

**CEMEX CONSTRUCTION MATERIALS PACIFIC, LLC.  
ELIOT QUARRY SMP-23 RECLAMATION PLAN AMENDMENT**

**AIR AND GREENHOUSE GAS EMISSIONS STUDY**

**PREPARED FOR:**

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**FOR SUBMITTAL TO:**

Alameda County  
Neighborhood Preservation and Sustainability Dept.  
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# TABLE OF CONTENTS

<b>1.0</b>	<b>PURPOSE AND SCOPE.....</b>	<b>1</b>
<b>2.0</b>	<b>PROJECT DESCRIPTION .....</b>	<b>1</b>
<b>3.0</b>	<b>METHODS AND ASSUMPTIONS .....</b>	<b>2</b>
<b>4.0</b>	<b>SIGNIFICANCE CRITERIA .....</b>	<b>4</b>
<b>5.0</b>	<b>RESULTS AND RECOMMENDED MITIGATION.....</b>	<b>5</b>

## TABLES

Table 1	BAAQMD Project Level Thresholds of Significance .....	4
Table 2	Daily Criteria Air Pollutants and Precursor Emissions Analysis (lb/day).....	5
Table 3	Annual Criteria Air Pollutants and Precursor Emissions Analysis (tons/year)..	6
Table 4	Greenhouse Gas Emissions Analysis (MT/year).....	6

## APPENDICES

Appendix A	Daily and Annual Emissions Summaries
Appendix B	Baseline Models and Inputs
Appendix B-1	Baseline Production Levels
Appendix B-2	Baseline Aggregate Plant Emissions
Appendix B-3	Baseline Asphalt Concrete Plant Emissions
Appendix B-4	Baseline Ready Mix Concrete Plant Emissions
Appendix B-5	Baseline Mobile Source Emissions
Appendix B-6	Baseline Pit-to-Plant Material Transport Emissions
Appendix B-7	Baseline CalEEMod Modeling Assumptions
Appendix B-8	Baseline Mining Operations and Load-out (CalEEMod Run 1)
Appendix C	Proposed Project Models and Inputs
Appendix C-1	Proposed Project CalEEMod Modeling Assumptions
Appendix C-2	Lake A Reclamation Activity (CalEEMod Run 2)
Appendix C-3	Lake B Reclamation Activity (CalEEMod Run 3)
Appendix C-4	Lake B Reclamation Activity – Arroyo Move Pumps
Appendix C-5	North Areas Reclamation Activity (CalEEMod Run 4)

## **1.0 PURPOSE AND SCOPE**

Compass Land Group (“Compass”) has prepared this Air and Greenhouse Gas Emissions Study (“Study”) in support of the CEMEX Construction Materials Pacific, LLC. (“CEMEX”) Eliot Quarry SMP-23 Reclamation Plan Amendment Project in unincorporated Alameda County, California (“Project”). This Study evaluates the potential air quality and greenhouse gas emissions from existing operations at the Project site (i.e., baseline) and from the proposed Project. These emissions are compared to determine the net changes in emissions anticipated from the Project. Net emission changes from the Project are then compared against significance thresholds adopted by the Bay Area Air Quality Management District (“BAAQMD”). This Study is intended to support the lead agency’s evaluation of air quality and greenhouse gas impacts pursuant to the California Environmental Quality Act (“CEQA”).

The sections that follow provide a description of the Project, methods for air quality and greenhouse gas emissions evaluation, BAAQMD significance thresholds, and emissions estimates for use in Project CEQA review.

## **2.0 PROJECT DESCRIPTION**

CEMEX owns and operates the Eliot Quarry, a ±920-acre sand and gravel mining facility, located between the cities of Livermore and Pleasanton, at 1544 Stanley Boulevard in unincorporated Alameda County. CEMEX and its predecessors-in-interest have been continuously mining for sand and gravel at the Eliot Quarry since at least 1906. In addition to mining and reclamation, existing permitted and accessory uses at the Eliot Quarry include aggregate, asphalt and ready-mix concrete processing, as well as ancillary uses such as aggregate stockpiling, load-out, sales, construction materials recycling, and equipment storage and maintenance. CEMEX’s mining operations at the site are vested per pre-1957 mining activities and Alameda County Quarry Permits Q-1 (1957), Q-4 (1957), and Q-76 (1969). Surface mining reclamation activities at the site are currently conducted pursuant to Surface Mining Permit and Reclamation Plan No. SMP-23 (“SMP-23”), approved in 1987.

Under the Project, CEMEX proposes a revised Reclamation Plan that serves to adjust reclamation boundaries and contours, enhance drainage and water conveyance facilities, incorporate a pedestrian and bike trail, and achieve current surface mining reclamation standards. The planned post-mining end uses are water management, open space, and agriculture (non-prime).

Consistent with prior approvals, the Project will develop Lake A and Lake B, which are the first two lakes in the Chain of Lakes pursuant to the Alameda County Specific Plan for Livermore-Amador Valley Quarry Area Reclamation adopted in 1981 (“Specific Plan”). Upon reclamation, Lake A and Lake B, along with their appurtenant water conveyance facilities, will be dedicated to the Zone 7 Water Agency (“Zone 7”) for purposes of water storage, conveyance and recharge management.

Lake A reclamation will include installation of a surface water diversion from the Arroyo del Valle (“ADV”) to Lake A; conversion of a berm that crosses the west side of the lake to a small island to allow water to flow across the lake; installation of a water conveyance pipeline from Lake A to future Lake C (located off-site to the northwest); and an overflow outlet to allow water to flow back into ADV when Lake A water levels are high to prevent flooding in the localized area. The final surface area of Lake A will be 81 acres as compared to 208 acres in SMP-23. No further mining will occur in Lake A.

Lake B reclamation will include installation of a pipeline turn-out from Lake A, a water pipeline conduit to future Lake C, and an overflow outlet to allow water to flow back into ADV when Lake B water levels are high. The final bottom elevation of Lake B is proposed at 150 feet above mean sea level (“msl”), in order to maximize the available aggregate resource. The final surface area of Lake B will be 208 acres as compared to 243 acres in SMP-23.

To facilitate the southerly progression of Lake B, the Project includes realignment and restoration of a ±5,800 linear foot reach of the ADV. The proposed ADV realignment will result in an enhanced riparian corridor that flows around, rather than through (as currently anticipated in SMP-23), Lake B. The ADV realignment was contemplated in the Specific Plan and subject to environmental review in 1981.

Outside of Lake A and Lake B, reclamation treatment for other disturbed areas, including the Lake J excavation (not part of the Chain of Lakes), processing plant sites, and process water ponds will involve backfills and/or grading for a return to open space and/or agriculture. These areas are referred to as the North Areas for purposes of this study.

The Project is a modification of an approved reclamation plan project (i.e., SMP-23) for a vested mining operation. Except as outlined above, CEMEX proposes no change to any fundamental element of the existing operation (e.g., mining methods, processing operations, production levels, truck traffic, or hours of operation). A more complete description of the proposed Project is contained in CEMEX’s Project Description, Revised Reclamation Plan, and other application materials provided to the County.

### **3.0 METHODS AND ASSUMPTIONS**

This Study evaluates the potential air quality and greenhouse gas emissions from existing operations at the Project site (i.e., baseline) and from the proposed Project. These emissions are compared to determine the net changes in emissions anticipated from the Project. Net emission changes from the Project are then compared against significance thresholds adopted by BAAQMD.

The CEQA baseline used for purposes of this Study is existing conditions, as defined by a 5-year averaging period of production levels between 2013 through 2017. To establish the baseline emissions levels for Project evaluation, Compass first estimated air and greenhouse gas emissions from existing activities at the Project site. These activities include mining operations, processing plant operations, and mobile sources. In order to evaluate these sources, Compass primarily

relied upon the California Emissions Estimator Model (“CalEEMod”) for mining and construction-related emissions, U.S. Environmental Protection Agency (“EPA”) AP-42 emission factors and BAAQMD regulation emissions standards for processing plant related emissions, and the California Air Resources Board’s 2017 EMFAC<sup>1</sup> model for mobile source emissions.<sup>2</sup> For greenhouse gas emissions estimates, Compass used emission factors developed by Pacific Gas & Electric Company, the EPA (AP-42), and the Climate Registry.

