0001294	0.0001294	0.0001427	0.0001427	0.0001625	0.0001625	0.0001692
Total (metric tons/day)																													0.0000021	0.0000024	0.0000036	0.0000048	0.0000050	0.0000055	0.0000056	0.0000056	0.0000062	0.0000062	0.0000071	0.0000071	0.0000074
Bldgs. 33 & 34 Construction																																										
Total (metric tons/month)																																							0.0000650	0.0000980	0.0001006
Total (metric tons/day)																																							0.0000028	0.0000043	0.0000044
Total Offsite N_2O Emissions (Construction Vehicles)																																										
Metric Tons per Month	0.00058	0.00062	0.00066	0.00066	0.00068	0.00064	0.00066	0.00034	0.00039	0.00049	0.00049	0.00048	0.00048	0.00048	0.00047	0.00048	0.00045	0.00047	0.00044	0.00044	0.00034	0.00027	0.00018	0.00018	0.00017	0.00000	0.00000	0.00000	0.00005	0.00006	0.00008	0.00011	0.00012	0.00013	0.00013	0.00013	0.00014	0.00014	0.00023	0.00026	0.00027
Metric Tons per Day	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00003	0.00001	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00001	0.00001	0.00001	0.00001	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
Yearly Maximums	0.00669	0.00659	0.00645	0.00626	0.00608	0.00585	0.00567	0.00545	0.00555	0.00549	0.00528	0.00497	0.00466	0.00436	0.00388	0.00341	0.00294	0.00254	0.00212	0.00176	0.00144	0.00121	0.00107	0.00102	0.00097	0.00094	0.00108	0.00131	0.00157	0.00179	0.00202	0.00222	0.00238	0.00255	0.00271	0.00288	0.00303	0.00315	0.00324	0.00323	0.00304
Maximum Metric Tons per Day																																										
Maximum Metric Tons per Hour [a]																																										
Maximum Metric Tons per Month																																										
Month with Maximum																																										
Maximum Metric Tons per Year																																										
Maximum Average Metric Tons per Hour [b]																																										
Year with Maximum																																										

Offsite CH_4 Emissions

	CH_4 Emissions by Month																																									
Construction Step	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
Peaker and Tank Area and Stack 3&4 Demolition																																										
Total (metric tons/month)																																										
Total (metric tons/day)																																										
Block 1 Construction																																										
Total (metric tons/month)	0.0019076	0.0019076	0.0019591	0.0019591	0.0019805	0.0017226	0.0016796																																			
Total (metric tons/day)	0.0000829	0.0000829	0.0000852	0.0000852	0.0000861	0.0000749	0.0000730																																			
Block 2 Construction																																										
Total (metric tons/month)	0.0007121	0.0008856	0.0009961	0.0009907	0.0011668	0.0011970	0.0012825	0.0013403	0.0015910	0.0020558	0.0020584	0.0020535	0.0020470	0.0020782	0.0020803	0.0020868	0.0020242	0.0020438	0.0020177	0.0020112	0.0015299	0.0012312	0.0007928	0.0007650	0.0007585																	
Total (metric tons/day)	0.0000310	0.0000385	0.0000433	0.0000431	0.0000507	0.0000520	0.0000558	0.0000583	0.0000692	0.0000894	0.0000895	0.0000893	0.0000890	0.0000904	0.0000904	0.0000907	0.0000880	0.0000889	0.0000877	0.0000874	0.0000665	0.0000535	0.0000345	0.0000333	0.0000330																	
Units 1 & 2 Demolition																																										
Total (metric tons/month)																													0.0001392	0.0001463	0.0002752	0.0003854	0.0004174	0.0004690	0.0004588	0.0004588	0.0004729	0.0004729	0.0004940	0.0004940	0.0005011
Total (metric tons/day)																													0.0000061	0.0000064	0.0000120	0.0000168	0.0000181	0.0000204	0.0000199	0.0000199	0.0000206	0.0000206	0.0000215	0.0000215	0.0000218
Bldgs. 33 & 34 Construction																																										
Total (metric tons/month)																																							0.0003100	0.0004321	0.0004484
Total (metric tons/day)																																							0.0000135	0.0000188	0.0000195
Total Offsite CH_4 Emissions (Construction Vehicles)																																										
Metric Tons per Month	0.00262	0.00279	0.00296	0.00295	0.00315	0.00292	0.00296	0.00134	0.00159	0.00206	0.00206	0.00205	0.00205	0.00208	0.00208	0.00209	0.00202	0.00204	0.00202	0.00201	0.00153	0.00123	0.00079	0.00076	0.00076	0.00000	0.00000	0.00000	0.00014	0.00015	0.00028	0.00039	0.00042	0.00047	0.00046	0.00046	0.00047	0.00047	0.00080	0.00093	0.00095
Metric Tons per Day	0.00011	0.00012	0.00013	0.00013	0.00014	0.00013	0.00013	0.00006	0.00007	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00009	0.00007	0.00005	0.00003	0.00003	0.00003	0.00000	0.00000	0.00000	0.00001	0.00001	0.00001	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00002	0.00003	0.00004	0.00004
Yearly Maximums	0.02945	0.02887	0.02816	0.02728	0.02642	0.02530	0.02442	0.02348	0.02415	0.02409	0.02326	0.02200	0.02071	0.01942	0.01734	0.01526	0.01317	0.01129	0.00939	0.00765	0.00602	0.00491	0.00415	0.00381	0.00351	0.00322	0.00370	0.00450	0.00543	0.00624	0.00705	0.00773	0.00830	0.00892	0.00949	0.01012	0.01077	0.01130	0.01178	0.01187	0.01111
Maximum Metric Tons per Day																																										
Maximum Metric Tons per Hour [a]																																										
Maximum Metric Tons per Month																																										
Month with Maximum																																										
Maximum Metric Tons per Year																																										
Maximum Average Metric Tons per Hour [b]																																										
Year with Maximum																																										

Notes:
[a] The hours per day are per 'Manpower Schedule Huntington
[b] The hours per year are assumed to allow operation 24 hours p
[c] There are no offsite activities generating fugitive dust during P

Table 5.1A.47R Offsite Construction
Exhaust and Fugitive Emissions
Summary

Offsite CO Emissions

Construction Step	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition											
Total (lbs/month)											
Total (lbs/day)											
Block 1 Construction											
Total (lbs/month)											
Total (lbs/day)											
Block 2 Construction											
Total (lbs/month)											
Total (lbs/day)											
Units 1 & 2 Demolition											
Total (lbs/month)	112.95	112.95	112.95	112.95	112.95	112.95	94.05	91.49	60.81	53.14	41.12
Total (lbs/day)	4.91	4.91	4.91	4.91	4.91	4.91	4.09	3.98	2.64	2.31	1.79
Bldgs. 33 & 34 Construction											
Total (lbs/month)	64.92	65.86	61.31	68.68	69.26	75.93	83.71	70.38	88.15	84.82	0.37
Total (lbs/day)	2.82	2.86	2.67	2.99	3.01	3.30	3.64	3.06	3.83	3.69	0.02
Total Offsite CO Emissions (Construction Vehicles)											
Pounds per Month	**177.87**	**178.80**	**174.25**	**181.63**	**182.21**	**188.88**	**177.76**	**161.87**	**148.97**	**137.96**	**41.50**
Pounds per Day	**7.73**	**7.77**	**7.58**	**7.90**	**7.92**	**8.21**	**7.73**	**7.04**	**6.48**	**6.00**	**1.80**
Yearly Maximums											
Maximum Pounds per Day											
Maximum Pounds per Hour [a]											
Maximum Pounds per Month											
Month with Maximum											
Maximum Pounds per Year											
Maximum Average Pounds per Hour [b]											
Year with Maximum											
Tons per Year											

Offsite VOC Emissions

Construction Step	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition											
Total (lbs/month)											
Total (lbs/day)											
Block 1 Construction											
Total (lbs/month)											
Total (lbs/day)											
Block 2 Construction											
Total (lbs/month)											
Total (lbs/day)											
Units 1 & 2 Demolition											
Total (lbs/month)	10.10	10.10	10.10	10.10	10.10	10.10	7.38	7.14	5.44	4.71	4.09
Total (lbs/day)	0.44	0.44	0.44	0.44	0.44	0.44	0.32	0.31	0.24	0.20	0.18
Bldgs. 33 & 34 Construction											
Total (lbs/month)	2.22	2.70	1.47	1.20	1.14	1.24	1.36	1.15	1.43	1.38	0.07
Total (lbs/day)	0.10	0.12	0.06	0.05	0.05	0.05	0.06	0.05	0.06	0.06	0.00
Total Offsite VOC Emissions (Construction Vehicles)											
Pounds per Month	**12.33**	**12.80**	**11.58**	**11.31**	**11.24**	**11.34**	**8.74**	**8.29**	**6.87**	**6.09**	**4.15**
Pounds per Day	**0.54**	**0.56**	**0.50**	**0.49**	**0.49**	**0.49**	**0.38**	**0.36**	**0.30**	**0.26**	**0.18**
Yearly Maximums											
Maximum Pounds per Day											
Maximum Pounds per Hour [a]											
Maximum Pounds per Month											
Month with Maximum											
Maximum Pounds per Year											
Maximum Average Pounds per Hour [b]											
Year with Maximum											
Tons per Year											

Offsite NOx Emissions

Construction Step	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition											
Total (lbs/month)											
Total (lbs/day)											
Block 1 Construction											
Total (lbs/month)											
Total (lbs/day)											
Block 2 Construction											
Total (lbs/month)											
Total (lbs/day)											
Units 1 & 2 Demolition											
Total (lbs/month)	128.11	128.11	130.29	130.29	130.29	130.29	96.53	93.41	69.92	60.56	52.29
Total (lbs/day)	5.57	5.57	5.66	5.66	5.66	5.66	4.20	4.06	3.04	2.63	2.27
Bldgs. 33 & 34 Construction											
Total (lbs/month)	23.98	31.02	26.19	24.25	23.56	25.77	28.34	23.93	29.81	28.71	0.78
Total (lbs/day)	1.04	1.35	1.14	1.05	1.02	1.12	1.23	1.04	1.30	1.25	0.03
Total Offsite NOx Emissions (Construction Vehicles)											
Pounds per Month	**152.10**	**159.14**	**156.47**	**154.53**	**153.85**	**156.06**	**124.87**	**117.34**	**99.73**	**89.27**	**53.07**
Pounds per Day	**6.61**	**6.92**	**6.80**	**6.72**	**6.69**	**6.79**	**5.43**	**5.10**	**4.34**	**3.88**	**2.31**
Yearly Maximums											
Maximum Pounds per Day											
Maximum Pounds per Hour [a]											
Maximum Pounds per Month											
Month with Maximum											
Maximum Pounds per Year											
Maximum Average Pounds per Hour [b]											
Year with Maximum											
Tons per Year											

Table 5.1A.47R Offsite Construction Exhaust and Fugitive Emissions Summary

Offsite SOx Emissions

Construction Step	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition											
Total (lbs/month)											
Total (lbs/day)											
Block 1 Construction											
Total (lbs/month)											
Total (lbs/day)											
Block 2 Construction											
Total (lbs/month)											
Total (lbs/day)											
Units 1 & 2 Demolition											
Total (lbs/month)	0.812	0.812	0.812	0.812	0.812	0.812	0.616	0.597	0.435	0.377	0.321
Total (lbs/day)	0.035	0.035	0.035	0.035	0.035	0.035	0.027	0.026	0.019	0.016	0.014
Bldgs. 33 & 34 Construction											
Total (lbs/month)	0.280	0.311	0.227	0.228	0.225	0.246	0.271	0.229	0.286	0.275	0.004
Total (lbs/day)	0.012	0.014	0.010	0.010	0.010	0.011	0.012	0.010	0.012	0.012	0.000
Total Offsite SOx Emissions (Construction Vehicles)											
Pounds per Month	**1.092**	**1.123**	**1.039**	**1.040**	**1.037**	**1.059**	**0.888**	**0.826**	**0.721**	**0.652**	**0.325**
Pounds per Day	**0.047**	**0.049**	**0.045**	**0.045**	**0.045**	**0.046**	**0.039**	**0.036**	**0.031**	**0.028**	**0.014**
Yearly Maximums											
Maximum Pounds per Day											
Maximum Pounds per Hour [a]											
Maximum Pounds per Month											
Month with Maximum											
Maximum Pounds per Year											
Maximum Average Pounds per Hour [b]											
Year with Maximum											
Tons per Year											

Offsite Exhaust PM_{10} Emissions

Construction Step	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition											
Total (lbs/month)											
Total (lbs/day)											
Block 1 Construction											
Total (lbs/month)											
Total (lbs/day)											
Block 2 Construction											
Total (lbs/month)											
Total (lbs/day)											
Units 1 & 2 Demolition											
Total (lbs/month)	37.18	37.18	36.88	36.88	36.88	36.88	30.45	29.61	19.83	17.31	13.55
Total (lbs/day)	1.62	1.62	1.60	1.60	1.60	1.60	1.32	1.29	0.86	0.75	0.59
Bldgs. 33 & 34 Construction											
Total (lbs/month)	21.64	22.07	20.26	22.60	22.78	24.97	27.52	23.14	28.99	27.89	0.13
Total (lbs/day)	0.94	0.96	0.88	0.98	0.99	1.09	1.20	1.01	1.26	1.21	0.01
Total Offsite Exhaust PM_{10} Emissions (Construction Vehicles)											
Pounds per Month	**58.82**	**59.24**	**57.14**	**59.48**	**59.65**	**61.85**	**57.98**	**52.75**	**48.81**	**45.20**	**13.68**
Pounds per Day	**2.56**	**2.58**	**2.48**	**2.59**	**2.59**	**2.69**	**2.52**	**2.29**	**2.12**	**1.97**	**0.59**
Yearly Maximums											
Maximum Pounds per Day											
Maximum Pounds per Hour [a]											
Maximum Pounds per Month											
Month with Maximum											
Maximum Pounds per Year											
Maximum Average Pounds per Hour [b]											
Year with Maximum											
Tons per Year											

Offsite Fugitive PM_{10} Emissions

Construction Step	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition [c]											
Total (lbs/month)											
Total (lbs/day)											
Block 1 Construction											
Total (lbs/month)											
Total (lbs/day)											
Block 2 Construction											
Total (lbs/month)											
Total (lbs/day)											
Units 1 & 2 Demolition [c]											
Total (lbs/month)											
Total (lbs/day)											
Bldgs. 33 & 34 Construction [c]											
Total (lbs/month)											
Total (lbs/day)											
Total Offsite Fugitive PM_{10} Emissions (Grading)											
Pounds per Month	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Pounds per Day	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
Yearly Maximums											
Maximum Pounds per Day											
Maximum Pounds per Hour [a]											
Maximum Pounds per Month											
Month with Maximum											
Maximum Pounds per Year											
Maximum Average Pounds per Hour [b]											
Year with Maximum											
Tons per Year											

Table 5.1A.47R Offsite Construction Exhaust and Fugitive Emissions Summary

Total Offsite PM_{10} Emissions (Exhaust and Fugitive)

Parameter	80	81	82	83	84	85	86	87	88	89	90
Pounds per Month	58.82	59.24	57.14	59.48	59.65	61.85	57.98	52.75	48.81	45.20	13.68
Pounds per Day	2.56	2.58	2.48	2.59	2.59	2.69	2.52	2.29	2.12	1.97	0.59
Yearly Maximums											
Maximum Pounds per Day											
Maximum Pounds per Hour [a]											
Maximum Pounds per Month											
Month with Maximum											
Maximum Pounds per Year											
Maximum Average Pounds per Hour [b]											
Year with Maximum											
Tons per Year											

Offsite Exhaust $PM_{2.5}$ Emissions

Construction Step	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition											
Total (lbs/month)											
Total (lbs/day)											
Block 1 Construction											
Total (lbs/month)											
Total (lbs/day)											
Block 2 Construction											
Total (lbs/month)											
Total (lbs/day)											
Units 1 & 2 Demolition											
Total (lbs/month)	13.58	13.58	13.31	13.31	13.31	13.31	10.63	10.32	7.14	6.22	5.04
Total (lbs/day)	0.59	0.59	0.58	0.58	0.58	0.58	0.46	0.45	0.31	0.27	0.22
Bldgs. 33 & 34 Construction											
Total (lbs/month)	6.55	6.86	5.87	6.38	6.40	7.01	7.73	6.50	8.14	7.83	0.06
Total (lbs/day)	0.28	0.30	0.26	0.28	0.28	0.30	0.34	0.28	0.35	0.34	0.00
Total Offsite Exhaust $PM_{2.5}$ Emissions (Construction Vehicles)											
Pounds per Month	20.13	20.43	19.17	19.68	19.70	20.32	18.36	16.82	15.28	14.05	5.09
Pounds per Day	0.88	0.89	0.83	0.86	0.86	0.88	0.80	0.73	0.66	0.61	0.22
Yearly Maximums											
Maximum Pounds per Day											
Maximum Pounds per Hour [a]											
Maximum Pounds per Month											
Month with Maximum											
Maximum Pounds per Year											
Maximum Average Pounds per Hour [b]											
Year with Maximum											
Tons per Year											

