
Appendix C

Air Quality-Emissions Calculations

Methodology for Air Emissions Calculations

CalEEMod Rationale

The air emissions and greenhouse gas emissions associated with the deconstruction of the Port Costa Wharf Marine Oil Terminal (MOT) (Project) have been calculated using the California Emissions Estimator Model Version 2013.2.2 (CalEEMod). CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutants and greenhouse gas (GHG) emissions associated with both construction and operations from a variety of land use projects. CalEEMod was chosen over other similar models like URBEMIS because it was developed in collaboration with air districts in California, including the Bay Area Air Quality Management District (BAAQMD). Default data have been provided by the air districts to account for local requirements and conditions. In addition, the model identifies mitigation measures, developed and adopted by the California Air Pollution Control Officers Association (CAPCOA), to reduce criteria pollutant and GHG emissions along with calculating benefits achieved from measures chosen by the user.

The model is an accurate and comprehensive tool for quantifying air quality impacts from land use projects throughout California. The model can be used for a variety of situations where an air quality analysis is necessary or desirable such as California Environmental Quality Act (CEQA) documents, National Environmental Policy Act (NEPA) documents, pre-project planning, compliance with local air quality rules and regulations, etc.

CalEEMod is a linear model and does not allow the user to run simultaneous project phases. For example, the user cannot enter site grading and demolition to occur over the same time period. When applied to the Project, every demolition/deconstruction phase was independently entered into the model and emissions from each activity are occurring sequentially. However, Tasks 9 thru 12 will occur during Tasks 1 thru 8. This is further explained under the descriptions for Tasks 9 thru 12.

Vessels and Equipment

The use of diesel fueled internal combustion engines for the deconstruction and removal of material and debris of the Port Costa Wharf MOT will result in emissions of criteria pollutants and greenhouse gas emissions. The various vessels and equipment listed below were taken from a similar deconstruction and pipeline abandonment project for the Coscol Petroleum/El Paso Corporation (Coscol) MOT in San Pablo Bay. It is anticipated that the following vessels and equipment may be used for the project:

- Crane (200 ton)
- Crane (20 ton)
- Derrick crane
- Excavator with shear
- Concrete drill
- 2kW Portable electrical generator to power electrical equipment on boat for diving
- Hydraulic core drill and power unit
- Chicago pneumatic CP9 roto impact drill
- 250 amp gas powered welder

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- Hydraulic power unit for pumps
- Diamond wire saw
- Pulverizer
- Vibratory hammer
- Hydraulic pile cutter
- Steel pile/pipe cutter
- Tug boat (1,000 horsepower)
- Tug boat (500 horsepower)
- Anchor boat
- Loader
- Compactor
- Dump truck
- Diver support equipment
- Crew boat
- Contractor commuting vehicles
- Hand tools*
- Roll-off bins*
- Barge (50 feet by 130 feet)*
- Barge (40 feet by 80 feet)*

*Not powered by internal combustion and therefore there are no resulting air emissions

To reflect the most realistic emissions estimates from this project, the prevailing default factors and load factors from CalEEMod were used for the above vessels and equipment. However, for the off-road equipment that CalEEMod did not have a specific listing, the closest possible equipment type was chosen in CalEEMod along with its respective default emission factor. One special instance is the three types of cranes being used for this project: a derrick crane, a 20 ton crane and a 200 ton crane. CalEEMod's default horsepower for cranes (208 HP) was used as it is higher than the derrick crane and 20 ton crane horsepowers (100 HP and 152 HP respectively) from the Coscol example. However, the horsepower identified for the 200 ton crane (340 HP) in the Coscol example was used because it is higher than the CalEEMod default crane horsepower. See the "Checklist of Equipment" table for a complete breakdown of the selected equipment.

It is important to note that the marine vessels (i.e. two tug boats, anchor boat and crew boat) that will be used for this project are NOT identified and listed in the Off-Road Equipment drop-down menu in CalEEMod. In addition, these types of harbor craft are notoriously high-polluting vessels because their engines run on marine diesel oil. In order to properly account for the higher rate of emissions from these vessels, a separate spreadsheet was used to account for their use in each of the applicable deconstruction phases. To simplify the calculations and to provide a conservative estimate of emissions from these three types of harbor crafts, the use of each type has been accounted for under the 1,000 HP tugboat classification as this is the vessel with the largest engine and has the highest emissions associated with its use.

Phases of Deconstruction

The entire deconstruction and removal of all MOT materials is expected to last 3 to 6 months. The Project is estimated to begin around June 1, 2014 and to be completed by October/November 2014. For the purposes of these calculations, a 5-month period was assumed to provide a conservative estimate of a worst-case scenario. Operating schedules for the crew and supervisors were based on a 5-day work week and 8-hour workday. Therefore, it is assumed that all marine vessels and equipment were used for 8 hours each workday for their respective tasks.

The different phases of demolition were based on a similar demolition and pipeline abandonment project for the Coscol Petroleum/El Paso Corporation (Coscol) MOT in San Pablo Bay. Below are several differences between these projects:

- Port Costa Wharf MOT includes the removal, treatment and disposal of two 12 in diameter steel pipes (one 228 ft and one 275 ft long)
- There are significantly fewer pilings to be removed from the Port Costa Wharf MOT
- There are no appurtenant facilities to be removed from the Port Costa Wharf MOT

The main phases of demolition for the Port Costa Wharf MOT are as follows:

Task 1 – Mobilization/Demobilization Site Preparation: The 1,000 HP Tug Boat, 500 HP Tug Boat, and 500 HP Anchor Boat will be used to haul the barges containing the material and equipment both to and from the project site. These boats will launch from their original site to the project site and then return to their original location after the project is completed. The tug boats and anchor boat operation and distance for this task was NOT entered into the “Construction Phase” tab of CalEEMod but rather rolled into the attached *Port Costa – Barge_Crew Boat Emissions* spreadsheet.

Total Working Days = 6. Dates entered into CalEEMod: June 2, 2014 - June 9, 2014. Please note that there are actually 3 days in the beginning and end of the project but for simplicity they were entered into CalEEMod as a single task as 6 days to capture the worker trip mileage. The Port Costa – Barge_Crew Boat Emissions spreadsheet is not date sensitive and only considers total working days for emissions calculations for this phase.

Task 2 - Wharf fixtures removal: Deck fixtures and remnants of equipment will be removed and deconstructed. Deck fixtures include metal fenders, mooring bits, mooring cleats, nails, coils, wiring, chain link fencing, and mooring posts. Fixture removal may proceed concurrently with deck deconstruction. It is anticipated that this task will be primarily performed with hand tools and thus no emissions will be associated with phase. However, these materials will be collected in a pile and lifted by a Derrick Crane onto a barge. This phase was not explicitly included in the Coscol Air Emissions Summary and Calculations. Therefore it was estimated that it would take the derrick crane 3 days to load this material onto the barge. ***Total Working Days = 3. Dates entered into CalEEMod: June 10, 2014 - June 12, 2014.***

Task 3 - Mooring Dolphin Deconstruction and Removal: The MOT includes two mooring dolphin decks made of concrete. Each mooring dolphin deck measures approximately 9 feet by 15 feet. The average deck thickness is about 2 feet. It is anticipated that each mooring dolphin will be cut into multiple pieces using a Concrete Drill and Diamond Wire Saw and lifted with a Derrick Crane and placed onto the barges in preparation for onshore offloading. The 500 HP tug boat and anchor boat will be utilized to

move the barges for this phase. The Coscol example estimated the equipment operating between 16 – 26 days for this phase. Due to the smaller size of the Project, 16 days was estimated for this phase. The tug boat and anchor boat operation and distance for this task was NOT entered into the “Construction Phase” tab of CalEEMod but rather rolled into the attached *Tug Boat Emissions* spreadsheet. **Total Working Days = 16. Dates entered into CalEEMod: June 13, 2014 – July 4, 2014.**

Task 4 - Wooden Deck Deconstruction and Removal: The MOT includes a central predominantly wood landing platform measuring approximately 103 feet by 34 feet, and three smaller pier platforms approximately 24 feet by 30 feet, 18 feet by 36 feet, and 18 feet by 36 feet, respectively. In addition, there are two mooring platforms with wood decking on concrete piles; one is approximately 30 feet by 18 feet and the other is approximately 21 feet by 18 feet. It is assumed that these platforms will be cut into pieces with an Excavator with Shear, Industrial Saw and then lifted with a Derrick Crane and placed onto the barges in preparation for onshore offloading. The 500 HP tug boat and anchor boat will be utilized to move the barges for this phase. The Coscol example estimated the equipment operating between 16 – 26 days for the deconstruction of the steel-reinforced central landing platform. Port Costa’s central landing platform is much smaller compared to Coscol’s (60 feet by 160 feet) and is made of wood, making it much easier to demolish and remove. For these reasons, 16 days were estimated for this phase. The tug boat and anchor boat operation and distance for this task were NOT entered into the “Construction Phase” tab of CalEEMod but rather rolled into the attached *Tug boat Emissions Spreadsheet*. **Total Days = 16. Dates entered into CalEEMod: July 7, 2014 – July 28, 2014.**

Task 5 - Wooden pile vibratory extraction and removal: The MOT facility has approximately 117 timber piles that are likely creosote treated. Associated with the main wharf structure are approximately 63 timber piles as well as 13 timber piles from two wood dolphins in the northernmost section of the project. There are approximately 28 piles lying on the Carquinez Strait bottom. The three smaller piers/platforms running perpendicular to the shore are supported by approximately 13 timber piles (9, 2, and 2 piles each). The wooden piles will be removed by vibratory extraction using a vibratory pile extractor. The cranes will then load the piles onto the barges in preparation for onshore offloading. According to the Coscol example, timber piles can be removed by vibratory extraction at a rate of 7 piles per day. It would take 17 days to remove 117 wooden piles at a rate of 7 piles per day, and to be conservative, 18 days were assumed. The 500 HP tug boat and 500 HP anchor boat operation and distance for this task was NOT entered into the “Construction Phase” tab of CalEEMod but rather rolled into the attached *Tug Boat Emissions* spreadsheet. **Total Days = 18. Dates entered into CalEEMod: July 29, 2014 – August 21, 2014.**

Task 6 - Concrete pile cutting: The various structures associated with the MOT include an estimated total of eleven 20-inch square concrete piles. The two wood deck mooring platforms to the south of the wharf are supported by 8 and 3 concrete piles each. Given their proximity to the embankment that supports the active rail line, these piles, if attempted to be completely removed, could destabilize the rail bed embankment. Therefore the piles will be cut off to no lower than the mean high water (MHW) line using a Hydraulic Pile Cutter or another suitable device and then lifted with a 200 ton crane and 20 ton crane and placed onto a barge in preparation for onshore offloading. In the Coscol example, it was estimated that it would take 26 days for the concrete pile cutting equipment to cut 259 concrete piles; this equals a cutting rate of 10 piles per day. Both the Port Costa and Coscol concrete piles were measured at 20 inches in diameter. At this rate, it would take the concrete pile cutting equipment 1 day to cut the 11 concrete piles, and to be conservative, 2 days were assumed. The 500 HP tug boat and anchor boat operation and distance for this task was NOT entered into the “Construction Phase” tab of CalEEMod but rather rolled into the attached *Tug Boat Emissions* spreadsheet. **Total Days = 2. Dates entered into CalEEMod: August 22, 2014 - August 25, 2014.**

Task 7 - Steel pile vibratory extraction and removal: Each mooring dolphin is supported by approximately 12 steel piles for a total of up to 24 steel piles. The steel piles will be removed by vibratory extraction using a vibratory hammer. The steel piles will be loaded onto a barge with a 200 ton crane and 20 ton crane and transported to a staging area, and transported to a recycling center if the waste material is acceptable for recycling. Since there was no explicit duration or task listed for any steel pile cutting in the Coscol example, a conservative steel pile removal rate of 7 piles per day was used to determine that it would take 4 days to remove 24 steel piles. To be conservative, 5 days were assumed. The 500 HP tug boat and 500 HP anchor boat operation and distance for this task was NOT entered into the "Construction Phase" tab of CalEEMod but rather entered into the *Port Costa – Barge_Crew Boat Emissions Spreadsheet*. **Total Days = 5. Dates entered into CalEEMod: August 26, 2014 – September 1, 2014.**

Task 8 - Removal of steel pipeline, debris, and marker buoys: Two 12 inch diameter steel pipes (one 228 feet and one 275 feet) will be treated, removed, cut in segments and taken off site. The lengths of both steel pipes have been rounded up to 300 feet for a total of 600 feet of steel pipeline. First, it will take 4 days for the pipeline to be sampled by cold tapping using a 2 kW generator for power. Second, it is assumed that the pipeline will need to be flush cleaned and this will take another 4 days. Third, it will take 2 days lift the pipeline out of the water by crane and then cut each 300 feet section into 5 feet sections in order to be transported and recycled. In addition to the pipeline cutting and removal, any pile remnants identified by underwater observation will be lifted, along with the marker buoys, by the 200 ton and 20 ton cranes onto a barge and transported to the staging area for transport by truck to a landfill that is permitted to accept the waste. The marker buoys will be reused. It is mentioned in Task 5 that there are 28 wooden piles on the Carquinez Strait bottom. Based on a rate of 8 piles per day removal for the cranes and anchor boat and 67 piles per day for the 500 HP tug boat, it would take 4 days to remove these piles. The removal of the wooden piles and pipeline would happen concurrently. There will be 14 total working days for the cranes, generator, excavator, and tugboats. The concrete/industrial saw will only be used for 5 working days. The tug boat and anchor boat operation and distance for this task was NOT entered into the "Construction Phase" tab of CalEEMod but rather rolled into the attached *Tug Boat Emissions Spreadsheet*. **Total Days for cranes, generator, excavator, 500 HP tugboat and anchor boat = 14. Total Days for concrete/industrial saw = 5. Dates entered into CalEEMod: September 2, 2014 – September 19, 2014.**

Task 9 - Movement of barges to shore: The two barges containing the removed MOT materials will be pulled to shore by the tugboats. Due to the much smaller size and much less material associated with the Port Costa MOT (compared to the Coscol project), this phase duration was halved to 2.5 days (rounded up to 3 days). The tug boat operation and distance for this task was NOT entered into the "Construction Phase" tab of CalEEMod but rolled into the attached *Tug Boat Emissions spreadsheet*. The Coscol example estimated that it would take 5 days to complete this phase. **Total Days for 1,000 HP tugboat and 500 HP tugboat = 3. Dates entered into CalEEMod: September 22, 2014 – September 24, 2014. Please note that Tasks 9 – 12 will occur with Tasks 1 – 8 as debris and material will be continuously moved to shore as it is removed from the MOT. Therefore, only the working days in Tasks 1 – 8 are counted in the Project total = 80. Dates entered into CalEEMod after Task 8 are only placeholder dates to satisfy the linear/non-concurrent nature of the model.**

Task 10 - Onshore offloading: The MOT materials will be lifted by a 200 ton crane and placed onto a secure staging area of the shore for proper handling and removal to a landfill or recycling center. This task was estimated to take 26 days in the Coscol example. Due to the much smaller size and much less material associated with the Port Costa MOT, this phase duration was halved to 13 days. **Total Days = 13. Dates entered into CalEEMod for crane: September 25, 2014 – October 13, 2014. Please note**

that Tasks 9 – 12 will occur with Tasks 1 – 8 as debris and material will be continuously moved to shore as it is removed from the MOT. Therefore, only the working days in Tasks 1 – 8 are counted in the Project total = 80. Dates entered into CalEEMod after Task 8 are only placeholder dates to satisfy the linear/non-concurrent nature of the model.

Task 11 - Size reduction of debris: Some of the MOT materials, such as the steel pipeline, concrete mooring dolphins and pilings, may be too large to haul to a suitable landfill or recycling facility. In order to maximize the amount of debris per hauling trip, the MOT materials will be broken or cut into smaller pieces using an excavator with pulverizer and steel. This task was estimated to take 43 days in the Coscol example. Due to the much smaller size and much less material associated with the Port Costa MOT, this phase duration was estimated at 10 days. **Total Days = 10. Dates entered into CalEEMod for excavator with pulverizer: October 14, 2014 – October 27, 2014. Please note that Tasks 9 – 12 will occur with Tasks 1 – 8 as debris and material will be continuously moved to shore as it is removed from the MOT. Therefore, only the working days in Tasks 1 – 8 are counted in the Project total = 80. Dates entered into CalEEMod after Task 8 are only placeholder dates to satisfy the linear/non-concurrent nature of the model.**

Task 12 - Hauling of debris to landfill/recycling facility: Once reduced to a suitable size, the remnant MOT materials and debris will be loaded onto the dump truck with a loader and transported to a landfill or recycling facility that is permitted to accept the waste. After the dump truck is loaded, it is assumed that it will travel to Potrero Hills Landfill located in Suisun City, Solano County. To determine the distance for a one-way trip from the project site to Potrero Hills Landfill, a pin was dropped at the Port Costa Wharf MOT using Google Earth and driving directions were set between there and the address of Potrero Hills Landfill: 3675 Potrero Hills Lane, Suisun City, CA. The distance of a one-way trip from the project site to Potrero Hills is 29 miles.

To account for the roundtrips associated with the disposal of the Port Costa MOT timber piles, the 37 roundtrips associated with the disposal of Coscol timber piles was reduced by 20% because the total number Coscol timber piles is roughly 20% greater than that of Port Costa (178 Coscol timber piles versus 145 timber piles from Port Costa). This equals 30 roundtrips for the disposal of the Port Costa timber piles. To account for the additional wood that comprised of the central landing platform, an additional 8 roundtrips were added to account for the complete disposal of wood products totaling 38 roundtrips.

To account for the roundtrips associated with the concrete and re-bar disposal, the 11 Port Costa concrete piles were divided over the 259 Coscol concrete piles equaling 4.2%. This percent was then multiplied into the 580 roundtrips associated with the disposal of the Coscol concrete and rebar reducing the associated roundtrips to 24 (rounded up to 25 roundtrips).

To account for the roundtrips associated with the Port Costa scrap steel disposal, all 40 roundtrips associated with the disposal of the Coscol scrap steel were used. This was done to account for the 24 steel piles and two 300 ft pieces of steel piping that were identified in the Port Costa Wharf MOT along with any additional miscellaneous steel found within the MOT.

The “Demolition” and “Trips and VMT” tab in CalEEMod was utilized to determine emissions from the dump truck hauling trips. It is estimated that the total weight of all the debris hauled off-site to the landfill/recycling facility is 886 tons. This was done by using density factors taken from a CalRecycle report titled, *Targeted Statewide Waste Characterization Study: Detailed Characterization of Construction and Demolition Waste* (Cascadia, 2006). The density for concrete with re-bar was listed as

860 lbs/cubic yard. Specific densities for C&D steel and water-logged timber were not readily available in this study so a conservative value of 860 lbs/cubic yard was used for these materials. An industry standard of 20 cubic yards/truck was used as the default amount and was multiplied into the roundtrips for each type of material to get the total cubic yards for timber, concrete and steel. The total cubic yards for each type of material were then multiplied into the default CalRecycle C&D density value and divided by 2,000 to get the total tons of debris for timber, concrete and steel.

Refer to the Demolition and Hauling Input Value in CalEEMod for more details. **Total Days = 40. Dates entered into CalEEMod for dump truck disposal trips: October 28, 2014 – December 22, 2014. Total Hauling Trips entered into CalEEMod: 103 roundtrips x 2 = 206 one-way trips. Tons of Debris entered into CalEEMod = 886. Please note that Tasks 9 – 12 will occur with Tasks 1 – 8 as debris and material will be continuously moved to shore as it is removed from the MOT. Therefore, only the working days in Tasks 1 – 8 are counted in the Project total = 80. Dates entered into CalEEMod after Task 8 are only placeholder dates to satisfy the linear/non-concurrent nature of the model.**

Contractor vehicle commuting and crew boat operation: To estimate emissions from worker vehicle commuting the number of worker/subcontractor vehicles from the Coscol example was used. This scenario placed 15 total vehicles commuting from varying distances and intervals for the entire project as well as daily activity from the crew boat moving workers to and from the Project site. 15 vehicles traveling to and from the project site each day equals 30 trips. The workers will have to travel the same daily distance to and from the project site (in both vehicles and the crew boat) regardless of the project size. Instead of using the worker commute distances from the Coscol example, the default worker distance from CalEEMod were used (12.4 miles).

There will be a total of 80 actual working days estimated for this Project, and the Project's daily working hours are limited to 8 hours each day, and 5 days a week. It is assumed that the crew boat will operate for each of the 80 working days for 8 hours each day. The total number of days and hours per day were manually entered into the "Crew Boat" tab of the *Port Costa – Barge_Crew Boat Emissions* spreadsheet. The emission factors for the crew boats were assumed to be similar to a recreational boat and were taken from the California Air Resources Board's OFFROAD2007 model. OFFROAD2007 can be downloaded here: <http://www.arb.ca.gov/msei/categories.htm>

Since CalEEMod accounts for vehicle travel for each Demolition phase, the implicit dates are: June 1, 2014 – October 31, 2014. Total Daily Worker Trips entered into each phase of CalEEMod: 15 one way trips x 2 = 30. Total number of working days entered into the Port Costa – Barge_Crew Boat Emissions spreadsheet for crew boat operation = 80.

Note: The 30 daily worker trips were also entered into CalEEMod for Task 12 because it is assumed that the workers will be at the project site to coordinate the loading and hauling of materials to the landfill.

Mitigation Measures

It is assumed that the project will use the BAAQMD CEQA Guidelines Basic Construction/Mitigation Measures which include:

- watering the exposed area twice per day
- offroad vehicles traveling 15 mph
- removing all visible mud/dirt track-out using a wet power vacuum

These measures were entered into the CalEEMod Construction Mitigation Module. A 70% reduction in fugitive dust from PM taken from an Antelope Valley AQMD Chemical Soil Stabilization Study (source:

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<http://www.avagmd.ca.gov/Modules/ShowDocument.aspx?documentid=2705>). A 0.5% moisture content was assumed for the unpaved roads in Contra Costa County in the summer.

Refer to Section 2.0 for the entire project description.