For proposed Project activities, mining and processing activities are assumed to continue for the life of the Project at current production levels since the Project proposes no change to any fundamental element of the existing operation. Therefore, separate modeling of future mining and processing-related emissions is not necessary and baseline emissions are simply carried forward for comparison purposes. Compass considers this approach to be conservative since emissions associated with the continuation of existing baseline activities may improve as newer mobile equipment replaces older mobile equipment over time.

For proposed Project activities that are not captured under baseline estimates (e.g., reclamation construction activities), Compass used the CalEEMod model to quantify emissions. Project reclamation activities have been modeled as independent phases in CalEEMod for the Lake A, Lake B, and North Areas. The phases were then combined to calculate total Project emissions.

For CalEEMod modeling purposes, certain end-of-life Project reclamation activities are assumed to be constructed in year 2049 (ahead of CEMEX’s anticipated reclamation schedule). This is to ensure proper CalEEMod model functionality, which requires that the Project build-out year be set at least one year after the final year of construction. The final build-out year option in CalEEMod is year 2050; therefore, end-of-life activities are all modeled in construction year 2049 (one year sooner). Since CalEEMod’s emissions factors do not extend beyond 2045 and should continue to improve over time, this results in a conservative estimate of emissions for the reclamation activities that are anticipated to occur between 2050-2056. This has no effect on the significance conclusions presented later in this study.

Using the outputs of the CalEEMod model runs, the highest pollutant-generating years for each pollutant are selected for reporting of emissions and comparison of the Project’s net change in emissions to baseline.

Detailed estimating methods and assumptions are provided in this Study’s appendices.

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<sup>1</sup> EMFAC is short for “EMission FACtor.”

<sup>2</sup> The BAAQMD CEQA Guidelines references the use of the URBEMIS model to estimate emissions. However, the URBEMIS model has been discontinued. Based on experience, Compass believes CalEEMod is an appropriate substitute modeling tool that is commonly used for CEQA-level analysis for projects that are linear in nature and involve construction and grading activities. CalEEMod is a widely accepted modeling tool maintained by the California Air Pollution Control Officers Association (CAPCOA). CalEEMod incorporates state and locally approved emission factors and methodologies for estimating both the daily maximum and annual average emissions levels for criteria pollutants and GHG emissions associated with land development projects.

## 4.0 SIGNIFICANCE CRITERIA

The BAAQMD has established significance thresholds to assist Lead Agencies in determining whether a proposed project may have a significant air quality impact. These thresholds, contained within the district’s *California Environmental Quality Act Air Quality Guidelines* (May 2017 Revision) (“BAAQMD CEQA Guidelines”) are shown in Table 1, below.

**TABLE 1**  
**BAAQMD PROJECT LEVEL THRESHOLDS OF SIGNIFICANCE<sup>1</sup>**  
**(ADAPTED FROM TABLE 2-1, BAAQMD CEQA GUIDELINES MAY 2017)**

Pollutant Criteria Air Pollutants and Precursors (Regional)	Construction- Related	Operational-Related	
	Average Daily Emissions (lb/day)	Average Daily Emissions (lb/day)	Maximum Annual Emissions (tpy)
ROG	54	54	10
NO <sub>x</sub>	54	54	10
PM <sub>10</sub>	82 (exhaust)	82	15
PM <sub>2.5</sub>	54 (exhaust)	54	10
PM <sub>10</sub> /PM <sub>2.5</sub> (fugitive dust)	Best Management Practices	None	
Local CO	None	9.0 ppm (8-hour average), 20.00 ppm (1-hour average)	
GHGs – Projects other than Stationary Sources	None <sup>2</sup>	Compliance with Qualified GHG Reduction Strategy OR 1,100 MT of CO <sub>2</sub> e/yr OR 4.6 MT CO <sub>2</sub> e/SP/yr (residents + employees)	
GHGs – Stationary Sources	None <sup>2</sup>	10,000 MT/yr	

**Notes:**

1. Project level thresholds of significance adapted from Tables 2-1 and 2-2 of the BAAQMD CEQA Guidelines (May 2017). <http://www.baaqmd.gov/plans-and-climate/california-environmental-quality-act-ceqa/updated-ceqa-guidelines> (retrieved November 30, 2018).
2. BAAQMD does not have an adopted threshold for construction-related GHG emissions. However, the Lead Agency should quantify and disclose GHG emissions that would occur during construction, and make a determination on the significance of these construction-generated GHG emission impacts in relation to meeting AB 32 GHG reduction goals, as required by the Public Resources Code, Section 21082.2. The Lead Agency is encouraged to incorporate best management practices to reduce GHG emissions during construction, as feasible and applicable. (BAAQMD CEQA Guidelines at p. 2-6).
3. Definitions: CEQA = California Environmental Quality Act; CO = carbon monoxide; CO<sub>2</sub>e = carbon dioxide equivalent; GHGs = greenhouse gases; lb/day = pounds per day; MT = metric tons; NO<sub>x</sub> = oxides of nitrogen; PM<sub>2.5</sub> = fine particulate matter with an aerodynamic resistance diameter of 2.5 micrometers or less; PM<sub>10</sub> = respirable particulate matter with an aerodynamic resistance diameter of 10 micrometers or less; ppm = parts per million; ROG = reactive organic gases; SO<sub>2</sub> = sulfur dioxide; SP = service population; TACs = toxic air contaminants; TBP = toxic best practices; tons/day = tons per day; tpy = tons per year; yr = year; TBD = to be determined.

## 5.0 RESULTS AND RECOMMENDED MITIGATION

The modeling results indicate that Project emissions are below applicable BAAQMD thresholds of significance (for CEQA) with the exception of daily emissions of nitrogen oxides (NOx). The exceedance of daily emissions of NOx occurs only in model year 2022 when Lake A reclamation activity and the Lake B realignment of Arroyo del Valle are assumed to occur simultaneously. Even individually, the year 2022 Lake A reclamation activities and the year 2022 Lake B realignment of the Arroyo would exceed the daily NOx thresholds, but to a lesser degree. However, these daily NOx exceedances are related to construction activities required for the reclamation of Lake A and the development of the realigned Arroyo and as such are only temporary in nature. During this period in 2022, the annual NOx emissions would not exceed the annual thresholds.

The remainder of the model years are below the applicable thresholds for all pollutants. A complete summary of modeled emissions is included as Appendix A, Daily and Annual Emissions Summaries. Baseline models and inputs are included as Appendix B. Proposed Project models and inputs are included as Appendix C.

Table 2 presents the daily criteria air pollutants and ozone precursor emissions analysis. Table 3 presents the annual criteria air pollutants and ozone precursor emissions analysis. Table 4 presents the greenhouse gas emissions analysis.

**TABLE 2**  
**DAILY CRITERIA AIR POLLUTANTS AND PRECURSOR EMISSIONS ANALYSIS (LB/DAY)**  
**MODEL YEARS 2022 AND 2023<sup>3</sup>**

<b>Emissions Category</b>	<b>ROG</b>	<b>NOx</b>	<b>PM10</b>	<b>PM2.5</b>
Baseline Totals	121.23	249.71	1467.97	39.16
Baseline + Project Totals	140.85	480.57	1538.48	49.64
<b>Net Change (Project)</b>	<b>19.62</b>	<b>230.86</b>	<b>70.51</b>	<b>10.48</b>
BAAQMD CEQA Significance Thresholds	54	54	82	54
Exceeds Threshold (Yes/No)?	<b>No</b>	<b>Yes</b>	<b>No</b>	<b>No</b>

**Notes:**

1. BAAQMD thresholds from Table 1, above. The construction- and operational-related thresholds are the same.
2. The reported net change for PM10 and PM2.5 is conservative, because the reported emission consolidates fugitive and exhaust emissions. Notwithstanding, the Applicant will be required to implement BAAQMD's best management practices for construction-related fugitive dust emission controls.
3. Proposed Project ROG, NOx, and PM2.5 emissions are reported for model year 2022, and PM10 emissions are reported for model year 2023, which are the highest emitting model years for the respective pollutants. See Appendix A for detail.