Offsite Fugitive $PM_{2.5}$ Emissions

Construction Step	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition [c]											
Total (lbs/month)											
Total (lbs/day)											
Block 1 Construction											
Total (lbs/month)											
Total (lbs/day)											
Block 2 Construction											
Total (lbs/month)											
Total (lbs/day)											
Units 1 & 2 Demolition [c]											
Total (lbs/month)											
Total (lbs/day)											
Bldgs. 33 & 34 Construction [c]											
Total (lbs/month)											
Total (lbs/day)											
Total Offsite Fugitive $PM_{2.5}$ Emissions (Grading)											
Pounds per Month	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Pounds per Day	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Yearly Maximums											
Maximum Pounds per Day											
Maximum Pounds per Hour [a]											
Maximum Pounds per Month											
Month with Maximum											
Maximum Pounds per Year											
Maximum Average Pounds per Hour [b]											
Year with Maximum											
Tons per Year											

Table 5.1A.47R Offsite Construction Exhaust and Fugitive Emissions Summary

Total Offsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

Parameter	80	81	82	83	84	85	86	87	88	89	90
Pounds per Month	20.13	20.43	19.17	19.68	19.70	20.32	18.36	16.82	15.28	14.05	5.09
Pounds per Day	0.88	0.89	0.83	0.86	0.86	0.88	0.80	0.73	0.66	0.61	0.22
Yearly Maximums											
Maximum Pounds per Day											
Maximum Pounds per Hour [a]											
Maximum Pounds per Month											
Month with Maximum											
Maximum Pounds per Year											
Maximum Average Pounds per Hour [b]											
Year with Maximum											
Tons per Year											

Offsite CO_2 Emissions

Construction Step	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition											
Total (metric tons/month)											
Total (metric tons/day)											
Block 1 Construction											
Total (metric tons/month)											
Total (metric tons/day)											
Block 2 Construction											
Total (metric tons/month)											
Total (metric tons/day)											
Units 1 & 2 Demolition											
Total (metric tons/month)	38.40	38.40	38.40	38.40	38.40	38.40	29.02	28.11	20.57	17.83	15.21
Total (metric tons/day)	1.67	1.67	1.67	1.67	1.67	1.67	1.26	1.22	0.89	0.78	0.66
Bldgs. 33 & 34 Construction											
Total (metric tons/month)	4.74	6.55	2.02	0.51	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Total (metric tons/day)	0.21	0.28	0.09	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total Offsite CO_2 Emissions (Construction Vehicles)											
Metric Tons per Month	43.13	44.94	40.42	38.91	38.61	38.61	29.23	28.32	20.78	18.04	15.42
Metric Tons per Day	1.88	1.95	1.76	1.69	1.68	1.68	1.27	1.23	0.90	0.78	0.67
Yearly Maximums											
Maximum Metric Tons per Day											
Maximum Metric Tons per Hour [a]											
Maximum Metric Tons per Month											
Month with Maximum											
Maximum Metric Tons per Year											
Maximum Average Metric Tons per Hour [b]											
Year with Maximum											

Offsite N_2O Emissions

Construction Step	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition											
Total (metric tons/month)											
Total (metric tons/day)											
Block 1 Construction											
Total (metric tons/month)											
Total (metric tons/day)											
Block 2 Construction											
Total (metric tons/month)											
Total (metric tons/day)											
Units 1 & 2 Demolition											
Total (metric tons/month)	0.0001758	0.0001758	0.0001758	0.0001758	0.0001758	0.0001758	0.0001457	0.0001417	0.0000945	0.0000825	0.0000644
Total (metric tons/day)	0.0000076	0.0000076	0.0000076	0.0000076	0.0000076	0.0000076	0.0000063	0.0000062	0.0000041	0.0000036	0.0000028
Bldgs. 33 & 34 Construction											
Total (metric tons/month)	0.0001051	0.0001068	0.0000989	0.0001106	0.0001115	0.0001222	0.0001347	0.0001133	0.0001419	0.0001365	0.0000006
Total (metric tons/day)	0.0000046	0.0000046	0.0000043	0.0000048	0.0000048	0.0000053	0.0000059	0.0000049	0.0000062	0.0000059	0.0000000
Total Offsite N_2O Emissions (Construction Vehicles)											
Metric Tons per Month	0.00028	0.00028	0.00027	0.00029	0.00029	0.00030	0.00028	0.00025	0.00024	0.00022	0.00006
Metric Tons per Day	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00000
Yearly Maximums											
Maximum Metric Tons per Day											
Maximum Metric Tons per Hour [a]											
Maximum Metric Tons per Month											
Month with Maximum											
Maximum Metric Tons per Year											
Maximum Average Metric Tons per Hour [b]											
Year with Maximum											

Offsite CH_4 Emissions

Construction Step	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition											
Total (metric tons/month)											
Total (metric tons/day)											
Block 1 Construction											
Total (metric tons/month)											
Total (metric tons/day)											
Block 2 Construction											
Total (metric tons/month)											
Total (metric tons/day)											
Units 1 & 2 Demolition											
Total (metric tons/month)	0.0005081	0.0005081	0.0005081	0.0005081	0.0005081	0.0005081	0.0004628	0.0004518	0.0002744	0.0002416	0.0001688
Total (metric tons/day)	0.0000221	0.0000221	0.0000221	0.0000221	0.0000221	0.0000221	0.0000201	0.0000196	0.0000119	0.0000105	0.0000073
Bldgs. 33 & 34 Construction											
Total (metric tons/month)	0.0004530	0.0004415	0.0004532	0.0005259	0.0005335	0.0005851	0.0006452	0.0005421	0.0008796	0.0006538	0.0000006
Total (metric tons/day)	0.0000197	0.0000192	0.0000197	0.0000229	0.0000232	0.0000254	0.0000281	0.0000236	0.0000295	0.0000284	0.0000000
Total Offsite CH_4 Emissions (Construction Vehicles)											
Metric Tons per Month	0.00096	0.00095	0.00096	0.00103	0.00104	0.00109	0.00111	0.00099	0.00095	0.00090	0.00017
Metric Tons per Day	0.00004	0.00004	0.00004	0.00004	0.00005	0.00005	0.00005	0.00004	0.00004	0.00004	0.00001
Yearly Maximums											
Maximum Metric Tons per Day											
Maximum Metric Tons per Hour [a]											
Maximum Metric Tons per Month											
Month with Maximum											
Maximum Metric Tons per Year											
Maximum Average Metric Tons per Hour [b]											
Year with Maximum											

Notes:
[a] The hours per day are per 'Manpower Schedule Huntington
[b] The hours per year are assumed to allow operation 24 hours p
[c] There are no offsite activities generating fugitive dust during P

Table 5.1A.48R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Onsite and Offsite CO Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Peaker and Tank Area and Stack 3&4 Demolition															
Total (lbs/month)	642.99	660.88	663.01	854.07	935.47	942.72	973.05	979.54	1,117.96	1,075.47	1,068.40	1,040.28	1,168.32	1,138.67	1,128.50
Total (lbs/day)	27.96	28.73	28.83	37.13	40.67	40.99	42.31	42.59	48.61	46.76	46.45	45.23	50.80	49.51	49.07
Block 1 Construction															
Total (lbs/month)															
Total (lbs/day)															
Block 2 Construction															
Total (lbs/month)															
Total (lbs/day)															
Units 1 & 2 Demolition															
Total (lbs/month)															
Total (lbs/day)															
Bldgs. 33 & 34 Construction															
Total (lbs/month)															
Total (lbs/day)															
Total Onsite and Offsite CO Emissions (Construction Equipment and Vehicles)															
Pounds per Month	642.99	660.88	663.01	854.07	935.47	942.72	973.05	979.54	1,117.96	1,075.47	1,068.40	1,040.28	1,168.32	1,138.67	1,128.50
Pounds per Day	27.96	28.73	28.83	37.13	40.67	40.99	42.31	42.59	48.61	46.76	46.45	45.23	50.80	49.51	49.07
Yearly Maximums	10,954	11,479	11,957	12,422	12,866	13,285	13,567	13,912	13,870	13,480	13,218	12,971	12,816	12,552	12,312
Maximum Pounds per Day	88.11														
Maximum Pounds per Hour [a]	8.81														
Maximum Pounds per Month	2,026.42														
Month with Maximum	38														
Maximum Pounds per Year	18,261														
Maximum Average Pounds per Hour [b]	2.08														
Year with Maximum	Months 36 - 47														
Tons per Year	9.13														

Construction Step	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Peaker and Tank Area and Stack 3&4 Demolition																		
Total (lbs/month)																		
Total (lbs/day)																		
Block 1 Construction																		
Total (lbs/month)	1,297.31	1,354.96	1,224.85	1,317.31	938.18	727.52	813.73	820.99	885.59	904.44	898.41	896.26	967.26	843.49	813.11	818.66	855.03	871.45
Total (lbs/day)	56.40	58.91	53.25	57.27	40.79	31.63	35.38	35.70	38.50	39.32	39.06	38.97	42.05	36.67	35.35	35.59	37.18	37.89
Block 2 Construction																		
Total (lbs/month)																		
Total (lbs/day)																		
Units 1 & 2 Demolition																		
Total (lbs/month)																		
Total (lbs/day)																		
Bldgs. 33 & 34 Construction																		
Total (lbs/month)																		
Total (lbs/day)																		
Total Onsite and Offsite CO Emissions (Construction Equipment and Vehicles)																		
Pounds per Month	1,297.31	1,354.96	1,224.85	1,317.31	938.18	727.52	813.73	820.99	885.59	904.44	898.41	896.26	967.26	843.49	813.11	818.66	855.03	871.45
Pounds per Day	56.40	58.91	53.25	57.27	40.79	31.63	35.38	35.70	38.50	39.32	39.06	38.97	42.05	36.67	35.35	35.59	37.18	37.89
Yearly Maximums	12,080	11,749	11,238	10,826	10,328	10,244	10,388	10,369	10,364	10,703	11,819	12,947	13,801	14,608	15,346	15,932	16,529	17,243

Onsite and Offsite VOC Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Peaker and Tank Area and Stack 3&4 Demolition															
Total (lbs/month)	133.56	134.08	145.58	180.13	190.54	190.77	194.42	194.77	215.47	201.84	201.90	206.17	229.67	225.12	224.90
Total (lbs/day)	5.81	5.83	6.33	7.83	8.28	8.29	8.45	8.47	9.37	8.78	8.78	8.96	9.99	9.79	9.78
Block 1 Construction															
Total (lbs/month)															
Total (lbs/day)															
Block 2 Construction															
Total (lbs/month)															
Total (lbs/day)															
Units 1 & 2 Demolition															
Total (lbs/month)															
Total (lbs/day)															
Bldgs. 33 & 34 Construction															
Total (lbs/month)															
Total (lbs/day)															
Total Onsite and Offsite VOC Emissions (Construction Equipment and Vehicles)															
Pounds per Month	133.56	134.08	145.58	180.13	190.54	190.77	194.42	194.77	215.47	201.84	201.90	206.17	229.67	225.12	224.90
Pounds per Day	5.81	5.83	6.33	7.83	8.28	8.29	8.45	8.47	9.37	8.78	8.78	8.96	9.99	9.79	9.78
Yearly Maximums	2,189	2,285	2,376	2,456	2,512	2,559	2,577	2,618	2,589	2,502	2,454	2,407	2,370	2,310	2,243
Maximum Pounds per Day	12.67														
Maximum Pounds per Hour [a]	1.27														
Maximum Pounds per Month	291.39														
Month with Maximum	37														
Maximum Pounds per Year	2,618														
Maximum Average Pounds per Hour [b]	0.30														
Year with Maximum	Months 8 - 19														
Tons per Year	1.31														

Construction Step	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Peaker and Tank Area and Stack 3&4 Demolition																		
Total (lbs/month)																		
Total (lbs/day)																		
Block 1 Construction																		
Total (lbs/month)	236.31	237.62	208.85	235.47	166.17	127.60	153.83	155.06	169.34	169.72	157.86	158.90	174.03	155.61	142.66	142.66	142.95	141.98
Total (lbs/day)	10.27	10.33	9.08	10.24	7.22	5.55	6.69	6.74	7.36	7.38	6.86	6.91	7.57	6.77	6.20	6.20	6.22	6.17
Block 2 Construction																		
Total (lbs/month)																		
Total (lbs/day)																		
Units 1 & 2 Demolition																		
Total (lbs/month)																		
Total (lbs/day)																		
Bldgs. 33 & 34 Construction																		
Total (lbs/month)																		
Total (lbs/day)																		
Total Onsite and Offsite VOC Emissions (Construction Equipment and Vehicles)																		
Pounds per Month	236.31	237.62	208.85	235.47	166.17	127.60	153.83	155.06	169.34	169.72	157.86	158.90	174.03	155.61	142.66	142.66	142.95	141.98
Pounds per Day	10.27	10.33	9.08	10.24	7.22	5.55	6.69	6.74	7.36	7.38	6.86	6.91	7.57	6.77	6.20	6.20	6.22	6.17
Yearly Maximums	2,177	2,114	2,032	1,966	1,873	1,850	1,865	1,826	1,786	1,797	1,918	2,049	2,127	2,188	2,236	2,280	2,322	2,397

Onsite and Offsite NOx Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Peaker and Tank Area and Stack 3&4 Demolition															
Total (lbs/month)	897.45	902.00	1,025.80	1,291.88	1,385.50	1,387.61	1,451.33	1,456.20	1,601.69	1,334.39	1,337.52	1,366.54	1,520.76	1,448.19	1,447.30
Total (lbs/day)	39.02	39.22	44.60	56.17	60.24	60.33	63.10	63.31	69.64	58.02	58.15	59.41	66.12	62.96	62.93
Block 1 Construction															
Total (lbs/month)															
Total (lbs/day)															
Block 2 Construction															
Total (lbs/month)															
Total (lbs/day)															
Units 1 & 2 Demolition															
Total (lbs/month)															
Total (lbs/day)															
Bldgs. 33 & 34 Construction															
Total (lbs/month)															
Total (lbs/day)															
Total Onsite and Offsite NOx Emissions (Construction Equipment and Vehicles)															
Pounds per Month	897.45	902.00	1,025.80	1,291.88	1,385.50	1,387.61	1,451.33	1,456.20	1,601.69	1,334.39	1,337.52	1,366.54	1,520.76	1,448.19	1,447.30
Pounds per Day	39.02	39.22	44.60	56.17	60.24	60.33	63.10	63.31	69.64	58.02	58.15	59.41	66.12	62.96	62.93
Yearly Maximums	15,438	16,061	16,607	17,029	17,185	17,256	17,158	17,226	16,928	16,240	15,935	15,646	15,445	15,091	14,728
Maximum Pounds per Day	79.50														
Maximum Pounds per Hour [a]	7.95														
Maximum Pounds per Month	1,828.61														
Month with Maximum	37														
Maximum Pounds per Year	17,256														
Maximum Average Pounds per Hour [b]	1.97														
Year with Maximum	Months 6 - 17														
Tons per Year	8.63														

Construction Step	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Peaker and Tank Area and Stack 3&4 Demolition																		
Total (lbs/month)																		
Total (lbs/day)																		
Block 1 Construction																		
Total (lbs/month)	1,447.99	1,456.59	1,289.53	1,519.50	1,158.11	913.29	1,029.53	1,048.68	1,165.27	1,166.90	1,085.71	1,104.03	1,233.53	1,128.52	1,026.01	1,024.64	1,020.39	999.60
Total (lbs/day)	62.96	63.33	56.07	66.07	50.35	39.71	44.76	45.59	50.66	50.73	47.20	48.00	53.63	49.07	44.61	44.55	44.36	43.46
Block 2 Construction																		
Total (lbs/month)																		
Total (lbs/day)																		
Units 1 & 2 Demolition																		
Total (lbs/month)																		
Total (lbs/day)																		
Bldgs. 33 & 34 Construction																		
Total (lbs/month)																		
Total (lbs/day)																		
Total Onsite and Offsite NOx Emissions (Construction Equipment and Vehicles)																		
Pounds per Month	1,447.99	1,456.59	1,289.53	1,519.50	1,158.11	913.29	1,029.53	1,048.68	1,165.27	1,166.90	1,085.71	1,104.03	1,233.53	1,128.52	1,026.01	1,024.64	1,020.39	999.60
Pounds per Day	62.96	63.33	56.07	66.07	50.35	39.71	44.76	45.59	50.66	50.73	47.20	48.00	53.63	49.07	44.61	44.55	44.36	43.46
Yearly Maximums	14,385	14,171	13,843	13,579	13,084	12,947	13,033	12,707	12,364	12,312	12,973	13,676	14,059	14,317	14,479	14,693	14,866	15,252