Phase Name	Port Costa OffRoad Equip Type	CalEEMod Equip Type	Entered into CalEEMod?	# Construction Days	Op Hrs Entered into Barge Crew Boat preadsheet?	Hours/Day entered into CalEEMod	HP Entered	Load Factor Entered	Notes
Task 1: Mobilization/Demobilization Site Preparation	Other Construction Equipment	Other Construction Equipment	Y	6	N/A	0	CalEEMod Default	CalEEMod Default	"Other Construction Equipment" entered for 0 hrs to provide for worker VMT
Task 1: Mobilization/Demobilization Site Preparation	1000 HP Tug Boat	N/A	N/A	6	8	N/A	1000	N/A	
Task 1: Mobilization/Demobilization Site Preparation	500 HP Tug Boat	N/A	N/A	6	8	N/A	500	N/A	
Task 1: Mobilization/Demobilization Site Preparation	Anchor Boat	N/A	N/A	6	8	N/A	500	N/A	
Task 2: Wharf Fixtures Removal	Derrick Crane	Crane	Y	3	N/A	8	CalEEMod Default	CalEEMod Default	
Task 3: Mooring Dolphin Demolition and Removal	Concrete Drill	Bore/Drill Rigs	Y	16	N/A	8	CalEEMod Default	CalEEMod Default	
Task 3: Mooring Dolphin Demolition and Removal	Diamond Wire Saw	Concrete/Industrial Saws	Y	16	N/A	8	CalEEMod Default	CalEEMod Default	
Task 3: Mooring Dolphin Demolition and Removal	Derrick Crane	Crane	Y	16	N/A	8	CalEEMod Default	CalEEMod Default	
Task 3: Mooring Dolphin Demolition and Removal	500 HP Tug Boat	N/A	N/A	16	8	N/A	500	N/A	
Task 4: Wooden Deck Demolition and Removal	Excavator With Shear	Excavators	Y	16	N/A	8	CalEEMod Default	CalEEMod Default	
Task 4: Wooden Deck Demolition and Removal	Industrial Saw	Concrete/Industrial Saws	Y	16	N/A	8	CalEEMod Default	CalEEMod Default	
Task 4: Wooden Deck Demolition and Removal	Derrick Crane	Cranes	Y	16	N/A	8	CalEEMod Default	CalEEMod Default	
Task 4: Wooden Deck Demolition and Removal	500 HP Tug Boat	N/A	N/A	16	8	N/A	500	N/A	
Task 4: Wooden Deck Demolition and Removal	Anchor Boat	N/A	N/A	16	8	N/A	500	N/A	
Task 5: Wooden Pile Removal	Vibratory Pile Extractor	Other Construction Equipment	Y	18	N/A	8	515	CalEEMod Default	
Task 5: Wooden Pile Removal	200 Ton Crane	Crane	Y	18	N/A	8	340	CalEEMod Default	
Task 5: Wooden Pile Removal	20 Ton Crane	Crane	Y	18	N/A	8	CalEEMod Default	CalEEMod Default	
Task 5: Wooden Pile Removal	500 HP Tug Boat	N/A	N/A	18	8	N/A	500	N/A	
Task 5: Wooden Pile Removal	Anchor Boat	N/A	N/A	18	8	N/A	500	N/A	
Task 6: Concrete Pile Cutting	Hydraulic pile Cutter	Concrete/Industrial Saws	Y	2	N/A	8	CalEEMod Default	CalEEMod Default	
Task 6: Concrete Pile Cutting	200 Ton Crane	Crane	Y	2	N/A	8	340	CalEEMod Default	
Task 6: Concrete Pile Cutting	20 Ton Crane	Crane	Y	2	N/A	8	CalEEMod Default	CalEEMod Default	
Task 6: Concrete Pile Cutting	500 HP Tug Boat	N/A	N/A	2	8	N/A	500	N/A	
Task 6: Concrete Pile Cutting	Anchor Boat	N/A	N/A	2	8	N/A	500	N/A	
Task 7: Steel Pile Removal	Vibratory Pile Extractor	Other Construction Equipment	Y	5	N/A	8	515	CalEEMod Default	
Task 7: Steel Pile Removal	200 Ton Crane	Crane	Y	5	N/A	8	340	CalEEMod Default	
Task 7: Steel Pile Removal	20 Ton Crane	Crane	Y	5	N/A	8	CalEEMod Default	CalEEMod Default	
Task 7: Steel Pile Removal	500 HP Tug Boat	N/A	N/A	5	8	N/A	500	N/A	
Task 7: Steel Pile Removal	Anchor Boat	N/A	N/A	5	8	N/A	500	N/A	
Task 8: Removal of Steel Pipeline, Debris and Material	200 Ton Crane	Crane	Y	14	N/A	8	340	CalEEMod Default	
Task 8: Removal of Steel Pipeline, Debris and Material	20 Ton Crane	Crane	Y	14	N/A	8	CalEEMod Default	CalEEMod Default	
Task 8: Removal of Steel Pipeline, Debris and Material	Generator	Generator Sets	Y	14	N/A	8	CalEEMod Default	CalEEMod Default	
Task 8: Removal of Steel Pipeline, Debris and Material	Concrete/Industrial Saws	Concrete/Industrial Saws	Y	5	N/A	8	CalEEMod Default	CalEEMod Default	
Task 8: Removal of Steel Pipeline, Debris and Material	500 HP Tug Boat	N/A	N/A	14	8	N/A	500	N/A	
Task 8: Removal of Steel Pipeline, Debris and Material	Anchor Boat	N/A	N/A	14	8	N/A	500	N/A	
Task 9: Movement of Barges to Shore	Other Construction Equipment	Other Construction Equipment	Y	3	N/A	0	CalEEMod Default	CalEEMod Default	
Task 9: Movement of Barges to Shore	1000 HP Tug Boat	N/A	N/A	3	8	N/A	500	N/A	
Task 9: Movement of Barges to Shore	500 HP Tug Boat	N/A	N/A	3	8	N/A	500	N/A	
Task 10: Onshore Offloading	200 Ton Crane	Crane	Y	13	N/A	8	340	CalEEMod Default	
Task 11: Size Reduction of Debris	Excavator With Pulverizer	Excavators	Y	10	N/A	8	CalEEMod Default	CalEEMod Default	
Task 12: Hauling of Debris to Landfill/Recycling Facility	Loader	Tractors/Loaders/Backhoes	Y	40	N/A	8	CalEEMod Default	N/A	Activity will be accounted for under Trips and VMT in CalEEMod
Task 12: Hauling of Debris to Landfill/Recycling Facility	Dump Truck		Y	40	N/A	N/A	CalEEMod Default	N/A	Activity will be accounted for under Trips and VMT in CalEEMod

Total Construction Days*

80

*Actual total construction days include Tasks 1 - 8; Tasks 9 - 12 will occur during Tasks 9 - 12.

Demolition Hauling Input Values for CalEEMod¹

Material	Roundtrips	Cu. Yds ³	Pounds per Cu. Yd.	Tons
Timber ²	38	760	860	327
Concrete with re-bar	25	500	860	215
Steel ²	40	800	860	344
Total	103	2060		886

¹Density factors taken from a CalRecycle report titled, *Targeted Statewide Waste Characterization Study: Detailed Characterization of Construction and Demolition Waste (Cascadia, 2006)*.

²Timber and steel were conservatively assumed to be as dense as concrete with re-bar.

³An industry standard of 20 cubic yards/truck was used as the default amount and was multiplied into the roundtrips for each type of material to get the total cubic yards for timber, concrete and steel.

Port Costa Barge Emissions

Assumptions

Main Generator Engine	1000 bhp 745.7 kW
Aux Generator Engine	500 bhp 372.8 kW
Number	1.0
Construction Days Per Year	80.0

Assumptions

Main Generator Engine	500 bhp 372.8 kW
Aux Generator Engine	250 bhp 186.4 kW
Number	1.0

Emissions (pounds per day)

Activity	Equipment (HP)	Number	Number of Construction Days	Time (hours per day)	Emissions (pounds per day)							Emissions (total tons)							
					ROG	NOx	CO	PM10	PM2.5	CO2e*	ROG	NOx	CO	PM10	PM2.5	CO2e*			
500 hp tugboat/anchor boat	500	1		8	4.10	35.72	17.52	1.18	1.08	2,880.48									
1000 hp tugboat	1000	1		8	8.53	81.41	34.18	2.97	2.74	5,760.97									
Task 1	1000/500	2	6	8	16.74	152.86	69.23	5.33	4.90	11,521.93	0.05	0.46	0.21	0.02	0.01				31.45
Task 3	500	2	16	8	8.21	71.44	35.04	2.36	2.17	5,760.97	0.07	0.57	0.28	0.02	0.02				41.94
Task 4	500	2	16	8	8.21	71.44	35.04	2.36	2.17	5,760.97	0.07	0.57	0.28	0.02	0.02				41.94
Task 5	500	2	18	8	8.21	71.44	35.04	2.36	2.17	5,760.97	0.07	0.64	0.32	0.02	0.02				47.18
Task 6	500	2	2	8	8.21	71.44	35.04	2.36	2.17	5,760.97	0.01	0.07	0.04	0.00	0.00				5.24
Task 7	500	2	5	8	8.21	71.44	35.04	2.36	2.17	5,760.97	0.02	0.18	0.09	0.01	0.01				13.11
Task 8	500	2	14	8	8.21	71.44	35.04	2.36	2.17	5,760.97	0.06	0.50	0.25	0.02	0.02				36.70
Task 9	1000/500	2	3	8	12.63	117.14	51.71	4.15	3.82	8,641.45	0.02	0.18	0.08	0.01	0.01				11.80
Total											0.36	3.17	1.53	0.11	0.10				229.36

*N2O and CH4 emission factors were not readily available. To account for these additional trace emissions, an extra 2% was added to the CO2 emissions. This 2% observation was derived from an average taken from separate study performed by AECOM involving CARB Emission Factors for Ocean Going Vessels.

Main Engine - 2013 Emission Factors (g/bhp-hr)

	ROG	NOx	CO	PM10	PM2.5	CO2	Fuel
500 hp	0.68	6.60	2.95	0.24	0.22	645	184.16
1000 hp	0.71	7.53	2.83	0.31	0.28	645	184.16

Note: CO2 emission factor in g/kWh

Source: ARB Harborcraft Emission Inventory Database

Auxiliary Engine - 2013 Emission Factors (g/bhp-hr)

	ROG	NOx	CO	PM10	PM2.5	CO2	Fuel
500 hp	0.81	6.27	3.31	0.23	0.21	690	184.16
1000 hp	0.84	7.12	3.39	0.28	0.26	690	184.16

Note: CO2 emission factor in g/kWh

Source: ARB Harborcraft Emission Inventory Database

Load Factor

Engine	Load factor
Propulsion	0.5
Auxiliary	0.31

Source: ARB, Appendix B, Emissions Estimation Methodology for Commercial Harbor Craft Operating in California

Table B-4 Fuel Correction Factor

Calendar Years	Horsepower Range	Model Years	NOx	PM
1984-2006	<25	Pre-1995		
	25-50	Pre-1999		
	51-100	Pre-1998	0.930	0.750
	101-175	Pre-1997		
	176+	Pre-1996		
2007+	<25	1996+		
	25-50	1996-2010		
	51-100	1996-2010	0.948	0.832
	101-175	1997-2010		
	176+	1996-2010		
2007+	<25	Pre-1995		
	25-50	Pre-1999		
	51-100	Pre-1998	0.930	0.730
	101-175	Pre-1997		
	176+	Pre-1996		
2007+	<25	1996+		
	25-50	1996-2010		
	51-100	1996-2010	0.948	0.830
	101-175	1997-2010		
	176+	1996-2010		
All	2011+		0.948	0.852

Source: Off-road Exhaust Emission Inventory Fuel Correction Factors (2)

The basic equation for the estimating emissions from a commercial harbor craft engine is:

$$E = EF_i \times F \times (1 + D) \times \frac{A}{UL} \times HP \times LF \times H$$

Where:

- E is the amount of emissions of a pollutant (ROG, CO, NOx, or PM) emitted during one period;
- EF_i is the model year, horsepower and engine use (propulsion or auxiliary) specific zero hour emission factor (when engine is new);
- F is the fuel correction factor which accounts for emission reduction benefits from burning cleaner fuel;
- D is the horsepower and pollutant specific engine deterioration factor, which is the percentage increase of emission factors at the end of the useful life of the engine;
- A is the age of the engine when the emissions are estimated;
- UL is the vessel type and engine use specific engine useful life;
- HP is rated horsepower of the engine;
- LF is the vessel type and engine use specific engine load factor;
- H is the number of annual operating hours of the engine.

ID	HP Range	HP Category	MaxHP	Model Year	MY HP Group	ME ROG	ME CO	ME NOx	ME PM	AE ROG	AE CO	AE NOx	AE PM	Fuel
200	- Implies 251-500	5	500	1996	MY1996HP5	0.68	1.971	9.6406	0.361	0.8092	2.781	8.17	0.3192	184.1585022
201	- Implies 251-500	5	500	1997	MY1997HP5	0.68	1.971	9.6406	0.361	0.8092	2.781	8.17	0.3192	184.1585022
202	- Implies 251-500	5	500	1998	MY1998HP5	0.68	1.971	9.6406	0.361	0.8092	2.781	8.17	0.3192	184.1585022
203	- Implies 251-500	5	500	1999	MY1999HP5	0.68	1.971	9.6406	0.361	0.8092	2.781	8.17	0.3192	184.1585022
204	- Implies 251-500	5	500	2000	MY2000HP5	0.68	1.971	7.31	0.361	0.8092	2.781	7.31	0.3192	184.1585022
205	- Implies 251-500	5	500	2001	MY2001HP5	0.68	1.971	7.31	0.361	0.8092	2.781	7.31	0.3192	184.1585022
206	- Implies 251-500	5	500	2002	MY2002HP5	0.68	1.971	7.31	0.361	0.8092	2.781	7.31	0.3192	184.1585022
207	- Implies 251-500	5	500	2003	MY2003HP5	0.68	1.971	7.31	0.361	0.8092	2.781	7.31	0.3192	184.1585022
208	- Implies 251-500	5	500	2004	MY2004HP5	0.68	3.73	5.1015	0.15	0.8092	3.73	5.1015	0.15	184.1585022
209	- Implies 251-500	5	500	2005	MY2005HP5	0.68	3.73	5.1015	0.15	0.8092	3.73	5.1015	0.15	184.1585022
210	- Implies 251-500	5	500	2006	MY2006HP5	0.68	3.73	5.1015	0.15	0.8092	3.73	5.1015	0.15	184.1585022
211	- Implies 251-500	5	500	2007	MY2007HP5	0.68	3.73	5.1015	0.15	0.8092	3.73	5.1015	0.15	184.1585022
212	- Implies 251-500	5	500	2008	MY2008HP5	0.68	3.73	5.1015	0.15	0.8092	3.73	5.1015	0.15	184.1585022
213	- Implies 251-500	5	500	2009	MY2009HP5	0.68	3.73	5.1015	0.15	0.8092	3.73	5.1015	0.15	184.1585022
214	- Implies 251-500	5	500	2010	MY2010HP5	0.68	3.73	5.1015	0.15	0.8092	3.73	5.1015	0.15	184.1585022
215	- Implies 251-500	5	500	2011	MY2011HP5	0.68	3.73	5.1015	0.15	0.8092	3.73	5.1015	0.15	184.1585022
216	- Implies 251-500	5	500	2012	MY2012HP5	0.68	3.73	5.1015	0.15	0.8092	3.73	5.1015	0.15	184.1585022
217	- Implies 251-500	5	500	2013	MY2013HP5	0.68	3.73	5.1015	0.15	0.8092	3.73	5.1015	0.15	184.1585022
304	- Implies 751-1900	7	1900	1996	MY1996HP7	0.84	2.993	12.98	0.5035	0.9996	4.223	11	0.4452	184.1585022
305	- Implies 751-1900	7	1900	1997	MY1997HP7	0.84	2.993	12.98	0.5035	0.9996	4.223	11	0.4452	184.1585022
306	- Implies 751-1900	7	1900	1998	MY1998HP7	0.84	2.993	12.98	0.5035	0.9996	4.223	11	0.4452	184.1585022
307	- Implies 751-1900	7	1900	1999	MY1999HP7	0.68	1.971	9.6406	0.361	0.8092	2.781	8.17	0.3192	184.1585022
308	- Implies 751-1900	7	1900	2000	MY2000HP7	0.68	1.971	7.31	0.361	0.8092	2.781	7.31	0.3192	184.1585022
309	- Implies 751-1900	7	1900	2001	MY2001HP7	0.68	1.971	7.31	0.361	0.8092	2.781	7.31	0.3192	184.1585022
310	- Implies 751-1900	7	1900	2002	MY2002HP7	0.68	1.971	7.31	0.361	0.8092	2.781	7.31	0.3192	184.1585022
311	- Implies 751-1900	7	1900	2003	MY2003HP7	0.68	1.971	7.31	0.361	0.8092	2.781	7.31	0.3192	184.1585022
312	- Implies 751-1900	7	1900	2004	MY2004HP7	0.68	1.971	7.31	0.361	0.8092	2.781	7.31	0.3192	184.1585022
313	- Implies 751-1900	7	1900	2005	MY2005HP7	0.68	1.971	7.31	0.361	0.8092	2.781	7.31	0.3192	184.1585022
314	- Implies 751-1900	7	1900	2006	MY2006HP7	0.68	1.971	7.31	0.361	0.8092	2.781	7.31	0.3192	184.1585022
315	- Implies 751-1900	7	1900	2007	MY2007HP7	0.68	3.73	5.529	0.2	0.8092	3.73	5.529	0.2	184.1585022
316	- Implies 751-1900	7	1900	2008	MY2008HP7	0.68	3.73	5.529	0.2	0.8092	3.73	5.529	0.2	184.1585022
317	- Implies 751-1900	7	1900	2009	MY2009HP7	0.68	3.73	5.529	0.2	0.8092	3.73	5.529	0.2	184.1585022
318	- Implies 751-1900	7	1900	2010	MY2010HP7	0.68	3.73	5.529	0.2	0.8092	3.73	5.529	0.2	184.1585022
319	- Implies 751-1900	7	1900	2011	MY2011HP7	0.68	3.73	5.529	0.2	0.8092	3.73	5.529	0.2	184.1585022
320	- Implies 751-1900	7	1900	2012	MY2012HP7	0.68	3.73	4.085	0.08	0.8092	3.73	4.085	0.08	184.1585022
321	- Implies 751-1900	7	1900	2013	MY2013HP7	0.68	3.73	4.085	0.08	0.8092	3.73	4.085	0.08	184.1585022

500 hp
1000 hp

Average Emission Factors

ME ROG	ME CO	ME NOx	ME PM	AE ROG	AE CO	AE NOx	AE PM	Fuel
0.68	2.95	6.60	0.24	0.81	3.31	6.27	0.23	184.16
0.71	2.83	7.53	0.31	0.84	3.39	7.12	0.28	184.16

Port Costa Crew Boat Emissions

Emission Factor (lbs/hour)

Source Description	Number	Usage Factor	Unit	ROG	NOX	CO	PM10	PM2.5	CO2	CH4	N2O
				0.04	0.00	0.07	0.01	0.01	0.55	0.0025	0.0001

Total Daily Emissions (lbs/day)

Source Description	Number	Usage Factor	Unit	ROG	NOX	CO	PM10	PM2.5	CO2	CH4	N2O	CO2e
Crew Boat	1	8	hrs/day	0.32	0.01	0.55	0.05	0.04	4.40	0.02	0.00	5.10

Total Emission (tons)

GHGs are expressed in metric tons

Source Description	Number	Usage Factor	Unit	ROG	NOX	CO	PM10	PM2.5	CO2	CH4	N2O	CO2e
Crew Boat	1	8	hrs/day	0.01	0.00	0.02	0.00	0.00	0.16	0.00	0.00	0.19

Total Days	80
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Global Warming Potential

Gas	Global Warming Potential (100 year time horizon)
Carbon Dioxide	1
Methane	21
Nitrous Oxide	310

Equipment	Fuel	Max HP	Class	Population	Activity	Consumption	ROG Exhaust	CO Exhaust	NOX Exhaust	CO2 Exhaust	SO2 Exhaust	PM Exhaust	N2O Exhaust	CH4 Exhaust	ROG	CO	NOX	CO2	SO2	PM	N2O	CH4	
Vessels w/Inboard Engines	G4	250	Pleasure Craft	4,226.50	1,074.02	5,975.27	0.23	7.20	0.29	45.50	0.00	0.00	0.01	0.01	0.00007	0.00224	0.00009	0.01418	0.00000	0.00000	0.00000	0.00000	0.00000
Vessels w/Outboard Engines	G2	2	Pleasure Craft	82.34	10.80	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16423	0.20884	0.00076	0.83328	0.00002	0.01378	0.00060	0.01021	
Vessels w/Outboard Engines	G2	15	Pleasure Craft	4,558.13	597.83	115.49	0.09	0.14	0.00	0.54	0.00	0.01	0.00	0.01	0.00266	0.00407	0.00010	0.01574	0.00000	0.00026	0.00002	0.00017	
Vessels w/Outboard Engines	G2	25	Pleasure Craft	1,238.63	162.45	90.97	0.06	0.11	0.00	0.49	0.00	0.01	0.00	0.00	0.00746	0.01513	0.00052	0.06661	0.00000	0.00110	0.00005	0.00046	
Vessels w/Outboard Engines	G2	50	Pleasure Craft	1,209.24	158.60	225.48	0.09	0.14	0.01	1.62	0.00	0.01	0.00	0.01	0.00481	0.00808	0.00059	0.09068	0.00000	0.00082	0.00004	0.00030	
Vessels w/Outboard Engines	G2	120	Pleasure Craft	1,063.35	139.46	415.86	0.15	0.28	0.02	3.01	0.00	0.03	0.00	0.01	0.00511	0.00963	0.00068	0.10380	0.00000	0.00095	0.00003	0.00032	
Vessels w/Outboard Engines	G2	175	Pleasure Craft	491.04	64.40	349.08	0.12	0.27	0.02	2.48	0.00	0.02	0.00	0.01	0.01092	0.02376	0.00139	0.22073	0.00000	0.00208	0.00005	0.00068	
Vessels w/Outboard Engines	G2	250	Pleasure Craft	140.97	18.49	128.63	0.04	0.09	0.01	0.94	0.00	0.01	0.00	0.00	0.03777	0.07197	0.00725	0.78689	0.00001	0.00763	0.00018	0.00235	
Vessels w/Outboard Engines	G2	500	Pleasure Craft	28.46	3.73	37.56	0.01	0.03	0.00	0.26	0.00	0.00	0.00	0.00	0.21011	0.38430	0.00377	3.76679	0.00006	0.03654	0.00023	0.01306	
Vessels w/Outboard Engines	G4	50	Pleasure Craft	744.28	97.62	132.43	0.01	0.22	0.01	0.91	0.00	0.00	0.00	0.00	0.00125	0.03345	0.00100	0.14038	0.00000	0.00001	0.00006	0.00007	
Vessels w/Stern Drive Engines	G4	250	Pleasure Craft	10,345.75	2,063.63	8,493.31	0.32	10.22	0.41	64.69	0.00	0.01	0.01	0.02	0.00004	0.00117	0.00005	0.00738	0.00000	0.00000	0.00000	0.00000	
															0.04040	0.06933	0.00147	0.54968	0.00001	0.00574	0.00011	0.00251	

Port Costa Marine Vessel Emissions

Marine Vessel Maximum Daily Emissions (lbs/day)

ROG	NOx	CO	PM10	PM2.5	CO2e*
17.06	152.87	69.78	5.38	4.95	#####

Marine Vessel Total Tons metric tons

ROG	NOx	CO	PM10	PM2.5	CO2e*
0.37	3.17	1.55	0.11	0.10	229.54

Emissions (pounds per day)						
Task	ROG	NOx	CO	PM10	PM2.5	CO2e*
Task 1: Mobilization/Demobilization Site Preparation	17.06	152.87	69.78	5.38	4.95	11,527.03
Task 2: Wharf fixtures removal	0.40	0.01	0.69	0.06	0.05	5.10
Task 3: Mooring Dolphin Demolition and Removal	8.53	71.46	35.60	2.40	2.21	5,766.07
Task 4 Wooden Deck Demolition and Removal	8.53	71.46	35.60	2.40	2.21	5,766.07
Task 5: Wooden pile cutting/breaking	8.53	71.46	35.60	2.40	2.21	5,766.07
Task 6: Concrete pile cutting	10.66	89.32	44.50	3.00	2.76	7,419.39
Task 7: Steel pile cutting and removal	10.66	89.32	44.50	3.00	2.76	7,419.39
Task 8: Removal of debris and marker buoys	10.66	89.32	44.50	3.00	2.76	7,419.39
Task 9: Movement of barges to shore	12.96	117.15	52.26	4.20	3.86	8,646.55
Task 10: Onshore offloading	0.40	0.01	0.69	0.06	0.05	6.38
Task 11: Size reduction of debris	0.40	0.01	0.69	0.06	0.05	6.38
Task 12: Hauling of debris to landfill/recycling facility	0.40	0.01	0.69	0.06	0.05	6.38
Task 13: Demobilization Site Preparation	21.33	191.09	87.23	6.72	6.18	14,832.39

Table 8.3-F: GHG Emission Factors								
Emission Factors			Pollutant (g/kW-hr)			CH4 (as CO2e)	N2O (as CO2e)	% from CH4 and N2O
Engine Type	Fuel	Mode	CO ₂ ^a	CH ₄ ^a	N ₂ O ^b			
Main Engine (Slow)	Heavy Fuel Oil	Transit	620	0.08	0.031	1.68	9.61	1.82%
Main Engine (Slow)	Heavy Fuel Oil	Maneuvering	620	0.08	0.031	1.68	9.61	1.82%
Auxiliary Engine (Medium)	Heavy Fuel Oil	Transit, Maneuvering, and Hotelling	722	0.09	0.031	1.89	9.61	1.59%
Auxiliary Boiler	Heavy Fuel Oil	Maneuvering and Hotelling	970	0.03	0.08	0.63	24.8	2.62%
^a Carbon dioxide and methane emission factors obtained from CARB, Emissions Estimation Methodology for Ocean-Going Vessels, May 2008, Tables II-6 through II-9, p. D-20 and D-21.						Average		1.96%
^b Nitrous Oxide emission factors obtained from Port of Los Angeles Inventory of Emissions CY 2008, December 2009, Tables 3.7, 3.12 and 3.15.								