**TABLE 3**  
**ANNUAL CRITERIA AIR POLLUTANTS AND PRECURSOR EMISSIONS ANALYSIS (TONS/YEAR)**  
**MODEL YEAR 2022<sup>3</sup>**

<b>Emissions Category</b>	<b>ROG</b>	<b>NOx</b>	<b>PM10</b>	<b>PM2.5</b>
Baseline Totals	5.05	23.13	103.32	4.27
Baseline + Project Totals	5.66	30.73	103.93	4.60
<b>Net Change (Project)</b>	<b>0.61</b>	<b>7.60</b>	<b>0.61</b>	<b>0.33</b>
BAAQMD CEQA Significance Thresholds	10	10	15	10
Exceeds Threshold (Yes/No)?	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

**Notes:**

1. BAAQMD thresholds from Table 1, above. Operational-related annual thresholds are used since there are no published construction-related annual thresholds.
2. The reported net change for PM10 and PM2.5 is conservative, because the reported emission consolidates fugitive and exhaust emissions. Notwithstanding, the Applicant will be required to implement BAAQMD's best management practices for construction-related fugitive dust emission controls.
3. Proposed Project emissions are reported for model year 2022, which is the highest emitting model year for the reported pollutants. See Appendix A for detail.

**TABLE 4**  
**GREENHOUSE GAS EMISSIONS ANALYSIS (MT/YEAR)**

<b>Emissions Category</b>	<b>CO<sub>2</sub>e</b>
Baseline Totals	9,789.66
Baseline + Project Totals	10,859.54
<b>Net Change (Project)</b>	<b>1,069.88</b>
BAAQMD CEQA Significance Threshold <sup>2,3</sup>	1,100
Exceeds Threshold (Yes/No)?	<b>No</b>

**Notes:**

1. MT= metric tons. CO<sub>2</sub>e = carbon dioxide equivalent.
2. BAAQMD thresholds from Table 1, above.
3. Operational threshold for Projects other than Stationary Sources is used. BAAQMD does not have an adopted threshold for construction-related GHG emissions. If the County chooses to assess impacts as construction rather than operational activity, then the reported net change in emissions can be evaluated in relation to meeting AB 32 GHG reduction goals.
4. Proposed Project emissions are reported for model year 2022, which is the highest emitting model year for CO<sub>2</sub>e. See Appendix A for detail.



Based on the results presented in Table 2, above, Compass recommends the following mitigation measure (adapted from Table 8-3 of the BAAQMD CEQA Guidelines) be considered to reduce daily NOx emissions during Lake A reclamation and the Lake B realignment of the Arroyo del Valle:

1. Develop a plan demonstrating that the off-road equipment (more than 50 horsepower) to be used in Lake A reclamation and the Lake B realignment of the Arroyo del Valle would achieve a fleet-average 20 percent NOX reduction compared to the most recent ARB fleet average for the duration of these reclamation activities. Acceptable options for reducing emissions include the use of late model engines, low-emission diesel products, alternative fuels, engine retrofit technology, after-treatment products, and/or other options as such become available.



**APPENDIX A: DAILY AND ANNUAL EMISSIONS SUMMARY**

**Table A-1. Daily Emissions Summary (lbs/day)**

Activity	ROG <sup>1</sup>	NOx	PM10 <sup>2</sup>	PM2.5 <sup>2</sup>	CO	SOx	CO <sub>2</sub> e <sup>3</sup>
<b>BASELINE</b>							
<b>Mining Operations<sup>4</sup></b>							
Mining Operations and Load-Out (App. B-8)	5.78	91.10	6.51	4.88	82.70	0.16	--
Pit-to-Plant Material Transport - Truck and Conveyor (App. B-6)	--	--	297.32	0.05	--	--	--
GHG Emissions from Electricity Use (Indirect) (App. B-6) <sup>3</sup>	--	--	--	--	--	--	--
Subtotal	5.78	91.10	303.82	4.93	82.70	0.16	--
<b>Aggregate Plant Operations (App. B-2)</b>							
Processing and Wind Erosion	--	--	47.03	18.53	--	--	--
On-Site Vehicle Traffic	--	--	379.35	--	--	--	--
GHG Emissions from Electricity Use (Indirect) <sup>3</sup>	--	--	--	--	--	--	--
Subtotal	--	--	426.37	18.53	--	--	--
<b>Asphalt Plant Operations (App. B-3)</b>							
Conveyors and Screening	--	--	2.92	0.30	--	--	--
Baghouse	112.00	91.00	80.50	--	455.00	11.90	--
Silo Filling and Load Out	--	--	2.03	--	5.14	--	--
Hot Oil Heater	0.39	2.62	0.54	--	21.28	0.04	--
Asphalt Storage Tanks	0.00	--	--	--	--	--	--
Stockpile Wind Erosion	--	--	3.57	3.57	--	--	--
Vehicle Traffic	--	--	60.16	--	--	--	--
GHG Emissions from On-Site Equipment (Direct) <sup>3</sup>	--	--	--	--	--	--	--
GHG Emissions from Electricity Use (Indirect) <sup>3</sup>	--	--	--	--	--	--	--
Subtotal	112.39	93.62	149.72	3.87	481.42	11.94	--

<b>Activity</b>	<b>ROG<sup>1</sup></b>	<b>NOx</b>	<b>PM10<sup>2</sup></b>	<b>PM2.5<sup>2</sup></b>	<b>CO</b>	<b>SOx</b>	<b>CO<sub>2</sub>e<sup>3</sup></b>
<b>Ready Mix Concrete Plant Operations (App. B4)</b>							
Plant Emissions	--	--	46.74	10.79	--	--	--
Vehicle Traffic	--	--	540.22	--	--	--	--
GHG Emissions from Electricity Use (Indirect) <sup>3</sup>	--	--	--	--	--	--	--
Subtotal	--	--	586.97	10.79	--	--	--
<b>Mobile Source Emissions (App. B-5)</b>							
	3.06	64.99	1.08	1.04	14.20	--	--
Subtotal	3.06	64.99	1.08	1.04	14.20	--	--
<b>Baseline Totals (lbs/day)</b>							
	<b>121.23</b>	<b>249.71</b>	<b>1,467.97</b>	<b>39.16</b>	<b>578.31</b>	<b>12.10</b>	<b>--</b>
<b>BASELINE + PROPOSED PROJECT</b>							
<b>Ongoing Operations (no change from Baseline)</b>							
Mining Operations (App. B-6 and B-8)	5.78	91.10	303.82	4.93	82.70	0.16	--
Aggregate Plant Operations (App. B-2)	--	--	426.37	18.53	--	--	--
Asphalt Plant Operations (App. B-3)	112.39	93.62	149.72	3.87	481.42	11.94	--
Ready Mix Concrete Plant Operations (App. B-4)	--	--	586.97	10.79	--	--	--
Mobile Source Emissions (App. B-5)	3.06	64.99	1.08	1.04	14.20	--	--
Subtotal	121.23	249.71	1,467.97	39.16	578.31	12.10	--
<b>Reclamation Activities (Sorted by Year)<sup>5</sup></b>							
<b>2022</b>							
Lake A Reclamation Activities (App. C-2)	9.55	105.44	26.73	5.14	63.31	0.18	--
Lake B Reclamation Activities (App. C-3 and C-4)	10.07	125.42	8.22	5.34	69.53	0.19	--
Subtotal	<b>19.62</b>	<b>230.86</b>	34.95	<b>10.48</b>	<b>132.84</b>	<b>0.36</b>	--
<b>2023</b>							
Lake A Reclamation Activities (App. C-2)	2.38	22.40	70.51	7.40	17.90	0.06	--
Subtotal	2.38	22.40	<b>70.51</b>	7.40	17.90	--	--
<b>2028</b>							
Lake B Reclamation Activities (App. C-3)	3.43	30.85	34.85	3.90	29.89	0.08	--
Subtotal	3.43	30.85	34.85	3.90	29.89	--	--