Table 5.1A.48R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Onsite and Offsite SOx Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)	1.2315	1.2777	1.4953	1.9408	2.1639	2.1831	2.3751	2.3984	2.6490	2.4762	2.4688	2.3946	2.6118	2.3841	2.3611																		
Total (lbs/day)	0.0535	0.0556	0.0650	0.0844	0.0941	0.0949	0.1033	0.1043	0.1152	0.1077	0.1073	0.1041	0.1136	0.1037	0.1027																		
Block 1 Construction																																	
Total (lbs/month)																2.3693	2.5171	2.3550	2.7489	2.1512	1.8074	2.1910	2.2565	2.5269	2.5729	2.5261	2.5687	2.8866	2.6891	2.5309	2.5396	2.6092	2.5919
Total (lbs/day)																0.1030	0.1094	0.1024	0.1195	0.0935	0.0786	0.0953	0.0981	0.1099	0.1119	0.1098	0.1117	0.1255	0.1169	0.1100	0.1104	0.1134	0.1127
Block 2 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Total Onsite and Offsite SOx Emissions (Construction Equipment and Vehicles)																																	
Pounds per Month	1.2315	1.2777	1.4953	1.9408	2.1639	2.1831	2.3751	2.3984	2.6490	2.4762	2.4688	2.3946	2.6118	2.3841	2.3611	2.3693	2.5171	2.3550	2.7489	2.1512	1.8074	2.1910	2.2565	2.5269	2.5729	2.5261	2.5687	2.8866	2.6891	2.5309	2.5396	2.6092	2.5919
Pounds per Day	0.0535	0.0556	0.0650	0.0844	0.0941	0.0949	0.1033	0.1043	0.1152	0.1077	0.1073	0.1041	0.1136	0.1037	0.1027	0.1030	0.1094	0.1024	0.1195	0.0935	0.0786	0.0953	0.0981	0.1099	0.1119	0.1098	0.1117	0.1255	0.1169	0.1100	0.1104	0.1134	0.1127
Yearly Maximums	25	26	28	28	29	29	29	30	29	29	28	28	28	28	28	29	29	29	29	29	30	30	31	31	31	33	35	37	38	39	41	42	44
Maximum Pounds per Day	0.20																																
Maximum Pounds per Hour [a]	0.02																																
Maximum Pounds per Month	4.56																																
Month with Maximum	37																																
Maximum Pounds per Year	47																																
Maximum Average Pounds per Hour [b]	0.01																																
Year with Maximum	Months 37 - 48																																
Tons per Year	0.02																																

Onsite and Offsite Exhaust PM_{10} Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)	57.72	61.64	64.06	80.49	89.85	91.45	99.69	101.21	110.90	97.38	95.96	92.46	99.70	91.36	89.17																		
Total (lbs/day)	2.51	2.68	2.79	3.50	3.91	3.98	4.33	4.40	4.82	4.23	4.17	4.02	4.33	3.97	3.88																		
Block 1 Construction																																	
Total (lbs/month)																100.02	113.49	101.04	112.01	90.95	75.71	79.02	81.22	90.91	95.29	100.23	100.24	111.76	107.39	105.96	107.20	115.44	118.64
Total (lbs/day)																4.32	4.89	4.30	4.77	3.75	3.09	3.21	3.21	3.57	3.76	3.88	3.78	4.16	3.93	3.87	3.93	4.33	4.59
Block 2 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Total Onsite and Offsite Exhaust PM_{10} Emissions (Construction Equipment and Vehicles)																																	
Pounds per Month	57.72	61.64	64.06	80.49	89.85	91.45	99.69	101.21	110.90	97.38	95.96	92.46	99.70	91.36	89.17	100.02	113.49	101.04	112.01	90.95	75.71	79.02	81.22	90.91	95.29	100.23	100.24	111.76	107.39	105.96	107.20	115.44	118.64
Pounds per Day	2.51	2.68	2.79	3.50	3.91	3.98	4.33	4.40	4.82	4.23	4.17	4.02	4.33	3.97	3.88	4.32	4.89	4.30	4.77	3.75	3.09	3.21	3.21	3.57	3.76	3.88	3.78	4.16	3.93	3.87	3.93	4.33	4.59
Yearly Maximums	1,043	1,085	1,114	1,140	1,159	1,183	1,192	1,205	1,194	1,159	1,141	1,126	1,125	1,120	1,129	1,140	1,152	1,146	1,151	1,146	1,170	1,213	1,241	1,273	1,331	1,439	1,543	1,636	1,726	1,816	1,899	1,985	2,066
Maximum Pounds per Day	8.87																																
Maximum Pounds per Hour [a]	0.89																																
Maximum Pounds per Month	204.76																																
Month with Maximum	45																																
Maximum Pounds per Year	2,158																																
Maximum Average Pounds per Hour [b]	0.25																																
Year with Maximum	Months 36 - 47																																
Tons per Year	1.08																																

Onsite and Offsite Fugitive PM_{10} Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)	280.73	280.73	329.76	329.76	329.76	329.76	329.76	329.76	329.76	329.76	329.76	280.73	280.73	280.73	280.73																		
Total (lbs/day)	12.21	12.21	14.34	14.34	14.34	14.34	14.34	14.34	14.34	14.34	14.34	12.21	12.21	12.21	12.21																		
Block 1 Construction																																	
Total (lbs/month)																1,492.25	1,492.25	869.58	869.58	868.16	245.49	220.98	220.98	220.98	220.98	171.95	171.95	171.95	171.95	171.95	171.95	171.95	171.95
Total (lbs/day)																64.88	64.88	37.81	37.81	37.75	10.67	9.61	9.61	9.61	9.61	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48
Block 2 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Total Onsite and Offsite Fugitive PM_{10} Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																																	
Pounds per Month	280.73	280.73	329.76	329.76	329.76	329.76	329.76	329.76	329.76	329.76	329.76	280.73	280.73	280.73	280.73	1,492.25	1,492.25	869.58	869.58	868.16	245.49	220.98	220.98	220.98	220.98	171.95	171.95	171.95	171.95	171.95	171.95	171.95	171.95
Pounds per Day	12.21	12.21	14.34	14.34	14.34	14.34	14.34	14.34	14.34	14.34	14.34	12.21	12.21	12.21	12.21	64.88	64.88	37.81	37.81	37.75	10.67	9.61	9.61	9.61	9.61	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48
Yearly Maximums	3,810	3,810	3,810	3,761	4,924	6,086	6,626	7,166	7,704	7,620	7,511	7,402	7,342	7,283	7,174	7,065	5,745	4,425	3,727	3,029	2,333	2,260	2,210	2,161	2,859	4,301	5,793	6,662	7,506	8,350	8,571	8,767	8,965
Maximum Pounds per Day	72.33																																
Maximum Pounds per Hour [a]	7.23																																
Maximum Pounds per Month	1,663.48																																
Month with Maximum	37 or 38																																
Maximum Pounds per Year	10,439																																
Maximum Average Pounds per Hour [b]	1.19																																
Year with Maximum	Months 77 - 88 or 78 - 89																																
Tons per Year	5.22																																

Table 5.1A.48R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite and Offsite PM_{10} Emissions (Exhaust and Fugitive)

Parameter	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Pounds per Month	338.45	342.38	393.82	410.26	419.61	421.21	429.45	430.97	440.66	427.14	425.72	373.20	380.44	372.09	369.90	1,592.27	1,605.74	970.62	981.59	959.11	321.20	300.00	302.20	311.88	316.26	272.18	272.19	283.71	279.34	277.91	279.15	287.39	290.59
Pounds per Day	14.72	14.89	17.12	17.84	18.24	18.31	18.67	18.74	19.16	18.57	18.51	16.23	16.54	16.18	16.08	69.20	69.77	42.11	42.57	41.50	13.76	12.82	12.82	13.18	13.37	11.35	11.26	11.63	11.40	11.35	11.41	11.81	12.06
Yearly Maximums	4,853	4,895	4,925	4,901	6,083	7,269	7,818	8,370	8,898	8,779	8,652	8,528	8,467	8,403	8,303	8,205	6,897	5,570	4,878	4,175	3,503	3,473	3,452	3,434	4,190	5,740	7,335	8,298	9,232	10,166	10,470	10,752	11,031

Maximum Pounds per Day	80.99
Maximum Pounds per Hour [a]	8.10
Maximum Pounds per Month	1,867.83
Month with Maximum	38
Maximum Pounds per Year	11,619
Maximum Average Pounds per Hour [b]	1.33
Year with Maximum	Months 77 - 88
Tons per Year	5.81

Onsite and Offsite Exhaust $PM_{2.5}$ Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)	57.55	58.70	60.58	73.81	79.47	79.95	83.65	84.16	92.54	79.40	79.09	80.92	89.15	85.17	84.56																		
Total (lbs/day)	2.50	2.55	2.63	3.21	3.46	3.48	3.64	3.66	4.02	3.45	3.44	3.52	3.88	3.70	3.68																		
Block 1 Construction																																	
Total (lbs/month)																99.15	102.99	89.18	97.89	71.48	55.19	57.17	58.22	63.74	64.96	64.25	64.70	71.02	65.67	62.73	63.03	65.16	65.52
Total (lbs/day)																4.31	4.48	3.88	4.26	3.11	2.40	2.49	2.53	2.77	2.82	2.79	2.81	3.09	2.86	2.73	2.74	2.83	2.85
Block 2 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Total Onsite and Offsite Exhaust $PM_{2.5}$ Emissions (Construction Equipment and Vehicles)																																	
Pounds per Month	57.55	58.70	60.58	73.81	79.47	79.95	83.65	84.16	92.54	79.40	79.09	80.92	89.15	85.17	84.56	99.15	102.99	89.18	97.89	71.48	55.19	57.17	58.22	63.74	64.96	64.25	64.70	71.02	65.67	62.73	63.03	65.16	65.52
Pounds per Day	2.50	2.55	2.63	3.21	3.46	3.48	3.64	3.66	4.02	3.45	3.44	3.52	3.88	3.70	3.68	4.31	4.48	3.88	4.26	3.11	2.40	2.49	2.53	2.77	2.82	2.79	2.81	3.09	2.86	2.73	2.74	2.83	2.85
Yearly Maximums	910	941	968	992	1,017	1,041	1,050	1,064	1,052	1,014	992	971	954	930	909	889	861	823	797	762	756	766	763	760	778	842	906	951	992	1,028	1,059	1,089	1,127

Maximum Pounds per Day	5.62
Maximum Pounds per Hour [a]	0.56
Maximum Pounds per Month	129.22
Month with Maximum	37
Maximum Pounds per Year	1,181
Maximum Average Pounds per Hour [b]	0.13
Year with Maximum	Months 36 - 47
Tons per Year	0.59

Onsite and Offsite Fugitive $PM_{2.5}$ Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)	32.426	32.426	37.328	37.328	37.328	37.328	37.328	37.328	37.328	37.328	37.328	32.426	32.426	32.426	32.426																		
Total (lbs/day)	1.410	1.410	1.623	1.623	1.623	1.623	1.623	1.623	1.623	1.623	1.623	1.410	1.410	1.410	1.410																		
Block 1 Construction																																	
Total (lbs/month)																326.370	326.370	175.537	175.537	175.385	24.552	22.100	22.100	22.100	22.100	17.198	17.198	17.198	17.198	17.198	17.198	17.198	17.198
Total (lbs/day)																14.190	14.190	7.632	7.632	7.625	1.067	0.961	0.961	0.961	0.961	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748
Block 2 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Total Onsite and Offsite Fugitive $PM_{2.5}$ Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																																	
Pounds per Month	32.43	32.43	37.33	37.33	37.33	37.33	37.33	37.33	37.33	37.33	37.33	32.43	32.43	32.43	32.43	326.37	326.37	175.54	175.54	175.38	24.55	22.10	22.10	22.10	22.10	17.20	17.20	17.20	17.20	17.20	17.20	17.20	17.20
Pounds per Day	1.41	1.41	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.41	1.41	1.41	1.41	14.19	14.19	7.63	7.63	7.63	1.07	0.96	0.96	0.96	0.96	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Yearly Maximums	433	433	433	428	717	1,006	1,145	1,283	1,421	1,408	1,393	1,378	1,367	1,357	1,342	1,327	1,017	708	550	392	233	226	221	216	374	696	1,022	1,198	1,371	1,544	1,566	1,585	1,605

Maximum Pounds per Day	14.93
Maximum Pounds per Hour [a]	1.49
Maximum Pounds per Month	343.49
Month with Maximum	37 or 38
Maximum Pounds per Year	1,645
Maximum Average Pounds per Hour [b]	0.19
Year with Maximum	Months 77 - 88 or 78 - 89
Tons per Year	0.82

Table 5.1A.48R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite and Offsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

Parameter	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Pounds per Month	89.97	91.13	97.91	111.14	116.80	117.28	120.97	121.49	129.87	116.73	116.42	113.34	121.57	117.60	116.99	425.52	429.36	264.72	273.43	246.86	79.74	79.27	80.33	85.84	87.06	81.45	81.90	88.22	82.87	79.93	80.23	82.36	82.72
Pounds per Day	3.91	3.96	4.26	4.83	5.08	5.10	5.26	5.28	5.65	5.08	5.06	4.93	5.29	5.11	5.09	18.50	18.67	11.51	11.89	10.73	3.47	3.45	3.49	3.73	3.79	3.54	3.56	3.84	3.60	3.48	3.49	3.58	3.60
Yearly Maximums	1,343	1,375	1,401	1,420	1,735	2,047	2,195	2,347	2,472	2,422	2,385	2,349	2,321	2,287	2,251	2,215	1,878	1,532	1,347	1,154	989	992	984	976	1,152	1,538	1,929	2,149	2,362	2,572	2,624	2,674	2,732

Maximum Pounds per Day	20.55
Maximum Pounds per Hour [a]	2.055
Maximum Pounds per Month	472.71
Month with Maximum	37
Maximum Pounds per Year	2,811
Maximum Average Pounds per Hour [b]	0.321
Year with Maximum	Months 36 - 47
Tons per Year	1.41

Onsite and Offsite CO_2 Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (metric tons/month)	56.81	58.79	68.27	87.70	97.81	98.64	107.71	108.75	119.75	112.24	112.01	108.99	118.56	107.67	106.71																		
Total (metric tons/day)	2.47	2.56	2.97	3.81	4.25	4.29	4.68	4.73	5.21	4.88	4.87	4.74	5.15	4.68	4.64																		
Block 1 Construction																																	
Total (metric tons/month)																107.03	113.25	106.17	123.40	97.12	81.91	98.75	101.90	113.83	115.74	113.82	116.01	130.19	121.57	114.56	114.89	117.62	116.40
Total (metric tons/day)																4.65	4.92	4.62	5.37	4.22	3.56	4.29	4.43	4.95	5.03	4.95	5.04	5.66	5.29	4.98	5.00	5.11	5.06
Block 2 Construction																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Units 1 & 2 Demolition																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Total Onsite and Offsite CO_2 Emissions (Construction Equipment and Vehicles)																																	
Metric Tons per Month	56.81	58.79	68.27	87.70	97.81	98.64	107.71	108.75	119.75	112.24	112.01	108.99	118.56	107.67	106.71	107.03	113.25	106.17	123.40	97.12	81.91	98.75	101.90	113.83	115.74	113.82	116.01	130.19	121.57	114.56	114.89	117.62	116.40
Metric Tons per Day	2.47	2.56	2.97	3.81	4.25	4.29	4.68	4.73	5.21	4.88	4.87	4.74	5.15	4.68	4.64	4.65	4.92	4.62	5.37	4.22	3.56	4.29	4.43	4.95	5.03	4.95	5.04	5.66	5.29	4.98	5.00	5.11	5.06
Yearly Maximums	1,137	1,199	1,248	1,287	1,306	1,321	1,329	1,345	1,333	1,295	1,282	1,271	1,276	1,273	1,280	1,289	1,312	1,320	1,329	1,320	1,341	1,375	1,376	1,376	1,406	1,496	1,583	1,654	1,716	1,774	1,836	1,893	1,962

Maximum Metric Tons per Day	8.93
Maximum Metric Tons per Hour [a]	0.89
Maximum Metric Tons per Month	205.40
Month with Maximum	37
Maximum Metric Tons per Year	2,121
Maximum Average Metric Tons per Hour [b]	0.24
Year with Maximum	Months 37 - 48