Greenhouse Gas	GWP
Methane	21
Nitrous Oxide	310

Phillips 66 Port Costa Wharf MOT Deconstruction
Contra Costa County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	0.00	User Defined Unit	6.81	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2014
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.011

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - The entire project area is 6.81 acres (this includes a 200 ft buffer zone surrounding the site). At the peak of deconstruction and removal, an estimated 12 construction workers will be on site.

Construction Phase - Deconstruction activities at the MOT will be limited to normal workdays and hours based on 5-day work week and 8-hour workday.

Off-road Equipment -

Off-road Equipment - Mobilization only.

Off-road Equipment - Estimated construction equipment

Off-road Equipment - Estimated construction equipment

Off-road Equipment - One loader is assumed to be loading the reduced material into the dump truck.

Off-road Equipment - Estimated construction equipment

Off-road Equipment - Estimated construction equipment

Off-road Equipment - Estimated construction equipment

Off-road Equipment - Vibratory Pile Extractor to be used as "Other Construction Equipment". 200 ton crane (HP manually entered) and 20 ton crane.

Off-road Equipment - Estimated construction equipment

Off-road Equipment - Other Construction Equipment used in place of Vibratory Pile Extractor. 200 ton crane (340 HP manually entered) and 20 ton crane.

Off-road Equipment - Used 200 crane (340 HP manually entered) and 20 ton crane.

Off-road Equipment - No offroad equipment, used as a placeholder - barge emissions only

Trips and VMT - Assumes 15 x 2 worker trips per day for all construction tasks using the default distance for worker trip length.

Haul trips based on 103 trips x 2 at a distance of 29 miles based on distance from project site to landfill.

Demolition -

Construction Off-road Equipment Mitigation -

Waste Mitigation - It is estimated that approximately 60% of the total C&D waste is concrete and steel and 40% is timber. It is assumed that 100% of the C&D waste from concrete and steel will be recycled. 100% of the timber waste is assumed to be landfilled.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	250
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	250
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	250
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	250

tblConstDustMitigation	CleanPavedRoadPercentReduction	0	80
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	13.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	20.00	3.00
tblConstructionPhase	NumDays	20.00	16.00
tblConstructionPhase	NumDays	20.00	16.00
tblConstructionPhase	NumDays	20.00	18.00
tblConstructionPhase	NumDays	20.00	2.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	20.00	14.00
tblConstructionPhase	NumDays	20.00	3.00
tblConstructionPhase	PhaseStartDate	7/5/2014	7/7/2014
tblConstructionPhase	PhaseStartDate	9/20/2014	9/22/2014
tblLandUse	LotAcreage	0.00	6.81
tblOffRoadEquipment	HorsePower	162.00	157.00
tblOffRoadEquipment	HorsePower	162.00	157.00
tblOffRoadEquipment	HorsePower	205.00	82.00
tblOffRoadEquipment	HorsePower	226.00	340.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	226.00	340.00
tblOffRoadEquipment	HorsePower	226.00	255.00
tblOffRoadEquipment	HorsePower	226.00	340.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	226.00	340.00

tbloffRoadEquipment	HorsePower	226.00	255.00
tbloffRoadEquipment	HorsePower	226.00	340.00
tbloffRoadEquipment	HorsePower	226.00	208.00
tbloffRoadEquipment	HorsePower	171.00	81.00
tbloffRoadEquipment	HorsePower	171.00	515.00
tbloffRoadEquipment	HorsePower	171.00	515.00
tbloffRoadEquipment	HorsePower	171.00	327.00
tbloffRoadEquipment	LoadFactor	0.38	0.57
tbloffRoadEquipment	LoadFactor	0.38	0.57
tbloffRoadEquipment	LoadFactor	0.50	0.75
tbloffRoadEquipment	LoadFactor	0.29	0.73
tbloffRoadEquipment	LoadFactor	0.29	0.43
tbloffRoadEquipment	LoadFactor	0.29	0.43
tbloffRoadEquipment	LoadFactor	0.29	0.43
tbloffRoadEquipment	LoadFactor	0.29	0.38
tbloffRoadEquipment	LoadFactor	0.29	0.40
tbloffRoadEquipment	LoadFactor	0.29	0.43
tbloffRoadEquipment	LoadFactor	0.29	0.43
tbloffRoadEquipment	LoadFactor	0.29	0.38
tbloffRoadEquipment	LoadFactor	0.29	0.40
tbloffRoadEquipment	LoadFactor	0.29	0.43
tbloffRoadEquipment	LoadFactor	0.29	0.43
tbloffRoadEquipment	LoadFactor	0.42	0.73
tbloffRoadEquipment	LoadFactor	0.42	0.73
tbloffRoadEquipment	LoadFactor	0.42	0.73
tbloffRoadEquipment	LoadFactor	0.42	0.62
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.011
tblTripsAndVMT	HaulingTripLength	20.00	29.00
tblTripsAndVMT	HaulingTripNumber	88.00	206.00
tblTripsAndVMT	WorkerTripNumber	18.00	30.00
tblTripsAndVMT	WorkerTripNumber	18.00	30.00
tblTripsAndVMT	WorkerTripNumber	10.00	30.00
tblTripsAndVMT	WorkerTripNumber	13.00	30.00
tblTripsAndVMT	WorkerTripNumber	18.00	30.00
tblTripsAndVMT	WorkerTripNumber	20.00	30.00
tblTripsAndVMT	WorkerTripNumber	13.00	30.00
tblTripsAndVMT	WorkerTripNumber	23.00	30.00
tblTripsAndVMT	WorkerTripNumber	20.00	30.00
tblTripsAndVMT	WorkerTripNumber	23.00	30.00
tblTripsAndVMT	WorkerTripNumber	23.00	30.00
tblTripsAndVMT	WorkerTripNumber	18.00	30.00
tblVehicleEF	HHD	0.02	0.09
tblVehicleEF	HHD	0.02	0.04
tblVehicleEF	HHD	0.00	0.12
tblVehicleEF	HHD	2.77	8.60
tblVehicleEF	HHD	2.05	4.68
tblVehicleEF	HHD	88.12	31.94
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	6.02	20.14
tblVehicleEF	HHD	8.58	10.55
tblVehicleEF	HHD	5.24	3.52
tblVehicleEF	HHD	0.03	0.24
tblVehicleEF	HHD	0.06	0.02

tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.16	0.37
tblVehicleEF	HHD	7.5520e-003	2.4000e-003
tblVehicleEF	HHD	0.03	0.24
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	8.6880e-003	0.03
tblVehicleEF	HHD	0.15	0.37
tblVehicleEF	HHD	5.9870e-003	2.4000e-003
tblVehicleEF	HHD	3.5280e-003	1.0000e-003
tblVehicleEF	HHD	0.28	0.03
tblVehicleEF	HHD	0.53	1.94
tblVehicleEF	HHD	2.0090e-003	4.0000e-004
tblVehicleEF	HHD	0.35	0.85
tblVehicleEF	HHD	1.14	0.02
tblVehicleEF	HHD	4.48	2.18
tblVehicleEF	HHD	5.5830e-003	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	2.2670e-003	7.0000e-004
tblVehicleEF	HHD	3.5280e-003	1.0000e-003
tblVehicleEF	HHD	0.28	0.03
tblVehicleEF	HHD	0.60	2.21
tblVehicleEF	HHD	2.0090e-003	4.0000e-004
tblVehicleEF	HHD	0.40	0.96
tblVehicleEF	HHD	1.14	0.02
tblVehicleEF	HHD	4.81	2.34
tblVehicleEF	HHD	0.02	0.08
tblVehicleEF	HHD	0.02	0.04
tblVehicleEF	HHD	0.00	0.10

tblVehicleEF	HHD	2.02	5.93
tblVehicleEF	HHD	2.06	4.72
tblVehicleEF	HHD	67.76	23.41
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	6.21	21.00
tblVehicleEF	HHD	8.27	10.64
tblVehicleEF	HHD	4.87	3.28
tblVehicleEF	HHD	0.03	0.19
tblVehicleEF	HHD	0.06	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.16	0.37
tblVehicleEF	HHD	7.5520e-003	2.4000e-003
tblVehicleEF	HHD	0.02	0.19
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	8.6880e-003	0.03
tblVehicleEF	HHD	0.15	0.37
tblVehicleEF	HHD	5.9870e-003	2.4000e-003
tblVehicleEF	HHD	0.01	3.2000e-003
tblVehicleEF	HHD	0.32	0.03
tblVehicleEF	HHD	0.50	1.80
tblVehicleEF	HHD	6.0850e-003	1.0000e-003
tblVehicleEF	HHD	0.35	0.85
tblVehicleEF	HHD	1.14	0.02
tblVehicleEF	HHD	3.39	1.71
tblVehicleEF	HHD	5.9150e-003	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.9130e-003	6.0000e-004
tblVehicleEF	HHD	0.01	3.2000e-003

tblVehicleEF	HHD	0.32	0.03
tblVehicleEF	HHD	0.57	2.06
tblVehicleEF	HHD	6.0850e-003	1.0000e-003
tblVehicleEF	HHD	0.40	0.96
tblVehicleEF	HHD	1.14	0.02
tblVehicleEF	HHD	3.64	1.83
tblVehicleEF	HHD	0.03	0.09
tblVehicleEF	HHD	0.02	0.04
tblVehicleEF	HHD	0.00	0.14
tblVehicleEF	HHD	3.82	11.27
tblVehicleEF	HHD	2.05	4.66
tblVehicleEF	HHD	110.47	37.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	5.75	19.28
tblVehicleEF	HHD	8.72	10.86
tblVehicleEF	HHD	5.57	3.66
tblVehicleEF	HHD	0.04	0.28
tblVehicleEF	HHD	0.06	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.16	0.37
tblVehicleEF	HHD	7.5520e-003	2.4000e-003
tblVehicleEF	HHD	0.04	0.28
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	8.6880e-003	0.03
tblVehicleEF	HHD	0.15	0.37
tblVehicleEF	HHD	5.9870e-003	2.4000e-003
tblVehicleEF	HHD	8.0500e-004	7.0000e-004
tblVehicleEF	HHD	0.35	0.03

tblVehicleEF	HHD	0.57	2.08
tblVehicleEF	HHD	5.6300e-004	2.0000e-004
tblVehicleEF	HHD	0.35	0.84
tblVehicleEF	HHD	1.24	0.02
tblVehicleEF	HHD	5.59	2.47
tblVehicleEF	HHD	5.1250e-003	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	2.6530e-003	8.0000e-004
tblVehicleEF	HHD	8.0500e-004	7.0000e-004
tblVehicleEF	HHD	0.35	0.03
tblVehicleEF	HHD	0.65	2.37
tblVehicleEF	HHD	5.6300e-004	2.0000e-004
tblVehicleEF	HHD	0.40	0.95
tblVehicleEF	HHD	1.24	0.02
tblVehicleEF	HHD	6.00	2.64
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.47	1.79
tblVehicleEF	LDA	3.26	4.38
tblVehicleEF	LDA	0.53	0.51
tblVehicleEF	LDA	0.14	0.17
tblVehicleEF	LDA	0.21	0.28
tblVehicleEF	LDA	0.04	0.01
tblVehicleEF	LDA	2.1650e-003	0.01
tblVehicleEF	LDA	3.1020e-003	6.0000e-003
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	2.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.9660e-003	0.01

tblVehicleEF	LDA	2.8220e-003	6.0000e-003
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.16	0.18
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.39	0.09
tblVehicleEF	LDA	0.27	0.36
tblVehicleEF	LDA	3.4020e-003	3.7000e-003
tblVehicleEF	LDA	7.9000e-004	8.0000e-004
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.16	0.18
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.39	0.09
tblVehicleEF	LDA	0.28	0.38
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	1.71	2.11
tblVehicleEF	LDA	2.19	2.93
tblVehicleEF	LDA	0.53	0.51
tblVehicleEF	LDA	0.13	0.16
tblVehicleEF	LDA	0.18	0.24
tblVehicleEF	LDA	0.04	0.01
tblVehicleEF	LDA	2.1650e-003	0.01
tblVehicleEF	LDA	3.1020e-003	6.0000e-003
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	2.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.9660e-003	0.01

tblVehicleEF	LDA	2.8220e-003	6.0000e-003
tblVehicleEF	LDA	0.16	0.25
tblVehicleEF	LDA	0.20	0.22
tblVehicleEF	LDA	0.12	0.15
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.37	0.09
tblVehicleEF	LDA	0.20	0.27
tblVehicleEF	LDA	3.7240e-003	4.1000e-003
tblVehicleEF	LDA	7.7200e-004	7.0000e-004
tblVehicleEF	LDA	0.16	0.25
tblVehicleEF	LDA	0.20	0.22
tblVehicleEF	LDA	0.12	0.15
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.37	0.09
tblVehicleEF	LDA	0.21	0.29
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.49	1.76
tblVehicleEF	LDA	4.09	5.06
tblVehicleEF	LDA	0.53	0.51
tblVehicleEF	LDA	0.16	0.18
tblVehicleEF	LDA	0.23	0.29
tblVehicleEF	LDA	0.04	0.01
tblVehicleEF	LDA	2.1650e-003	0.01
tblVehicleEF	LDA	3.1020e-003	6.0000e-003
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	2.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.9660e-003	0.01

tblVehicleEF	LDA	2.8220e-003	6.0000e-003
tblVehicleEF	LDA	0.02	0.06
tblVehicleEF	LDA	0.17	0.20
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.45	0.11
tblVehicleEF	LDA	0.32	0.40
tblVehicleEF	LDA	3.3590e-003	3.6000e-003
tblVehicleEF	LDA	8.0500e-004	8.0000e-004
tblVehicleEF	LDA	0.02	0.06
tblVehicleEF	LDA	0.17	0.20
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.45	0.11
tblVehicleEF	LDA	0.34	0.43
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.03	0.02
tblVehicleEF	LDT1	3.57	3.41
tblVehicleEF	LDT1	7.18	6.64
tblVehicleEF	LDT1	0.07	0.14
tblVehicleEF	LDT1	0.38	0.35
tblVehicleEF	LDT1	0.38	0.35
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tblVehicleEF	LDT1	4.7920e-003	0.01
tblVehicleEF	LDT1	5.7400e-003	7.7000e-003
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	2.0000e-003	8.0000e-003
tblVehicleEF	LDT1	4.3620e-003	0.01

tblVehicleEF	LDT1	5.2380e-003	7.7000e-003
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.10	0.08
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	1.17	0.21
tblVehicleEF	LDT1	0.56	0.50
tblVehicleEF	LDT1	3.9510e-003	4.6000e-003
tblVehicleEF	LDT1	9.7000e-004	1.0000e-003
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tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.10	0.08
tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	1.17	0.21
tblVehicleEF	LDT1	0.60	0.54
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.03	0.02
tblVehicleEF	LDT1	4.07	3.88
tblVehicleEF	LDT1	4.83	4.46
tblVehicleEF	LDT1	0.07	0.14
tblVehicleEF	LDT1	0.33	0.34
tblVehicleEF	LDT1	0.33	0.31
tblVehicleEF	LDT1	0.04	0.01
tblVehicleEF	LDT1	4.7920e-003	0.01
tblVehicleEF	LDT1	5.7400e-003	7.7000e-003
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	2.0000e-003	8.0000e-003
tblVehicleEF	LDT1	4.3620e-003	0.01

tblVehicleEF	LDT1	5.2380e-003	7.7000e-003
tblVehicleEF	LDT1	0.39	0.37
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.28	0.22
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	1.10	0.19
tblVehicleEF	LDT1	0.42	0.37
tblVehicleEF	LDT1	4.2960e-003	5.1000e-003
tblVehicleEF	LDT1	9.2900e-004	9.0000e-004
tblVehicleEF	LDT1	0.39	0.37
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.28	0.22
tblVehicleEF	LDT1	0.16	0.16
tblVehicleEF	LDT1	1.10	0.19
tblVehicleEF	LDT1	0.45	0.40
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	3.64	3.39
tblVehicleEF	LDT1	9.02	7.66
tblVehicleEF	LDT1	0.07	0.14
tblVehicleEF	LDT1	0.41	0.38
tblVehicleEF	LDT1	0.41	0.37
tblVehicleEF	LDT1	0.04	0.01
tblVehicleEF	LDT1	4.7920e-003	0.01
tblVehicleEF	LDT1	5.7400e-003	7.7000e-003
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	2.0000e-003	8.0000e-003
tblVehicleEF	LDT1	4.3620e-003	0.01

tblVehicleEF	LDT1	5.2380e-003	7.7000e-003
tblVehicleEF	LDT1	0.03	0.09
tblVehicleEF	LDT1	0.34	0.28
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	1.45	0.25
tblVehicleEF	LDT1	0.68	0.56
tblVehicleEF	LDT1	3.9060e-003	4.5000e-003
tblVehicleEF	LDT1	1.0030e-003	1.0000e-003
tblVehicleEF	LDT1	0.03	0.09
tblVehicleEF	LDT1	0.34	0.28
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.16	0.15
tblVehicleEF	LDT1	1.45	0.25
tblVehicleEF	LDT1	0.73	0.60
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.93	2.56
tblVehicleEF	LDT2	4.48	5.88
tblVehicleEF	LDT2	0.18	0.21
tblVehicleEF	LDT2	0.25	0.34
tblVehicleEF	LDT2	0.40	0.53
tblVehicleEF	LDT2	0.04	0.01
tblVehicleEF	LDT2	2.0310e-003	0.02
tblVehicleEF	LDT2	2.8980e-003	0.01
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	2.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8500e-003	0.02

tblVehicleEF	LDT2	2.6520e-003	0.01
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.17	0.17
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.59	0.14
tblVehicleEF	LDT2	0.33	0.44
tblVehicleEF	LDT2	4.6410e-003	4.7000e-003
tblVehicleEF	LDT2	1.0780e-003	1.0000e-003
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.17	0.17
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.07	0.10
tblVehicleEF	LDT2	0.59	0.14
tblVehicleEF	LDT2	0.35	0.47
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	2.25	3.00
tblVehicleEF	LDT2	2.98	3.91
tblVehicleEF	LDT2	0.18	0.21
tblVehicleEF	LDT2	0.22	0.33
tblVehicleEF	LDT2	0.35	0.47
tblVehicleEF	LDT2	0.04	0.01
tblVehicleEF	LDT2	2.0310e-003	0.02
tblVehicleEF	LDT2	2.8980e-003	0.01
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	2.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8500e-003	0.02

tblVehicleEF	LDT2	2.6520e-003	0.01
tblVehicleEF	LDT2	0.16	0.24
tblVehicleEF	LDT2	0.20	0.21
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.55	0.13
tblVehicleEF	LDT2	0.25	0.33
tblVehicleEF	LDT2	5.0640e-003	5.2000e-003
tblVehicleEF	LDT2	1.0520e-003	9.0000e-004
tblVehicleEF	LDT2	0.16	0.24
tblVehicleEF	LDT2	0.20	0.21
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.08	0.11
tblVehicleEF	LDT2	0.55	0.13
tblVehicleEF	LDT2	0.27	0.35
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.94	2.51
tblVehicleEF	LDT2	5.64	6.79
tblVehicleEF	LDT2	0.18	0.21
tblVehicleEF	LDT2	0.27	0.37
tblVehicleEF	LDT2	0.44	0.56
tblVehicleEF	LDT2	0.04	0.01
tblVehicleEF	LDT2	2.0310e-003	0.02
tblVehicleEF	LDT2	2.8980e-003	0.01
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	2.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8500e-003	0.02

tblVehicleEF	LDT2	2.6520e-003	0.01
tblVehicleEF	LDT2	0.02	0.06
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.72	0.18
tblVehicleEF	LDT2	0.40	0.49
tblVehicleEF	LDT2	4.5840e-003	4.6000e-003
tblVehicleEF	LDT2	1.0980e-003	1.0000e-003
tblVehicleEF	LDT2	0.02	0.06
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.10
tblVehicleEF	LDT2	0.72	0.18
tblVehicleEF	LDT2	0.43	0.53
tblVehicleEF	LHD1	1.2170e-003	1.5000e-003
tblVehicleEF	LHD1	0.03	0.01
tblVehicleEF	LHD1	0.03	0.01
tblVehicleEF	LHD1	0.18	0.21
tblVehicleEF	LHD1	2.39	1.26
tblVehicleEF	LHD1	5.65	3.62
tblVehicleEF	LHD1	0.04	0.01
tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	1.84	1.01
tblVehicleEF	LHD1	1.38	1.31
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tblVehicleEF	LHD1	9.3080e-003	0.01

tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.3580e-003	1.3000e-003
tblVehicleEF	LHD1	6.4500e-004	2.0000e-004
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	2.3270e-003	0.01
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.2490e-003	1.3000e-003
tblVehicleEF	LHD1	2.1560e-003	8.0000e-004
tblVehicleEF	LHD1	0.07	0.02
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.1160e-003	3.0000e-004
tblVehicleEF	LHD1	0.23	0.12
tblVehicleEF	LHD1	0.48	0.19
tblVehicleEF	LHD1	0.49	0.27
tblVehicleEF	LHD1	9.0000e-005	1.0000e-004
tblVehicleEF	LHD1	8.2060e-003	8.3000e-003
tblVehicleEF	LHD1	5.1100e-004	4.0000e-004
tblVehicleEF	LHD1	2.1560e-003	8.0000e-004
tblVehicleEF	LHD1	0.07	0.02
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.1160e-003	3.0000e-004
tblVehicleEF	LHD1	0.26	0.14
tblVehicleEF	LHD1	0.48	0.19
tblVehicleEF	LHD1	0.52	0.29
tblVehicleEF	LHD1	1.2170e-003	1.5000e-003
tblVehicleEF	LHD1	0.03	0.01
tblVehicleEF	LHD1	0.03	0.01
tblVehicleEF	LHD1	0.18	0.21