<b>Activity</b>	<b>ROG<sup>1</sup></b>	<b>NOx</b>	<b>PM10<sup>2</sup></b>	<b>PM2.5<sup>2</sup></b>	<b>CO</b>	<b>SOx</b>	<b>CO<sub>2</sub>e<sup>3</sup></b>
2030							
Lake B Reclamation Activities (App. C-3)	1.99	4.66	0.41	0.21	11.49	0.05	
North Area Reclamation Activities (App. C-5)	5.40	18.28	9.32	2.82	33.94	0.12	
Subtotal	<b>7.39</b>	<b>22.94</b>	<b>9.73</b>	<b>3.03</b>	<b>45.43</b>	<b>0.17</b>	--
2049							
Lake B Reclamation Activities (App. C-3)	3.88	6.24	52.66	5.43	21.21	0.10	
North Area Reclamation Activities (App. C-5)	4.63	18.32	6.38	2.15	44.98	0.13	
Subtotal	<b>8.51</b>	<b>24.56</b>	<b>59.04</b>	<b>7.57</b>	<b>66.20</b>	<b>0.23</b>	--
<b>Baseline + Project Totals (lbs/day)</b>	<b>140.85</b>	<b>480.57</b>	<b>1,538.48</b>	<b>49.64</b>	<b>711.15</b>	<b>12.47</b>	--
<b>Project Net Change (lbs/day)</b>	<b>19.62</b>	<b>230.86</b>	<b>70.51</b>	<b>10.48</b>	<b>132.84</b>	<b>0.36</b>	--
<b>BAAQMD CEQA Significance Thresholds</b>							
Threshold (lbs/day)	54	54	82	54	N/A <sup>6</sup>	N/A <sup>7</sup>	N/A <sup>8</sup>
Exceeds Threshold?	<b>No</b>	<b>Yes</b>	<b>No</b>	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>

**Notes:**

- VOC results reported as ROG for summary table where applicable.
- PM emissions represent controlled (or abated) emissions, where applicable.
- Greenhouse gas (CO<sub>2</sub>e) emissions are only reported as annual emissions in Metric Tons per year. See Table A-2.
- Mining operations emissions sourced from CalEEMod Model Run 1, Baseline Mining and Sales Activity. Emissions total is reported as the higher of the Winter or Summer mitigated (on-model) modeling results.
- Peak emissions year for each pollutant in bold and grey shading.
- BAAQMD threshold for Local CO is expressed as a concentration: 9.0 ppm (8-hour average), 20.00 ppm (1-hour average). Not directly comparable to a lb/day emission estimate.
- BAAQMD has no published CEQA threshold for SO<sub>x</sub> emissions.
- BAAQMD has no published daily CEQA threshold for CO<sub>2</sub>e.

**APPENDIX A: DAILY AND ANNUAL EMISSIONS SUMMARY**

**Table A-2. Annual Emissions Summary (tons/year)**

Activity	ROG <sup>1</sup>	NOx	PM10 <sup>2</sup>	PM2.5 <sup>2</sup>	CO	SOx	CO <sub>2</sub> e <sup>3</sup>
<b>BASELINE</b>							
<b>Mining Operations<sup>4</sup></b>							
Mining Operations and Load-Out (App. B-8)	0.75	11.89	0.85	0.64	10.78	0.02	1,903.04
Pit-to-Plant Material Transport - Truck and Conveyor (App. B-6)	--	--	37.16	0.01	--	--	--
GHG Emissions from Electricity Use (Indirect) (App. B-6) <sup>3</sup>	--	--	--	--	--	--	75.93
Subtotal	0.75	11.89	38.01	0.64	10.78	0.02	1,978.97
<b>Aggregate Plant Operations (App. B-2)</b>							
Processing and Wind Erosion	--	--	3.64	2.51	--	--	--
On-Site Vehicle Traffic	--	--	47.42	--	--	--	--
GHG Emissions from Electricity Use (Indirect)	--	--	--	--	--	--	1,741.33
Subtotal	--	--	51.06	2.51	--	--	1,741.33
<b>Asphalt Plant Operations (App. B-3)</b>							
Conveyors and Screening	--	--	0.10	0.01	--	--	--
Baghouse	3.84	3.12	2.76	--	15.60	0.41	--
Silo Filling and Load Out	--	--	0.07	--	0.18	--	--
Hot Oil Heater	0.07	--	0.10	--	3.88	0.01	--
Asphalt Storage Tanks	0.00	--	--	--	--	--	--
Stockpile Wind Erosion	--	--	0.65	0.65	--	--	--
Vehicle Traffic	--	--	2.06	--	--	--	--
GHG Emissions from On-Site Equipment (Direct)	--	--	--	--	--	--	3,929.46
GHG Emissions from Electricity Use (Indirect)	--	--	--	--	--	--	109.29
Subtotal	3.91	3.12	5.74	0.66	19.66	0.42	4,038.75

<b>Activity</b>	<b>ROG<sup>1</sup></b>	<b>NOx</b>	<b>PM10<sup>2</sup></b>	<b>PM2.5<sup>2</sup></b>	<b>CO</b>	<b>SOx</b>	<b>CO<sub>2</sub>e<sup>3</sup></b>
<b>Ready Mix Concrete Plant Operations (App. B-4)</b>							
Plant Emissions	--	--	0.83	0.32	--	--	--
Vehicle Traffic	--	--	7.55	--	--	--	--
GHG Emissions from Electricity Use (Indirect)	--	--	--	--	--	--	29.22
Subtotal	--	--	8.38	0.32	--	--	29.22
<b>Mobile Source Emissions (App. B-5)</b>							
Subtotal	0.38	8.12	0.14	0.13	1.77	--	2,001.40
Subtotal	0.38	8.12	0.14	0.13	1.77	--	2,001.40
<b>Baseline Totals (tons/year)</b>							
	<b>5.05</b>	<b>23.13</b>	<b>103.32</b>	<b>4.27</b>	<b>32.21</b>	<b>0.44</b>	<b>9,789.66</b>
<b>BASELINE + PROPOSED PROJECT</b>							
<b>Ongoing Operations (no change from Baseline)</b>							
Mining Operations (App. B-6 and B-8)	0.75	11.89	38.01	0.64	10.78	0.02	1,978.97
Aggregate Plant Operations (App. B-2)	--	--	51.06	2.51	--	--	1,741.33
Asphalt Plant Operations (App. B-3)	3.91	3.12	5.74	0.66	19.66	0.42	4,038.75
Ready Mix Concrete Plant Operations (App. B-4)	--	--	8.38	0.32	--	--	29.22
Mobile Source Emissions (App. B-5)	0.38	8.12	0.14	0.13	1.77	--	2,001.40
Subtotal	5.05	23.13	103.32	4.27	32.21	0.44	9,789.66
<b>Reclamation Activities (Sorted by Year)<sup>5</sup></b>							
<b>2022</b>							
Lake A Reclamation Activities (App. C-2)	0.16	1.63	0.22	0.09	1.07	0.00	285.38
Lake B Reclamation Activities (App. C-3 and C-4)	0.46	5.97	0.39	0.24	3.25	0.01	784.50
Subtotal	<b>0.61</b>	<b>7.60</b>	<b>0.61</b>	<b>0.33</b>	<b>4.31</b>	<b>0.01</b>	<b>1,069.88</b>
<b>2023</b>							
Lake A Reclamation Activities (App. C-2)	0.02	0.19	0.28	0.04	0.17	0.00	63.02
Subtotal	0.02	0.19	0.28	0.04	0.17	0.00	63.02
<b>2028</b>							
Lake B Reclamation Activities (App. C-3)	0.04	0.37	0.12	0.04	0.36	0.00	84.25
Subtotal	0.04	0.37	0.12	0.04	0.36	0.00	84.25

<b>Activity</b>	<b>ROG<sup>1</sup></b>	<b>NOx</b>	<b>PM10<sup>2</sup></b>	<b>PM2.5<sup>2</sup></b>	<b>CO</b>	<b>SOx</b>	<b>CO<sub>2</sub>e<sup>3</sup></b>
<b>2030</b>							
Lake B Reclamation Activities (App. C-3)	0.00	0.01	0.00	0.00	0.02	0.00	10.10
North Area Reclamation Activities (App. C-5)	0.03	0.09	0.05	0.01	0.18	0.00	61.61
Subtotal	0.03	0.10	0.05	0.01	0.20	0.00	71.71
<b>2049</b>							
Lake B Reclamation Activities (App. C-3)	0.02	0.04	0.12	0.01	0.10	0.00	51.61
North Area Reclamation Activities (App. C-5)	0.19	0.68	0.11	0.04	1.75	0.01	503.74
Subtotal	0.21	0.72	0.22	0.06	1.86	0.01	555.34
<b>Baseline + Project Totals (tons/year)</b>	<b>5.66</b>	<b>30.73</b>	<b>103.93</b>	<b>4.60</b>	<b>36.53</b>	<b>0.45</b>	<b>10,859.54</b>
<b>Project Net Change (tons/year)</b>	<b>0.61</b>	<b>7.60</b>	<b>0.61</b>	<b>0.33</b>	<b>4.31</b>	<b>0.01</b>	<b>1,069.88</b>
<b>BAAQMD CEQA Significance Thresholds</b>							
Threshold (tons/year)	10	10	15	10	N/A <sup>6</sup>	N/A <sup>7</sup>	1,100 MT
Exceeds Threshold?	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>N/A</b>	<b>N/A</b>	<b>No</b>

**Notes:**

1. VOC results reported as ROG for summary table where applicable.
2. PM emissions represent controlled (or abated) emissions, where applicable.
3. Greenhouse gas (CO<sub>2</sub>e) emissions are reported as annual emissions in Metric Tons per year.
4. Mining operations emissions sourced from CalEEMod Model Run 1, Baseline Mining and Sales Activity.
5. Peak emissions year for each pollutant in bold and grey shading.
6. BAAQMD threshold for Local CO is expressed as a concentration: 9.0 ppm (8-hour average), 20.00 ppm (1-hour average). Not directly comparable to a tons/year emission estimate.
7. BAAQMD has no published CEQA threshold for SOx emissions.