Onsite and Offsite N_2O Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (metric tons/month)	0.00142731	0.00144630	0.00167892	0.00215756	0.00229894	0.00230664	0.00234111	0.00234813	0.00261681	0.00241743	0.00241015	0.00237268	0.00263595	0.00260146	0.00259073																		
Total (metric tons/day)	0.00006206	0.00006288	0.00007300	0.00009381	0.00009995	0.00010029	0.00010179	0.00010209	0.00011377	0.00010511	0.00010479	0.00010316	0.00011461	0.00011311	0.00011264																		
Block 1 Construction																																	
Total (metric tons/month)																0.00268688	0.00275265	0.00253014	0.00294058	0.00216399	0.00176740	0.00217166	0.00218087	0.00240772	0.00242918	0.00227152	0.00226999	0.00250477	0.00225229	0.00206494	0.00207118	0.00211221	0.00212977
Total (metric tons/day)																0.00011682	0.00011968	0.00011001	0.00012785	0.00009409	0.00007684	0.00009442	0.00009482	0.00010468	0.00010562	0.00009876	0.00009870	0.00010890	0.00009793	0.00008978	0.00009005	0.00009184	0.00009260
Block 2 Construction																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Units 1 & 2 Demolition																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Total Onsite and Offsite N_2O Emissions (Construction Equipment and Vehicles)																																	
Metric Tons per Month	0.00142731	0.00144630	0.00167892	0.00215756	0.00229894	0.00230664	0.00234111	0.00234813	0.00261681	0.00241743	0.00241015	0.00237268	0.00263595	0.00260146	0.00259073	0.00268688	0.00275265	0.00253014	0.00294058	0.00216399	0.00176740	0.00217166	0.00218087	0.00240772	0.00242918	0.00227152	0.00226999	0.00250477	0.00225229	0.00206494	0.00207118	0.00211221	0.00212977
Metric Tons per Day	0.00006206	0.00006288	0.00007300	0.00009381	0.00009995	0.00010029	0.00010179	0.00010209	0.00011377	0.00010511	0.00010479	0.00010316	0.00011461	0.00011311	0.00011264	0.00011682	0.00011968	0.00011001	0.00012785	0.00009409	0.00007684	0.00009442	0.00009482	0.00010468	0.00010562	0.00009876	0.00009870	0.00010890	0.00009793	0.00008978	0.00009005	0.00009184	0.00009260
Yearly Maximums	0.02582	0.02703	0.02819	0.02910	0.02963	0.03008	0.03030	0.03090	0.03072	0.02987	0.02962	0.02939	0.02943	0.02922	0.02889	0.02857	0.02839	0.02789	0.02742	0.02656	0.02650	0.02687	0.02643	0.02601	0.02636	0.02818	0.03016	0.03161	0.03287	0.03396	0.03516	0.03638	0.03788

Maximum Metric Tons per Day	0.000185
Maximum Metric Tons per Hour [a]	0.0000185
Maximum Metric Tons per Month	0.00426
Month with Maximum	38
Maximum Metric Tons per Year	0.04100
Maximum Average Metric Tons per Hour [b]	0.00000468
Year with Maximum	Months 37 - 48

Onsite and Offsite CH_4 Emissions

Construction Step	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (metric tons/month)	0.0031823	0.0032695	0.0037973	0.0049271	0.0052644	0.0052994	0.0053762	0.0054037	0.0060261	0.0055702	0.0055290	0.0053470	0.0059224	0.0058724	0.0058208																		
Total (metric tons/day)	0.0001384	0.0001422	0.0001651	0.0002142	0.0002289	0.0002304	0.0002337	0.0002349	0.0002620	0.0002422	0.0002404	0.0002325	0.0002575	0.0002553	0.0002531																		
Block 1 Construction																																	
Total (metric tons/month)																0.0059995	0.0063104	0.0058225	0.0067735	0.0051040	0.0042377	0.0051554	0.0051652	0.0057239	0.0058271	0.0055427	0.0055009	0.0060748	0.0055164	0.0051269	0.0051603	0.0053712	0.0054970
Total (metric tons/day)																0.0002608	0.0002744	0.0002532	0.0002945	0.0002219	0.0001842	0.0002241	0.0002246	0.0002489	0.0002534	0.0002410	0.0002392	0.0002641	0.0002398	0.0002229	0.0002244	0.0002335	0.0002390
Block 2 Construction																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Units 1 & 2 Demolition																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Total Onsite and Offsite CH_4 Emissions (Construction Equipment and Vehicles)																																	
Metric Tons per Month	0.00318	0.00327	0.00380	0.00493	0.00526	0.00530	0.00538	0.00540	0.00603	0.00557	0.00553	0.00535	0.00592	0.00587	0.00582	0.00600	0.00631	0.00582	0.00677	0.00510	0.00424	0.00516	0.00517	0.00572	0.00583	0.00554	0.00550	0.00607	0.00552	0.00513	0.00516	0.00537	0.00550
Metric Tons per Day	0.00014	0.00014	0.00017	0.00021	0.00023	0.00023	0.00023	0.00023	0.00026	0.00024	0.00024	0.00023	0.00026	0.00026	0.00025	0.00026	0.00027	0.00025	0.00029	0.00022	0.00018	0.00022	0.00022	0.00025	0.00025	0.00024	0.00024	0.00026	0.00024	0.00022	0.00022	0.00023	0.00024
Yearly Maximums	0.05899	0.06173	0.06434	0.06636	0.06743	0.06848	0.06900	0.07040	0.07010	0.06831	0.06789	0.06753	0.06791	0.06781	0.06748	0.06716	0.06724	0.06644	0.06575	0.06414	0.06440	0.06566	0.06515	0.06475	0.06619	0.07097	0.07617	0.08029	0.08401	0.08745	0.09109	0.09488	0.09906

Maximum Metric Tons per Day	0.000467
Maximum Metric Tons per Hour [a]	0.0000467
Maximum Metric Tons per Month	0.01074
Month with Maximum	38
Maximum Metric Tons per Year	0.10640
Maximum Average Metric Tons per Hour [b]	0.0000121
Year with Maximum	Months 37 - 48

Notes:
[a] The hours per day are per 'Manpower Schedule Huntington Beach 03.13.12.xls': 10 hours/day
[b] The hours per year are assumed to allow operation 24 hours per day, 7 days per week despite the actual construction schedule per 'Manpower_Schedule_Huntington_Beach 03.13.12.xls': 8,760 hours/year

Table 5.1A.48R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Onsite and Offsite CO Emissions

	CO Emissions by Month																															
Construction Step	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Block 1 Construction																																	
Total (lbs/month)	794.24	816.24	703.61	671.11	648.80	664.38	585.18	594.61	550.90	547.49	689.46	681.61																					
Total (lbs/day)	34.53	35.49	30.59	29.18	28.21	28.89	25.44	25.85	23.95	23.80	29.98	29.64																					
Block 2 Construction																																	
Total (lbs/month)			520.95	1,349.65	1,377.62	1,085.41	1,188.69	987.35	847.74	868.37	879.59	939.02	922.11	956.89	1,105.29	1,069.35	898.84	894.57	893.62	890.71	819.68	686.09	648.15	631.09	626.82	551.44	501.41	357.02	544.01	539.74			
Total (lbs/day)			22.65	58.68	59.90	47.19	51.68	42.93	36.86	37.76	38.24	40.83	40.09	41.60	48.06	46.49	39.08	38.89	38.85	38.73	35.64	29.83	28.18	27.44	27.25	23.98	21.80	15.52	23.65	23.47			
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Total Onsite and Offsite CO Emissions (Construction Equipment and Vehicles)																																	
Pounds per Month	**794.24**	**816.24**	**1,224.55**	**2,020.76**	**2,026.42**	**1,749.79**	**1,773.87**	**1,581.96**	**1,398.64**	**1,415.86**	**1,569.06**	**1,620.63**	**922.11**	**956.89**	**1,105.29**	**1,069.35**	**898.84**	**894.57**	**893.62**	**890.71**	**819.68**	**686.09**	**648.15**	**631.09**	**626.82**	**551.44**	**501.41**	**357.02**	**544.01**	**539.74**	**0.00**	**0.00**	**0.00**
Pounds per Day	**34.53**	**35.49**	**53.24**	**87.86**	**88.11**	**76.08**	**77.12**	**68.78**	**60.81**	**61.56**	**68.22**	**70.46**	**40.09**	**41.60**	**48.06**	**46.49**	**39.08**	**38.89**	**38.85**	**38.73**	**35.64**	**29.83**	**28.18**	**27.44**	**27.25**	**23.98**	**21.80**	**15.52**	**23.65**	**23.47**	**0.00**	**0.00**	**0.00**
Yearly Maximums	**17,992**	**18,120**	**18,261**	**18,141**	**17,190**	**16,062**	**15,207**	**14,327**	**13,636**	**13,057**	**12,327**	**11,406**	**10,416**	**10,121**	**9,716**	**9,112**	**8,399**	**8,045**	**7,690**	**6,796**	**5,905**	**5,086**	**5,084**	**5,124**	**5,385**	**5,669**	**6,161**	**6,711**	**7,370**	**7,842**	**8,327**	**9,351**	**10,535**
Maximum Pounds per Day																																	
Maximum Pounds per Hour [a]																																	
Maximum Pounds per Month																																	
Month with Maximum																																	
Maximum Pounds per Year																																	
Maximum Average Pounds per Hour [b]																																	
Year with Maximum																																	
Tons per Year																																	

Onsite and Offsite VOC Emissions

	VOC Emissions by Month																															
Construction Step	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Block 1 Construction																																	
Total (lbs/month)	115.17	115.60	96.24	86.85	83.51	83.10	56.66	56.85	50.22	48.71	81.07	80.91																					
Total (lbs/day)	5.01	5.03	4.18	3.78	3.63	3.61	2.46	2.47	2.18	2.12	3.52	3.52																					
Block 2 Construction																																	
Total (lbs/month)			83.18	204.54	205.21	154.11	178.21	146.37	136.71	135.55	137.01	150.76	141.67	141.07	165.84	154.39	126.05	125.34	124.18	123.50	100.74	82.61	76.40	73.57	72.86	71.58	70.09	45.19	74.62	73.91			
Total (lbs/day)			3.62	8.89	8.92	6.70	7.75	6.36	5.94	5.89	5.96	6.55	6.16	6.13	7.21	6.71	5.48	5.45	5.40	5.37	4.38	3.59	3.32	3.20	3.17	3.11	3.05	1.96	3.24	3.21			
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Total Onsite and Offsite VOC Emissions (Construction Equipment and Vehicles)																																	
Pounds per Month	**115.17**	**115.60**	**179.41**	**291.39**	**288.72**	**237.21**	**234.87**	**203.22**	**186.94**	**184.26**	**218.08**	**231.68**	**141.67**	**141.07**	**165.84**	**154.39**	**126.05**	**125.34**	**124.18**	**123.50**	**100.74**	**82.61**	**76.40**	**73.57**	**72.86**	**71.58**	**70.09**	**45.19**	**74.62**	**73.91**	**0.00**	**0.00**	**0.00**
Pounds per Day	**5.01**	**5.03**	**7.80**	**12.67**	**12.55**	**10.31**	**10.21**	**8.84**	**8.13**	**8.01**	**9.48**	**10.07**	**6.16**	**6.13**	**7.21**	**6.71**	**5.48**	**5.45**	**5.40**	**5.37**	**4.38**	**3.59**	**3.32**	**3.20**	**3.17**	**3.11**	**3.05**	**1.96**	**3.24**	**3.21**	**0.00**	**0.00**	**0.00**
Yearly Maximums	**2,487**	**2,513**	**2,539**	**2,525**	**2,388**	**2,225**	**2,113**	**2,003**	**1,923**	**1,837**	**1,735**	**1,593**	**1,435**	**1,367**	**1,297**	**1,201**	**1,092**	**1,041**	**989**	**865**	**742**	**641**	**665**	**697**	**751**	**807**	**877**	**949**	**1,036**	**1,094**	**1,154**	**1,288**	**1,438**
Maximum Pounds per Day																																	
Maximum Pounds per Hour [a]																																	
Maximum Pounds per Month																																	
Month with Maximum																																	
Maximum Pounds per Year																																	
Maximum Average Pounds per Hour [b]																																	
Year with Maximum																																	
Tons per Year																																	

Onsite and Offsite NOx Emissions

	NOx Emissions by Month																															
Construction Step	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Block 1 Construction																																	
Total (lbs/month)	703.80	705.54	598.95	548.37	503.03	493.25	308.25	309.00	271.88	249.57	435.37	434.74																					
Total (lbs/day)	30.60	30.68	26.04	23.84	21.87	21.45	13.40	13.43	11.82	10.85	18.93	18.90																					
Block 2 Construction																																	
Total (lbs/month)			513.94	1,280.25	1,285.61	993.84	1,183.42	980.75	968.82	947.98	971.04	1,093.63	934.80	925.59	1,098.27	1,019.62	842.73	832.49	814.63	804.51	649.25	526.90	509.44	468.49	410.53	404.60	391.76	237.93	402.46	393.22			
Total (lbs/day)			22.35	55.66	55.90	43.21	51.45	42.64	42.12	41.22	42.22	47.55	40.64	40.24	47.75	44.33	36.64	36.20	35.42	34.98	28.23	22.91	22.15	20.37	17.85	17.59	17.03	10.34	17.50	17.10			
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Total Onsite and Offsite NOx Emissions (Construction Equipment and Vehicles)																																	
Pounds per Month	**703.80**	**705.54**	**1,112.89**	**1,828.61**	**1,788.65**	**1,487.09**	**1,491.67**	**1,289.74**	**1,240.70**	**1,197.56**	**1,406.41**	**1,528.37**	**934.80**	**925.59**	**1,098.27**	**1,019.62**	**842.73**	**832.49**	**814.63**	**804.51**	**649.25**	**526.90**	**509.44**	**468.49**	**410.53**	**404.60**	**391.76**	**237.93**	**402.46**	**393.22**	**0.00**	**0.00**	**0.00**
Pounds per Day	**30.60**	**30.68**	**48.39**	**79.50**	**77.77**	**64.66**	**64.86**	**56.08**	**53.94**	**52.07**	**61.15**	**66.45**	**40.64**	**40.24**	**47.75**	**44.33**	**36.64**	**36.20**	**35.42**	**34.98**	**28.23**	**22.91**	**22.15**	**20.37**	**17.85**	**17.59**	**17.03**	**10.34**	**17.50**	**17.10**	**0.00**	**0.00**	**0.00**
Yearly Maximums	**15,781**	**16,012**	**16,232**	**16,217**	**15,408**	**14,463**	**13,808**	**13,131**	**12,646**	**12,054**	**11,384**	**10,487**	**9,427**	**8,902**	**8,381**	**7,675**	**6,893**	**6,453**	**6,014**	**5,199**	**4,395**	**3,745**	**3,898**	**4,079**	**4,407**	**4,713**	**5,088**	**5,476**	**5,962**	**6,283**	**6,631**	**7,372**	**8,234**
Maximum Pounds per Day																																	
Maximum Pounds per Hour [a]																																	
Maximum Pounds per Month																																	
Month with Maximum																																	
Maximum Pounds per Year																																	
Maximum Average Pounds per Hour [b]																																	
Year with Maximum																																	
Tons per Year																																	

Table 5.1A.48R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Onsite and Offsite SOx Emissions

	SOx Emissions by Month																																
Construction Step	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Block 1 Construction																																	
Total (lbs/month)	2.2098	2.2635	2.0600	2.0274	1.8486	1.8548	1.4991	1.5221	1.4531	1.3811	1.5924	1.5733																					
Total (lbs/day)	0.0961	0.0984	0.0896	0.0881	0.0804	0.0806	0.0652	0.0662	0.0632	0.0600	0.0692	0.0684																					
Block 2 Construction																																	
Total (lbs/month)			1.1157	2.5349	2.6155	2.3151	2.7509	2.4446	2.4575	2.4465	2.5410	2.8588	2.8535	2.9084	3.4587	3.2994	2.8583	2.8146	2.7537	2.7136	2.4036	2.0616	2.1140	1.9392	1.8955	1.6962	1.5315	0.9943	1.3502	1.3065			
Total (lbs/day)			0.0485	0.1102	0.1137	0.1007	0.1196	0.1063	0.1068	0.1064	0.1105	0.1243	0.1241	0.1265	0.1504	0.1435	0.1243	0.1224	0.1197	0.1180	0.1045	0.0896	0.0919	0.0843	0.0824	0.0737	0.0666	0.0432	0.0587	0.0568			
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Total Onsite and Offsite SOx Emissions (Construction Equipment and Vehicles)																																	
Pounds per Month	**2.2098**	**2.2635**	**3.1757**	**4.5623**	**4.4642**	**4.1698**	**4.2501**	**3.9668**	**3.9106**	**3.8276**	**4.1335**	**4.4321**	**2.8535**	**2.9084**	**3.4587**	**3.2994**	**2.8583**	**2.8146**	**2.7537**	**2.7136**	**2.4036**	**2.0616**	**2.1140**	**1.9392**	**1.8955**	**1.6962**	**1.5315**	**0.9943**	**1.3502**	**1.3065**	**0.0000**	**0.0000**	**0.0000**
Pounds per Day	**0.0961**	**0.0984**	**0.1381**	**0.1984**	**0.1941**	**0.1813**	**0.1848**	**0.1725**	**0.1700**	**0.1664**	**0.1797**	**0.1927**	**0.1241**	**0.1265**	**0.1504**	**0.1435**	**0.1243**	**0.1224**	**0.1197**	**0.1180**	**0.1045**	**0.0896**	**0.0919**	**0.0843**	**0.0824**	**0.0737**	**0.0666**	**0.0432**	**0.0587**	**0.0568**	**0.0000**	**0.0000**	**0.0000**
Yearly Maximums	**45**	**46**	**47**	**47**	**46**	**44**	**43**	**41**	**40**	**38**	**37**	**35**	**32**	**31**	**30**	**28**	**26**	**24**	**23**	**20**	**17**	**15**	**15**	**15**	**15**	**15**	**16**	**17**	**19**	**20**	**21**	**24**	**27**
Maximum Pounds per Day																																	
Maximum Pounds per Hour [a]																																	
Maximum Pounds per Month																																	
Month with Maximum																																	
Maximum Pounds per Year																																	
Maximum Average Pounds per Hour [b]																																	
Year with Maximum																																	
Tons per Year																																	