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tblVehicleEF	LHD1	9.3080e-003	0.01
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.3580e-003	1.3000e-003
tblVehicleEF	LHD1	6.4500e-004	2.0000e-004
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	2.3270e-003	0.01
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.2490e-003	1.3000e-003
tblVehicleEF	LHD1	5.9130e-003	2.3000e-003
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tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.9850e-003	6.0000e-004
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tblVehicleEF	LHD1	0.47	0.18
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tblVehicleEF	LHD1	5.9130e-003	2.3000e-003
tblVehicleEF	LHD1	0.09	0.02

tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.9850e-003	6.0000e-004
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tblVehicleEF	LHD1	0.47	0.18
tblVehicleEF	LHD1	0.42	0.23
tblVehicleEF	LHD1	1.2170e-003	1.5000e-003
tblVehicleEF	LHD1	0.03	0.01
tblVehicleEF	LHD1	0.03	0.01
tblVehicleEF	LHD1	0.18	0.21
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tblVehicleEF	LHD1	0.06	0.02
tblVehicleEF	LHD1	1.88	1.04
tblVehicleEF	LHD1	1.47	1.36
tblVehicleEF	LHD1	7.0100e-004	2.0000e-004
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tblVehicleEF	LHD1	6.4500e-004	2.0000e-004
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	2.3270e-003	0.01
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.2490e-003	1.3000e-003
tblVehicleEF	LHD1	5.7500e-004	6.0000e-004
tblVehicleEF	LHD1	0.08	0.02
tblVehicleEF	LHD1	0.03	0.03

tblVehicleEF	LHD1	4.0800e-004	1.0000e-004
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tblVehicleEF	LHD1	0.54	0.21
tblVehicleEF	LHD1	0.58	0.31
tblVehicleEF	LHD1	9.0000e-005	1.0000e-004
tblVehicleEF	LHD1	8.2050e-003	8.3000e-003
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tblVehicleEF	LHD1	5.7500e-004	6.0000e-004
tblVehicleEF	LHD1	0.08	0.02
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	4.0800e-004	1.0000e-004
tblVehicleEF	LHD1	0.26	0.14
tblVehicleEF	LHD1	0.54	0.21
tblVehicleEF	LHD1	0.62	0.33
tblVehicleEF	LHD2	8.7400e-004	1.3000e-003
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tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.13	0.18
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tblVehicleEF	LHD2	3.09	5.60
tblVehicleEF	LHD2	4.9620e-003	6.1580e-003
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tblVehicleEF	LHD2	2.76	2.18
tblVehicleEF	LHD2	0.75	1.28
tblVehicleEF	LHD2	1.3840e-003	6.0000e-004
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tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03

tblVehicleEF	LHD2	8.6100e-004	2.0000e-003
tblVehicleEF	LHD2	1.2730e-003	6.0000e-004
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	2.6380e-003	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	7.6200e-004	2.0000e-003
tblVehicleEF	LHD2	1.1960e-003	2.0000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	6.1900e-004	5.0000e-004
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tblVehicleEF	LHD2	0.28	0.55
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tblVehicleEF	LHD2	1.1960e-003	2.0000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	6.1900e-004	5.0000e-004
tblVehicleEF	LHD2	0.24	0.30
tblVehicleEF	LHD2	0.28	0.55
tblVehicleEF	LHD2	0.30	0.47
tblVehicleEF	LHD2	8.7400e-004	1.3000e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.13	0.18
tblVehicleEF	LHD2	1.78	2.71

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tblVehicleEF	LHD2	2.64	2.19
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tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	8.6100e-004	2.0000e-003
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tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	2.6380e-003	0.01
tblVehicleEF	LHD2	0.03	0.03
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tblVehicleEF	LHD2	3.3030e-003	5.7000e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.6810e-003	1.2000e-003
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tblVehicleEF	LHD2	2.7900e-004	4.0000e-004
tblVehicleEF	LHD2	3.3030e-003	5.7000e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03

tblVehicleEF	LHD2	1.6810e-003	1.2000e-003
tblVehicleEF	LHD2	0.24	0.31
tblVehicleEF	LHD2	0.28	0.54
tblVehicleEF	LHD2	0.24	0.37
tblVehicleEF	LHD2	8.7400e-004	1.3000e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.13	0.18
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tblVehicleEF	LHD2	4.9620e-003	6.1580e-003
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tblVehicleEF	LHD2	2.81	2.25
tblVehicleEF	LHD2	0.80	1.33
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tblVehicleEF	LHD2	0.07	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	8.6100e-004	2.0000e-003
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tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	2.6380e-003	0.01
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tblVehicleEF	LHD2	7.6200e-004	2.0000e-003
tblVehicleEF	LHD2	3.1900e-004	1.5000e-003
tblVehicleEF	LHD2	0.05	0.07
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	2.2700e-004	3.0000e-004

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tblVehicleEF	LHD2	9.8000e-005	1.0000e-004
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tblVehicleEF	LHD2	3.1900e-004	1.5000e-003
tblVehicleEF	LHD2	0.05	0.07
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	2.2700e-004	3.0000e-004
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tblVehicleEF	MCY	6.2790e-003	8.8110e-003
tblVehicleEF	MCY	1.29	1.25
tblVehicleEF	MCY	0.32	0.31
tblVehicleEF	MCY	0.04	6.3000e-003
tblVehicleEF	MCY	8.0000e-003	4.0000e-003
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tblVehicleEF	MCY	0.02	6.3000e-003
tblVehicleEF	MCY	2.0000e-003	4.0000e-003
tblVehicleEF	MCY	6.9200e-004	0.03
tblVehicleEF	MCY	1.8930e-003	0.01

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tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.42	0.35
tblVehicleEF	MCY	2.96	3.25
tblVehicleEF	MCY	1.94	0.41
tblVehicleEF	MCY	2.39	2.38
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tblVehicleEF	MCY	3.22	3.53
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tblVehicleEF	MCY	8.75	8.74
tblVehicleEF	MCY	6.2790e-003	8.8110e-003
tblVehicleEF	MCY	1.12	1.18
tblVehicleEF	MCY	0.29	0.28
tblVehicleEF	MCY	0.04	6.3000e-003
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tblVehicleEF	MCY	0.02	6.3000e-003
tblVehicleEF	MCY	2.0000e-003	4.0000e-003
tblVehicleEF	MCY	6.9200e-004	0.03

tblVehicleEF	MCY	1.8930e-003	0.01
tblVehicleEF	MCY	2.14	2.32
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tblVehicleEF	MCY	1.82	0.39
tblVehicleEF	MCY	1.88	1.87
tblVehicleEF	MCY	2.0860e-003	2.1000e-003
tblVehicleEF	MCY	6.6700e-004	6.0000e-004
tblVehicleEF	MCY	2.14	2.32
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tblVehicleEF	MCY	2.03	2.02
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tblVehicleEF	MCY	6.2790e-003	8.8110e-003
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tblVehicleEF	MCY	0.34	0.33
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tblVehicleEF	MCY	0.02	6.3000e-003
tblVehicleEF	MCY	2.0000e-003	4.0000e-003

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tblVehicleEF	MCY	0.57	0.46
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tblVehicleEF	MCY	3.42	3.65
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tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	2.62	2.43
tblVehicleEF	MDV	6.96	6.28
tblVehicleEF	MDV	0.15	0.08
tblVehicleEF	MDV	0.39	0.36
tblVehicleEF	MDV	0.64	0.62
tblVehicleEF	MDV	0.04	0.01
tblVehicleEF	MDV	2.2440e-003	0.02
tblVehicleEF	MDV	3.5050e-003	0.01
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	2.0000e-003	8.0000e-003

tblVehicleEF	MDV	2.0650e-003	0.02
tblVehicleEF	MDV	3.2320e-003	0.01
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.19	0.13
tblVehicleEF	MDV	0.06	0.04
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.65	0.10
tblVehicleEF	MDV	0.59	0.54
tblVehicleEF	MDV	5.8850e-003	6.3000e-003
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tblVehicleEF	MDV	0.19	0.13
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tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	3.09	2.86
tblVehicleEF	MDV	4.62	4.18
tblVehicleEF	MDV	0.15	0.08
tblVehicleEF	MDV	0.35	0.35
tblVehicleEF	MDV	0.56	0.54
tblVehicleEF	MDV	0.04	0.01
tblVehicleEF	MDV	2.2440e-003	0.02
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tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	2.0000e-003	8.0000e-003

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tblVehicleEF	MDV	3.2320e-003	0.01
tblVehicleEF	MDV	0.18	0.17
tblVehicleEF	MDV	0.22	0.16
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tblVehicleEF	MDV	1.3400e-003	1.3000e-003
tblVehicleEF	MDV	0.18	0.17
tblVehicleEF	MDV	0.22	0.16
tblVehicleEF	MDV	0.15	0.12
tblVehicleEF	MDV	0.11	0.11
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tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	2.62	2.37
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tblVehicleEF	MDV	2.2440e-003	0.02
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tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	2.0000e-003	8.0000e-003

tblVehicleEF	MDV	2.0650e-003	0.02
tblVehicleEF	MDV	3.2320e-003	0.01
tblVehicleEF	MDV	0.02	0.04
tblVehicleEF	MDV	0.20	0.14
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.79	0.12
tblVehicleEF	MDV	0.71	0.60
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tblVehicleEF	MDV	0.02	0.04
tblVehicleEF	MDV	0.20	0.14
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.79	0.12
tblVehicleEF	MDV	0.76	0.64
tblVehicleEF	MH	0.00	0.04
tblVehicleEF	MH	0.00	0.05
tblVehicleEF	MH	6.20	8.50
tblVehicleEF	MH	11.77	14.84
tblVehicleEF	MH	2.0570e-003	2.6540e-003
tblVehicleEF	MH	2.20	1.96
tblVehicleEF	MH	1.00	1.17
tblVehicleEF	MH	0.05	0.01
tblVehicleEF	MH	8.6600e-003	0.01
tblVehicleEF	MH	0.04	0.02
tblVehicleEF	MH	2.0220e-003	9.0000e-004
tblVehicleEF	MH	0.02	0.01

tblVehicleEF	MH	2.1650e-003	0.01
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	1.7300e-003	9.0000e-004
tblVehicleEF	MH	1.04	1.31
tblVehicleEF	MH	0.09	0.09
tblVehicleEF	MH	0.37	0.42
tblVehicleEF	MH	0.25	0.31
tblVehicleEF	MH	2.09	0.02
tblVehicleEF	MH	0.73	0.87
tblVehicleEF	MH	7.6310e-003	7.6000e-003
tblVehicleEF	MH	5.3900e-004	6.0000e-004
tblVehicleEF	MH	1.04	1.31
tblVehicleEF	MH	0.09	0.09
tblVehicleEF	MH	0.37	0.42
tblVehicleEF	MH	0.29	0.36
tblVehicleEF	MH	2.09	0.02
tblVehicleEF	MH	0.78	0.93
tblVehicleEF	MH	0.00	0.04
tblVehicleEF	MH	0.00	0.03
tblVehicleEF	MH	6.29	8.73
tblVehicleEF	MH	7.95	9.67
tblVehicleEF	MH	2.0570e-003	2.6540e-003
tblVehicleEF	MH	2.04	1.92
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tblVehicleEF	MH	0.05	0.01
tblVehicleEF	MH	8.6600e-003	0.01
tblVehicleEF	MH	0.04	0.02
tblVehicleEF	MH	2.0220e-003	9.0000e-004

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tblVehicleEF	MH	2.1650e-003	0.01
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	1.7300e-003	9.0000e-004
tblVehicleEF	MH	2.79	3.76
tblVehicleEF	MH	0.11	0.10
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tblVehicleEF	MH	0.25	0.32
tblVehicleEF	MH	2.04	0.02
tblVehicleEF	MH	0.54	0.63
tblVehicleEF	MH	7.6330e-003	7.6000e-003
tblVehicleEF	MH	4.7300e-004	5.0000e-004
tblVehicleEF	MH	2.79	3.76
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tblVehicleEF	MH	1.07	1.22
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tblVehicleEF	MH	0.04	0.02

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tblVehicleEF	MH	0.14	0.20
tblVehicleEF	MH	0.25	0.31
tblVehicleEF	MH	2.25	0.02
tblVehicleEF	MH	0.92	1.01
tblVehicleEF	MH	7.6330e-003	7.6000e-003
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tblVehicleEF	MHD	1.7990e-003	3.0000e-004
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tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.14	0.17
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tblVehicleEF	MHD	0.04	2.3000e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	2.8410e-003	0.01
tblVehicleEF	MHD	0.13	0.17
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tblVehicleEF	MHD	0.20	0.02
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tblVehicleEF	OBUS	2.12	2.09

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tblVehicleEF	OBUS	0.03	0.01
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tblVehicleEF	UBUS	0.00	0.05
tblVehicleEF	UBUS	4.76	4.04
tblVehicleEF	UBUS	13.02	11.92
tblVehicleEF	UBUS	1.4970e-003	1.9040e-003
tblVehicleEF	UBUS	14.24	12.85
tblVehicleEF	UBUS	1.58	1.67
tblVehicleEF	UBUS	0.65	0.01
tblVehicleEF	UBUS	8.0000e-003	9.1000e-003
tblVehicleEF	UBUS	0.24	0.22
tblVehicleEF	UBUS	7.4700e-004	3.5000e-003
tblVehicleEF	UBUS	0.28	0.01

tblVehicleEF	UBUS	2.0000e-003	9.1000e-003
tblVehicleEF	UBUS	0.22	0.22
tblVehicleEF	UBUS	6.9400e-004	3.5000e-003
tblVehicleEF	UBUS	4.5190e-003	4.2000e-003
tblVehicleEF	UBUS	0.10	0.09
tblVehicleEF	UBUS	2.1440e-003	2.0000e-003
tblVehicleEF	UBUS	0.82	0.77
tblVehicleEF	UBUS	0.76	0.02
tblVehicleEF	UBUS	0.93	0.98
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	5.7900e-004	6.0000e-004
tblVehicleEF	UBUS	4.5190e-003	4.2000e-003
tblVehicleEF	UBUS	0.10	0.09
tblVehicleEF	UBUS	2.1440e-003	2.0000e-003
tblVehicleEF	UBUS	0.92	0.86
tblVehicleEF	UBUS	0.76	0.02
tblVehicleEF	UBUS	1.00	1.04
tblVehicleEF	UBUS	0.00	0.04
tblVehicleEF	UBUS	0.00	0.04
tblVehicleEF	UBUS	4.88	4.14
tblVehicleEF	UBUS	9.60	8.86
tblVehicleEF	UBUS	1.4970e-003	1.9040e-003
tblVehicleEF	UBUS	13.64	12.96
tblVehicleEF	UBUS	1.46	1.55
tblVehicleEF	UBUS	0.65	0.01
tblVehicleEF	UBUS	8.0000e-003	9.1000e-003
tblVehicleEF	UBUS	0.24	0.22
tblVehicleEF	UBUS	7.4700e-004	3.5000e-003

tblVehicleEF	UBUS	0.28	0.01
tblVehicleEF	UBUS	2.0000e-003	9.1000e-003
tblVehicleEF	UBUS	0.22	0.22
tblVehicleEF	UBUS	6.9400e-004	3.5000e-003
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.12	0.10
tblVehicleEF	UBUS	5.4800e-003	4.1000e-003
tblVehicleEF	UBUS	0.84	0.78
tblVehicleEF	UBUS	0.71	0.02
tblVehicleEF	UBUS	0.78	0.82
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	5.2100e-004	6.0000e-004
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.12	0.10
tblVehicleEF	UBUS	5.4800e-003	4.1000e-003
tblVehicleEF	UBUS	0.94	0.88
tblVehicleEF	UBUS	0.71	0.02
tblVehicleEF	UBUS	0.83	0.88
tblVehicleEF	UBUS	0.00	0.04
tblVehicleEF	UBUS	0.00	0.05
tblVehicleEF	UBUS	4.67	4.00
tblVehicleEF	UBUS	16.33	13.46
tblVehicleEF	UBUS	1.4970e-003	1.9040e-003
tblVehicleEF	UBUS	14.48	13.22
tblVehicleEF	UBUS	1.68	1.73
tblVehicleEF	UBUS	0.65	0.01
tblVehicleEF	UBUS	8.0000e-003	9.1000e-003
tblVehicleEF	UBUS	0.24	0.22

tblVehicleEF	UBUS	7.4700e-004	3.5000e-003
tblVehicleEF	UBUS	0.28	0.01
tblVehicleEF	UBUS	2.0000e-003	9.1000e-003
tblVehicleEF	UBUS	0.22	0.22
tblVehicleEF	UBUS	6.9400e-004	3.5000e-003
tblVehicleEF	UBUS	1.2100e-003	3.7000e-003
tblVehicleEF	UBUS	0.12	0.11
tblVehicleEF	UBUS	7.9100e-004	1.1000e-003
tblVehicleEF	UBUS	0.81	0.76
tblVehicleEF	UBUS	0.92	0.02
tblVehicleEF	UBUS	1.07	1.06
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	6.3600e-004	6.0000e-004
tblVehicleEF	UBUS	1.2100e-003	3.7000e-003
tblVehicleEF	UBUS	0.12	0.11
tblVehicleEF	UBUS	7.9100e-004	1.1000e-003
tblVehicleEF	UBUS	0.90	0.86
tblVehicleEF	UBUS	0.92	0.02
tblVehicleEF	UBUS	1.15	1.13
tblWater	AerobicPercent	87.46	84.69
tblWater	AnaDigestCombDigestGasPercent	100.00	3.17
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	2.14
tblWater	SepticTankPercent	10.33	10.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Task 1: Mobilization/Demobilization Site Preparation	Demolition	6/2/2014	6/9/2014	5	6	Tug boats and anchor boat to arrive and depart at project site with barges and equipment
2	Task 2: Wharf Fixtures Removal	Demolition	6/10/2014	6/12/2014	5	3	Removal of deck fixtures and remnants
3	Task 3: Mooring Dolphin Demolition and Removal	Demolition	6/13/2014	7/4/2014	5	16	Cutting and removal of concrete mooring dolphins
4	Task 4: Wooden Deck Demolition and Removal	Demolition	7/7/2014	7/28/2014	5	16	Removal of central predominately wooden land platform and three smaller pier platforms
5	Task 5: Wooden Pile Vibratory Extraction and Removal	Demolition	7/29/2014	8/21/2014	5	18	Vibratory extraction and removal of 117 timber piles.
6	Task 6: Concrete Pile Cutting	Demolition	8/22/2014	8/25/2014	5	2	Cutting of eleven 20-inch square concrete piles.
7	Task 7: Steel Pile Vibratory Extraction and Removal	Demolition	8/26/2014	9/1/2014	5	5	Vibratory extraction and removal of 24 steel piles supporting 2 mooring dolphins.
8	Task 8: Removal of Steel Pipeline, Debris and Marker Buoys	Demolition	9/2/2014	9/19/2014	5	14	Removal of steel pipeline, underwater pile remnants and marker buoys.
9	Task 9: Movement of Barges to Shore	Demolition	9/22/2014	9/24/2014	5	3	Tug boat hauling of barges to shore for wharf material onshore offloading
10	Task 10: Onshore Offloading	Demolition	9/25/2014	10/13/2014	5	13	Offloading of wharf materials to a secure onshore staging area.
11	Task 11: Reduction of Debris	Demolition	10/14/2014	10/27/2014	5	10	Pulverizing of wharf materials into smaller sections for easier loading.
12	Task 12: Hauling of Debris to Landfill/Recycling Facility	Demolition	10/28/2014	12/22/2014	5	40	The remnant wharf materials will be taken via dump truck to a facility for proper disposal.