**APPENDIX B: BASELINE MODELS AND INPUTS**

**B-1. Baseline Production Levels**

**Description:**

For the Eliot Facility aggregate plant, Compass determined the baseline production by averaging the facility's amount of production as reported to Alameda County and the California Department of Conservation on the operator's Mining Operation Annual Reports during a 5-year period between 2013 and 2017. Production information for 2018 has not been published and was not available at the time of this study.

For the Eliot Facility readymix and asphalt plants, Compass determined the baseline production by averaging each facility's amount of production as reported by the readymix and asphalt plant operators (i.e., CEMEX and Granite Construction Company, respectively) during a 5-year period between 2013 and 2017. Readymix plant production based on personal communications with Michelle Bunch of CEMEX on December 4, 2018. Asphalt plant production based on personal communications with Donald Roland of Granite Construction Company on November 26, 2018. Production information for 2018 has not been published and was not available at the time of this study.

This 5-year averaging period reflects an accurate baseline that captures economic changes resulting from fluctuating market demand. Annual production figures are considered proprietary; therefore, the period average is reported below for each plant. Year-by-year production figures for the aggregate and readymix plants can be confidentially supplied to the County and/or BAAQMD reviewers upon request. Year-by-year production figures for the asphalt plant were not supplied by Granite. Granite provided the five-year average for use in this study.

**Aggregate Plants:** 1,182,325 tons per year average (Plant 1 + Plant 2)

**Readymix Plant:** 90,338 cubic yards per year average

**Asphalt Plant:** 240,000 tons per year average



**APPENDIX B: BASELINE MODELS AND INPUTS**

**B-2. Baseline Aggregate Plant Emissions**

**1. AGGREGATE PLANT - PM EMISSIONS FROM PROCESSING AND WIND EROSION**

**Description:**

The aggregate plant equipment list is derived from the BAAQMD Permit to Operate Plant #3358, issued July 27, 2018. The equipment list is assigned to the two existing plants at the Eliot Facility - i.e., Plant 1 (VSI plant) and Plant 2 (MA plant) per CEMEX. Emission factors from AP-42, Table 11.19.2-2.

**Production Assumptions:**

Annual production:	1,182,325	tons	Stockpile Area (acres):	25	acres (based on aerial interpretation)
% of Annual Production: Plant 1 (VSI Plant):	75%				
% of Annual Production: Plant 2 (MA Plant):	25%				
Annual Production: Plant 1 (VSI Plant):	886,744	tons			
Annual Production: Plant 2 (MA Plant):	295,581	tons			

PM10 EMISSIONS																	
Equipment	AP-42 Source Description	Qty	Assumed Throughput Allocation	Process Rate			Uncontrolled PM10					Controlled PM10					
				Tons per hour <sup>2</sup>	Tons per day <sup>3</sup>	Tons per year <sup>4</sup>	AP-42 Emission Factors (lb/ton)	Emissions (lb/hr)	Emissions (lb/day)	Emissions (lbs/yr)	Emissions (tons/yr)	AP-42 Emission Factors (lb/ton)	Emissions (lb/hr)	Emissions (lb/day)	Emissions (lbs/yr)	Emissions (tons/yr)	
<b>Plant 1: VSI Plant</b>																	
Jaw Crusher (S-27)	Primary crushing <sup>1</sup>	1	52%	500	3,000	461,107	0.0024	1.20	7.20	1,106.66	0.55	0.00054	0.27	1.62	249.00	0.12	
Screen (S-48)	Screening	2	95%	400	5,200	842,407	0.0087	6.96	90.48	14,657.88	7.33	0.00074	0.59	7.70	1,246.76	0.62	
Surge Conveyors (S-19)	Conveyor transfers	2	100%	350	5,200	886,744	0.0011	0.77	11.44	1,950.84	0.98	4.60E-05	0.03	0.48	81.58	0.04	
Process / Product Conveyors (S-20)	Conveyor transfers	6	100%	250	5,200	886,744	0.0011	1.65	34.32	5,852.51	2.93	4.60E-05	0.07	1.44	244.74	0.12	
Feed Hopper, 3-Bin (S-50)	Conveyor transfers	1	100%	400	5,200	886,744	0.0011	0.44	5.72	975.42	0.49	4.60E-05	0.02	0.24	40.79	0.02	
Hopper, Sand Loading (S-5)	Conveyor transfers	1	100%	400	5,200	886,744	0.0011	0.44	5.72	975.42	0.49	4.60E-05	0.02	0.24	40.79	0.02	
<b>Plant 2: MA Plant</b>																	
Cone Crusher CR4 (S-44)	Secondary crushing <sup>1</sup>	1	36%	400	8,000	106,409	0.0024	0.96	19.20	255.38	0.13	0.00054	0.22	4.32	57.46	0.03	
Cone Crusher CR5 (S-52)	Secondary crushing <sup>1</sup>	1	100%	400	8,000	295,581	0.0024	0.96	19.20	709.39	0.35	0.00054	0.22	4.32	159.61	0.08	
Cone Crusher (S-42)	Secondary crushing <sup>1</sup>	1	46%	400	8,000	135,967	0.0024	0.96	19.20	326.32	0.16	0.00054	0.22	4.32	73.42	0.04	
Screen (S-45)	Screening	1	95%	400	5,200	280,802	0.0087	3.48	45.24	2,442.98	1.22	0.00074	0.30	3.85	207.79	0.10	
Feed Hopper, Single (S-49)	Conveyor transfers	1	100%	400	5,200	295,581	0.0011	0.44	5.72	325.14	0.16	4.60E-05	0.02	0.24	13.60	0.01	
Surge Conveyors (S-19)	Conveyor transfers	2	100%	350	8,000	295,581	0.0011	0.77	17.60	650.28	0.33	4.60E-05	0.03	0.74	27.19	0.01	
Process / Product Conveyors (S-20)	Conveyor transfers	13	100%	250	8,000	295,581	0.0011	3.58	114.40	4,226.81	2.11	4.60E-05	0.15	4.78	176.76	0.09	
<b>Stockpile Wind Erosion</b>																	
	Wind Erosion <sup>5</sup>	N/A	N/A	N/A	N/A	N/A	1.7	1.77	42.50	15,512.50	7.76	5.10E-01	0.53	12.75	4,653.75	2.33	
<b>TOTALS:</b>							<b>24.38</b>	<b>437.94</b>	<b>49,967.52</b>	<b>24.98</b>		<b>2.68</b>	<b>47.03</b>	<b>7,273.25</b>	<b>3.64</b>		

**Notes:**

- Per AP-42, no data available for primary or secondary crushing, but emission factors for PM-10 for tertiary crushers can be used as an upper limit.
- Tons per hour from BAAQMD Permit to Operate or plant throughput capacity for equipment types that have no permit limit (e.g., hoppers and conveyors). Jaw crusher adjusted to 500 tons per hour.
- Tons per day from BAAQMD Permit to Operate or plant throughput capacity for equipment types that have no permit limit (e.g., hoppers and conveyors).
- Tons per year is calculated as baseline annual production multiplied by the average estimated percentage feed to each plant, assigned to individual pieces of equipment using AggFlow provided by CEMEX.
- Wind erosion factors per BAAQMD Permit Handbook, derived from AP-42, Fourth Edition, Section 8.19, Table 8.19.1-1. Factor of 1.7 lb/acre/day PM10 can be used. If watering is used to suppress dust, a maximum abatement efficiency of 70% may be used, reducing the factor to 0.51 lb/acre/day PM10.