Onsite and Offsite Exhaust PM_{10} Emissions

	Exhaust PM_{10} Emissions by Month																																
Construction Step	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Block 1 Construction																																	
Total (lbs/month)	107.18	112.29	105.95	106.45	100.14	103.46	97.11	99.30	96.99	95.60	96.40	94.57																					
Total (lbs/day)	4.16	4.39	4.14	4.16	4.13	4.34	4.06	4.16	4.06	4.12	4.16	4.08																					
Block 2 Construction																																	
Total (lbs/month)			43.27	96.61	104.21	90.43	104.40	98.42	91.73	96.87	100.45	110.19	107.82	117.18	142.68	140.41	132.14	130.75	130.07	129.04	124.77	113.03	113.79	108.22	104.55	84.11	70.34	46.63	55.83	54.46			
Total (lbs/day)			1.88	4.20	4.53	3.93	4.54	4.28	3.99	4.21	4.37	4.79	4.69	5.09	6.20	6.10	5.75	5.68	5.66	5.61	5.42	4.91	4.95	4.71	4.55	3.66	3.06	2.03	2.43	2.37			
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Total Onsite and Offsite Exhaust PM_{10} Emissions (Construction Equipment and Vehicles)																																	
Pounds per Month	**107.18**	**112.29**	**149.23**	**203.06**	**204.35**	**193.89**	**201.51**	**197.72**	**188.72**	**192.47**	**196.85**	**204.76**	**107.82**	**117.18**	**142.68**	**140.41**	**132.14**	**130.75**	**130.07**	**129.04**	**124.77**	**113.03**	**113.79**	**108.22**	**104.55**	**84.11**	**70.34**	**46.63**	**55.83**	**54.46**	**0.00**	**0.00**	**0.00**
Pounds per Day	**4.16**	**4.39**	**6.02**	**8.36**	**8.66**	**8.27**	**8.60**	**8.44**	**8.05**	**8.33**	**8.52**	**8.87**	**4.69**	**5.09**	**6.20**	**6.10**	**5.75**	**5.68**	**5.66**	**5.61**	**5.42**	**4.91**	**4.95**	**4.71**	**4.55**	**3.66**	**3.06**	**2.03**	**2.43**	**2.37**	**0.00**	**0.00**	**0.00**
Yearly Maximums	**2,152**	**2,153**	**2,158**	**2,151**	**2,088**	**2,016**	**1,953**	**1,882**	**1,813**	**1,749**	**1,670**	**1,586**	**1,490**	**1,487**	**1,454**	**1,381**	**1,287**	**1,211**	**1,135**	**1,005**	**876**	**751**	**678**	**606**	**550**	**499**	**472**	**462**	**474**	**476**	**483**	**544**	**628**
Maximum Pounds per Day																																	
Maximum Pounds per Hour [a]																																	
Maximum Pounds per Month																																	
Month with Maximum																																	
Maximum Pounds per Year																																	
Maximum Average Pounds per Hour [b]																																	
Year with Maximum																																	
Tons per Year																																	

Onsite and Offsite Fugitive PM_{10} Emissions

	Fugitive PM_{10} Emissions by Month																																
Construction Step	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Block 1 Construction																																	
Total (lbs/month)	171.95	171.95	171.95	171.95	171.95	171.95	147.44	147.44	147.44	147.44	148.85	148.85																					
Total (lbs/day)	7.48	7.48	7.48	7.48	7.48	7.48	6.41	6.41	6.41	6.41	6.47	6.47																					
Block 2 Construction																																	
Total (lbs/month)			746.29	1,491.53	1,491.53	868.86	868.86	868.16	245.49	220.98	220.98	220.98	220.98	171.95	171.95	171.95	171.95	171.95	171.95	171.95	171.95	171.95	171.95	171.95	171.95	171.95	171.95	147.44	148.13	148.13			
Total (lbs/day)			32.45	64.85	64.85	37.78	37.78	37.75	10.67	9.61	9.61	9.61	9.61	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48	7.48	6.41	6.44	6.44			
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Total Onsite and Offsite Fugitive PM_{10} Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																																	
Pounds per Month	**171.95**	**171.95**	**918.24**	**1,663.48**	**1,663.48**	**1,040.81**	**1,016.30**	**1,015.60**	**392.93**	**368.41**	**369.83**	**369.83**	**220.98**	**171.95**	**171.95**	**171.95**	**171.95**	**171.95**	**171.95**	**171.95**	**171.95**	**171.95**	**171.95**	**171.95**	**171.95**	**171.95**	**171.95**	**147.44**	**148.13**	**148.13**	**0.00**	**0.00**	**0.00**
Pounds per Day	**7.48**	**7.48**	**39.92**	**72.33**	**72.33**	**45.25**	**44.19**	**44.16**	**17.08**	**16.02**	**16.08**	**16.08**	**9.61**	**7.48**	**7.48**	**7.48**	**7.48**	**7.48**	**7.48**	**7.48**	**7.48**	**7.48**	**7.48**	**7.48**	**7.48**	**7.48**	**7.48**	**6.41**	**6.44**	**6.44**	**0.00**	**0.00**	**0.00**
Yearly Maximums	**9,163**	**9,212**	**9,212**	**8,466**	**6,974**	**5,482**	**4,614**	**3,769**	**2,926**	**2,705**	**2,508**	**2,310**	**2,112**	**2,063**	**2,063**	**2,063**	**2,039**	**2,015**	**1,991**	**1,819**	**1,647**	**1,475**	**1,682**	**1,889**	**2,096**	**2,303**	**2,510**	**2,716**	**2,948**	**3,178**	**3,409**	**3,788**	**4,384**
Maximum Pounds per Day																																	
Maximum Pounds per Hour [a]																																	
Maximum Pounds per Month																																	
Month with Maximum																																	
Maximum Pounds per Year																																	
Maximum Average Pounds per Hour [b]																																	
Year with Maximum																																	
Tons per Year																																	

Table 5.1A.48R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite and Offsite PM_{10} Emissions (Exhaust and Fugitive)

	Total PM_{10} Emissions by Month																																
Parameter	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
Pounds per Month	279.13	284.24	1,067.47	1,866.54	1,867.83	1,234.70	1,217.81	1,213.32	581.64	560.88	566.67	574.59	328.80	289.13	314.63	312.36	304.09	302.70	302.01	300.99	296.72	284.98	285.74	280.17	276.50	256.06	242.29	194.07	203.96	202.60	0.00	0.00	0.00
Pounds per Day	11.64	11.86	45.95	80.69	80.99	53.52	52.79	52.59	25.13	24.35	24.60	24.95	14.30	12.57	13.68	13.58	13.22	13.16	13.13	13.09	12.90	12.39	12.42	12.18	12.02	11.13	10.53	8.44	8.87	8.81	0.00	0.00	0.00
Yearly Maximums	11,315	11,364	11,369	10,617	9,062	7,499	6,567	5,651	4,738	4,454	4,178	3,897	3,602	3,550	3,517	3,445	3,326	3,226	3,126	2,824	2,523	2,226	2,360	2,495	2,646	2,802	2,982	3,178	3,421	3,654	3,892	4,331	5,012
Maximum Pounds per Day																																	
Maximum Pounds per Hour [a]																																	
Maximum Pounds per Month																																	
Month with Maximum																																	
Maximum Pounds per Year																																	
Maximum Average Pounds per Hour [b]																																	
Year with Maximum																																	
Tons per Year																																	

Onsite and Offsite Exhaust $PM_{2.5}$ Emissions

	Exhaust $PM_{2.5}$ Emissions by Month																																
Construction Step	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Block 1 Construction																																	
Total (lbs/month)	53.79	55.22	48.47	45.81	42.98	43.64	37.30	37.91	35.60	34.67	43.36	42.85																					
Total (lbs/day)	2.34	2.40	2.11	1.99	1.87	1.90	1.62	1.65	1.55	1.51	1.89	1.86																					
Block 2 Construction																																	
Total (lbs/month)			33.24	83.40	85.59	65.78	74.29	64.31	57.50	58.37	59.92	65.61	59.18	61.53	72.77	70.19	62.50	61.89	61.30	60.79	55.74	47.67	46.08	43.64	40.86	35.14	31.05	20.74	30.24	29.62			
Total (lbs/day)			1.45	3.63	3.72	2.86	3.23	2.80	2.50	2.54	2.61	2.85	2.57	2.68	3.16	3.05	2.72	2.69	2.67	2.64	2.42	2.07	2.00	1.90	1.78	1.53	1.35	0.90	1.31	1.29			
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Total Onsite and Offsite Exhaust $PM_{2.5}$ Emissions (Construction Equipment and Vehicles)																																	
Pounds per Month	53.79	55.22	81.71	129.22	128.57	109.42	111.60	102.22	93.10	93.04	103.28	108.46	59.18	61.53	72.77	70.19	62.50	61.89	61.30	60.79	55.74	47.67	46.08	43.64	40.86	35.14	31.05	20.74	30.24	29.62	0.00	0.00	0.00
Pounds per Day	2.34	2.40	3.55	5.62	5.59	4.76	4.85	4.44	4.05	4.05	4.49	4.72	2.57	2.68	3.16	3.05	2.72	2.69	2.67	2.64	2.42	2.07	2.00	1.90	1.78	1.53	1.35	0.90	1.31	1.29	0.00	0.00	0.00
Yearly Maximums	1,170	1,175	1,181	1,172	1,113	1,047	1,000	949	908	871	825	768	703	685	659	617	567	535	503	442	381	325	311	299	297	294	300	311	331	341	353	394	447
Maximum Pounds per Day																																	
Maximum Pounds per Hour [a]																																	
Maximum Pounds per Month																																	
Month with Maximum																																	
Maximum Pounds per Year																																	
Maximum Average Pounds per Hour [b]																																	
Year with Maximum																																	
Tons per Year																																	

Onsite and Offsite Fugitive $PM_{2.5}$ Emissions

	Fugitive $PM_{2.5}$ Emissions by Month																																
Construction Step	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Block 1 Construction																																	
Total (lbs/month)	17.198	17.198	17.198	17.198	17.198	17.198	14.746	14.746	14.746	14.746	14.899	14.899																					
Total (lbs/day)	0.748	0.748	0.748	0.748	0.748	0.748	0.641	0.641	0.641	0.641	0.648	0.648																					
Block 2 Construction																																	
Total (lbs/month)			163.203	326.293	326.293	175.460	175.460	175.385	24.552	22.100	22.100	22.100	22.100	17.198	17.198	17.198	17.198	17.198	17.198	17.198	17.198	17.198	17.198	17.198	17.198	17.198	17.198	14.746	14.822	14.822			
Total (lbs/day)			7.096	14.187	14.187	7.629	7.629	7.625	1.067	0.961	0.961	0.961	0.961	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.641	0.644	0.644			
Units 1 & 2 Demolition																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (lbs/month)																																	
Total (lbs/day)																																	
Total Onsite and Offsite Fugitive $PM_{2.5}$ Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																																	
Pounds per Month	17.20	17.20	180.40	343.49	343.49	192.66	190.21	190.13	39.30	36.85	37.00	37.00	22.10	17.20	17.20	17.20	17.20	17.20	17.20	17.20	17.20	17.20	17.20	17.20	17.20	17.20	17.20	14.75	14.82	14.82	0.00	0.00	0.00
Pounds per Day	0.75	0.75	7.84	14.93	14.93	8.38	8.27	8.27	1.71	1.60	1.61	1.61	0.96	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.64	0.64	0.64	0.00	0.00	0.00
Yearly Maximums	1,625	1,630	1,630	1,467	1,140	814	639	466	293	271	251	231	211	206	206	206	204	202	199	182	165	148	181	215	249	283	317	351	387	423	459	511	583
Maximum Pounds per Day																																	
Maximum Pounds per Hour [a]																																	
Maximum Pounds per Month																																	
Month with Maximum																																	
Maximum Pounds per Year																																	
Maximum Average Pounds per Hour [b]																																	
Year with Maximum																																	
Tons per Year																																	

Table 5.1A.48R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite and Offsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

	Total $PM_{2.5}$ Emissions by Month																															
Parameter	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
Pounds per Month	70.99	72.42	262.11	472.71	472.06	302.08	301.80	292.35	132.40	129.89	140.28	145.46	81.28	78.73	89.97	87.38	79.70	79.09	78.50	77.99	72.94	64.86	63.28	60.83	58.06	52.33	48.24	35.49	45.06	44.44	0.00	0.00	0.00
Pounds per Day	3.09	3.15	11.40	20.55	20.52	13.13	13.12	12.71	5.76	5.65	6.10	6.32	3.53	3.42	3.91	3.80	3.47	3.44	3.41	3.39	3.17	2.82	2.75	2.64	2.52	2.28	2.10	1.54	1.96	1.93	0.00	0.00	0.00
Yearly Maximums	2,795	2,805	2,811	2,639	2,254	1,861	1,638	1,415	1,201	1,141	1,076	999	915	891	865	823	771	737	702	624	546	473	492	514	546	577	617	662	718	764	812	905	1,030
Maximum Pounds per Day																																	
Maximum Pounds per Hour [a]																																	
Maximum Pounds per Month																																	
Month with Maximum																																	
Maximum Pounds per Year																																	
Maximum Average Pounds per Hour [b]																																	
Year with Maximum																																	
Tons per Year																																	

Onsite and Offsite CO_2 Emissions

	CO_2 Emissions by Month																															
Construction Step	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Block 1 Construction																																	
Total (metric tons/month)	99.43	101.66	92.56	91.01	82.48	82.45	66.86	67.81	64.77	61.21	70.84	70.04																					
Total (metric tons/day)	4.32	4.42	4.02	3.96	3.59	3.58	2.91	2.95	2.82	2.66	3.08	3.05																					
Block 2 Construction																																	
Total (metric tons/month)			51.72	114.39	118.02	105.52	124.74	111.44	111.98	111.19	115.71	130.13	130.56	132.85	157.16	150.24	130.72	128.62	125.64	123.70	110.29	94.69	97.51	89.12	87.02	78.11	70.60	46.89	62.76	60.66			
Total (metric tons/day)			2.25	4.97	5.13	4.59	5.42	4.85	4.87	4.83	5.03	5.66	5.68	5.78	6.83	6.53	5.68	5.59	5.46	5.38	4.80	4.12	4.24	3.87	3.78	3.40	3.07	2.04	2.73	2.64			
Units 1 & 2 Demolition																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Total Onsite and Offsite CO_2 Emissions (Construction Equipment and Vehicles)																																	
Metric Tons per Month	99.43	101.66	144.28	205.40	200.50	187.98	191.59	179.25	176.75	172.40	186.55	200.17	130.56	132.85	157.16	150.24	130.72	128.62	125.64	123.70	110.29	94.69	97.51	89.12	87.02	78.11	70.60	46.89	62.76	60.66	0.00	0.00	0.00
Metric Tons per Day	4.32	4.42	6.27	8.93	8.72	8.17	8.33	7.79	7.68	7.50	8.11	8.70	5.68	5.78	6.83	6.53	5.68	5.59	5.46	5.38	4.80	4.12	4.24	3.87	3.78	3.40	3.07	2.04	2.73	2.64	0.00	0.00	0.00
Yearly Maximums	2,046	2,077	2,108	2,121	2,066	1,996	1,937	1,871	1,815	1,749	1,671	1,582	1,471	1,428	1,373	1,286	1,183	1,115	1,047	921	798	687	678	668	684	706	747	796	863	915	973	1,091	1,225
Maximum Metric Tons per Day																																	
Maximum Metric Tons per Hour [a]																																	
Maximum Metric Tons per Month																																	
Month with Maximum																																	
Maximum Metric Tons per Year																																	
Maximum Average Metric Tons per Hour [b]																																	
Year with Maximum																																	