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Task 1: Mobilization/Demobilization Site Preparation	Other Construction Equipment	1	0.00	81	0.73
Task 2:Wharf Fixtures Removal	Cranes	1	8.00	208	0.43
Task 3:Mooring Dolphin Demolition and Removal	Bore/Drill Rigs	1	8.00	82	0.75
Task 3:Mooring Dolphin Demolition and Removal	Concrete/Industrial Saws	1	8.00	81	0.73
Task 3:Mooring Dolphin Demolition and Removal	Cranes	1	8.00	208	0.43
Task 4:Wooden Deck Demolition and Removal	Concrete/Industrial Saws	1	8.00	81	0.73
Task 4:Wooden Deck Demolition and Removal	Cranes	1	8.00	208	0.43
Task 4:Wooden Deck Demolition and Removal	Excavators	1	8.00	157	0.57
Task 5:Wooden Pile Vibratory Extraction and Removal	Cranes	1	8.00	340	0.38
Task 5:Wooden Pile Vibratory Extraction and Removal	Cranes	1	8.00	255	0.40
Task 5:Wooden Pile Vibratory Extraction and Removal	Other Construction Equipment	1	8.00	515	0.73
Task 6: Concrete Pile Cutting	Concrete/Industrial Saws	1	8.00	81	0.73
Task 6: Concrete Pile Cutting	Cranes	1	8.00	340	0.43
Task 6: Concrete Pile Cutting	Cranes	1	8.00	208	0.43
Task 7: Steel Pile Vibratory Extraction and Removal	Cranes	1	8.00	340	0.38
Task 7: Steel Pile Vibratory Extraction and Removal	Cranes	1	8.00	255	0.40
Task 7: Steel Pile Vibratory Extraction and Removal	Other Construction Equipment	1	8.00	515	0.73
Task 8: Removal of Steel Pipeline, Debris and Marker Buoys	Concrete/Industrial Saws	1	8.00	81	0.73

Task 8: Removal of Steel Pipeline, Debris and Marker Buoys	Cranes	1	8.00	340	0.43
Task 8: Removal of Steel Pipeline, Debris and Marker Buoys	Cranes	1	8.00	208	0.43
Task 8: Removal of Steel Pipeline, Debris and Marker Buoys	Generator Sets	1	8.00	84	0.74
Task 9: Movement of Barges to Shore	Other Construction Equipment	1	0.00	327	0.62
Task 10: Onshore Offloading	Cranes	1	8.00	340	0.73
Task 11: Reduction of Debris	Excavators	1	8.00	157	0.57
Task 12: Hauling of Debris to Landfill/Recycling Facility	Rubber Tired Dozers	1	8.00	255	0.40
Task 1: Mobilization/Demobilization Site Preparation	Concrete/Industrial Saws	1	8.00	81	0.73
Task 10: Onshore Offloading	Concrete/Industrial Saws	1	8.00	81	0.73
Task 11: Reduction of Debris	Concrete/Industrial Saws	1	8.00	81	0.73
Task 12: Hauling of Debris to Landfill/Recycling Facility	Concrete/Industrial Saws	1	8.00	81	0.73
Task 2: Wharf Fixtures Removal	Concrete/Industrial Saws	1	8.00	81	0.73
Task 5: Wooden Pile Vibratory Extraction and Removal	Concrete/Industrial Saws	1	8.00	81	0.73
Task 7: Steel Pile Vibratory Extraction and Removal	Concrete/Industrial Saws	1	8.00	81	0.73
Task 9: Movement of Barges to Shore	Concrete/Industrial Saws	1	8.00	81	0.73
Task 1: Mobilization/Demobilization Site Preparation	Excavators	3	8.00	162	0.38
Task 10: Onshore Offloading	Excavators	3	8.00	162	0.38
Task 12: Hauling of Debris to Landfill/Recycling Facility	Excavators	3	8.00	162	0.38
Task 2: Wharf Fixtures Removal	Excavators	3	8.00	162	0.38
Task 3: Mooring Dolphin Demolition and Removal	Excavators	3	8.00	162	0.38
Task 5: Wooden Pile Vibratory Extraction and Removal	Excavators	3	8.00	162	0.38
Task 6: Concrete Pile Cutting	Excavators	3	8.00	162	0.38
Task 7: Steel Pile Vibratory Extraction and Removal	Excavators	3	8.00	162	0.38
Task 8: Removal of Steel Pipeline, Debris and Marker Buoys	Excavators	3	8.00	162	0.38
Task 9: Movement of Barges to Shore	Excavators	3	8.00	162	0.38

Task 1: Mobilization/Demobilization Site Preparation	Rubber Tired Dozers	2	8.00	255	0.40
Task 10: Onshore Offloading	Rubber Tired Dozers	2	8.00	255	0.40
Task 11: Reduction of Debris	Rubber Tired Dozers	2	8.00	255	0.40
Task 2: Wharf Fixtures Removal	Rubber Tired Dozers	2	8.00	255	0.40
Task 3: Mooring Dolphin Demolition and Removal	Rubber Tired Dozers	2	8.00	255	0.40
Task 4: Wooden Deck Demolition and Removal	Rubber Tired Dozers	2	8.00	255	0.40
Task 5: Wooden Pile Vibratory Extraction and Removal	Rubber Tired Dozers	2	8.00	255	0.40
Task 6: Concrete Pile Cutting	Rubber Tired Dozers	2	8.00	255	0.40
Task 7: Steel Pile Vibratory Extraction and Removal	Rubber Tired Dozers	2	8.00	255	0.40
Task 8: Removal of Steel Pipeline, Debris and Marker Buoys	Rubber Tired Dozers	2	8.00	255	0.40
Task 9: Movement of Barges to Shore	Rubber Tired Dozers	2	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Task 1: Mobilization/Demobilization	7	30.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Task 2: Wharf Fixtures Removal	7	30.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Task 3: Mooring Dolphin Demolition and Removal	8	30.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Task 4: Wooden Deck Demolition and Removal	5	30.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Task 5: Wooden Pile Vibratory Extraction and Removal	9	30.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Task 6: Concrete Pile Cutting	8	30.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Task 7: Steel Pile Vibratory Extraction and Removal	9	30.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Task 8: Removal of Steel Pipeline Debris	9	30.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Task 9: Movement of Barges to Shore	7	30.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Task 10: Onshore Offloading	7	30.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Task 11: Reduction of Debris	4	30.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Task 12: Hauling of Debris to Landfill/Recycling	5	30.00	0.00	206.00	12.40	7.30	29.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Task 1: Mobilization/Demobilization Site Preparation - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.5962	49.5429	36.2873	0.0399		2.5270	2.5270		2.3593	2.3593		4,164.0858	4,164.0858	1.1253		4,187.7164
Total	4.5962	49.5429	36.2873	0.0399		2.5270	2.5270		2.3593	2.3593		4,164.0858	4,164.0858	1.1253		4,187.7164

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154
Total	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154

3.2 Task 1: Mobilization/Demobilization Site Preparation - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.5962	49.5429	36.2873	0.0399		2.5270	2.5270		2.3593	2.3593	0.0000	4,164.0858	4,164.0858	1.1253		4,187.7164
Total	4.5962	49.5429	36.2873	0.0399		2.5270	2.5270		2.3593	2.3593	0.0000	4,164.0858	4,164.0858	1.1253		4,187.7164

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154
Total	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154

3.3 Task 2:Wharf Fixtures Removal - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	5.6384	61.9421	40.5878	0.0476		3.0953	3.0953		2.8821	2.8821		4,980.706 2	4,980.706 2	1.3666		5,009.404 5
Total	5.6384	61.9421	40.5878	0.0476		3.0953	3.0953		2.8821	2.8821		4,980.706 2	4,980.706 2	1.3666		5,009.404 5

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154
Total	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154

3.3 Task 2:Wharf Fixtures Removal - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	5.6384	61.9421	40.5878	0.0476		3.0953	3.0953		2.8821	2.8821	0.0000	4,980.706 2	4,980.706 2	1.3666		5,009.404 5
Total	5.6384	61.9421	40.5878	0.0476		3.0953	3.0953		2.8821	2.8821	0.0000	4,980.706 2	4,980.706 2	1.3666		5,009.404 5

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154
Total	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154

3.4 Task 3: Mooring Dolphin Demolition and Removal - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	5.9843	66.4925	44.1964	0.0527		3.3655	3.3655		3.1307	3.1307		5,524.5240	5,524.5240	1.5273		5,556.5971
Total	5.9843	66.4925	44.1964	0.0527		3.3655	3.3655		3.1307	3.1307		5,524.5240	5,524.5240	1.5273		5,556.5971

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154
Total	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154

3.4 Task 3: Mooring Dolphin Demolition and Removal - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	5.9843	66.4925	44.1964	0.0527		3.3655	3.3655		3.1307	3.1307	0.0000	5,524.5240	5,524.5240	1.5273		5,556.5971
Total	5.9843	66.4925	44.1964	0.0527		3.3655	3.3655		3.1307	3.1307	0.0000	5,524.5240	5,524.5240	1.5273		5,556.5971

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154
Total	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154

3.5 Task 4:Wooden Deck Demolition and Removal - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.9836	54.1236	35.2920	0.0394		2.7111	2.7111		2.5285	2.5285		4,112.8901	4,112.8901	1.1101		4,136.2030
Total	4.9836	54.1236	35.2920	0.0394		2.7111	2.7111		2.5285	2.5285		4,112.8901	4,112.8901	1.1101		4,136.2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154
Total	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154

3.5 Task 4:Wooden Deck Demolition and Removal - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.9836	54.1236	35.2920	0.0394		2.7111	2.7111		2.5285	2.5285	0.0000	4,112.8901	4,112.8901	1.1101		4,136.2030
Total	4.9836	54.1236	35.2920	0.0394		2.7111	2.7111		2.5285	2.5285	0.0000	4,112.8901	4,112.8901	1.1101		4,136.2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154
Total	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154

3.6 Task 5: Wooden Pile Vibratory Extraction and Removal - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	6.5652	75.0861	53.3201	0.0598		3.5855	3.5855		3.3331	3.3331		6,270.5221	6,270.5221	1.7477		6,307.2247
Total	6.5652	75.0861	53.3201	0.0598		3.5855	3.5855		3.3331	3.3331		6,270.5221	6,270.5221	1.7477		6,307.2247

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154
Total	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154

3.6 Task 5:Wooden Pile Vibratory Extraction and Removal - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	6.5652	75.0861	53.3201	0.0598		3.5855	3.5855		3.3331	3.3331	0.0000	6,270.522 1	6,270.522 1	1.7477		6,307.224 7
Total	6.5652	75.0861	53.3201	0.0598		3.5855	3.5855		3.3331	3.3331	0.0000	6,270.522 1	6,270.522 1	1.7477		6,307.224 7

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154
Total	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154

3.7 Task 6: Concrete Pile Cutting - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	6.8835	78.0944	51.3585	0.0602		3.7647	3.7647		3.4979	3.4979		6,312.7174	6,312.7174	1.7602		6,349.6818
Total	6.8835	78.0944	51.3585	0.0602		3.7647	3.7647		3.4979	3.4979		6,312.7174	6,312.7174	1.7602		6,349.6818

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154
Total	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154

3.7 Task 6: Concrete Pile Cutting - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	6.8835	78.0944	51.3585	0.0602		3.7647	3.7647		3.4979	3.4979	0.0000	6,312.7174	6,312.7174	1.7602		6,349.6818
Total	6.8835	78.0944	51.3585	0.0602		3.7647	3.7647		3.4979	3.4979	0.0000	6,312.7174	6,312.7174	1.7602		6,349.6818

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154
Total	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154

3.8 Task 7: Steel Pile Vibratory Extraction and Removal - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	6.5652	75.0861	53.3201	0.0598		3.5855	3.5855		3.3331	3.3331		6,270.522 1	6,270.522 1	1.7477		6,307.224 7
Total	6.5652	75.0861	53.3201	0.0598		3.5855	3.5855		3.3331	3.3331		6,270.522 1	6,270.522 1	1.7477		6,307.224 7

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154
Total	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154

3.8 Task 7: Steel Pile Vibratory Extraction and Removal - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	6.5652	75.0861	53.3201	0.0598		3.5855	3.5855		3.3331	3.3331	0.0000	6,270.522 1	6,270.522 1	1.7477		6,307.224 7
Total	6.5652	75.0861	53.3201	0.0598		3.5855	3.5855		3.3331	3.3331	0.0000	6,270.522 1	6,270.522 1	1.7477		6,307.224 7

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154
Total	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154

3.9 Task 8: Removal of Steel Pipeline, Debris and Marker Buoys - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	7.6740	83.7371	55.2307	0.0667		4.1868	4.1868		3.9200	3.9200		6,935.7520	6,935.7520	1.8315		6,974.2128
Total	7.6740	83.7371	55.2307	0.0667		4.1868	4.1868		3.9200	3.9200		6,935.7520	6,935.7520	1.8315		6,974.2128

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154
Total	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154

3.9 Task 8: Removal of Steel Pipeline, Debris and Marker Buoys - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	7.6740	83.7371	55.2307	0.0667		4.1868	4.1868		3.9200	3.9200	0.0000	6,935.7520	6,935.7520	1.8315		6,974.2128
Total	7.6740	83.7371	55.2307	0.0667		4.1868	4.1868		3.9200	3.9200	0.0000	6,935.7520	6,935.7520	1.8315		6,974.2128

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154
Total	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154

3.10 Task 9: Movement of Barges to Shore - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.5962	49.5429	36.2873	0.0399		2.5270	2.5270		2.3593	2.3593		4,164.0858	4,164.0858	1.1253		4,187.7164
Total	4.5962	49.5429	36.2873	0.0399		2.5270	2.5270		2.3593	2.3593		4,164.0858	4,164.0858	1.1253		4,187.7164

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154
Total	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154

3.10 Task 9: Movement of Barges to Shore - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	4.5962	49.5429	36.2873	0.0399		2.5270	2.5270		2.3593	2.3593	0.0000	4,164.0858	4,164.0858	1.1253		4,187.7164
Total	4.5962	49.5429	36.2873	0.0399		2.5270	2.5270		2.3593	2.3593	0.0000	4,164.0858	4,164.0858	1.1253		4,187.7164

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154
Total	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154

3.11 Task 10: Onshore Offloading - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	6.7099	76.9643	54.5725	0.0612		3.6634	3.6634		3.4047	3.4047		6,425.4072	6,425.4072	1.7935		6,463.0709
Total	6.7099	76.9643	54.5725	0.0612		3.6634	3.6634		3.4047	3.4047		6,425.4072	6,425.4072	1.7935		6,463.0709

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154
Total	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154

3.11 Task 10: Onshore Offloading - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	6.7099	76.9643	54.5725	0.0612		3.6634	3.6634		3.4047	3.4047	0.0000	6,425.4072	6,425.4072	1.7935		6,463.0709
Total	6.7099	76.9643	54.5725	0.0612		3.6634	3.6634		3.4047	3.4047	0.0000	6,425.4072	6,425.4072	1.7935		6,463.0709

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154
Total	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154

3.12 Task 11: Reduction of Debris - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.9414	41.7245	30.9915	0.0317		2.1427	2.1427		2.0057	2.0057		3,296.2698	3,296.2698	0.8688		3,314.5149
Total	3.9414	41.7245	30.9915	0.0317		2.1427	2.1427		2.0057	2.0057		3,296.2698	3,296.2698	0.8688		3,314.5149

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154
Total	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154

3.12 Task 11: Reduction of Debris - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.9414	41.7245	30.9915	0.0317		2.1427	2.1427		2.0057	2.0057	0.0000	3,296.2698	3,296.2698	0.8688		3,314.5149
Total	3.9414	41.7245	30.9915	0.0317		2.1427	2.1427		2.0057	2.0057	0.0000	3,296.2698	3,296.2698	0.8688		3,314.5149

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154
Total	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154

3.13 Task 12: Hauling of Debris to Landfill/Recycling Facility - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4740	0.0000	0.4740	0.0718	0.0000	0.0718			0.0000			0.0000
Off-Road	3.3239	35.0465	25.1972	0.0310		1.8511	1.8511		1.7374	1.7374		3,220.2088	3,220.2088	0.8463		3,237.9819
Total	3.3239	35.0465	25.1972	0.0310	0.4740	1.8511	2.3251	0.0718	1.7374	1.8092		3,220.2088	3,220.2088	0.8463		3,237.9819

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1764	2.8567	1.4717	5.5800e-003	0.1300	0.0527	0.1828	0.0356	0.0485	0.0841		574.6005	574.6005	5.3400e-003		574.7127
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154
Total	0.3319	3.0417	3.6887	9.1100e-003	0.4129	0.0553	0.4682	0.1106	0.0508	0.1615		891.5337	891.5337	0.0235		892.0281

3.13 Task 12: Hauling of Debris to Landfill/Recycling Facility - 2014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2133	0.0000	0.2133	0.0323	0.0000	0.0323			0.0000			0.0000
Off-Road	3.3239	35.0465	25.1972	0.0310		1.8511	1.8511		1.7374	1.7374	0.0000	3,220.2088	3,220.2088	0.8463		3,237.9819
Total	3.3239	35.0465	25.1972	0.0310	0.2133	1.8511	2.0644	0.0323	1.7374	1.7697	0.0000	3,220.2088	3,220.2088	0.8463		3,237.9819

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1764	2.8567	1.4717	5.5800e-003	0.1300	0.0527	0.1828	0.0356	0.0485	0.0841		574.6005	574.6005	5.3400e-003		574.7127
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1555	0.1850	2.2170	3.5300e-003	0.2829	2.5500e-003	0.2855	0.0750	2.3200e-003	0.0774		316.9332	316.9332	0.0182		317.3154
Total	0.3319	3.0417	3.6887	9.1100e-003	0.4129	0.0553	0.4682	0.1106	0.0508	0.1615		891.5337	891.5337	0.0235		892.0281

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.512787	0.136556	0.205875	0.081133	0.013148	0.006158	0.010117	0.015980	0.000652	0.001904	0.008811	0.004225	0.002654

5.0 Energy Detail

2.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

**Phillips 66 Port Costa Wharf MOT Deconstruction
Contra Costa County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	0.00	User Defined Unit	6.81	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2014
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.011

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - The entire project area is 6.81 acres (this includes a 200 ft buffer zone surrounding the site). At the peak of deconstruction and removal, an estimated 12 construction workers will be on site.

Construction Phase - Deconstruction activities at the MOT will be limited to normal workdays and hours based on 5-day work week and 8-hour workday.

Off-road Equipment -

Off-road Equipment - Mobilization only.

Off-road Equipment - Estimated construction equipment

Off-road Equipment - Estimated construction equipment

Off-road Equipment - One loader is assumed to be loading the reduced material into the dump truck.

Off-road Equipment - Estimated construction equipment

Off-road Equipment - Estimated construction equipment

Off-road Equipment - Estimated construction equipment

Off-road Equipment - Vibratory Pile Extractor to be used as "Other Construction Equipment". 200 ton crane (HP manually entered) and 20 ton crane.

Off-road Equipment - Estimated construction equipment

Off-road Equipment - Other Construction Equipment used in place of Vibratory Pile Extractor. 200 ton crane (340 HP manually entered) and 20 ton crane.

Off-road Equipment - Used 200 crane (340 HP manually entered) and 20 ton crane.

Off-road Equipment - No offroad equipment, used as a placeholder - barge emissions only

Trips and VMT - Assumes 15 x 2 worker trips per day for all construction tasks using the default distance for worker trip length.

Haul trips based on 103 trips x 2 at a distance of 29 miles based on distance from project site to landfill.

Demolition -

Construction Off-road Equipment Mitigation -

Waste Mitigation - It is estimated that approximately 60% of the total C&D waste is concrete and steel and 40% is timber. It is assumed that 100% of the C&D waste from concrete and steel will be recycled. 100% of the timber waste is assumed to be landfilled.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	250
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	250
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	250
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	250

tblConstDustMitigation	CleanPavedRoadPercentReduction	0	80
tblConstructionPhase	NumDays	20.00	6.00
tblConstructionPhase	NumDays	20.00	13.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	20.00	3.00
tblConstructionPhase	NumDays	20.00	16.00
tblConstructionPhase	NumDays	20.00	16.00
tblConstructionPhase	NumDays	20.00	18.00
tblConstructionPhase	NumDays	20.00	2.00
tblConstructionPhase	NumDays	20.00	5.00
tblConstructionPhase	NumDays	20.00	14.00
tblConstructionPhase	NumDays	20.00	3.00
tblConstructionPhase	PhaseStartDate	7/5/2014	7/7/2014
tblConstructionPhase	PhaseStartDate	9/20/2014	9/22/2014
tblLandUse	LotAcreage	0.00	6.81
tblOffRoadEquipment	HorsePower	162.00	157.00
tblOffRoadEquipment	HorsePower	162.00	157.00
tblOffRoadEquipment	HorsePower	205.00	82.00
tblOffRoadEquipment	HorsePower	226.00	340.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	226.00	340.00
tblOffRoadEquipment	HorsePower	226.00	255.00
tblOffRoadEquipment	HorsePower	226.00	340.00
tblOffRoadEquipment	HorsePower	226.00	208.00
tblOffRoadEquipment	HorsePower	226.00	340.00

tbloffRoadEquipment	HorsePower	226.00	255.00
tbloffRoadEquipment	HorsePower	226.00	340.00
tbloffRoadEquipment	HorsePower	226.00	208.00
tbloffRoadEquipment	HorsePower	171.00	81.00
tbloffRoadEquipment	HorsePower	171.00	515.00
tbloffRoadEquipment	HorsePower	171.00	515.00
tbloffRoadEquipment	HorsePower	171.00	327.00
tbloffRoadEquipment	LoadFactor	0.38	0.57
tbloffRoadEquipment	LoadFactor	0.38	0.57
tbloffRoadEquipment	LoadFactor	0.50	0.75
tbloffRoadEquipment	LoadFactor	0.29	0.73
tbloffRoadEquipment	LoadFactor	0.29	0.43
tbloffRoadEquipment	LoadFactor	0.29	0.43
tbloffRoadEquipment	LoadFactor	0.29	0.43
tbloffRoadEquipment	LoadFactor	0.29	0.38
tbloffRoadEquipment	LoadFactor	0.29	0.40
tbloffRoadEquipment	LoadFactor	0.29	0.43
tbloffRoadEquipment	LoadFactor	0.29	0.43
tbloffRoadEquipment	LoadFactor	0.29	0.38
tbloffRoadEquipment	LoadFactor	0.29	0.40
tbloffRoadEquipment	LoadFactor	0.29	0.43
tbloffRoadEquipment	LoadFactor	0.29	0.43
tbloffRoadEquipment	LoadFactor	0.42	0.73
tbloffRoadEquipment	LoadFactor	0.42	0.73
tbloffRoadEquipment	LoadFactor	0.42	0.73
tbloffRoadEquipment	LoadFactor	0.42	0.62
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbloffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.011
tblTripsAndVMT	HaulingTripLength	20.00	29.00
tblTripsAndVMT	HaulingTripNumber	88.00	206.00
tblTripsAndVMT	WorkerTripNumber	18.00	30.00
tblTripsAndVMT	WorkerTripNumber	18.00	30.00
tblTripsAndVMT	WorkerTripNumber	10.00	30.00
tblTripsAndVMT	WorkerTripNumber	13.00	30.00
tblTripsAndVMT	WorkerTripNumber	18.00	30.00
tblTripsAndVMT	WorkerTripNumber	20.00	30.00
tblTripsAndVMT	WorkerTripNumber	13.00	30.00
tblTripsAndVMT	WorkerTripNumber	23.00	30.00
tblTripsAndVMT	WorkerTripNumber	20.00	30.00
tblTripsAndVMT	WorkerTripNumber	23.00	30.00
tblTripsAndVMT	WorkerTripNumber	23.00	30.00
tblTripsAndVMT	WorkerTripNumber	18.00	30.00
tblVehicleEF	HHD	0.02	0.09
tblVehicleEF	HHD	0.02	0.04
tblVehicleEF	HHD	0.00	0.12
tblVehicleEF	HHD	2.77	8.60
tblVehicleEF	HHD	2.05	4.68
tblVehicleEF	HHD	88.12	31.94
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	6.02	20.14
tblVehicleEF	HHD	8.58	10.55
tblVehicleEF	HHD	5.24	3.52
tblVehicleEF	HHD	0.03	0.24
tblVehicleEF	HHD	0.06	0.02

tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.16	0.37
tblVehicleEF	HHD	7.5520e-003	2.4000e-003
tblVehicleEF	HHD	0.03	0.24
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	8.6880e-003	0.03
tblVehicleEF	HHD	0.15	0.37
tblVehicleEF	HHD	5.9870e-003	2.4000e-003
tblVehicleEF	HHD	3.5280e-003	1.0000e-003
tblVehicleEF	HHD	0.28	0.03
tblVehicleEF	HHD	0.53	1.94
tblVehicleEF	HHD	2.0090e-003	4.0000e-004
tblVehicleEF	HHD	0.35	0.85
tblVehicleEF	HHD	1.14	0.02
tblVehicleEF	HHD	4.48	2.18
tblVehicleEF	HHD	5.5830e-003	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	2.2670e-003	7.0000e-004
tblVehicleEF	HHD	3.5280e-003	1.0000e-003
tblVehicleEF	HHD	0.28	0.03
tblVehicleEF	HHD	0.60	2.21
tblVehicleEF	HHD	2.0090e-003	4.0000e-004
tblVehicleEF	HHD	0.40	0.96
tblVehicleEF	HHD	1.14	0.02
tblVehicleEF	HHD	4.81	2.34
tblVehicleEF	HHD	0.02	0.08
tblVehicleEF	HHD	0.02	0.04
tblVehicleEF	HHD	0.00	0.10

tblVehicleEF	HHD	2.02	5.93
tblVehicleEF	HHD	2.06	4.72
tblVehicleEF	HHD	67.76	23.41
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	6.21	21.00
tblVehicleEF	HHD	8.27	10.64
tblVehicleEF	HHD	4.87	3.28
tblVehicleEF	HHD	0.03	0.19
tblVehicleEF	HHD	0.06	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.16	0.37
tblVehicleEF	HHD	7.5520e-003	2.4000e-003
tblVehicleEF	HHD	0.02	0.19
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	8.6880e-003	0.03
tblVehicleEF	HHD	0.15	0.37
tblVehicleEF	HHD	5.9870e-003	2.4000e-003
tblVehicleEF	HHD	0.01	3.2000e-003
tblVehicleEF	HHD	0.32	0.03
tblVehicleEF	HHD	0.50	1.80
tblVehicleEF	HHD	6.0850e-003	1.0000e-003
tblVehicleEF	HHD	0.35	0.85
tblVehicleEF	HHD	1.14	0.02
tblVehicleEF	HHD	3.39	1.71
tblVehicleEF	HHD	5.9150e-003	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.9130e-003	6.0000e-004
tblVehicleEF	HHD	0.01	3.2000e-003