APPENDIX B: BASELINE MODELS AND INPUTS

B-2. Baseline Aggregate Plant Emissions

PM2.5 EMISSIONS																	
Equipment	AP-42 Source Description	Qty	Assumed Throughput Allocation	Process Rate			Uncontrolled PM2.5					Controlled PM2.5					
				Tons per hour <sup>2</sup>	Tons per day <sup>3</sup>	Tons per year <sup>4</sup>	AP-42 Emission Factors (lb/ton)	Emissions (lb/hr)	Emissions (lb/day)	Emissions (lbs/yr)	Emissions (tons/yr)	AP-42 Emission Factors (lb/ton)	Emissions (lb/hr)	Emissions (lb/day)	Emissions (lbs/yr)	Emissions (tons/yr)	
<b>Plant 1: VSI Plant</b>																	
Jaw Crusher (S-27)	Primary crushing <sup>1</sup>	1	52%	500	3,000	461,107	0.0024	1.20	7.20	1,106.66	0.55	0.0001	0.05	0.30	46.11	0.02	
Screen (S-48)	Screening	2	95%	400	5,200	842,407	0.0087	6.96	90.48	14,657.88	7.33	0.00005	0.04	0.52	84.24	0.04	
Surge Conveyors (S-19)	Conveyor transfers	2	100%	350	5,200	886,744	0.0011	0.77	11.44	1,950.84	0.98	1.30E-05	0.01	0.14	23.06	0.01	
Process / Product Conveyors (S-20)	Conveyor transfers	6	100%	250	5,200	886,744	0.0011	1.65	34.32	5,852.51	2.93	1.30E-05	0.02	0.41	69.17	0.03	
Feed Hopper, 3-Bin (S-50)	Conveyor transfers	1	100%	400	5,200	886,744	0.0011	0.44	5.72	975.42	0.49	1.30E-05	0.01	0.07	11.53	0.01	
Hopper, Sand Loading (S-5)	Conveyor transfers	1	100%	400	5,200	886,744	0.0011	0.44	5.72	975.42	0.49	1.30E-05	0.01	0.07	11.53	0.01	
<b>Plant 2: MA Plant</b>																	
Cone Crusher CR4 (S-44)	Secondary crushing <sup>1</sup>	1	36%	400	8,000	106,409	0.0024	0.96	19.20	255.38	0.13	0.0001	0.04	0.80	10.64	0.01	
Cone Crusher CR5 (S-52)	Secondary crushing <sup>1</sup>	1	100%	400	8,000	295,581	0.0024	0.96	19.20	709.39	0.35	0.0001	0.04	0.80	29.56	0.01	
Cone Crusher (S-42)	Secondary crushing <sup>1</sup>	1	46%	400	8,000	135,967	0.0024	0.96	19.20	326.32	0.16	0.0001	0.04	0.80	13.60	0.01	
Screen (S-45)	Screening	1	95%	400	5,200	280,802	0.0087	3.48	45.24	2,442.98	1.22	0.00005	0.02	0.26	14.04	0.01	
Feed Hopper, Single (S-49)	Conveyor transfers	1	100%	400	5,200	295,581	0.0011	0.44	5.72	325.14	0.16	1.30E-05	0.01	0.07	3.84	0.00	
Surge Conveyors (S-19)	Conveyor transfers	2	100%	350	8,000	295,581	0.0011	0.77	17.60	650.28	0.33	1.30E-05	0.01	0.21	7.69	0.00	
Process / Product Conveyors (S-20)	Conveyor transfers	13	100%	250	8,000	295,581	0.0011	3.58	114.40	4,226.81	2.11	1.30E-05	0.04	1.35	49.95	0.02	
<b>Stockpile Wind Erosion</b>																	
	Wind Erosion <sup>5</sup>	N/A	N/A	N/A	N/A	N/A	1.7	1.77	42.50	15,512.50	7.76	5.10E-01	0.53	12.75	4653.75	2.33	
<b>TOTALS:</b>								<b>24.38</b>	<b>437.94</b>	<b>49,967.52</b>	<b>24.98</b>		<b>0.86</b>	<b>18.53</b>	<b>5,028.69</b>	<b>2.51</b>	

Notes:

- Per AP-42, no data available for primary or secondary crushing, but PM10 emission factors for tertiary crushers can be used. For PM-2.5, where AP-42 indicates No Data (ND), the PM-10 emission factor is used.
- Tons per hour from BAAQMD Permit to Operate or plant throughput capacity for equipment types that have no permit limit (e.g., hoppers and conveyors). Jaw crusher adjusted to 500 tons per hour.
- Tons per day from BAAQMD Permit to Operate or plant throughput capacity for equipment types that have no permit limit (e.g., hoppers and conveyors).
- Tons per year is calculated as baseline annual production multiplied by the average estimated percentage feed to each plant, assigned to individual pieces of equipment using AggFlow provided by CEMEX.
- 5a. Wind erosion factors per BAAQMD Permit Handbook, derived from AP-42, Fourth Edition, Section 8.19, Table 8.19.1-1. Factor of 1.7 lb/acre/day PM10 can be used. If watering is used to suppress dust, a maximum abatement efficiency of 70% may be used, reducing the factor to 0.51 lb/acre/day PM10.
- 5b. For wind erosion, BAAQMD does not provide a separate suggested emission factor for PM2.5. Therefore, to be conservative, BAAQMD's PM10 factor is applied.

**APPENDIX B: BASELINE MODELS AND INPUTS**

**B-2. Baseline Aggregate Plant Emissions**

**2. AGGREGATE PLANT - PM EMISSIONS FROM ON-SITE VEHICLE TRAFFIC**

**Description:**

Fugitive dust from truck traffic. The equation for the PM10 emission factor for fugitive dust from truck traffic is Equation 1 from AP-42, Chapter 13.2.1. A PM10 control efficiency of 70% will be used for water suppression. Production assumed to equal sales (truck transport).

**Estimating Assumptions:**

Tons per day:	4,729	tons per day (average)
Tons per year:	1,182,325	tons
Tons per truck:	25	tons
Average distance traveled onsite:	7,000	feet
Active days per year:	250	days (50 weeks per year)
Particle Size Multiplier - PM10 (k):	0.0022	lb/VMT
Road Surface Silt Loading (sL):	120	g/m <sup>2</sup>
Average Weight of Vehicles (W):	27.5	tons (based on avg of 15 ton empty, 40 ton loaded)
PM <sub>10</sub> control efficiency:	70%	percent

**Emission Factor:**

$E = k(sL)^{0.91}(W)^{1.02}$

E=	lbs/VMT
	5.04

**VMT Estimates:**

	Daily	Annual
Aggregate Haul Trucks	251	62,699

**PM<sub>10</sub> Emissions Estimate from On-Site Vehicle Traffic:**

	LBS/DAY	LBS/YEAR	TONS/YEAR
Unabated	1,264.50	316,124.35	158.06
Abated	379.35	94,837.30	47.42

**APPENDIX B: BASELINE MODELS AND INPUTS**

**B-2. Baseline Aggregate Plant Emissions**

**3. AGGREGATE PLANT - GREENHOUSE GAS EMISSIONS FROM ELECTRICITY USE (INDIRECT)**

**Description:**

Greenhouse gas emissions estimate for electricity use at existing aggregate plant sites. Site-specific electricity consumption data for aggregate plant, including pumps, office and scale (in kWh) provided by CEMEX.