Onsite and Offsite N_2O Emissions

	N_2O Emissions by Month																															
Construction Step	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Block 1 Construction																																	
Total (metric tons/month)	0.00173587	0.00176091	0.00154598	0.00147897	0.00145147	0.00146858	0.00107355	0.00108428	0.00100666	0.00100154	0.00131506	0.00130612																					
Total (metric tons/day)	0.00007547	0.00007656	0.00006722	0.00006430	0.00006311	0.00006385	0.00004668	0.00004714	0.00004377	0.00004355	0.00005718	0.00005679																					
Block 2 Construction																																	
Total (metric tons/month)			0.00120803	0.00276929	0.00280627	0.00225249	0.00268471	0.00226572	0.00225818	0.00228514	0.00230099	0.00252851	0.00236030	0.00240698	0.00289909	0.00270409	0.00224228	0.00223614	0.00223404	0.00222969	0.00184091	0.00159680	0.00152674	0.00150219	0.00149605	0.00139590	0.00132895	0.00084271	0.00120851	0.00120237			
Total (metric tons/day)			0.00005252	0.00012040	0.00012201	0.00009793	0.00011673	0.00009851	0.00009818	0.00009935	0.00010004	0.00010994	0.00010262	0.00010465	0.00012605	0.00011757	0.00009749	0.00009722	0.00009713	0.00009694	0.00008004	0.00006943	0.00006638	0.00006531	0.00006505	0.00006069	0.00005778	0.00003664	0.00005254	0.00005228			
Units 1 & 2 Demolition																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Total Onsite and Offsite N_2O Emissions (Construction Equipment and Vehicles)																																	
Metric Tons per Month	0.00173587	0.00176091	0.00275401	0.00424826	0.00425774	0.00372107	0.00375827	0.00335000	0.00326484	0.00328668	0.00361605	0.00383462	0.00236030	0.00240698	0.00289909	0.00270409	0.00224228	0.00223614	0.00223404	0.00222969	0.00184091	0.00159680	0.00152674	0.00150219	0.00149605	0.00139590	0.00132895	0.00084271	0.00120851	0.00120237	0.00000000	0.00000000	0.00000000
Metric Tons per Day	0.00007547	0.00007656	0.00011974	0.00018471	0.00018512	0.00016179	0.00016340	0.00014565	0.00014195	0.00014290	0.00015722	0.00016672	0.00010262	0.00010465	0.00012605	0.00011757	0.00009749	0.00009722	0.00009713	0.00009694	0.00008004	0.00006943	0.00006638	0.00006531	0.00006505	0.00006069	0.00005778	0.00003664	0.00005254	0.00005228	0.00000000	0.00000000	0.00000000
Yearly Maximums	0.03959	0.04021	0.04086	0.04100	0.03946	0.03744	0.03596	0.03444	0.03331	0.03189	0.03020	0.02811	0.02578	0.02492	0.02390	0.02233	0.02047	0.01944	0.01840	0.01617	0.01394	0.01210	0.01244	0.01286	0.01370	0.01458	0.01582	0.01714	0.01875	0.02000	0.02126	0.02373	0.02647
Maximum Metric Tons per Day																																	
Maximum Metric Tons per Hour [a]																																	
Maximum Metric Tons per Month																																	
Month with Maximum																																	
Maximum Metric Tons per Year																																	
Maximum Average Metric Tons per Hour [b]																																	
Year with Maximum																																	

Onsite and Offsite CH_4 Emissions

	CH_4 Emissions by Month																															
Construction Step	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66
Peaker and Tank Area and Stack 3&4 Demolition																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Block 1 Construction																																	
Total (metric tons/month)	0.0046439	0.0047642	0.0043021	0.0042079	0.0041653	0.0042705	0.0033894	0.0034410	0.0032678	0.0032892	0.0038504	0.0038074																					
Total (metric tons/day)	0.0002019	0.0002071	0.0001870	0.0001830	0.0001811	0.0001857	0.0001474	0.0001496	0.0001421	0.0001430	0.0001674	0.0001655																					
Block 2 Construction																																	
Total (metric tons/month)			0.0028622	0.0064000	0.0065731	0.0053516	0.0064061	0.0055186	0.0054936	0.0056695	0.0056997	0.0062257	0.0058431	0.0060935	0.0074392	0.0070014	0.0059766	0.0059700	0.0060013	0.0060033	0.0051289	0.0045828	0.0044050	0.0043790	0.0043724	0.0038911	0.0035924	0.0022730	0.0030634	0.0030569			
Total (metric tons/day)			0.0001244	0.0002783	0.0002858	0.0002327	0.0002785	0.0002399	0.0002389	0.0002465	0.0002478	0.0002707	0.0002540	0.0002649	0.0003234	0.0003044	0.0002599	0.0002596	0.0002609	0.0002610	0.0002230	0.0001993	0.0001915	0.0001904	0.0001901	0.0001692	0.0001562	0.0000988	0.0001332	0.0001329			
Units 1 & 2 Demolition																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Bldgs. 33 & 34 Construction																																	
Total (metric tons/month)																																	
Total (metric tons/day)																																	
Total Onsite and Offsite CH_4 Emissions (Construction Equipment and Vehicles)																																	
Metric Tons per Month	0.00464	0.00476	0.00716	0.01061	0.01074	0.00962	0.00980	0.00896	0.00876	0.00896	0.00955	0.01003	0.00584	0.00609	0.00744	0.00700	0.00598	0.00597	0.00600	0.00600	0.00513	0.00458	0.00441	0.00438	0.00437	0.00389	0.00359	0.00227	0.00306	0.00306	0.00000	0.00000	0.00000
Metric Tons per Day	0.00020	0.00021	0.00031	0.00046	0.00047	0.00042	0.00043	0.00039	0.00038	0.00039	0.00042	0.00044	0.00025	0.00026	0.00032	0.00030	0.00026	0.00026	0.00026	0.00026	0.00022	0.00020	0.00019	0.00019	0.00019	0.00017	0.00016	0.00010	0.00013	0.00013	0.00000	0.00000	0.00000
Yearly Maximums	0.10360	0.10480	0.10613	0.10640	0.10280	0.09803	0.09438	0.09059	0.08763	0.08400	0.07962	0.07448	0.06882	0.06735	0.06515	0.06130	0.05658	0.05366	0.05075	0.04475	0.03874	0.03362	0.03338	0.03334	0.03428	0.03534	0.03749	0.04000	0.04337	0.04595	0.04855	0.05421	0.06063
Maximum Metric Tons per Day																																	
Maximum Metric Tons per Hour [a]																																	
Maximum Metric Tons per Month																																	
Month with Maximum																																	
Maximum Metric Tons per Year																																	
Maximum Average Metric Tons per Hour [b]																																	
Year with Maximum																																	

Notes:
[a] The hours per day are per 'Manpower Schedule Huntington Be
[b] The hours per year are assumed to allow operation 24 hours per

Table 5.1A.48R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Onsite and Offsite CO Emissions

Construction Step	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 1 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 2 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Units 1 & 2 Demolition																								
Total (lbs/month)	683.95	688.08	892.52	910.81	1,043.79	1,050.86	1,016.20	1,016.20	1,024.47	1,024.47	1,036.88	1,036.88	1,041.01	1,045.15	1,045.15	1,045.15	1,131.84	1,131.84	1,131.84	1,112.94	1,110.38	1,079.70	1,072.03	1,060.01
Total (lbs/day)	29.74	29.92	38.81	39.60	45.38	45.69	44.18	44.18	44.54	44.54	45.08	45.08	45.26	45.44	45.44	45.44	49.21	49.21	49.21	48.39	48.28	46.94	46.61	46.09
Bldgs. 33 & 34 Construction																								
Total (lbs/month)											147.13	482.16	483.86	522.42	467.25	462.70	155.63	156.22	162.88	170.66	157.33	175.11	171.77	87.33
Total (lbs/day)											6.40	20.96	21.04	22.71	20.32	20.12	6.77	6.79	7.08	7.42	6.84	7.61	7.47	3.80
Total Onsite and Offsite CO Emissions (Construction Equipment and Vehicles)																								
Pounds per Month	**683.95**	**688.08**	**892.52**	**910.81**	**1,043.79**	**1,050.86**	**1,016.20**	**1,016.20**	**1,024.47**	**1,024.47**	**1,184.01**	**1,519.04**	**1,524.87**	**1,567.56**	**1,512.39**	**1,507.84**	**1,287.47**	**1,288.06**	**1,294.72**	**1,283.60**	**1,267.71**	**1,254.81**	**1,243.80**	**1,147.34**
Pounds per Day	**29.74**	**29.92**	**38.81**	**39.60**	**45.38**	**45.69**	**44.18**	**44.18**	**44.54**	**44.54**	**51.48**	**66.05**	**66.30**	**68.15**	**65.76**	**65.56**	**55.98**	**56.00**	**56.29**	**55.81**	**55.12**	**54.56**	**54.08**	**49.88**
Yearly Maximums	**12,054**	**12,895**	**13,775**	**14,395**	**14,992**	**15,235**	**15,473**	**15,751**	**16,019**	**16,262**	**16,492**	**16,552**	**16,180**											
Maximum Pounds per Day																								
Maximum Pounds per Hour [a]																								
Maximum Pounds per Month																								
Month with Maximum																								
Maximum Pounds per Year																								
Maximum Average Pounds per Hour [b]																								
Year with Maximum																								
Tons per Year																								

Onsite and Offsite VOC Emissions

Construction Step	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 1 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 2 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Units 1 & 2 Demolition																								
Total (lbs/month)	107.25	107.92	127.64	128.53	142.08	142.19	132.33	132.33	133.67	133.67	135.69	135.69	136.36	137.04	137.04	137.04	154.63	154.63	154.63	151.91	151.66	149.96	149.24	148.62
Total (lbs/day)	4.66	4.69	5.55	5.59	6.18	6.18	5.75	5.75	5.81	5.81	5.90	5.90	5.93	5.96	5.96	5.96	6.72	6.72	6.72	6.60	6.59	6.52	6.49	6.46
Bldgs. 33 & 34 Construction																								
Total (lbs/month)											14.37	57.30	57.25	67.61	61.18	59.96	18.11	18.04	18.15	18.27	18.06	18.34	18.28	16.97
Total (lbs/day)											0.62	2.49	2.49	2.94	2.66	2.61	0.79	0.78	0.79	0.79	0.79	0.80	0.79	0.74
Total Onsite and Offsite VOC Emissions (Construction Equipment and Vehicles)																								
Pounds per Month	**107.25**	**107.92**	**127.64**	**128.53**	**142.08**	**142.19**	**132.33**	**132.33**	**133.67**	**133.67**	**150.06**	**193.00**	**193.62**	**204.65**	**198.21**	**196.99**	**172.74**	**172.67**	**172.78**	**170.17**	**169.72**	**168.30**	**167.52**	**165.59**
Pounds per Day	**4.66**	**4.69**	**5.55**	**5.59**	**6.18**	**6.18**	**5.75**	**5.75**	**5.81**	**5.81**	**6.52**	**8.39**	**8.42**	**8.90**	**8.62**	**8.56**	**7.51**	**7.51**	**7.51**	**7.40**	**7.38**	**7.32**	**7.28**	**7.20**
Yearly Maximums	**1,631**	**1,717**	**1,814**	**1,884**	**1,953**	**1,983**	**2,014**	**2,054**	**2,092**	**2,128**	**2,163**	**2,180**	**2,153**											
Maximum Pounds per Day																								
Maximum Pounds per Hour [a]																								
Maximum Pounds per Month																								
Month with Maximum																								
Maximum Pounds per Year																								
Maximum Average Pounds per Hour [b]																								
Year with Maximum																								
Tons per Year																								

Onsite and Offsite NOx Emissions

Construction Step	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 1 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 2 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Units 1 & 2 Demolition																								
Total (lbs/month)	679.80	689.77	797.17	716.29	779.63	780.22	723.30	723.30	741.38	741.38	768.51	768.51	777.56	786.60	786.60	712.80	809.51	809.51	809.51	775.75	772.63	749.14	739.78	731.51
Total (lbs/day)	29.56	29.99	34.66	31.14	33.90	33.92	31.45	31.45	32.23	32.23	33.41	33.41	33.81	34.20	34.20	30.99	35.20	35.20	35.20	33.73	33.59	32.57	32.16	31.80
Bldgs. 33 & 34 Construction																								
Total (lbs/month)											93.74	362.67	361.66	433.45	393.10	356.75	122.03	121.35	123.55	126.13	121.72	127.60	126.49	98.57
Total (lbs/day)											4.08	15.77	15.72	18.85	17.09	15.51	5.31	5.28	5.37	5.48	5.29	5.55	5.50	4.29
Total Onsite and Offsite NOx Emissions (Construction Equipment and Vehicles)																								
Pounds per Month	**679.80**	**689.77**	**797.17**	**716.29**	**779.63**	**780.22**	**723.30**	**723.30**	**741.38**	**741.38**	**862.26**	**1,131.18**	**1,139.22**	**1,220.05**	**1,179.70**	**1,069.54**	**931.54**	**930.86**	**933.06**	**901.88**	**894.35**	**876.74**	**866.28**	**830.08**
Pounds per Day	**29.56**	**29.99**	**34.66**	**31.14**	**33.90**	**33.92**	**31.45**	**31.45**	**32.23**	**32.23**	**37.49**	**49.18**	**49.53**	**53.05**	**51.29**	**46.50**	**40.50**	**40.47**	**40.57**	**39.21**	**38.88**	**38.12**	**37.66**	**36.09**
Yearly Maximums	**9,366**	**9,825**	**10,355**	**10,738**	**11,091**	**11,243**	**11,394**	**11,603**	**11,782**	**11,935**	**12,070**	**12,074**	**11,773**											
Maximum Pounds per Day																								
Maximum Pounds per Hour [a]																								
Maximum Pounds per Month																								
Month with Maximum																								
Maximum Pounds per Year																								
Maximum Average Pounds per Hour [b]																								
Year with Maximum																								
Tons per Year																								

Table 5.1A.48R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Onsite and Offsite SOx Emissions

Construction Step	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 1 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 2 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Units 1 & 2 Demolition																								
Total (lbs/month)	1.8701	1.9173	2.3041	2.3939	2.6239	2.6452	2.5084	2.5084	2.6027	2.6027	2.7442	2.7442	2.7913	2.8385	2.8385	2.8385	3.0940	3.0940	3.0940	2.8982	2.8789	2.7170	2.6592	2.6024
Total (lbs/day)	0.0813	0.0834	0.1002	0.1041	0.1141	0.1150	0.1091	0.1091	0.1132	0.1132	0.1193	0.1193	0.1214	0.1234	0.1234	0.1234	0.1345	0.1345	0.1345	0.1260	0.1252	0.1181	0.1156	0.1131
Bldgs. 33 & 34 Construction																								
Total (lbs/month)											0.3071	0.9476	0.9484	1.1567	1.0943	1.0107	0.4882	0.4854	0.5068	0.5317	0.4890	0.5460	0.5353	0.2647
Total (lbs/day)											0.0134	0.0412	0.0412	0.0503	0.0476	0.0439	0.0212	0.0211	0.0220	0.0231	0.0213	0.0237	0.0233	0.0115
Total Onsite and Offsite SOx Emissions (Construction Equipment and Vehicles)																								
Pounds per Month	**1.8701**	**1.9173**	**2.3041**	**2.3939**	**2.6239**	**2.6452**	**2.5084**	**2.5084**	**2.6027**	**2.6027**	**3.0513**	**3.6918**	**3.7398**	**3.9952**	**3.9328**	**3.8492**	**3.5821**	**3.5794**	**3.6008**	**3.4299**	**3.3679**	**3.2630**	**3.1944**	**2.8671**
Pounds per Day	**0.0813**	**0.0834**	**0.1002**	**0.1041**	**0.1141**	**0.1150**	**0.1091**	**0.1091**	**0.1132**	**0.1132**	**0.1327**	**0.1605**	**0.1626**	**0.1737**	**0.1710**	**0.1674**	**0.1557**	**0.1556**	**0.1566**	**0.1491**	**0.1464**	**0.1419**	**0.1389**	**0.1247**
Yearly Maximums	**31**	**33**	**35**	**36**	**38**	**39**	**40**	**41**	**42**	**42**	**43**	**43**	**42**											
Maximum Pounds per Day																								
Maximum Pounds per Hour [a]																								
Maximum Pounds per Month																								
Month with Maximum																								
Maximum Pounds per Year																								
Maximum Average Pounds per Hour [b]																								
Year with Maximum																								
Tons per Year																								