tblVehicleEF	HHD	0.32	0.03
tblVehicleEF	HHD	0.57	2.06
tblVehicleEF	HHD	6.0850e-003	1.0000e-003
tblVehicleEF	HHD	0.40	0.96
tblVehicleEF	HHD	1.14	0.02
tblVehicleEF	HHD	3.64	1.83
tblVehicleEF	HHD	0.03	0.09
tblVehicleEF	HHD	0.02	0.04
tblVehicleEF	HHD	0.00	0.14
tblVehicleEF	HHD	3.82	11.27
tblVehicleEF	HHD	2.05	4.66
tblVehicleEF	HHD	110.47	37.03
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	5.75	19.28
tblVehicleEF	HHD	8.72	10.86
tblVehicleEF	HHD	5.57	3.66
tblVehicleEF	HHD	0.04	0.28
tblVehicleEF	HHD	0.06	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.16	0.37
tblVehicleEF	HHD	7.5520e-003	2.4000e-003
tblVehicleEF	HHD	0.04	0.28
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	8.6880e-003	0.03
tblVehicleEF	HHD	0.15	0.37
tblVehicleEF	HHD	5.9870e-003	2.4000e-003
tblVehicleEF	HHD	8.0500e-004	7.0000e-004
tblVehicleEF	HHD	0.35	0.03

tblVehicleEF	HHD	0.57	2.08
tblVehicleEF	HHD	5.6300e-004	2.0000e-004
tblVehicleEF	HHD	0.35	0.84
tblVehicleEF	HHD	1.24	0.02
tblVehicleEF	HHD	5.59	2.47
tblVehicleEF	HHD	5.1250e-003	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	2.6530e-003	8.0000e-004
tblVehicleEF	HHD	8.0500e-004	7.0000e-004
tblVehicleEF	HHD	0.35	0.03
tblVehicleEF	HHD	0.65	2.37
tblVehicleEF	HHD	5.6300e-004	2.0000e-004
tblVehicleEF	HHD	0.40	0.95
tblVehicleEF	HHD	1.24	0.02
tblVehicleEF	HHD	6.00	2.64
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.47	1.79
tblVehicleEF	LDA	3.26	4.38
tblVehicleEF	LDA	0.53	0.51
tblVehicleEF	LDA	0.14	0.17
tblVehicleEF	LDA	0.21	0.28
tblVehicleEF	LDA	0.04	0.01
tblVehicleEF	LDA	2.1650e-003	0.01
tblVehicleEF	LDA	3.1020e-003	6.0000e-003
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	2.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.9660e-003	0.01

tblVehicleEF	LDA	2.8220e-003	6.0000e-003
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.16	0.18
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.39	0.09
tblVehicleEF	LDA	0.27	0.36
tblVehicleEF	LDA	3.4020e-003	3.7000e-003
tblVehicleEF	LDA	7.9000e-004	8.0000e-004
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.16	0.18
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.39	0.09
tblVehicleEF	LDA	0.28	0.38
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	1.71	2.11
tblVehicleEF	LDA	2.19	2.93
tblVehicleEF	LDA	0.53	0.51
tblVehicleEF	LDA	0.13	0.16
tblVehicleEF	LDA	0.18	0.24
tblVehicleEF	LDA	0.04	0.01
tblVehicleEF	LDA	2.1650e-003	0.01
tblVehicleEF	LDA	3.1020e-003	6.0000e-003
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	2.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.9660e-003	0.01

tblVehicleEF	LDA	2.8220e-003	6.0000e-003
tblVehicleEF	LDA	0.16	0.25
tblVehicleEF	LDA	0.20	0.22
tblVehicleEF	LDA	0.12	0.15
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.37	0.09
tblVehicleEF	LDA	0.20	0.27
tblVehicleEF	LDA	3.7240e-003	4.1000e-003
tblVehicleEF	LDA	7.7200e-004	7.0000e-004
tblVehicleEF	LDA	0.16	0.25
tblVehicleEF	LDA	0.20	0.22
tblVehicleEF	LDA	0.12	0.15
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.37	0.09
tblVehicleEF	LDA	0.21	0.29
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	1.49	1.76
tblVehicleEF	LDA	4.09	5.06
tblVehicleEF	LDA	0.53	0.51
tblVehicleEF	LDA	0.16	0.18
tblVehicleEF	LDA	0.23	0.29
tblVehicleEF	LDA	0.04	0.01
tblVehicleEF	LDA	2.1650e-003	0.01
tblVehicleEF	LDA	3.1020e-003	6.0000e-003
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	2.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.9660e-003	0.01

tblVehicleEF	LDA	2.8220e-003	6.0000e-003
tblVehicleEF	LDA	0.02	0.06
tblVehicleEF	LDA	0.17	0.20
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.45	0.11
tblVehicleEF	LDA	0.32	0.40
tblVehicleEF	LDA	3.3590e-003	3.6000e-003
tblVehicleEF	LDA	8.0500e-004	8.0000e-004
tblVehicleEF	LDA	0.02	0.06
tblVehicleEF	LDA	0.17	0.20
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.45	0.11
tblVehicleEF	LDA	0.34	0.43
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.03	0.02
tblVehicleEF	LDT1	3.57	3.41
tblVehicleEF	LDT1	7.18	6.64
tblVehicleEF	LDT1	0.07	0.14
tblVehicleEF	LDT1	0.38	0.35
tblVehicleEF	LDT1	0.38	0.35
tblVehicleEF	LDT1	0.04	0.01
tblVehicleEF	LDT1	4.7920e-003	0.01
tblVehicleEF	LDT1	5.7400e-003	7.7000e-003
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	2.0000e-003	8.0000e-003
tblVehicleEF	LDT1	4.3620e-003	0.01

tblVehicleEF	LDT1	5.2380e-003	7.7000e-003
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.10	0.08
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	1.17	0.21
tblVehicleEF	LDT1	0.56	0.50
tblVehicleEF	LDT1	3.9510e-003	4.6000e-003
tblVehicleEF	LDT1	9.7000e-004	1.0000e-003
tblVehicleEF	LDT1	0.14	0.13
tblVehicleEF	LDT1	0.31	0.24
tblVehicleEF	LDT1	0.10	0.08
tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	1.17	0.21
tblVehicleEF	LDT1	0.60	0.54
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.03	0.02
tblVehicleEF	LDT1	4.07	3.88
tblVehicleEF	LDT1	4.83	4.46
tblVehicleEF	LDT1	0.07	0.14
tblVehicleEF	LDT1	0.33	0.34
tblVehicleEF	LDT1	0.33	0.31
tblVehicleEF	LDT1	0.04	0.01
tblVehicleEF	LDT1	4.7920e-003	0.01
tblVehicleEF	LDT1	5.7400e-003	7.7000e-003
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	2.0000e-003	8.0000e-003
tblVehicleEF	LDT1	4.3620e-003	0.01

tblVehicleEF	LDT1	5.2380e-003	7.7000e-003
tblVehicleEF	LDT1	0.39	0.37
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.28	0.22
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	1.10	0.19
tblVehicleEF	LDT1	0.42	0.37
tblVehicleEF	LDT1	4.2960e-003	5.1000e-003
tblVehicleEF	LDT1	9.2900e-004	9.0000e-004
tblVehicleEF	LDT1	0.39	0.37
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.28	0.22
tblVehicleEF	LDT1	0.16	0.16
tblVehicleEF	LDT1	1.10	0.19
tblVehicleEF	LDT1	0.45	0.40
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	3.64	3.39
tblVehicleEF	LDT1	9.02	7.66
tblVehicleEF	LDT1	0.07	0.14
tblVehicleEF	LDT1	0.41	0.38
tblVehicleEF	LDT1	0.41	0.37
tblVehicleEF	LDT1	0.04	0.01
tblVehicleEF	LDT1	4.7920e-003	0.01
tblVehicleEF	LDT1	5.7400e-003	7.7000e-003
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	2.0000e-003	8.0000e-003
tblVehicleEF	LDT1	4.3620e-003	0.01

tblVehicleEF	LDT1	5.2380e-003	7.7000e-003
tblVehicleEF	LDT1	0.03	0.09
tblVehicleEF	LDT1	0.34	0.28
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	1.45	0.25
tblVehicleEF	LDT1	0.68	0.56
tblVehicleEF	LDT1	3.9060e-003	4.5000e-003
tblVehicleEF	LDT1	1.0030e-003	1.0000e-003
tblVehicleEF	LDT1	0.03	0.09
tblVehicleEF	LDT1	0.34	0.28
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.16	0.15
tblVehicleEF	LDT1	1.45	0.25
tblVehicleEF	LDT1	0.73	0.60
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.93	2.56
tblVehicleEF	LDT2	4.48	5.88
tblVehicleEF	LDT2	0.18	0.21
tblVehicleEF	LDT2	0.25	0.34
tblVehicleEF	LDT2	0.40	0.53
tblVehicleEF	LDT2	0.04	0.01
tblVehicleEF	LDT2	2.0310e-003	0.02
tblVehicleEF	LDT2	2.8980e-003	0.01
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	2.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8500e-003	0.02

tblVehicleEF	LDT2	2.6520e-003	0.01
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.17	0.17
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.59	0.14
tblVehicleEF	LDT2	0.33	0.44
tblVehicleEF	LDT2	4.6410e-003	4.7000e-003
tblVehicleEF	LDT2	1.0780e-003	1.0000e-003
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	0.17	0.17
tblVehicleEF	LDT2	0.05	0.05
tblVehicleEF	LDT2	0.07	0.10
tblVehicleEF	LDT2	0.59	0.14
tblVehicleEF	LDT2	0.35	0.47
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	2.25	3.00
tblVehicleEF	LDT2	2.98	3.91
tblVehicleEF	LDT2	0.18	0.21
tblVehicleEF	LDT2	0.22	0.33
tblVehicleEF	LDT2	0.35	0.47
tblVehicleEF	LDT2	0.04	0.01
tblVehicleEF	LDT2	2.0310e-003	0.02
tblVehicleEF	LDT2	2.8980e-003	0.01
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	2.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8500e-003	0.02

tblVehicleEF	LDT2	2.6520e-003	0.01
tblVehicleEF	LDT2	0.16	0.24
tblVehicleEF	LDT2	0.20	0.21
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.55	0.13
tblVehicleEF	LDT2	0.25	0.33
tblVehicleEF	LDT2	5.0640e-003	5.2000e-003
tblVehicleEF	LDT2	1.0520e-003	9.0000e-004
tblVehicleEF	LDT2	0.16	0.24
tblVehicleEF	LDT2	0.20	0.21
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.08	0.11
tblVehicleEF	LDT2	0.55	0.13
tblVehicleEF	LDT2	0.27	0.35
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	1.94	2.51
tblVehicleEF	LDT2	5.64	6.79
tblVehicleEF	LDT2	0.18	0.21
tblVehicleEF	LDT2	0.27	0.37
tblVehicleEF	LDT2	0.44	0.56
tblVehicleEF	LDT2	0.04	0.01
tblVehicleEF	LDT2	2.0310e-003	0.02
tblVehicleEF	LDT2	2.8980e-003	0.01
tblVehicleEF	LDT2	0.02	0.01
tblVehicleEF	LDT2	2.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.8500e-003	0.02

tblVehicleEF	LDT2	2.6520e-003	0.01
tblVehicleEF	LDT2	0.02	0.06
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.72	0.18
tblVehicleEF	LDT2	0.40	0.49
tblVehicleEF	LDT2	4.5840e-003	4.6000e-003
tblVehicleEF	LDT2	1.0980e-003	1.0000e-003
tblVehicleEF	LDT2	0.02	0.06
tblVehicleEF	LDT2	0.18	0.19
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.10
tblVehicleEF	LDT2	0.72	0.18
tblVehicleEF	LDT2	0.43	0.53
tblVehicleEF	LHD1	1.2170e-003	1.5000e-003
tblVehicleEF	LHD1	0.03	0.01
tblVehicleEF	LHD1	0.03	0.01
tblVehicleEF	LHD1	0.18	0.21
tblVehicleEF	LHD1	2.39	1.26
tblVehicleEF	LHD1	5.65	3.62
tblVehicleEF	LHD1	0.04	0.01
tblVehicleEF	LHD1	0.06	0.02
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tblVehicleEF	LHD1	7.0100e-004	2.0000e-004
tblVehicleEF	LHD1	0.05	0.01
tblVehicleEF	LHD1	9.3080e-003	0.01

tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.3580e-003	1.3000e-003
tblVehicleEF	LHD1	6.4500e-004	2.0000e-004
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	2.3270e-003	0.01
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.2490e-003	1.3000e-003
tblVehicleEF	LHD1	2.1560e-003	8.0000e-004
tblVehicleEF	LHD1	0.07	0.02
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.1160e-003	3.0000e-004
tblVehicleEF	LHD1	0.23	0.12
tblVehicleEF	LHD1	0.48	0.19
tblVehicleEF	LHD1	0.49	0.27
tblVehicleEF	LHD1	9.0000e-005	1.0000e-004
tblVehicleEF	LHD1	8.2060e-003	8.3000e-003
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tblVehicleEF	LHD1	2.1560e-003	8.0000e-004
tblVehicleEF	LHD1	0.07	0.02
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	1.1160e-003	3.0000e-004
tblVehicleEF	LHD1	0.26	0.14
tblVehicleEF	LHD1	0.48	0.19
tblVehicleEF	LHD1	0.52	0.29
tblVehicleEF	LHD1	1.2170e-003	1.5000e-003
tblVehicleEF	LHD1	0.03	0.01
tblVehicleEF	LHD1	0.03	0.01
tblVehicleEF	LHD1	0.18	0.21

tblVehicleEF	LHD1	2.46	1.29
tblVehicleEF	LHD1	3.83	2.39
tblVehicleEF	LHD1	0.04	0.01
tblVehicleEF	LHD1	0.06	0.02
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tblVehicleEF	LHD1	7.0100e-004	2.0000e-004
tblVehicleEF	LHD1	0.05	0.01
tblVehicleEF	LHD1	9.3080e-003	0.01
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.3580e-003	1.3000e-003
tblVehicleEF	LHD1	6.4500e-004	2.0000e-004
tblVehicleEF	LHD1	0.02	0.01
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tblVehicleEF	LHD1	1.2490e-003	1.3000e-003
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tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.9850e-003	6.0000e-004
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tblVehicleEF	LHD1	9.0000e-005	1.0000e-004
tblVehicleEF	LHD1	8.2070e-003	8.3000e-003
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tblVehicleEF	LHD1	5.9130e-003	2.3000e-003
tblVehicleEF	LHD1	0.09	0.02

tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.9850e-003	6.0000e-004
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tblVehicleEF	LHD1	0.47	0.18
tblVehicleEF	LHD1	0.42	0.23
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tblVehicleEF	LHD1	0.03	0.01
tblVehicleEF	LHD1	0.03	0.01
tblVehicleEF	LHD1	0.18	0.21
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tblVehicleEF	LHD1	0.06	0.02
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tblVehicleEF	LHD1	7.0100e-004	2.0000e-004
tblVehicleEF	LHD1	0.05	0.01
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tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	1.3580e-003	1.3000e-003
tblVehicleEF	LHD1	6.4500e-004	2.0000e-004
tblVehicleEF	LHD1	0.02	0.01
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tblVehicleEF	LHD1	5.7500e-004	6.0000e-004
tblVehicleEF	LHD1	0.08	0.02
tblVehicleEF	LHD1	0.03	0.03

tblVehicleEF	LHD1	4.0800e-004	1.0000e-004
tblVehicleEF	LHD1	0.22	0.12
tblVehicleEF	LHD1	0.54	0.21
tblVehicleEF	LHD1	0.58	0.31
tblVehicleEF	LHD1	9.0000e-005	1.0000e-004
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tblVehicleEF	LHD1	5.7500e-004	6.0000e-004
tblVehicleEF	LHD1	0.08	0.02
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	4.0800e-004	1.0000e-004
tblVehicleEF	LHD1	0.26	0.14
tblVehicleEF	LHD1	0.54	0.21
tblVehicleEF	LHD1	0.62	0.33
tblVehicleEF	LHD2	8.7400e-004	1.3000e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.13	0.18
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tblVehicleEF	LHD2	3.09	5.60
tblVehicleEF	LHD2	4.9620e-003	6.1580e-003
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tblVehicleEF	LHD2	2.76	2.18
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tblVehicleEF	LHD2	1.3840e-003	6.0000e-004
tblVehicleEF	LHD2	0.07	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03

tblVehicleEF	LHD2	8.6100e-004	2.0000e-003
tblVehicleEF	LHD2	1.2730e-003	6.0000e-004
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	2.6380e-003	0.01
tblVehicleEF	LHD2	0.03	0.03
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tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	6.1900e-004	5.0000e-004
tblVehicleEF	LHD2	0.20	0.26
tblVehicleEF	LHD2	0.28	0.55
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tblVehicleEF	LHD2	1.1960e-003	2.0000e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	6.1900e-004	5.0000e-004
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tblVehicleEF	LHD2	0.28	0.55
tblVehicleEF	LHD2	0.30	0.47
tblVehicleEF	LHD2	8.7400e-004	1.3000e-003
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.13	0.18
tblVehicleEF	LHD2	1.78	2.71

tblVehicleEF	LHD2	2.16	3.72
tblVehicleEF	LHD2	4.9620e-003	6.1580e-003
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tblVehicleEF	LHD2	2.64	2.19
tblVehicleEF	LHD2	0.70	1.19
tblVehicleEF	LHD2	1.3840e-003	6.0000e-004
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tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	8.6100e-004	2.0000e-003
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tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	2.6380e-003	0.01
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tblVehicleEF	LHD2	7.6200e-004	2.0000e-003
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tblVehicleEF	LHD2	0.05	0.06
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tblVehicleEF	LHD2	3.3030e-003	5.7000e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03

tblVehicleEF	LHD2	1.6810e-003	1.2000e-003
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tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	0.02	0.02
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tblVehicleEF	LHD2	2.81	2.25
tblVehicleEF	LHD2	0.80	1.33
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tblVehicleEF	LHD2	0.07	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	8.6100e-004	2.0000e-003
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tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	2.6380e-003	0.01
tblVehicleEF	LHD2	0.03	0.03
tblVehicleEF	LHD2	7.6200e-004	2.0000e-003
tblVehicleEF	LHD2	3.1900e-004	1.5000e-003
tblVehicleEF	LHD2	0.05	0.07
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	2.2700e-004	3.0000e-004

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tblVehicleEF	LHD2	0.33	0.49
tblVehicleEF	LHD2	9.8000e-005	1.0000e-004
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tblVehicleEF	LHD2	3.1200e-004	4.0000e-004
tblVehicleEF	LHD2	3.1900e-004	1.5000e-003
tblVehicleEF	LHD2	0.05	0.07
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	2.2700e-004	3.0000e-004
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tblVehicleEF	LHD2	0.36	0.53
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tblVehicleEF	MCY	10.57	10.56
tblVehicleEF	MCY	6.2790e-003	8.8110e-003
tblVehicleEF	MCY	1.29	1.25
tblVehicleEF	MCY	0.32	0.31
tblVehicleEF	MCY	0.04	6.3000e-003
tblVehicleEF	MCY	8.0000e-003	4.0000e-003
tblVehicleEF	MCY	8.6600e-004	0.03
tblVehicleEF	MCY	2.4130e-003	0.01
tblVehicleEF	MCY	0.02	6.3000e-003
tblVehicleEF	MCY	2.0000e-003	4.0000e-003
tblVehicleEF	MCY	6.9200e-004	0.03
tblVehicleEF	MCY	1.8930e-003	0.01

tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.42	0.35
tblVehicleEF	MCY	2.96	3.25
tblVehicleEF	MCY	1.94	0.41
tblVehicleEF	MCY	2.39	2.38
tblVehicleEF	MCY	2.1160e-003	2.2000e-003
tblVehicleEF	MCY	7.1200e-004	7.0000e-004
tblVehicleEF	MCY	0.70	0.73
tblVehicleEF	MCY	0.49	0.35
tblVehicleEF	MCY	0.42	0.35
tblVehicleEF	MCY	3.22	3.53
tblVehicleEF	MCY	1.94	0.41
tblVehicleEF	MCY	2.57	2.56
tblVehicleEF	MCY	0.00	0.22
tblVehicleEF	MCY	0.00	0.12
tblVehicleEF	MCY	30.49	34.10
tblVehicleEF	MCY	8.75	8.74
tblVehicleEF	MCY	6.2790e-003	8.8110e-003
tblVehicleEF	MCY	1.12	1.18
tblVehicleEF	MCY	0.29	0.28
tblVehicleEF	MCY	0.04	6.3000e-003
tblVehicleEF	MCY	8.0000e-003	4.0000e-003
tblVehicleEF	MCY	8.6600e-004	0.03
tblVehicleEF	MCY	2.4130e-003	0.01
tblVehicleEF	MCY	0.02	6.3000e-003
tblVehicleEF	MCY	2.0000e-003	4.0000e-003
tblVehicleEF	MCY	6.9200e-004	0.03

tblVehicleEF	MCY	1.8930e-003	0.01
tblVehicleEF	MCY	2.14	2.32
tblVehicleEF	MCY	0.72	0.54
tblVehicleEF	MCY	1.44	1.26
tblVehicleEF	MCY	2.80	3.07
tblVehicleEF	MCY	1.82	0.39
tblVehicleEF	MCY	1.88	1.87
tblVehicleEF	MCY	2.0860e-003	2.1000e-003
tblVehicleEF	MCY	6.6700e-004	6.0000e-004
tblVehicleEF	MCY	2.14	2.32
tblVehicleEF	MCY	0.72	0.54
tblVehicleEF	MCY	1.44	1.26
tblVehicleEF	MCY	3.06	3.34
tblVehicleEF	MCY	1.82	0.39
tblVehicleEF	MCY	2.03	2.02
tblVehicleEF	MCY	0.00	0.23
tblVehicleEF	MCY	0.00	0.17
tblVehicleEF	MCY	35.57	37.91
tblVehicleEF	MCY	12.60	11.62
tblVehicleEF	MCY	6.2790e-003	8.8110e-003
tblVehicleEF	MCY	1.39	1.35
tblVehicleEF	MCY	0.34	0.33
tblVehicleEF	MCY	0.04	6.3000e-003
tblVehicleEF	MCY	8.0000e-003	4.0000e-003
tblVehicleEF	MCY	8.6600e-004	0.03
tblVehicleEF	MCY	2.4130e-003	0.01
tblVehicleEF	MCY	0.02	6.3000e-003
tblVehicleEF	MCY	2.0000e-003	4.0000e-003