**Electricity Use:**

Average monthly kWh: 497,130 kWh per month based on actual PG&E account records.  
 Average annual: 5,965,560 kWh per year based on actual PG&E account records (monthly) multiplied by 12.

kWh/year	MWh/year	Emission Factors (lb/MWh)			Emissions (MT/year)			
		CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
5,965,560	5,966	641	0.029	0.00617	1734.50	0.08	0.02	1741.33

**Conversion Factor (lbs to metric tons)**

1 MT =	2204.62 lb
--------	------------

**Global Warming Potential (to calculate CO<sub>2</sub>e)**

CO <sub>2</sub> =	1
CH <sub>4</sub> =	21
N <sub>2</sub> O =	310

**Notes:**

Emission factors from CalEEMod User Guide, Appendix D, Table 1.2, Electrical Utility Emissions Factors of Greenhouse Gases, for Pacific Gas & Electric.  
 kWh = kilowatt-hour; MWh = megawatt-hour; MT = metric tons  
 CO<sub>2</sub> = carbon dioxide; CH<sub>4</sub> = methane; N<sub>2</sub>O = nitrous oxide; CO<sub>2</sub>e = carbon dioxide equivalents





**APPENDIX B: BASELINE MODELS AND INPUTS**  
**B-3. Baseline Asphalt Concrete Plant Emissions**

**1. AC PLANT - PM EMISSIONS FROM CONVEYORS AND SCREENING**

**Description:**

Conveying and screening of raw aggregate and recycled asphalt pavement (RAP). The asphalt plant equipment assumptions are derived from the BAAQMD Permit to Operate Plant #13443, issued May 6, 2017. Emission factors from AP-42, Table 11.19.2-2.

**Production Assumptions:**

Tons per hour:	350 tons
Tons per day:	3,500 tons (based on 10 hours per day)
Tons per year:	240,000 tons
Average Virgin Agg Percentage:	74.5% percent
Average RAP Percentage:	20.0% percent
Average Oil Content:	5.5% percent

PM10 EMISSIONS																	
Equipment	AP-42 Source Description	Qty	Assumed Throughput Allocation	Process Rate			Uncontrolled PM10					Controlled PM10					
				Tons per hour <sup>1</sup>	Tons per day <sup>2</sup>	Tons per year <sup>3</sup>	AP-42 Emission Factors (lb/ton)	Emissions (lb/hr)	Emissions (lb/day)	Emissions (lbs/yr)	Emissions (tons/yr)	AP-42 Emission Factors (lb/ton)	Emissions (lb/hr)	Emissions (lb/day)	Emissions (lbs/yr)	Emissions (tons/yr)	
Conveyor (S-4)	Conveyor transfers	1	100%	350	3,500	240,000	0.0011	0.39	3.85	264.00	0.13	4.60E-05	0.02	0.16	11.04	0.01	
Aggregate Hopper (S-5)	Conveyor transfers	1	74.5%	261	2,608	178,800	0.0011	0.29	2.87	196.68	0.10	4.60E-05	0.01	0.12	8.22	0.00	
RAP Feed System (S-6)	Conveyor transfers	1	20%	70	700	48,000	0.0011	0.08	0.77	52.80	0.03	4.60E-05	0.00	0.03	2.21	0.00	
Belt Scale / Scale Conveyor (S-14)	Conveyor transfers	1	100%	350	3,500	240,000	0.0011	0.39	3.85	264.00	0.13	4.60E-05	0.02	0.16	11.04	0.01	
Feed / Scalping Screen (S-13)	Screening	1	74.5%	261	2,608	178,800	0.0087	2.27	22.69	1,555.56	0.78	7.40E-04	0.19	1.93	132.31	0.07	
RAP Screen (S-15)	Screening	1	20%	70	700	48,000	0.0087	0.61	6.09	417.60	0.21	7.40E-04	0.05	0.52	35.52	0.02	
<b>TOTALS:</b>								<b>4.01</b>	<b>40.12</b>	<b>2,750.64</b>	<b>1.38</b>	<b>0.29</b>	<b>2.92</b>	<b>200.34</b>	<b>0.10</b>		

**Notes:**

1. Tons per hour from BAAQMD Permit to Operate, adjusted for the throughout allocations.
2. Tons per day assumes 10 hours per day, adjusted for the throughput allocations.
3. Tons per year is calculated as baseline annual production, adjusted for the throughput allocations.

PM2.5 EMISSIONS																	
Equipment	AP-42 Source Description	Qty	Assumed Throughput Allocation	Process Rate			Uncontrolled PM2.5					Controlled PM2.5					
				Tons per hour <sup>2</sup>	Tons per day <sup>3</sup>	Tons per year <sup>4</sup>	AP-42 Emission Factors (lb/ton)	Emissions (lb/hr)	Emissions (lb/day)	Emissions (lbs/yr)	Emissions (tons/yr)	AP-42 Emission Factors (lb/ton)	Emissions (lb/hr)	Emissions (lb/day)	Emissions (lbs/yr)	Emissions (tons/yr)	
Conveyor (S-4)	Conveyor transfers	1	100%	350	3,500	240,000	0.0011	0.39	3.85	264.00	0.13	1.30E-05	0.00	0.05	3.12	0.00	
Aggregate Hopper (S-5)	Conveyor transfers	1	74.5%	261	2,608	178,800	0.0011	0.29	2.87	196.68	0.10	1.30E-05	0.00	0.03	2.32	0.00	
RAP Feed System (S-6)	Conveyor transfers	1	20%	70	700	48,000	0.0011	0.08	0.77	52.80	0.03	1.30E-05	0.00	0.01	0.62	0.00	
Belt Scale / Scale Conveyor (S-14)	Conveyor transfers	1	100%	350	3,500	240,000	0.0011	0.39	3.85	264.00	0.13	1.30E-05	0.00	0.05	3.12	0.00	
Feed / Scalping Screen (S-13)	Screening	1	74.5%	261	2,608	178,800	0.0087	2.27	22.69	1,555.56	0.78	5.00E-05	0.01	0.13	8.94	0.00	
RAP Screen (S-15)	Screening	1	20%	70	700	48,000	0.0087	0.61	6.09	417.60	0.21	5.00E-05	0.00	0.04	2.40	0.00	
<b>TOTALS:</b>								<b>4.01</b>	<b>40.12</b>	<b>2,750.64</b>	<b>1.38</b>	<b>0.03</b>	<b>0.30</b>	<b>20.53</b>	<b>0.01</b>		

**Notes:**

1. For PM-2.5, where AP-42 indicates No Data (ND) the corresponding PM-10 emission factor is used.
2. Tons per hour from BAAQMD Permit to Operate, adjusted for the throughout allocations.
3. Tons per day assumes 10 hours per day, adjusted for the throughput allocations.
4. Tons per year is calculated as baseline annual production, adjusted for the throughput allocations.

**APPENDIX B: BASELINE MODELS AND INPUTS**  
**B-3. Baseline Asphalt Concrete Plant Emissions**

**2. AC PLANT - CRITERIA POLLUTANT EMISSIONS FROM BAGHOUSE**

**Description:**

Drum mix asphalt plant fired by natural gas and abated by a baghouse. Emission factors taken from AP-42, Chapter 11.1.

**Production Assumptions:**

Tons per hour: 350 tons  
 Tons per day: 3,500 tons (based on 10 hours per day)  
 Tons per year: 240,000 tons

**Criteria Pollutant Emissions Estimates from Baghouse:**

Pollutant	AP-42 Emission Factors (lb/ton)	Emissions (lb/hr)	Emissions (lb/day)	Emissions (lbs/yr)	Emissions (tons/yr)
PM10	0.023	8.05	80.50	5,520.00	2.76
ROG <sup>1</sup>	0.032	11.20	112.00	7,680.00	3.84
CO	0.13	45.50	455.00	31,200.00	15.60
NO <sub>x</sub>	0.026	9.10	91.00	6,240.00	3.12
SO <sub>2</sub>	0.0034	1.19	11.90	816.00	0.41

**Notes:**

1. For ROG, the AP-42 emission factor for VOC is used.

APPENDIX B: BASELINE MODELS AND INPUTS  
 B-3. Baseline Asphalt Concrete Plant Emissions

3. AC PLANT - CRITERIA POLLUTANT EMISSIONS FROM SILO FILLING AND LOAD OUT

Description:

Drag slat conveyor to asphalt storage silos (silo filling) and truck load out emissions. Load out and silo filling emission factors obtained using the equations summarized in AP-42, Table 11.1-14. Abatement efficiency estimates are summarized below.