Onsite and Offsite Exhaust PM_{10} Emissions

Construction Step	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 1 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 2 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Units 1 & 2 Demolition																								
Total (lbs/month)	40.19	41.66	52.39	53.35	57.61	59.80	58.25	58.25	61.14	61.14	65.48	65.48	66.93	68.37	68.37	63.67	67.92	67.92	67.92	61.49	60.65	50.87	48.35	44.59
Total (lbs/day)	1.75	1.81	2.28	2.32	2.50	2.60	2.53	2.53	2.66	2.66	2.85	2.85	2.91	2.97	2.97	2.77	2.95	2.95	2.95	2.67	2.64	2.21	2.10	1.94
Bldgs. 33 & 34 Construction																								
Total (lbs/month)											18.81	41.38	41.92	45.15	42.67	38.41	26.90	27.07	29.26	31.82	27.44	33.28	32.18	4.43
Total (lbs/day)											0.82	1.80	1.82	1.96	1.86	1.67	1.17	1.18	1.27	1.38	1.19	1.45	1.40	0.19
Total Onsite and Offsite Exhaust PM_{10} Emissions (Construction Equipment and Vehicles)																								
Pounds per Month	**40.19**	**41.66**	**52.39**	**53.35**	**57.61**	**59.80**	**58.25**	**58.25**	**61.14**	**61.14**	**84.29**	**106.86**	**108.84**	**113.53**	**111.05**	**102.09**	**94.81**	**94.99**	**97.18**	**93.31**	**88.09**	**84.15**	**80.53**	**49.01**
Pounds per Day	**1.75**	**1.81**	**2.28**	**2.32**	**2.50**	**2.60**	**2.53**	**2.53**	**2.66**	**2.66**	**3.66**	**4.65**	**4.73**	**4.94**	**4.83**	**4.44**	**4.12**	**4.13**	**4.23**	**4.06**	**3.83**	**3.66**	**3.50**	**2.13**
Yearly Maximums	**735**	**804**	**875**	**934**	**983**	**1,020**	**1,055**	**1,094**	**1,129**	**1,156**	**1,179**	**1,175**	**1,118**											
Maximum Pounds per Day																								
Maximum Pounds per Hour [a]																								
Maximum Pounds per Month																								
Month with Maximum																								
Maximum Pounds per Year																								
Maximum Average Pounds per Hour [b]																								
Year with Maximum																								
Tons per Year																								

Onsite and Offsite Fugitive PM_{10} Emissions

Construction Step	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 1 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 2 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Units 1 & 2 Demolition																								
Total (lbs/month)	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77	378.77
Total (lbs/day)	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47	16.47
Bldgs. 33 & 34 Construction																								
Total (lbs/month)											217.90	895.56	895.56	895.56	841.08	841.08	217.90	217.90	217.90	217.90	217.90	217.90	217.90	217.90
Total (lbs/day)											9.47	38.94	38.94	38.94	36.57	36.57	9.47	9.47	9.47	9.47	9.47	9.47	9.47	9.47
Total Onsite and Offsite Fugitive PM_{10} Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																								
Pounds per Month	**378.77**	**378.77**	**378.77**	**378.77**	**378.77**	**378.77**	**378.77**	**378.77**	**378.77**	**378.77**	**596.67**	**1,274.33**	**1,274.33**	**1,274.33**	**1,219.85**	**1,219.85**	**596.67**	**596.67**	**596.67**	**596.67**	**596.67**	**596.67**	**596.67**	**596.67**
Pounds per Day	**16.47**	**16.47**	**16.47**	**16.47**	**16.47**	**16.47**	**16.47**	**16.47**	**16.47**	**16.47**	**25.94**	**55.41**	**55.41**	**55.41**	**53.04**	**53.04**	**25.94**	**25.94**	**25.94**	**25.94**	**25.94**	**25.94**	**25.94**	**25.94**
Yearly Maximums	**5,659**	**6,554**	**7,450**	**8,291**	**9,132**	**9,350**	**9,568**	**9,786**	**10,004**	**10,221**	**10,439**	**10,439**	**9,762**											
Maximum Pounds per Day																								
Maximum Pounds per Hour [a]																								
Maximum Pounds per Month																								
Month with Maximum																								
Maximum Pounds per Year																								
Maximum Average Pounds per Hour [b]																								
Year with Maximum																								
Tons per Year																								

Table 5.1A.48R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite and Offsite PM_{10} Emissions (Exhaust and Fugitive)

Parameter	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Pounds per Month	418.96	420.43	431.16	432.12	436.38	438.57	437.02	437.02	439.91	439.91	680.96	1,381.19	1,383.17	1,387.85	1,330.90	1,321.94	691.48	691.66	693.85	689.98	684.76	680.82	677.20	645.68
Pounds per Day	18.22	18.28	18.75	18.79	18.97	19.07	19.00	19.00	19.13	19.13	29.61	60.05	60.14	60.34	57.87	57.48	30.06	30.07	30.17	30.00	29.77	29.60	29.44	28.07
Yearly Maximums	6,394	7,358	8,325	9,225	10,115	10,370	10,623	10,880	11,133	11,378	11,619	11,615	10,879											
Maximum Pounds per Day																								
Maximum Pounds per Hour [a]																								
Maximum Pounds per Month																								
Month with Maximum																								
Maximum Pounds per Year																								
Maximum Average Pounds per Hour [b]																								
Year with Maximum																								
Tons per Year																								

Onsite and Offsite Exhaust $PM_{2.5}$ Emissions

Construction Step	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 1 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 2 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Units 1 & 2 Demolition																								
Total (lbs/month)	33.58	34.24	41.03	38.04	41.52	42.13	40.29	40.29	41.57	41.57	43.48	43.48	44.12	44.76	44.76	40.09	44.33	44.33	44.33	41.66	41.35	38.17	37.25	36.06
Total (lbs/day)	1.46	1.49	1.78	1.65	1.81	1.83	1.75	1.75	1.81	1.81	1.89	1.89	1.92	1.95	1.95	1.74	1.93	1.93	1.93	1.81	1.80	1.66	1.62	1.57
Bldgs. 33 & 34 Construction																								
Total (lbs/month)											9.27	27.23	27.35	30.05	27.45	24.01	10.66	10.68	11.30	12.01	10.79	12.42	12.12	4.34
Total (lbs/day)											0.40	1.18	1.19	1.31	1.19	1.04	0.46	0.46	0.49	0.52	0.47	0.54	0.53	0.19
Total Onsite and Offsite Exhaust $PM_{2.5}$ Emissions (Construction Equipment and Vehicles)																								
Pounds per Month	33.58	34.24	41.03	38.04	41.52	42.13	40.29	40.29	41.57	41.57	52.75	70.72	71.47	74.81	72.21	64.10	55.00	55.02	55.63	53.67	52.13	50.59	49.36	40.41
Pounds per Day	1.46	1.49	1.78	1.65	1.81	1.83	1.75	1.75	1.81	1.81	2.29	3.07	3.11	3.25	3.14	2.79	2.39	2.39	2.42	2.33	2.27	2.20	2.15	1.76
Yearly Maximums	518	556	596	627	653	667	680	695	709	719	728	725	694											
Maximum Pounds per Day																								
Maximum Pounds per Hour [a]																								
Maximum Pounds per Month																								
Month with Maximum																								
Maximum Pounds per Year																								
Maximum Average Pounds per Hour [b]																								
Year with Maximum																								
Tons per Year																								

Onsite and Offsite Fugitive $PM_{2.5}$ Emissions

Construction Step	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 1 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Block 2 Construction																								
Total (lbs/month)																								
Total (lbs/day)																								
Units 1 & 2 Demolition																								
Total (lbs/month)	51.053	51.053	51.053	51.053	51.053	51.053	51.053	51.053	51.053	51.053	51.053	51.053	51.053	51.053	51.053	51.053	51.053	51.053	51.053	51.053	51.053	51.053	51.053	51.053
Total (lbs/day)	2.220	2.220	2.220	2.220	2.220	2.220	2.220	2.220	2.220	2.220	2.220	2.220	2.220	2.220	2.220	2.220	2.220	2.220	2.220	2.220	2.220	2.220	2.220	2.220
Bldgs. 33 & 34 Construction																								
Total (lbs/month)											21.790	178.125	178.125	178.125	172.678	172.678	21.790	21.790	21.790	21.790	21.790	21.790	21.790	21.790
Total (lbs/day)											0.947	7.745	7.745	7.745	7.508	7.508	0.947	0.947	0.947	0.947	0.947	0.947	0.947	0.947
Total Onsite and Offsite Fugitive $PM_{2.5}$ Emissions (Dismemberment, Debris Loading, Grading, Bulldozing, and Onsite Construction Vehicles)																								
Pounds per Month	51.05	51.05	51.05	51.05	51.05	51.05	51.05	51.05	51.05	51.05	72.84	229.18	229.18	229.18	223.73	223.73	72.84	72.84	72.84	72.84	72.84	72.84	72.84	72.84
Pounds per Day	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	2.22	3.17	9.96	9.96	9.96	9.73	9.73	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17
Yearly Maximums	813	991	1,169	1,341	1,514	1,536	1,558	1,580	1,601	1,623	1,645	1,645	1,489											
Maximum Pounds per Day																								
Maximum Pounds per Hour [a]																								
Maximum Pounds per Month																								
Month with Maximum																								
Maximum Pounds per Year																								
Maximum Average Pounds per Hour [b]																								
Year with Maximum																								
Tons per Year																								

Table 5.1A.48R Onsite and Offsite Construction Exhaust and Fugitive Emissions Summary

Total Onsite and Offsite $PM_{2.5}$ Emissions (Exhaust and Fugitive)

Parameter	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Pounds per Month	84.63	85.29	92.09	89.10	92.57	93.18	91.35	91.35	92.62	92.62	125.59	299.90	300.65	303.99	295.94	287.83	127.84	127.86	128.47	126.51	124.98	123.44	122.20	113.25
Pounds per Day	3.68	3.71	4.00	3.87	4.02	4.05	3.97	3.97	4.03	4.03	5.46	13.04	13.07	13.22	12.87	12.51	5.56	5.56	5.59	5.50	5.43	5.37	5.31	4.92
Yearly Maximums	1,330	1,546	1,765	1,969	2,168	2,203	2,238	2,275	2,310	2,342	2,373	2,370	2,183											
Maximum Pounds per Day																								
Maximum Pounds per Hour [a]																								
Maximum Pounds per Month																								
Month with Maximum																								
Maximum Pounds per Year																								
Maximum Average Pounds per Hour [b]																								
Year with Maximum																								
Tons per Year																								

Onsite and Offsite CO_2 Emissions

Construction Step	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																								
Total (metric tons/month)																								
Total (metric tons/day)																								
Block 1 Construction																								
Total (metric tons/month)																								
Total (metric tons/day)																								
Block 2 Construction																								
Total (metric tons/month)																								
Total (metric tons/day)																								
Units 1 & 2 Demolition																								
Total (metric tons/month)	85.42	87.68	104.75	108.92	119.00	119.95	114.14	114.14	118.67	118.67	125.46	125.46	127.72	129.99	129.99	129.99	141.22	141.22	141.22	131.84	130.93	123.39	120.65	118.03
Total (metric tons/day)	3.71	3.81	4.55	4.74	5.17	5.22	4.96	4.96	5.16	5.16	5.45	5.45	5.55	5.65	5.65	5.65	6.14	6.14	6.14	5.73	5.69	5.36	5.25	5.13
Bldgs. 33 & 34 Construction																								
Total (metric tons/month)											7.94	34.44	34.14	43.38	41.08	36.56	11.96	11.66	11.66	11.66	11.66	11.66	11.66	11.66
Total (metric tons/day)											0.35	1.50	1.48	1.89	1.79	1.59	0.52	0.51	0.51	0.51	0.51	0.51	0.51	0.51
Total Onsite and Offsite CO_2 Emissions (Construction Equipment and Vehicles)																								
Metric Tons per Month	85.42	87.68	104.75	108.92	119.00	119.95	114.14	114.14	118.67	118.67	133.40	159.90	161.86	173.37	171.07	166.54	153.18	152.87	152.87	143.50	142.59	135.05	132.31	129.69
Metric Tons per Day	3.71	3.81	4.55	4.74	5.17	5.22	4.96	4.96	5.16	5.16	5.80	6.95	7.04	7.54	7.44	7.24	6.66	6.65	6.65	6.24	6.20	5.87	5.75	5.64
Yearly Maximums	1,385	1,461	1,547	1,613	1,671	1,705	1,738	1,777	1,806	1,830	1,846	1,845	1,815											
Maximum Metric Tons per Day																								
Maximum Metric Tons per Hour [a]																								
Maximum Metric Tons per Month																								
Month with Maximum																								
Maximum Metric Tons per Year																								
Maximum Average Metric Tons per Hour [b]																								
Year with Maximum																								

Onsite and Offsite N_2O Emissions

Construction Step	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																								
Total (metric tons/month)																								
Total (metric tons/day)																								
Block 1 Construction																								
Total (metric tons/month)																								
Total (metric tons/day)																								
Block 2 Construction																								
Total (metric tons/month)																								
Total (metric tons/day)																								
Units 1 & 2 Demolition																								
Total (metric tons/month)	0.00193761	0.00194424	0.00234517	0.00237326	0.00263794	0.00264867	0.00245426	0.00245426	0.00246751	0.00246751	0.00248738	0.00248738	0.00249401	0.00250063	0.00250063	0.00250063	0.00278656	0.00278656	0.00278656	0.00275649	0.00275249	0.00270527	0.00269328	0.00267515
Total (metric tons/day)	0.00008424	0.00008453	0.00010196	0.00010319	0.00011469	0.00011516	0.00010671	0.00010671	0.00010728	0.00010728	0.00010815	0.00010815	0.00010844	0.00010872	0.00010872	0.00010872	0.00012115	0.00012115	0.00012115	0.00011985	0.00011967	0.00011762	0.00011710	0.00011631
Bldgs. 33 & 34 Construction																								
Total (metric tons/month)											0.00025636	0.00087739	0.00088009	0.00108157	0.00098081	0.00097293	0.00039665	0.00039756	0.00040829	0.00042081	0.00039935	0.00042796	0.00042260	0.00028667
Total (metric tons/day)											0.00001115	0.00003815	0.00003826	0.00004702	0.00004264	0.00004230	0.00001725	0.00001729	0.00001775	0.00001830	0.00001736	0.00001861	0.00001837	0.00001246
Total Onsite and Offsite N_2O Emissions (Construction Equipment and Vehicles)																								
Metric Tons per Month	0.00193761	0.00194424	0.00234517	0.00237326	0.00263794	0.00264867	0.00245426	0.00245426	0.00246751	0.00246751	0.00274375	0.00336478	0.00337409	0.00358220	0.00348144	0.00347356	0.00318322	0.00318412	0.00319485	0.00317730	0.00315184	0.00313323	0.00311587	0.00296182
Metric Tons per Day	0.00008424	0.00008453	0.00010196	0.00010319	0.00011469	0.00011516	0.00010671	0.00010671	0.00010728	0.00010728	0.00011929	0.00014629	0.00014670	0.00015575	0.00015137	0.00015102	0.00013840	0.00013844	0.00013891	0.00013814	0.00013704	0.00013623	0.00013547	0.00012877
Yearly Maximums	0.02984	0.03128	0.03291	0.03405	0.03515	0.03570	0.03623	0.03697	0.03769	0.03838	0.03904	0.03942	0.03901											
Maximum Metric Tons per Day																								
Maximum Metric Tons per Hour [a]																								
Maximum Metric Tons per Month																								
Month with Maximum																								
Maximum Metric Tons per Year																								
Maximum Average Metric Tons per Hour [b]																								
Year with Maximum																								

Onsite and Offsite CH_4 Emissions

Construction Step	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Peaker and Tank Area and Stack 3&4 Demolition																								
Total (metric tons/month)																								
Total (metric tons/day)																								
Block 1 Construction																								
Total (metric tons/month)																								
Total (metric tons/day)																								
Block 2 Construction																								
Total (metric tons/month)																								
Total (metric tons/day)																								
Units 1 & 2 Demolition																								
Total (metric tons/month)	0.0043517	0.0043587	0.0053222	0.0054323	0.0060438	0.0060954	0.0056447	0.0056447	0.0056588	0.0056588	0.0056799	0.0056799	0.0056870	0.0056940	0.0056940	0.0056940	0.0063318	0.0063318	0.0063318	0.0062865	0.0062756	0.0060982	0.0060654	0.0059925
Total (metric tons/day)	0.0001892	0.0001895	0.0002314	0.0002362	0.0002628	0.0002650	0.0002454	0.0002454	0.0002460	0.0002460	0.0002470	0.0002470	0.0002473	0.0002476	0.0002476	0.0002476	0.0002753	0.0002753	0.0002753	0.0002733	0.0002729	0.0002651	0.0002637	0.0002605
Bldgs. 33 & 34 Construction																								
Total (metric tons/month)											0.0007368	0.0021705	0.0021868	0.0026311	0.0023910	0.0024028	0.0011638	0.0011715	0.0012230	0.0012832	0.0011801	0.0013176	0.0012918	0.0006386
Total (metric tons/day)											0.0000320	0.0000944	0.0000951	0.0001144	0.0001040	0.0001045	0.0000506	0.0000509	0.0000532	0.0000558	0.0000513	0.0000573	0.0000562	0.0000278
Total Onsite and Offsite CH_4 Emissions (Construction Equipment and Vehicles)																								
Metric Tons per Month	0.00435	0.00436	0.00532	0.00543	0.00604	0.00610	0.00564	0.00564	0.00566	0.00566	0.00642	0.00785	0.00787	0.00833	0.00809	0.00810	0.00750	0.00750	0.00755	0.00757	0.00746	0.00742	0.00736	0.00663
Metric Tons per Day	0.00019	0.00019	0.00023	0.00024	0.00026	0.00027	0.00025	0.00025	0.00025	0.00025	0.00028	0.00034	0.00034	0.00036	0.00035	0.00035	0.00033	0.00033	0.00033	0.00033	0.00032	0.00032	0.00032	0.00029
Yearly Maximums	0.06848	0.07200	0.07597	0.07873	0.08139	0.08285	0.08425	0.08616	0.08809	0.08989	0.09164	0.09258	0.09136											
Maximum Metric Tons per Day																								
Maximum Metric Tons per Hour [a]																								
Maximum Metric Tons per Month																								
Month with Maximum																								
Maximum Metric Tons per Year																								
Maximum Average Metric Tons per Hour [b]																								
Year with Maximum																								