tblVehicleEF	MCY	6.9200e-004	0.03
tblVehicleEF	MCY	1.8930e-003	0.01
tblVehicleEF	MCY	0.11	0.51
tblVehicleEF	MCY	0.57	0.46
tblVehicleEF	MCY	0.10	0.14
tblVehicleEF	MCY	3.14	3.36
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tblVehicleEF	MCY	2.89	2.65
tblVehicleEF	MCY	2.1770e-003	2.2000e-003
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tblVehicleEF	MCY	0.11	0.51
tblVehicleEF	MCY	0.57	0.46
tblVehicleEF	MCY	0.10	0.14
tblVehicleEF	MCY	3.42	3.65
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tblVehicleEF	MCY	3.11	2.85
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	2.62	2.43
tblVehicleEF	MDV	6.96	6.28
tblVehicleEF	MDV	0.15	0.08
tblVehicleEF	MDV	0.39	0.36
tblVehicleEF	MDV	0.64	0.62
tblVehicleEF	MDV	0.04	0.01
tblVehicleEF	MDV	2.2440e-003	0.02
tblVehicleEF	MDV	3.5050e-003	0.01
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	2.0000e-003	8.0000e-003

tblVehicleEF	MDV	2.0650e-003	0.02
tblVehicleEF	MDV	3.2320e-003	0.01
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.19	0.13
tblVehicleEF	MDV	0.06	0.04
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.65	0.10
tblVehicleEF	MDV	0.59	0.54
tblVehicleEF	MDV	5.8850e-003	6.3000e-003
tblVehicleEF	MDV	1.3810e-003	1.3000e-003
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.19	0.13
tblVehicleEF	MDV	0.06	0.04
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.65	0.10
tblVehicleEF	MDV	0.63	0.57
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	3.09	2.86
tblVehicleEF	MDV	4.62	4.18
tblVehicleEF	MDV	0.15	0.08
tblVehicleEF	MDV	0.35	0.35
tblVehicleEF	MDV	0.56	0.54
tblVehicleEF	MDV	0.04	0.01
tblVehicleEF	MDV	2.2440e-003	0.02
tblVehicleEF	MDV	3.5050e-003	0.01
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	2.0000e-003	8.0000e-003

tblVehicleEF	MDV	2.0650e-003	0.02
tblVehicleEF	MDV	3.2320e-003	0.01
tblVehicleEF	MDV	0.18	0.17
tblVehicleEF	MDV	0.22	0.16
tblVehicleEF	MDV	0.15	0.12
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.61	0.09
tblVehicleEF	MDV	0.44	0.40
tblVehicleEF	MDV	6.4150e-003	7.0000e-003
tblVehicleEF	MDV	1.3400e-003	1.3000e-003
tblVehicleEF	MDV	0.18	0.17
tblVehicleEF	MDV	0.22	0.16
tblVehicleEF	MDV	0.15	0.12
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.61	0.09
tblVehicleEF	MDV	0.47	0.43
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	2.62	2.37
tblVehicleEF	MDV	8.77	7.26
tblVehicleEF	MDV	0.15	0.08
tblVehicleEF	MDV	0.43	0.39
tblVehicleEF	MDV	0.70	0.65
tblVehicleEF	MDV	0.04	0.01
tblVehicleEF	MDV	2.2440e-003	0.02
tblVehicleEF	MDV	3.5050e-003	0.01
tblVehicleEF	MDV	0.02	0.01
tblVehicleEF	MDV	2.0000e-003	8.0000e-003

tblVehicleEF	MDV	2.0650e-003	0.02
tblVehicleEF	MDV	3.2320e-003	0.01
tblVehicleEF	MDV	0.02	0.04
tblVehicleEF	MDV	0.20	0.14
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.79	0.12
tblVehicleEF	MDV	0.71	0.60
tblVehicleEF	MDV	5.8130e-003	6.2000e-003
tblVehicleEF	MDV	1.4140e-003	1.3000e-003
tblVehicleEF	MDV	0.02	0.04
tblVehicleEF	MDV	0.20	0.14
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.79	0.12
tblVehicleEF	MDV	0.76	0.64
tblVehicleEF	MH	0.00	0.04
tblVehicleEF	MH	0.00	0.05
tblVehicleEF	MH	6.20	8.50
tblVehicleEF	MH	11.77	14.84
tblVehicleEF	MH	2.0570e-003	2.6540e-003
tblVehicleEF	MH	2.20	1.96
tblVehicleEF	MH	1.00	1.17
tblVehicleEF	MH	0.05	0.01
tblVehicleEF	MH	8.6600e-003	0.01
tblVehicleEF	MH	0.04	0.02
tblVehicleEF	MH	2.0220e-003	9.0000e-004
tblVehicleEF	MH	0.02	0.01

tblVehicleEF	MH	2.1650e-003	0.01
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	1.7300e-003	9.0000e-004
tblVehicleEF	MH	1.04	1.31
tblVehicleEF	MH	0.09	0.09
tblVehicleEF	MH	0.37	0.42
tblVehicleEF	MH	0.25	0.31
tblVehicleEF	MH	2.09	0.02
tblVehicleEF	MH	0.73	0.87
tblVehicleEF	MH	7.6310e-003	7.6000e-003
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tblVehicleEF	MH	1.04	1.31
tblVehicleEF	MH	0.09	0.09
tblVehicleEF	MH	0.37	0.42
tblVehicleEF	MH	0.29	0.36
tblVehicleEF	MH	2.09	0.02
tblVehicleEF	MH	0.78	0.93
tblVehicleEF	MH	0.00	0.04
tblVehicleEF	MH	0.00	0.03
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tblVehicleEF	MH	2.0570e-003	2.6540e-003
tblVehicleEF	MH	2.04	1.92
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tblVehicleEF	MH	0.04	0.02
tblVehicleEF	MH	2.0220e-003	9.0000e-004

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tblVehicleEF	MH	1.7300e-003	9.0000e-004
tblVehicleEF	MH	2.79	3.76
tblVehicleEF	MH	0.11	0.10
tblVehicleEF	MH	0.99	0.88
tblVehicleEF	MH	0.25	0.32
tblVehicleEF	MH	2.04	0.02
tblVehicleEF	MH	0.54	0.63
tblVehicleEF	MH	7.6330e-003	7.6000e-003
tblVehicleEF	MH	4.7300e-004	5.0000e-004
tblVehicleEF	MH	2.79	3.76
tblVehicleEF	MH	0.11	0.10
tblVehicleEF	MH	0.99	0.88
tblVehicleEF	MH	0.29	0.37
tblVehicleEF	MH	2.04	0.02
tblVehicleEF	MH	0.58	0.67
tblVehicleEF	MH	0.00	0.04
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tblVehicleEF	MH	2.29	2.07
tblVehicleEF	MH	1.07	1.22
tblVehicleEF	MH	0.05	0.01
tblVehicleEF	MH	8.6600e-003	0.01
tblVehicleEF	MH	0.04	0.02

tblVehicleEF	MH	2.0220e-003	9.0000e-004
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	2.1650e-003	0.01
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	1.7300e-003	9.0000e-004
tblVehicleEF	MH	0.26	0.99
tblVehicleEF	MH	0.12	0.12
tblVehicleEF	MH	0.14	0.20
tblVehicleEF	MH	0.25	0.31
tblVehicleEF	MH	2.25	0.02
tblVehicleEF	MH	0.92	1.01
tblVehicleEF	MH	7.6330e-003	7.6000e-003
tblVehicleEF	MH	6.0800e-004	6.0000e-004
tblVehicleEF	MH	0.26	0.99
tblVehicleEF	MH	0.12	0.12
tblVehicleEF	MH	0.14	0.20
tblVehicleEF	MH	0.29	0.35
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tblVehicleEF	MH	0.99	1.08
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tblVehicleEF	MHD	0.04	2.3000e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	2.8410e-003	0.01
tblVehicleEF	MHD	0.13	0.17
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tblVehicleEF	MHD	0.21	0.02
tblVehicleEF	MHD	1.7990e-003	3.0000e-004
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tblVehicleEF	MHD	0.24	0.02
tblVehicleEF	MHD	1.7990e-003	3.0000e-004
tblVehicleEF	MHD	0.34	0.25
tblVehicleEF	MHD	0.85	0.17
tblVehicleEF	MHD	2.17	0.62

tblVehicleEF	MHD	9.0800e-003	9.0000e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.00	0.02
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tblVehicleEF	MHD	2.43	0.71
tblVehicleEF	MHD	0.04	2.3000e-003
tblVehicleEF	MHD	0.12	0.01
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.14	0.17
tblVehicleEF	MHD	5.3560e-003	1.2000e-003
tblVehicleEF	MHD	0.04	2.3000e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	2.8410e-003	0.01
tblVehicleEF	MHD	0.13	0.17
tblVehicleEF	MHD	4.4630e-003	1.2000e-003
tblVehicleEF	MHD	0.01	2.4000e-003
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tblVehicleEF	MHD	0.20	0.02
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tblVehicleEF	MHD	0.84	0.17
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tblVehicleEF	MHD	1.0260e-003	2.0000e-004
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tblVehicleEF	MHD	0.23	0.02
tblVehicleEF	MHD	0.22	0.02
tblVehicleEF	MHD	5.2450e-003	6.0000e-004
tblVehicleEF	MHD	0.34	0.26
tblVehicleEF	MHD	0.84	0.17
tblVehicleEF	MHD	1.67	0.47
tblVehicleEF	MHD	0.01	9.0000e-004
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tblVehicleEF	MHD	0.13	0.17

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tblVehicleEF	SBUS	0.69	0.01
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tblVehicleEF	SBUS	0.11	0.58
tblVehicleEF	SBUS	0.03	8.0000e-004
tblVehicleEF	SBUS	0.29	0.27
tblVehicleEF	SBUS	1.66	8.7700e-003
tblVehicleEF	SBUS	2.34	0.10
tblVehicleEF	SBUS	5.9690e-003	5.3000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	1.9270e-003	1.0000e-004

tblVehicleEF	SBUS	0.07	3.1000e-003
tblVehicleEF	SBUS	0.34	0.01
tblVehicleEF	SBUS	0.12	0.64
tblVehicleEF	SBUS	0.03	8.0000e-004
tblVehicleEF	SBUS	0.32	0.31
tblVehicleEF	SBUS	1.66	8.7700e-003
tblVehicleEF	SBUS	2.52	0.10
tblVehicleEF	SBUS	5.8270e-003	0.02
tblVehicleEF	SBUS	9.1740e-003	0.01
tblVehicleEF	SBUS	0.00	8.7000e-003
tblVehicleEF	SBUS	1.44	4.42
tblVehicleEF	SBUS	2.68	3.00
tblVehicleEF	SBUS	37.02	1.57
tblVehicleEF	SBUS	2.1420e-003	4.2250e-003
tblVehicleEF	SBUS	7.83	9.31
tblVehicleEF	SBUS	9.95	8.50
tblVehicleEF	SBUS	1.80	0.10
tblVehicleEF	SBUS	0.03	0.09
tblVehicleEF	SBUS	0.69	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.11	0.29
tblVehicleEF	SBUS	0.01	3.0000e-004
tblVehicleEF	SBUS	0.03	0.09
tblVehicleEF	SBUS	0.30	0.01
tblVehicleEF	SBUS	2.9270e-003	0.01
tblVehicleEF	SBUS	0.10	0.29
tblVehicleEF	SBUS	8.2950e-003	3.0000e-004
tblVehicleEF	SBUS	5.6090e-003	8.0000e-004

tblVehicleEF	SBUS	0.41	0.01
tblVehicleEF	SBUS	0.13	0.58
tblVehicleEF	SBUS	2.9090e-003	2.0000e-004
tblVehicleEF	SBUS	0.30	0.27
tblVehicleEF	SBUS	2.28	0.01
tblVehicleEF	SBUS	3.46	0.13
tblVehicleEF	SBUS	5.1720e-003	5.3000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	2.1240e-003	1.0000e-004
tblVehicleEF	SBUS	5.6090e-003	8.0000e-004
tblVehicleEF	SBUS	0.41	0.01
tblVehicleEF	SBUS	0.14	0.64
tblVehicleEF	SBUS	2.9090e-003	2.0000e-004
tblVehicleEF	SBUS	0.33	0.31
tblVehicleEF	SBUS	2.28	0.01
tblVehicleEF	SBUS	3.72	0.14
tblVehicleEF	UBUS	0.00	0.04
tblVehicleEF	UBUS	0.00	0.05
tblVehicleEF	UBUS	4.76	4.04
tblVehicleEF	UBUS	13.02	11.92
tblVehicleEF	UBUS	1.4970e-003	1.9040e-003
tblVehicleEF	UBUS	14.24	12.85
tblVehicleEF	UBUS	1.58	1.67
tblVehicleEF	UBUS	0.65	0.01
tblVehicleEF	UBUS	8.0000e-003	9.1000e-003
tblVehicleEF	UBUS	0.24	0.22
tblVehicleEF	UBUS	7.4700e-004	3.5000e-003
tblVehicleEF	UBUS	0.28	0.01

tblVehicleEF	UBUS	2.0000e-003	9.1000e-003
tblVehicleEF	UBUS	0.22	0.22
tblVehicleEF	UBUS	6.9400e-004	3.5000e-003
tblVehicleEF	UBUS	4.5190e-003	4.2000e-003
tblVehicleEF	UBUS	0.10	0.09
tblVehicleEF	UBUS	2.1440e-003	2.0000e-003
tblVehicleEF	UBUS	0.82	0.77
tblVehicleEF	UBUS	0.76	0.02
tblVehicleEF	UBUS	0.93	0.98
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	5.7900e-004	6.0000e-004
tblVehicleEF	UBUS	4.5190e-003	4.2000e-003
tblVehicleEF	UBUS	0.10	0.09
tblVehicleEF	UBUS	2.1440e-003	2.0000e-003
tblVehicleEF	UBUS	0.92	0.86
tblVehicleEF	UBUS	0.76	0.02
tblVehicleEF	UBUS	1.00	1.04
tblVehicleEF	UBUS	0.00	0.04
tblVehicleEF	UBUS	0.00	0.04
tblVehicleEF	UBUS	4.88	4.14
tblVehicleEF	UBUS	9.60	8.86
tblVehicleEF	UBUS	1.4970e-003	1.9040e-003
tblVehicleEF	UBUS	13.64	12.96
tblVehicleEF	UBUS	1.46	1.55
tblVehicleEF	UBUS	0.65	0.01
tblVehicleEF	UBUS	8.0000e-003	9.1000e-003
tblVehicleEF	UBUS	0.24	0.22
tblVehicleEF	UBUS	7.4700e-004	3.5000e-003

tblVehicleEF	UBUS	0.28	0.01
tblVehicleEF	UBUS	2.0000e-003	9.1000e-003
tblVehicleEF	UBUS	0.22	0.22
tblVehicleEF	UBUS	6.9400e-004	3.5000e-003
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.12	0.10
tblVehicleEF	UBUS	5.4800e-003	4.1000e-003
tblVehicleEF	UBUS	0.84	0.78
tblVehicleEF	UBUS	0.71	0.02
tblVehicleEF	UBUS	0.78	0.82
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	5.2100e-004	6.0000e-004
tblVehicleEF	UBUS	0.01	0.01
tblVehicleEF	UBUS	0.12	0.10
tblVehicleEF	UBUS	5.4800e-003	4.1000e-003
tblVehicleEF	UBUS	0.94	0.88
tblVehicleEF	UBUS	0.71	0.02
tblVehicleEF	UBUS	0.83	0.88
tblVehicleEF	UBUS	0.00	0.04
tblVehicleEF	UBUS	0.00	0.05
tblVehicleEF	UBUS	4.67	4.00
tblVehicleEF	UBUS	16.33	13.46
tblVehicleEF	UBUS	1.4970e-003	1.9040e-003
tblVehicleEF	UBUS	14.48	13.22
tblVehicleEF	UBUS	1.68	1.73
tblVehicleEF	UBUS	0.65	0.01
tblVehicleEF	UBUS	8.0000e-003	9.1000e-003
tblVehicleEF	UBUS	0.24	0.22

tblVehicleEF	UBUS	7.4700e-004	3.5000e-003
tblVehicleEF	UBUS	0.28	0.01
tblVehicleEF	UBUS	2.0000e-003	9.1000e-003
tblVehicleEF	UBUS	0.22	0.22
tblVehicleEF	UBUS	6.9400e-004	3.5000e-003
tblVehicleEF	UBUS	1.2100e-003	3.7000e-003
tblVehicleEF	UBUS	0.12	0.11
tblVehicleEF	UBUS	7.9100e-004	1.1000e-003
tblVehicleEF	UBUS	0.81	0.76
tblVehicleEF	UBUS	0.92	0.02
tblVehicleEF	UBUS	1.07	1.06
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	6.3600e-004	6.0000e-004
tblVehicleEF	UBUS	1.2100e-003	3.7000e-003
tblVehicleEF	UBUS	0.12	0.11
tblVehicleEF	UBUS	7.9100e-004	1.1000e-003
tblVehicleEF	UBUS	0.90	0.86
tblVehicleEF	UBUS	0.92	0.02
tblVehicleEF	UBUS	1.15	1.13
tblWater	AerobicPercent	87.46	84.69
tblWater	AnaDigestCombDigestGasPercent	100.00	3.17
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	2.14
tblWater	SepticTankPercent	10.33	10.00

2.0 Emissions Summary

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Task 1: Mobilization/Demobilization Site Preparation	Demolition	6/2/2014	6/9/2014	5	6	Tug boats and anchor boat to arrive and depart at project site with barges and equipment
2	Task 2: Wharf Fixtures Removal	Demolition	6/10/2014	6/12/2014	5	3	Removal of deck fixtures and remnants
3	Task 3: Mooring Dolphin Demolition and Removal	Demolition	6/13/2014	7/4/2014	5	16	Cutting and removal of concrete mooring dolphins
4	Task 4: Wooden Deck Demolition and Removal	Demolition	7/7/2014	7/28/2014	5	16	Removal of central predominately wooden land platform and three smaller pier platforms
5	Task 5: Wooden Pile Vibratory Extraction and Removal	Demolition	7/29/2014	8/21/2014	5	18	Vibratory extraction and removal of 117 timber piles.
6	Task 6: Concrete Pile Cutting	Demolition	8/22/2014	8/25/2014	5	2	Cutting of eleven 20-inch square concrete piles.
7	Task 7: Steel Pile Vibratory Extraction and Removal	Demolition	8/26/2014	9/1/2014	5	5	Vibratory extraction and removal of 24 steel piles supporting 2 mooring dolphins.
8	Task 8: Removal of Steel Pipeline, Debris and Marker Buoys	Demolition	9/2/2014	9/19/2014	5	14	Removal of steel pipeline, underwater pile remnants and marker buoys.
9	Task 9: Movement of Barges to Shore	Demolition	9/22/2014	9/24/2014	5	3	Tug boat hauling of barges to shore for wharf material onshore offloading
10	Task 10: Onshore Offloading	Demolition	9/25/2014	10/13/2014	5	13	Offloading of wharf materials to a secure onshore staging area.
11	Task 11: Reduction of Debris	Demolition	10/14/2014	10/27/2014	5	10	Pulverizing of wharf materials into smaller sections for easier loading.
12	Task 12: Hauling of Debris to Landfill/Recycling Facility	Demolition	10/28/2014	12/22/2014	5	40	The remnant wharf materials will be taken via dump truck to a facility for proper disposal.

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Task 1: Mobilization/Demobilization Site Preparation	Other Construction Equipment	1	0.00	81	0.73
Task 2: Wharf Fixtures Removal	Cranes	1	8.00	208	0.43
Task 3: Mooring Dolphin Demolition and Removal	Bore/Drill Rigs	1	8.00	82	0.75
Task 3: Mooring Dolphin Demolition and Removal	Concrete/Industrial Saws	1	8.00	81	0.73
Task 3: Mooring Dolphin Demolition and Removal	Cranes	1	8.00	208	0.43
Task 4: Wooden Deck Demolition and Removal	Concrete/Industrial Saws	1	8.00	81	0.73
Task 4: Wooden Deck Demolition and Removal	Cranes	1	8.00	208	0.43
Task 4: Wooden Deck Demolition and Removal	Excavators	1	8.00	157	0.57
Task 5: Wooden Pile Vibratory Extraction and Removal	Cranes	1	8.00	340	0.38
Task 5: Wooden Pile Vibratory Extraction and Removal	Cranes	1	8.00	255	0.40
Task 5: Wooden Pile Vibratory Extraction and Removal	Other Construction Equipment	1	8.00	515	0.73
Task 6: Concrete Pile Cutting	Concrete/Industrial Saws	1	8.00	81	0.73
Task 6: Concrete Pile Cutting	Cranes	1	8.00	340	0.43
Task 6: Concrete Pile Cutting	Cranes	1	8.00	208	0.43
Task 7: Steel Pile Vibratory Extraction and Removal	Cranes	1	8.00	340	0.38
Task 7: Steel Pile Vibratory Extraction and Removal	Cranes	1	8.00	255	0.40
Task 7: Steel Pile Vibratory Extraction and Removal	Other Construction Equipment	1	8.00	515	0.73
Task 8: Removal of Steel Pipeline, Debris and Marker Buoys	Concrete/Industrial Saws	1	8.00	81	0.73
Task 8: Removal of Steel Pipeline, Debris and Marker Buoys	Cranes	1	8.00	340	0.43
Task 8: Removal of Steel Pipeline, Debris and Marker Buoys	Cranes	1	8.00	208	0.43
Task 8: Removal of Steel Pipeline, Debris and Marker Buoys	Generator Sets	1	8.00	84	0.74
Task 9: Movement of Barges to Shore	Other Construction Equipment	1	0.00	327	0.62
Task 10: Onshore Offloading	Cranes	1	8.00	340	0.73

Task 11: Reduction of Debris	Excavators	1	8.00	157	0.57
Task 12: Hauling of Debris to Landfill/Recycling Facility	Rubber Tired Dozers	1	8.00	255	0.40
Task 1: Mobilization/Demobilization Site Preparation	Concrete/Industrial Saws	1	8.00	81	0.73
Task 10: Onshore Offloading	Concrete/Industrial Saws	1	8.00	81	0.73
Task 11: Reduction of Debris	Concrete/Industrial Saws	1	8.00	81	0.73
Task 12: Hauling of Debris to Landfill/Recycling Facility	Concrete/Industrial Saws	1	8.00	81	0.73
Task 2:Wharf Fixtures Removal	Concrete/Industrial Saws	1	8.00	81	0.73
Task 5:Wooden Pile Vibratory Extraction and Removal	Concrete/Industrial Saws	1	8.00	81	0.73
Task 7: Steel Pile Vibratory Extraction and Removal	Concrete/Industrial Saws	1	8.00	81	0.73
Task 9: Movement of Barges to Shore	Concrete/Industrial Saws	1	8.00	81	0.73
Task 1: Mobilization/Demobilization Site Preparation	Excavators	3	8.00	162	0.38
Task 10: Onshore Offloading	Excavators	3	8.00	162	0.38
Task 12: Hauling of Debris to Landfill/Recycling Facility	Excavators	3	8.00	162	0.38
Task 2:Wharf Fixtures Removal	Excavators	3	8.00	162	0.38
Task 3:Mooring Dolphin Demolition and Removal	Excavators	3	8.00	162	0.38
Task 5:Wooden Pile Vibratory Extraction and Removal	Excavators	3	8.00	162	0.38
Task 6: Concrete Pile Cutting	Excavators	3	8.00	162	0.38
Task 7: Steel Pile Vibratory Extraction and Removal	Excavators	3	8.00	162	0.38
Task 8: Removal of Steel Pipeline, Debris and Marker Buoys	Excavators	3	8.00	162	0.38
Task 9: Movement of Barges to Shore	Excavators	3	8.00	162	0.38
Task 1: Mobilization/Demobilization Site Preparation	Rubber Tired Dozers	2	8.00	255	0.40
Task 10: Onshore Offloading	Rubber Tired Dozers	2	8.00	255	0.40
Task 11: Reduction of Debris	Rubber Tired Dozers	2	8.00	255	0.40
Task 2:Wharf Fixtures Removal	Rubber Tired Dozers	2	8.00	255	0.40
Task 3:Mooring Dolphin Demolition and Removal	Rubber Tired Dozers	2	8.00	255	0.40