Notes:
[a] The hours per day are per 'Manpower Schedule Huntington Be
[b] The hours per year are assumed to allow operation 24 hours per

Attachment DA75-2
Detailed Exhaust Stack Parameters

Huntington Beach Energy Project
Attachment DR75-2
Detailed Exhaust Stack Parameters

Source ID	Stack Release Type (Beta)	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Stack Height (m)	Temperature (K)	Exit Velocity (m/s)	Stack Diameter (m)
E01	Horizontal	409329	3723184	3.7	4.6	533	18	0.127
E02	Horizontal	409345	3723173	3.7	4.6	533	18	0.127
E03	Horizontal	409362	3723161	3.7	4.6	533	18	0.127
E04	Horizontal	409378	3723150	3.7	4.6	533	18	0.127
E05	Horizontal	409341	3723203	3.7	4.6	533	18	0.127
E06	Horizontal	409358	3723191	3.7	4.6	533	18	0.127
E07	Horizontal	409374	3723180	3.7	4.6	533	18	0.127
E08	Horizontal	409391	3723168	3.7	4.6	533	18	0.127
E09	Horizontal	409354	3723222	3.7	4.6	533	18	0.127
E10	Horizontal	409371	3723210	3.7	4.6	533	18	0.127
E11	Horizontal	409387	3723199	3.7	4.6	533	18	0.127
E12	Horizontal	409404	3723187	3.7	4.6	533	18	0.127
E13	Horizontal	409395	3723138	3.7	4.6	533	18	0.127
E14	Horizontal	409412	3723126	3.7	4.6	533	18	0.127
E15	Horizontal	409428	3723115	3.7	4.6	533	18	0.127
E16	Horizontal	409445	3723103	3.7	4.6	533	18	0.127
E17	Horizontal	409408	3723157	3.7	4.6	533	18	0.127
E18	Horizontal	409424	3723145	3.7	4.6	533	18	0.127
E19	Horizontal	409441	3723133	3.7	4.6	533	18	0.127
E20	Horizontal	409457	3723122	3.7	4.6	533	18	0.127
E21	Horizontal	409420	3723175	3.7	4.6	533	18	0.127
E22	Horizontal	409437	3723164	3.7	4.6	533	18	0.127
E23	Horizontal	409454	3723152	3.7	4.6	533	18	0.127
E24	Horizontal	409470	3723141	3.7	4.6	533	18	0.127
E25	Horizontal	409487	3723129	3.7	4.6	533	18	0.127
E26	Horizontal	409469	3723294	3.7	4.6	533	18	0.127
E27	Horizontal	409469	3723276	3.7	4.6	533	18	0.127
E28	Horizontal	409469	3723257	3.7	4.6	533	18	0.127
E29	Horizontal	409469	3723239	3.7	4.6	533	18	0.127
E30	Horizontal	409469	3723221	3.7	4.6	533	18	0.127
E31	Horizontal	409469	3723202	3.7	4.6	533	18	0.127
E32	Horizontal	409469	3723184	3.7	4.6	533	18	0.127
E33	Horizontal	409469	3723166	3.7	4.6	533	18	0.127
E34	Horizontal	409488	3723294	3.7	4.6	533	18	0.127
E35	Horizontal	409488	3723276	3.7	4.6	533	18	0.127
E36	Horizontal	409488	3723257	3.7	4.6	533	18	0.127
E37	Horizontal	409488	3723239	3.7	4.6	533	18	0.127
E38	Horizontal	409489	3723221	3.7	4.6	533	18	0.127
E39	Horizontal	409489	3723203	3.7	4.6	533	18	0.127
E40	Horizontal	409489	3723184	3.7	4.6	533	18	0.127
E41	Horizontal	409489	3723166	3.7	4.6	533	18	0.127
E42	Horizontal	409489	3723148	3.7	4.6	533	18	0.127
E43	Horizontal	409508	3723294	3.7	4.6	533	18	0.127
E44	Horizontal	409508	3723276	3.7	4.6	533	18	0.127
E45	Horizontal	409508	3723258	3.7	4.6	533	18	0.127
E46	Horizontal	409508	3723239	3.7	4.6	533	18	0.127
E47	Horizontal	409508	3723221	3.7	4.6	533	18	0.127
E48	Horizontal	409508	3723203	3.7	4.6	533	18	0.127
E49	Horizontal	409508	3723184	3.7	4.6	533	18	0.127
E50	Horizontal	409508	3723166	3.7	4.6	533	18	0.127
E51	Horizontal	409508	3723148	3.7	4.6	533	18	0.127
E52	Horizontal	409527	3723294	3.7	4.6	533	18	0.127
E53	Horizontal	409527	3723276	3.7	4.6	533	18	0.127
E54	Horizontal	409527	3723258	3.7	4.6	533	18	0.127
E55	Horizontal	409527	3723239	3.7	4.6	533	18	0.127
E56	Horizontal	409528	3723221	3.7	4.6	533	18	0.127
E57	Horizontal	409528	3723203	3.7	4.6	533	18	0.127
E58	Horizontal	409528	3723185	3.7	4.6	533	18	0.127
E59	Horizontal	409528	3723166	3.7	4.6	533	18	0.127
E60	Horizontal	409528	3723148	3.7	4.6	533	18	0.127
E61	Horizontal	409547	3723295	3.7	4.6	533	18	0.127
E62	Horizontal	409547	3723276	3.7	4.6	533	18	0.127
E63	Horizontal	409547	3723258	3.7	4.6	533	18	0.127
E64	Horizontal	409547	3723240	3.7	4.6	533	18	0.127
E65	Horizontal	409547	3723221	3.7	4.6	533	18	0.127

Huntington Beach Energy Project
Attachment DR75-2
Detailed Exhaust Stack Parameters

Source ID	Stack Release Type (Beta)	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Stack Height (m)	Temperature (K)	Exit Velocity (m/s)	Stack Diameter (m)
E66	Horizontal	409547	3723203	3.7	4.6	533	18	0.127
E67	Horizontal	409547	3723185	3.7	4.6	533	18	0.127
E68	Horizontal	409547	3723166	3.7	4.6	533	18	0.127
E69	Horizontal	409547	3723148	3.7	4.6	533	18	0.127
E70	Horizontal	409509	3723130	3.7	4.6	533	18	0.127
W01	Horizontal	409086	3723188	3.7	4.6	533	18	0.127
W02	Horizontal	409103	3723177	3.7	4.6	533	18	0.127
W03	Horizontal	409120	3723165	3.7	4.6	533	18	0.127
W04	Horizontal	409136	3723153	3.7	4.6	533	18	0.127
W05	Horizontal	409153	3723142	3.7	4.6	533	18	0.127
W06	Horizontal	409169	3723130	3.7	4.6	533	18	0.127
W07	Horizontal	409186	3723119	3.7	4.6	533	18	0.127
W08	Horizontal	409203	3723107	3.7	4.6	533	18	0.127
W09	Horizontal	409099	3723207	3.7	4.6	533	18	0.127
W10	Horizontal	409116	3723195	3.7	4.6	533	18	0.127
W11	Horizontal	409132	3723184	3.7	4.6	533	18	0.127
W12	Horizontal	409149	3723172	3.7	4.6	533	18	0.127
W13	Horizontal	409165	3723160	3.7	4.6	533	18	0.127
W14	Horizontal	409182	3723149	3.7	4.6	533	18	0.127
W15	Horizontal	409199	3723137	3.7	4.6	533	18	0.127
W16	Horizontal	409215	3723126	3.7	4.6	533	18	0.127
W17	Horizontal	409112	3723226	3.7	4.6	533	18	0.127
W18	Horizontal	409128	3723214	3.7	4.6	533	18	0.127
W19	Horizontal	409145	3723202	3.7	4.6	533	18	0.127
W20	Horizontal	409162	3723191	3.7	4.6	533	18	0.127
W21	Horizontal	409178	3723179	3.7	4.6	533	18	0.127
W22	Horizontal	409195	3723168	3.7	4.6	533	18	0.127
W23	Horizontal	409211	3723156	3.7	4.6	533	18	0.127
W24	Horizontal	409228	3723144	3.7	4.6	533	18	0.127
W25	Horizontal	409124	3723244	3.7	4.6	533	18	0.127
W26	Horizontal	409141	3723233	3.7	4.6	533	18	0.127
W27	Horizontal	409158	3723221	3.7	4.6	533	18	0.127
W28	Horizontal	409174	3723209	3.7	4.6	533	18	0.127
W29	Horizontal	409191	3723198	3.7	4.6	533	18	0.127
W30	Horizontal	409207	3723186	3.7	4.6	533	18	0.127
W31	Horizontal	409224	3723175	3.7	4.6	533	18	0.127
W32	Horizontal	409241	3723163	3.7	4.6	533	18	0.127
W33	Horizontal	409137	3723263	3.7	4.6	533	18	0.127
W34	Horizontal	409154	3723251	3.7	4.6	533	18	0.127
W35	Horizontal	409170	3723240	3.7	4.6	533	18	0.127
W36	Horizontal	409187	3723228	3.7	4.6	533	18	0.127
W37	Horizontal	409204	3723217	3.7	4.6	533	18	0.127
W38	Horizontal	409220	3723205	3.7	4.6	533	18	0.127
W39	Horizontal	409237	3723193	3.7	4.6	533	18	0.127
W40	Horizontal	409253	3723182	3.7	4.6	533	18	0.127
W41	Horizontal	409150	3723282	3.7	4.6	533	18	0.127
W42	Horizontal	409166	3723270	3.7	4.6	533	18	0.127
W43	Horizontal	409183	3723258	3.7	4.6	533	18	0.127
W44	Horizontal	409200	3723247	3.7	4.6	533	18	0.127
W45	Horizontal	409216	3723235	3.7	4.6	533	18	0.127
W46	Horizontal	409233	3723224	3.7	4.6	533	18	0.127
W47	Horizontal	409249	3723212	3.7	4.6	533	18	0.127
W48	Horizontal	409266	3723200	3.7	4.6	533	18	0.127
W49	Horizontal	409163	3723300	3.7	4.6	533	18	0.127
W50	Horizontal	409179	3723289	3.7	4.6	533	18	0.127
W51	Horizontal	409196	3723277	3.7	4.6	533	18	0.127
W52	Horizontal	409212	3723266	3.7	4.6	533	18	0.127
W53	Horizontal	409229	3723254	3.7	4.6	533	18	0.127
W54	Horizontal	409246	3723242	3.7	4.6	533	18	0.127
W55	Horizontal	409262	3723231	3.7	4.6	533	18	0.127
W56	Horizontal	409279	3723219	3.7	4.6	533	18	0.127
W57	Horizontal	409175	3723319	3.7	4.6	533	18	0.127
W58	Horizontal	409192	3723307	3.7	4.6	533	18	0.127
W59	Horizontal	409208	3723296	3.7	4.6	533	18	0.127
W60	Horizontal	409225	3723284	3.7	4.6	533	18	0.127

Huntington Beach Energy Project
Attachment DR75-2
Detailed Exhaust Stack Parameters

Source ID	Stack Release Type (Beta)	Easting (X) (m)	Northing (Y) (m)	Base Elevation (m)	Stack Height (m)	Temperature (K)	Exit Velocity (m/s)	Stack Diameter (m)
W61	Horizontal	409242	3723273	3.7	4.6	533	18	0.127
W62	Horizontal	409258	3723261	3.7	4.6	533	18	0.127
W63	Horizontal	409275	3723249	3.7	4.6	533	18	0.127
W64	Horizontal	409291	3723238	3.7	4.6	533	18	0.127
W65	Horizontal	409188	3723338	3.7	4.6	533	18	0.127
W66	Horizontal	409205	3723326	3.7	4.6	533	18	0.127
W67	Horizontal	409221	3723315	3.7	4.6	533	18	0.127
W68	Horizontal	409238	3723303	3.7	4.6	533	18	0.127
W69	Horizontal	409254	3723291	3.7	4.6	533	18	0.127
W70	Horizontal	409271	3723280	3.7	4.6	533	18	0.127
W71	Horizontal	409288	3723268	3.7	4.6	533	18	0.127
W72	Horizontal	409304	3723257	3.7	4.6	533	18	0.127
S01	Horizontal	409219	3723095	3.7	4.6	533	18	0.127
S02	Horizontal	409236	3723084	3.7	4.6	533	18	0.127
S03	Horizontal	409252	3723072	3.7	4.6	533	18	0.127
S04	Horizontal	409269	3723061	3.7	4.6	533	18	0.127
S05	Horizontal	409286	3723049	3.7	4.6	533	18	0.127
S06	Horizontal	409302	3723037	3.7	4.6	533	18	0.127
S07	Horizontal	409232	3723114	3.7	4.6	533	18	0.127
S08	Horizontal	409248	3723102	3.7	4.6	533	18	0.127
S09	Horizontal	409265	3723091	3.7	4.6	533	18	0.127
S10	Horizontal	409282	3723079	3.7	4.6	533	18	0.127
S11	Horizontal	409298	3723068	3.7	4.6	533	18	0.127
S12	Horizontal	409315	3723056	3.7	4.6	533	18	0.127
S13	Horizontal	409245	3723133	3.7	4.6	533	18	0.127
S14	Horizontal	409261	3723121	3.7	4.6	533	18	0.127
S15	Horizontal	409278	3723110	3.7	4.6	533	18	0.127
S16	Horizontal	409294	3723098	3.7	4.6	533	18	0.127
S17	Horizontal	409311	3723086	3.7	4.6	533	18	0.127
S18	Horizontal	409328	3723075	3.7	4.6	533	18	0.127
S19	Horizontal	409257	3723151	3.7	4.6	533	18	0.127
S20	Horizontal	409274	3723140	3.7	4.6	533	18	0.127
S21	Horizontal	409290	3723128	3.7	4.6	533	18	0.127
S22	Horizontal	409307	3723117	3.7	4.6	533	18	0.127
S23	Horizontal	409324	3723105	3.7	4.6	533	18	0.127
S24	Horizontal	409340	3723093	3.7	4.6	533	18	0.127
S25	Horizontal	409270	3723170	3.7	4.6	533	18	0.127
S26	Horizontal	409287	3723159	3.7	4.6	533	18	0.127
S27	Horizontal	409303	3723147	3.7	4.6	533	18	0.127
S28	Horizontal	409320	3723135	3.7	4.6	533	18	0.127
S29	Horizontal	409336	3723124	3.7	4.6	533	18	0.127
S30	Horizontal	409353	3723112	3.7	4.6	533	18	0.127
S31	Horizontal	409283	3723189	3.7	4.6	533	18	0.127
S32	Horizontal	409299	3723177	3.7	4.6	533	18	0.127
S33	Horizontal	409316	3723166	3.7	4.6	533	18	0.127
S34	Horizontal	409332	3723154	3.7	4.6	533	18	0.127
S35	Horizontal	409349	3723142	3.7	4.6	533	18	0.127
S36	Horizontal	409366	3723131	3.7	4.6	533	18	0.127
S37	Horizontal	409331	3723044	3.7	4.6	533	18	0.127
S38	Horizontal	409344	3723063	3.7	4.6	533	18	0.127
S39	Horizontal	409357	3723082	3.7	4.6	533	18	0.127
S40	Horizontal	409373	3723070	3.7	4.6	533	18	0.127
S41	Horizontal	409370	3723101	3.7	4.6	533	18	0.127
S42	Horizontal	409386	3723089	3.7	4.6	533	18	0.127
S43	Horizontal	409403	3723077	3.7	4.6	533	18	0.127
S44	Horizontal	409382	3723119	3.7	4.6	533	18	0.127
S45	Horizontal	409399	3723108	3.7	4.6	533	18	0.127
S46	Horizontal	409415	3723096	3.7	4.6	533	18	0.127