Task 4: Wooden Deck Demolition and Removal	Rubber Tired Dozers	2	8.00	255	0.40
Task 5: Wooden Pile Vibratory Extraction and Removal	Rubber Tired Dozers	2	8.00	255	0.40
Task 6: Concrete Pile Cutting	Rubber Tired Dozers	2	8.00	255	0.40
Task 7: Steel Pile Vibratory Extraction and Removal	Rubber Tired Dozers	2	8.00	255	0.40
Task 8: Removal of Steel Pipeline, Debris and Marker Buoys	Rubber Tired Dozers	2	8.00	255	0.40
Task 9: Movement of Barges to Shore	Rubber Tired Dozers	2	8.00	255	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Task 1: Mobilization/Demobilization	7	30.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Task 2: Wharf Fixtures Removal	7	30.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Task 3: Mooring Dolphin Demolition and Removal	8	30.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Task 4: Wooden Deck Demolition and Removal	5	30.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Task 5: Wooden Pile Vibratory Extraction and Removal	9	30.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Task 6: Concrete Pile Cutting	8	30.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Task 7: Steel Pile Vibratory Extraction and Removal	9	30.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Task 8: Removal of Steel Pipeline, Debris and Marker Buoys	9	30.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Task 9: Movement of Barges to Shore	7	30.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Task 10: Onshore Offloading	7	30.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Task 11: Reduction of Debris	4	30.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Task 12: Hauling of Debris to Landfill/Recycling	5	30.00	0.00	206.00	12.40	7.30	29.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Task 1: Mobilization/Demobilization Site Preparation - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0138	0.1486	0.1089	1.2000e-004		7.5800e-003	7.5800e-003		7.0800e-003	7.0800e-003	0.0000	11.3328	11.3328	3.0600e-003	0.0000	11.3971
Total	0.0138	0.1486	0.1089	1.2000e-004		7.5800e-003	7.5800e-003		7.0800e-003	7.0800e-003	0.0000	11.3328	11.3328	3.0600e-003	0.0000	11.3971

3.2 Task 1: Mobilization/Demobilization Site Preparation - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	6.2000e-004	6.1300e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7922	0.7922	5.0000e-005	0.0000	0.7932
Total	4.3000e-004	6.2000e-004	6.1300e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7922	0.7922	5.0000e-005	0.0000	0.7932

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0138	0.1486	0.1089	1.2000e-004		7.5800e-003	7.5800e-003		7.0800e-003	7.0800e-003	0.0000	11.3328	11.3328	3.0600e-003	0.0000	11.3971
Total	0.0138	0.1486	0.1089	1.2000e-004		7.5800e-003	7.5800e-003		7.0800e-003	7.0800e-003	0.0000	11.3328	11.3328	3.0600e-003	0.0000	11.3971

3.2 Task 1: Mobilization/Demobilization Site Preparation - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	6.2000e-004	6.1300e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7922	0.7922	5.0000e-005	0.0000	0.7932
Total	4.3000e-004	6.2000e-004	6.1300e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7922	0.7922	5.0000e-005	0.0000	0.7932

3.3 Task 2: Wharf Fixtures Removal - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.4600e-003	0.0929	0.0609	7.0000e-005		4.6400e-003	4.6400e-003		4.3200e-003	4.3200e-003	0.0000	6.7776	6.7776	1.8600e-003	0.0000	6.8167
Total	8.4600e-003	0.0929	0.0609	7.0000e-005		4.6400e-003	4.6400e-003		4.3200e-003	4.3200e-003	0.0000	6.7776	6.7776	1.8600e-003	0.0000	6.8167

3.3 Task 2:Wharf Fixtures Removal - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	3.1000e-004	3.0600e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3961	0.3961	2.0000e-005	0.0000	0.3966
Total	2.1000e-004	3.1000e-004	3.0600e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3961	0.3961	2.0000e-005	0.0000	0.3966

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.4600e-003	0.0929	0.0609	7.0000e-005		4.6400e-003	4.6400e-003		4.3200e-003	4.3200e-003	0.0000	6.7776	6.7776	1.8600e-003	0.0000	6.8167
Total	8.4600e-003	0.0929	0.0609	7.0000e-005		4.6400e-003	4.6400e-003		4.3200e-003	4.3200e-003	0.0000	6.7776	6.7776	1.8600e-003	0.0000	6.8167

3.3 Task 2:Wharf Fixtures Removal - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	3.1000e-004	3.0600e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3961	0.3961	2.0000e-005	0.0000	0.3966
Total	2.1000e-004	3.1000e-004	3.0600e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3961	0.3961	2.0000e-005	0.0000	0.3966

3.4 Task 3:Mooring Dolphin Demolition and Removal - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0479	0.5319	0.3536	4.2000e-004		0.0269	0.0269		0.0251	0.0251	0.0000	40.0941	40.0941	0.0111	0.0000	40.3269
Total	0.0479	0.5319	0.3536	4.2000e-004		0.0269	0.0269		0.0251	0.0251	0.0000	40.0941	40.0941	0.0111	0.0000	40.3269

3.4 Task 3: Mooring Dolphin Demolition and Removal - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	1.6600e-003	0.0164	3.0000e-005	2.1900e-003	2.0000e-005	2.2100e-003	5.8000e-004	2.0000e-005	6.0000e-004	0.0000	2.1125	2.1125	1.3000e-004	0.0000	2.1153
Total	1.1400e-003	1.6600e-003	0.0164	3.0000e-005	2.1900e-003	2.0000e-005	2.2100e-003	5.8000e-004	2.0000e-005	6.0000e-004	0.0000	2.1125	2.1125	1.3000e-004	0.0000	2.1153

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0479	0.5319	0.3536	4.2000e-004		0.0269	0.0269		0.0251	0.0251	0.0000	40.0941	40.0941	0.0111	0.0000	40.3268
Total	0.0479	0.5319	0.3536	4.2000e-004		0.0269	0.0269		0.0251	0.0251	0.0000	40.0941	40.0941	0.0111	0.0000	40.3268

3.4 Task 3: Mooring Dolphin Demolition and Removal - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	1.6600e-003	0.0164	3.0000e-005	2.1900e-003	2.0000e-005	2.2100e-003	5.8000e-004	2.0000e-005	6.0000e-004	0.0000	2.1125	2.1125	1.3000e-004	0.0000	2.1153
Total	1.1400e-003	1.6600e-003	0.0164	3.0000e-005	2.1900e-003	2.0000e-005	2.2100e-003	5.8000e-004	2.0000e-005	6.0000e-004	0.0000	2.1125	2.1125	1.3000e-004	0.0000	2.1153

3.5 Task 4: Wooden Deck Demolition and Removal - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0399	0.4330	0.2823	3.2000e-004		0.0217	0.0217		0.0202	0.0202	0.0000	29.8492	29.8492	8.0600e-003	0.0000	30.0184
Total	0.0399	0.4330	0.2823	3.2000e-004		0.0217	0.0217		0.0202	0.0202	0.0000	29.8492	29.8492	8.0600e-003	0.0000	30.0184

3.5 Task 4:Wooden Deck Demolition and Removal - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	1.6600e-003	0.0164	3.0000e-005	2.1900e-003	2.0000e-005	2.2100e-003	5.8000e-004	2.0000e-005	6.0000e-004	0.0000	2.1125	2.1125	1.3000e-004	0.0000	2.1153
Total	1.1400e-003	1.6600e-003	0.0164	3.0000e-005	2.1900e-003	2.0000e-005	2.2100e-003	5.8000e-004	2.0000e-005	6.0000e-004	0.0000	2.1125	2.1125	1.3000e-004	0.0000	2.1153

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0399	0.4330	0.2823	3.2000e-004		0.0217	0.0217		0.0202	0.0202	0.0000	29.8492	29.8492	8.0600e-003	0.0000	30.0184
Total	0.0399	0.4330	0.2823	3.2000e-004		0.0217	0.0217		0.0202	0.0202	0.0000	29.8492	29.8492	8.0600e-003	0.0000	30.0184

3.5 Task 4:Wooden Deck Demolition and Removal - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	1.6600e-003	0.0164	3.0000e-005	2.1900e-003	2.0000e-005	2.2100e-003	5.8000e-004	2.0000e-005	6.0000e-004	0.0000	2.1125	2.1125	1.3000e-004	0.0000	2.1153
Total	1.1400e-003	1.6600e-003	0.0164	3.0000e-005	2.1900e-003	2.0000e-005	2.2100e-003	5.8000e-004	2.0000e-005	6.0000e-004	0.0000	2.1125	2.1125	1.3000e-004	0.0000	2.1153

3.6 Task 5:Wooden Pile Vibratory Extraction and Removal - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0591	0.6758	0.4799	5.4000e-004		0.0323	0.0323		0.0300	0.0300	0.0000	51.1967	51.1967	0.0143	0.0000	51.4964
Total	0.0591	0.6758	0.4799	5.4000e-004		0.0323	0.0323		0.0300	0.0300	0.0000	51.1967	51.1967	0.0143	0.0000	51.4964

3.6 Task 5:Wooden Pile Vibratory Extraction and Removal - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2800e-003	1.8700e-003	0.0184	3.0000e-005	2.4600e-003	2.0000e-005	2.4800e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.3766	2.3766	1.5000e-004	0.0000	2.3797
Total	1.2800e-003	1.8700e-003	0.0184	3.0000e-005	2.4600e-003	2.0000e-005	2.4800e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.3766	2.3766	1.5000e-004	0.0000	2.3797

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0591	0.6758	0.4799	5.4000e-004		0.0323	0.0323		0.0300	0.0300	0.0000	51.1966	51.1966	0.0143	0.0000	51.4963
Total	0.0591	0.6758	0.4799	5.4000e-004		0.0323	0.0323		0.0300	0.0300	0.0000	51.1966	51.1966	0.0143	0.0000	51.4963

3.6 Task 5: Wooden Pile Vibratory Extraction and Removal - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2800e-003	1.8700e-003	0.0184	3.0000e-005	2.4600e-003	2.0000e-005	2.4800e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.3766	2.3766	1.5000e-004	0.0000	2.3797
Total	1.2800e-003	1.8700e-003	0.0184	3.0000e-005	2.4600e-003	2.0000e-005	2.4800e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.3766	2.3766	1.5000e-004	0.0000	2.3797

3.7 Task 6: Concrete Pile Cutting - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.8800e-003	0.0781	0.0514	6.0000e-005		3.7600e-003	3.7600e-003		3.5000e-003	3.5000e-003	0.0000	5.7268	5.7268	1.6000e-003	0.0000	5.7603
Total	6.8800e-003	0.0781	0.0514	6.0000e-005		3.7600e-003	3.7600e-003		3.5000e-003	3.5000e-003	0.0000	5.7268	5.7268	1.6000e-003	0.0000	5.7603

3.7 Task 6: Concrete Pile Cutting - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	2.1000e-004	2.0400e-003	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2641	0.2641	2.0000e-005	0.0000	0.2644
Total	1.4000e-004	2.1000e-004	2.0400e-003	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2641	0.2641	2.0000e-005	0.0000	0.2644

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.8800e-003	0.0781	0.0514	6.0000e-005		3.7600e-003	3.7600e-003		3.5000e-003	3.5000e-003	0.0000	5.7268	5.7268	1.6000e-003	0.0000	5.7603
Total	6.8800e-003	0.0781	0.0514	6.0000e-005		3.7600e-003	3.7600e-003		3.5000e-003	3.5000e-003	0.0000	5.7268	5.7268	1.6000e-003	0.0000	5.7603

3.7 Task 6: Concrete Pile Cutting - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	2.1000e-004	2.0400e-003	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2641	0.2641	2.0000e-005	0.0000	0.2644
Total	1.4000e-004	2.1000e-004	2.0400e-003	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2641	0.2641	2.0000e-005	0.0000	0.2644

3.8 Task 7: Steel Pile Vibratory Extraction and Removal - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0164	0.1877	0.1333	1.5000e-004		8.9600e-003	8.9600e-003		8.3300e-003	8.3300e-003	0.0000	14.2213	14.2213	3.9600e-003	0.0000	14.3046
Total	0.0164	0.1877	0.1333	1.5000e-004		8.9600e-003	8.9600e-003		8.3300e-003	8.3300e-003	0.0000	14.2213	14.2213	3.9600e-003	0.0000	14.3046

3.8 Task 7: Steel Pile Vibratory Extraction and Removal - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	5.2000e-004	5.1100e-003	1.0000e-005	6.8000e-004	1.0000e-005	6.9000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	0.6602	0.6602	4.0000e-005	0.0000	0.6610
Total	3.6000e-004	5.2000e-004	5.1100e-003	1.0000e-005	6.8000e-004	1.0000e-005	6.9000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	0.6602	0.6602	4.0000e-005	0.0000	0.6610

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0164	0.1877	0.1333	1.5000e-004		8.9600e-003	8.9600e-003		8.3300e-003	8.3300e-003	0.0000	14.2213	14.2213	3.9600e-003	0.0000	14.3045
Total	0.0164	0.1877	0.1333	1.5000e-004		8.9600e-003	8.9600e-003		8.3300e-003	8.3300e-003	0.0000	14.2213	14.2213	3.9600e-003	0.0000	14.3045

3.8 Task 7: Steel Pile Vibratory Extraction and Removal - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	5.2000e-004	5.1100e-003	1.0000e-005	6.8000e-004	1.0000e-005	6.9000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	0.6602	0.6602	4.0000e-005	0.0000	0.6610
Total	3.6000e-004	5.2000e-004	5.1100e-003	1.0000e-005	6.8000e-004	1.0000e-005	6.9000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	0.6602	0.6602	4.0000e-005	0.0000	0.6610

3.9 Task 8: Removal of Steel Pipeline, Debris and Marker Buoys - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0537	0.5862	0.3866	4.7000e-004		0.0293	0.0293		0.0274	0.0274	0.0000	44.0441	44.0441	0.0116	0.0000	44.2883
Total	0.0537	0.5862	0.3866	4.7000e-004		0.0293	0.0293		0.0274	0.0274	0.0000	44.0441	44.0441	0.0116	0.0000	44.2883

3.9 Task 8: Removal of Steel Pipeline, Debris and Marker Buoys - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-003	1.4500e-003	0.0143	2.0000e-005	1.9100e-003	2.0000e-005	1.9300e-003	5.1000e-004	2.0000e-005	5.2000e-004	0.0000	1.8484	1.8484	1.2000e-004	0.0000	1.8509
Total	1.0000e-003	1.4500e-003	0.0143	2.0000e-005	1.9100e-003	2.0000e-005	1.9300e-003	5.1000e-004	2.0000e-005	5.2000e-004	0.0000	1.8484	1.8484	1.2000e-004	0.0000	1.8509

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0537	0.5862	0.3866	4.7000e-004		0.0293	0.0293		0.0274	0.0274	0.0000	44.0440	44.0440	0.0116	0.0000	44.2882
Total	0.0537	0.5862	0.3866	4.7000e-004		0.0293	0.0293		0.0274	0.0274	0.0000	44.0440	44.0440	0.0116	0.0000	44.2882

3.9 Task 8: Removal of Steel Pipeline, Debris and Marker Buoys - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-003	1.4500e-003	0.0143	2.0000e-005	1.9100e-003	2.0000e-005	1.9300e-003	5.1000e-004	2.0000e-005	5.2000e-004	0.0000	1.8484	1.8484	1.2000e-004	0.0000	1.8509
Total	1.0000e-003	1.4500e-003	0.0143	2.0000e-005	1.9100e-003	2.0000e-005	1.9300e-003	5.1000e-004	2.0000e-005	5.2000e-004	0.0000	1.8484	1.8484	1.2000e-004	0.0000	1.8509

3.10 Task 9: Movement of Barges to Shore - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.8900e-003	0.0743	0.0544	6.0000e-005		3.7900e-003	3.7900e-003		3.5400e-003	3.5400e-003	0.0000	5.6664	5.6664	1.5300e-003	0.0000	5.6986
Total	6.8900e-003	0.0743	0.0544	6.0000e-005		3.7900e-003	3.7900e-003		3.5400e-003	3.5400e-003	0.0000	5.6664	5.6664	1.5300e-003	0.0000	5.6986

3.10 Task 9: Movement of Barges to Shore - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	3.1000e-004	3.0600e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3961	0.3961	2.0000e-005	0.0000	0.3966
Total	2.1000e-004	3.1000e-004	3.0600e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3961	0.3961	2.0000e-005	0.0000	0.3966

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.8900e-003	0.0743	0.0544	6.0000e-005		3.7900e-003	3.7900e-003		3.5400e-003	3.5400e-003	0.0000	5.6664	5.6664	1.5300e-003	0.0000	5.6985
Total	6.8900e-003	0.0743	0.0544	6.0000e-005		3.7900e-003	3.7900e-003		3.5400e-003	3.5400e-003	0.0000	5.6664	5.6664	1.5300e-003	0.0000	5.6985

3.10 Task 9: Movement of Barges to Shore - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	3.1000e-004	3.0600e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3961	0.3961	2.0000e-005	0.0000	0.3966
Total	2.1000e-004	3.1000e-004	3.0600e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3961	0.3961	2.0000e-005	0.0000	0.3966

3.11 Task 10: Onshore Offloading - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0436	0.5003	0.3547	4.0000e-004		0.0238	0.0238		0.0221	0.0221	0.0000	37.8887	37.8887	0.0106	0.0000	38.1108
Total	0.0436	0.5003	0.3547	4.0000e-004		0.0238	0.0238		0.0221	0.0221	0.0000	37.8887	37.8887	0.0106	0.0000	38.1108

3.11 Task 10: Onshore Offloading - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.3000e-004	1.3500e-003	0.0133	2.0000e-005	1.7800e-003	2.0000e-005	1.7900e-003	4.7000e-004	2.0000e-005	4.9000e-004	0.0000	1.7164	1.7164	1.1000e-004	0.0000	1.7187
Total	9.3000e-004	1.3500e-003	0.0133	2.0000e-005	1.7800e-003	2.0000e-005	1.7900e-003	4.7000e-004	2.0000e-005	4.9000e-004	0.0000	1.7164	1.7164	1.1000e-004	0.0000	1.7187

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0436	0.5003	0.3547	4.0000e-004		0.0238	0.0238		0.0221	0.0221	0.0000	37.8887	37.8887	0.0106	0.0000	38.1108
Total	0.0436	0.5003	0.3547	4.0000e-004		0.0238	0.0238		0.0221	0.0221	0.0000	37.8887	37.8887	0.0106	0.0000	38.1108

3.11 Task 10: Onshore Offloading - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.3000e-004	1.3500e-003	0.0133	2.0000e-005	1.7800e-003	2.0000e-005	1.7900e-003	4.7000e-004	2.0000e-005	4.9000e-004	0.0000	1.7164	1.7164	1.1000e-004	0.0000	1.7187
Total	9.3000e-004	1.3500e-003	0.0133	2.0000e-005	1.7800e-003	2.0000e-005	1.7900e-003	4.7000e-004	2.0000e-005	4.9000e-004	0.0000	1.7164	1.7164	1.1000e-004	0.0000	1.7187

3.12 Task 11: Reduction of Debris - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0197	0.2086	0.1550	1.6000e-004		0.0107	0.0107		0.0100	0.0100	0.0000	14.9516	14.9516	3.9400e-003	0.0000	15.0344
Total	0.0197	0.2086	0.1550	1.6000e-004		0.0107	0.0107		0.0100	0.0100	0.0000	14.9516	14.9516	3.9400e-003	0.0000	15.0344

3.12 Task 11: Reduction of Debris - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1000e-004	1.0400e-003	0.0102	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.3203	1.3203	8.0000e-005	0.0000	1.3220
Total	7.1000e-004	1.0400e-003	0.0102	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.3203	1.3203	8.0000e-005	0.0000	1.3220

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0197	0.2086	0.1550	1.6000e-004		0.0107	0.0107		0.0100	0.0100	0.0000	14.9516	14.9516	3.9400e-003	0.0000	15.0344
Total	0.0197	0.2086	0.1550	1.6000e-004		0.0107	0.0107		0.0100	0.0100	0.0000	14.9516	14.9516	3.9400e-003	0.0000	15.0344

3.12 Task 11: Reduction of Debris - 2014

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1000e-004	1.0400e-003	0.0102	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.3203	1.3203	8.0000e-005	0.0000	1.3220
Total	7.1000e-004	1.0400e-003	0.0102	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.3203	1.3203	8.0000e-005	0.0000	1.3220

3.13 Task 12: Hauling of Debris to Landfill/Recycling Facility - 2014

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.4800e-003	0.0000	9.4800e-003	1.4400e-003	0.0000	1.4400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0665	0.7009	0.5039	6.2000e-004		0.0370	0.0370		0.0348	0.0348	0.0000	58.4265	58.4265	0.0154	0.0000	58.7490
Total	0.0665	0.7009	0.5039	6.2000e-004	9.4800e-003	0.0370	0.0465	1.4400e-003	0.0348	0.0362	0.0000	58.4265	58.4265	0.0154	0.0000	58.7490

3.13 Task 12: Hauling of Debris to Landfill/Recycling Facility - 2014

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.7700e-003	0.0593	0.0342	1.1000e-004	2.5200e-003	1.0600e-003	3.5800e-003	6.9000e-004	9.7000e-004	1.6600e-003	0.0000	10.4183	10.4183	1.0000e-004	0.0000	10.4204
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8500e-003	4.1500e-003	0.0409	6.0000e-005	5.4600e-003	5.0000e-005	5.5100e-003	1.4500e-003	5.0000e-005	1.5000e-003	0.0000	5.2812	5.2812	3.3000e-004	0.0000	5.2882
Total	6.6200e-003	0.0634	0.0750	1.7000e-004	7.9800e-003	1.1100e-003	9.0900e-003	2.1400e-003	1.0200e-003	3.1600e-003	0.0000	15.6996	15.6996	4.3000e-004	0.0000	15.7085

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.2700e-003	0.0000	4.2700e-003	6.5000e-004	0.0000	6.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0665	0.7009	0.5039	6.2000e-004		0.0370	0.0370		0.0348	0.0348	0.0000	58.4264	58.4264	0.0154	0.0000	58.7489
Total	0.0665	0.7009	0.5039	6.2000e-004	4.2700e-003	0.0370	0.0413	6.5000e-004	0.0348	0.0354	0.0000	58.4264	58.4264	0.0154	0.0000	58.7489

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Industrial	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.512787	0.136556	0.205875	0.081133	0.013148	0.006158	0.010117	0.015980	0.000652	0.001904	0.008811	0.004225	0.002654

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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