Production Assumptions:

Tons per hour:	350	tons
Tons per day:	3,500	tons (based on 10 hours per day)
Tons per year:	240,000	tons
Silo Filling Abatement Efficiency:	90%	percent for blue smoke recovery system
Load Out Abatement Efficiency:	0%	percent
Asphalt Volatility (V)	(0.5)	
HMA Temp (T)	325	*F

Emission Factors:

Activity	Criteria Pollutant	Formula	Emission Factor (lbs/ton)
Load Out	TOC	$EF \text{ (lb/ton)} = 0.0172(-V)e^{((0.0251)(T+460)-20.43)}$	0.00416
Silo Filling	TOC	$EF \text{ (lb/ton)} = 0.0504(-V)e^{((0.0251)(T+460)-20.43)}$	0.01219
Load Out	PM	$EF \text{ (lb/ton)} = 0.000181+0.00141(-V)e^{((0.0251)(T+460)-20.43)}$	0.00052
Silo Filling	PM	$EF \text{ (lb/ton)} = 0.000332+0.00105(-V)e^{((0.0251)(T+460)-20.43)}$	0.00059
Load Out	CO	$EF \text{ (lb/ton)} = 0.00558(-V)e^{((0.0251)(T+460)-20.43)}$	0.00135
Silo Filling	CO	$EF \text{ (lb/ton)} = 0.00488(-V)e^{((0.0251)(T+460)-20.43)}$	0.00118

Criteria Pollutant Emissions Estimates from Silo Filling and Load Out:

Pollutant	AP-42 Emission Factors (lb/ton)	Emissions (lb/hr) <sup>1</sup>	Emissions (lb/day) <sup>1</sup>	Emissions (lbs/yr) <sup>1</sup>	Emissions (tons/yr) <sup>1</sup>
<b>Silo Filling</b>					
TOC	0.01219	0.43	4.27	292.48	0.15
PM	0.00059	0.02	0.21	14.06	0.01
CO	0.00118	0.04	0.41	28.32	0.01
<b>Load Out</b>					
TOC	0.00416	1.46	14.56	998.15	0.50
PM	0.00052	0.18	1.83	125.26	0.06
CO	0.00135	0.47	4.72	323.82	0.16
<b>Combined (Silo Filling + Load Out)</b>					
TOC	--	1.88	18.82	1,290.63	0.65
PM	--	0.20	2.03	139.33	0.07
CO	--	0.51	5.14	352.14	0.18

Notes:

1. Reported emissions utilize abatement factors presented above.

**APPENDIX B: BASELINE MODELS AND INPUTS**  
**B-3. Baseline Asphalt Concrete Plant Emissions**

**4. AC PLANT - CRITERIA POLLUTANT EMISSIONS FROM HOT OIL HEATER**

**Description:**

Model CEI HC-300 circulating hot oil heater with Power Flame NP2R-G-520 burner having a maximum heat input of 3.0 million BTU/hr. Emission factors for VOC, SOx, and PM are from AP-42, Table 1.4-2. NOx emission factor is based on 30 ppmvd at 3% oxygen and reflects BAAQMD Regulation 9, Rule 7 emission standards. CO emission factor is based on 400 ppmvd at 3% oxygen and reflects BAAQMD Regulation 9, Rule 7 emission standards. Data reflects Granite's actual permit application submittal.

**Production Assumptions:**

Production hours/day:	24	hours
Production days/year:	365	days
Production hours/year:	8,760	hours
Maximum heat input:	3.000	MMBtu/hr
Heating value (natural gas):	1,020	BTU/SCF

**Emission Factors:**

VOC:	5.5	lb/MMCF (AP-42, Table 1.4-2)
	0.0054	lb/MMBtu
SOx:	0.6	lb/MMCF (AP-42, Table 1.4-2)
	0.0006	lb/MMBtu
PM10:	7.6	lb/MMCF (AP-42, Table 1.4-2)
	0.0075	lb/MMBtu
NOx:	0.0364	lb/MMBtu (BAAQMD Reg. 9, Rule 7)
CO:	0.2956	lb/MMBtu (BAAQMD Reg. 9, Rule 7)

**Emissions Estimates from Hot Oil Heater:**

Pollutant	Emission Factor		Emissions (lbs/hr)	Emissions (lbs/day)	Emissions (lbs/yr)	Emissions (tons/yr)
VOC	0.0054	lb/MMBtu	0.02	0.39	141.71	0.07
SOx	0.0006	lb/MMBtu	0.00	0.04	15.46	0.01
PM10	0.0075	lb/MMBtu	0.02	0.54	195.81	0.10
NOx	0.0364	lb/MMBtu	0.11	2.62	956.59	0.48
CO	0.2956	lb/MMBtu	0.89	21.28	7,768.37	3.88

APPENDIX B: BASELINE MODELS AND INPUTS  
B-3. Baseline Asphalt Concrete Plant Emissions

5. AC PLANT - VOC EMISSIONS FROM ASPHALT STORAGE TANKS

Description:

Heated asphalt hot oil tank is 30,000 gallons. Ran Tanks Program Version 4.0.9d to gain asphalt losses in lbs per year.

Calculations:

Asphalt losses	876.4 lbs (from Tanks run)
Control efficiency	96% for condensor
Controlled asphalt emissions	35.1 lbs
VOC content	0.10% per MSDS for asphalt from Valero
Controlled VOC emissions	0.035 lbs per year

VOC Emissions Summary

VOC emissions daily	9.6E-05 lbs per day
VOC emissions annual	0.0351 lbs per year

APPENDIX B: BASELINE MODELS AND INPUTS  
 B-3. Baseline Asphalt Concrete Plant Emissions

6. AC PLANT - PM EMISSIONS FROM STOCKPILE WIND EROSION

Description:

Emission factors from BAAQMD Permit Handbook, derived from AP-42.

Assumptions:

Stockpile Area (acres): 7 acres (based on aerial interpretation), including RAP piles

PM10 EMISSIONS										
Source Description	Uncontrolled PM10					Controlled PM10				
	Emission Factors (lb/acre/day)	Emissions (lb/hr)	Emissions (lb/day)	Emissions (lbs/yr)	Emissions (tons/yr)	Emission Factors (lb/acre/ day)	Emissions (lb/hr)	Emissions (lb/day)	Emissions (lbs/yr)	Emissions (tons/yr)
Wind Erosion (Aggregate/Sand Piles)	1.7	0.50	11.90	4,343.50	2.17	0.51	0.15	3.57	1,303.05	0.65

Notes:

1. Wind erosion factors per BAAQMD Permit Handbook, derived from AP-42, Fourth Edition, Section 8.19, Table 8.19.1-1. Factor of 1.7 lb/acre/day PM10 can be used. If watering is used to suppress dust, a maximum abatement efficiency of 70% may be used, reducing the factor to 0.51 lb/acre/day PM10.

PM2.5 EMISSIONS										
Source Description	Uncontrolled PM2.5					Controlled PM2.5				
	Emission Factors (lb/acre/day)	Emissions (lb/hr)	Emissions (lb/day)	Emissions (lbs/yr)	Emissions (tons/yr)	Emission Factors (lb/acre/ day)	Emissions (lb/hr)	Emissions (lb/day)	Emissions (lbs/yr)	Emissions (tons/yr)
Wind Erosion (Aggregate/Sand Piles)	1.7	0.50	11.90	4,343.50	2.17	0.51	0.15	3.57	1,303.05	0.65

Notes:

1. Wind erosion factors per BAAQMD Permit Handbook, derived from AP-42, Fourth Edition, Section 8.19, Table 8.19.1-1. Factor of 1.7 lb/acre/day PM10 can be used. If watering is used to suppress dust, a maximum abatement efficiency of 70% may be used, reducing the factor to 0.51 lb/acre/day PM10.  
 2. For wind erosion, BAAQMD does not provide a separate suggested emission factor for PM2.5. Therefore, to be conservative, BAAQMD's PM10 factor is applied.

**APPENDIX B: BASELINE MODELS AND INPUTS**  
**B-3. Baseline Asphalt Concrete Plant Emissions**

**7. AC PLANT - PM EMISSIONS FROM VEHICLE TRAFFIC**

**Description:**

Fugitive dust from truck traffic. The equation for the PM10 emission factor for fugitive dust from truck traffic is equation 1 from AP-42, Chapter 13.2.1. A PM10 control efficiency of 70% will be used for water suppression. Production assumed to equal sales (truck transport).

**Estimating Assumptions:**

Tons per day:	3,500	tons per day (average)
Tons per year:	240,000	tons
Tons per truck:	25	tons
Average distance traveled onsite:	1,500	feet
Active days per year:	250	days (50 weeks per year)
Particle Size Multiplier - PM10 (k):	0.0022	lb/VMT
Road Surface Silt Loading (sL):	120	g/m <sup>2</sup>
Average Weight of Vehicles (W):	27.5	tons (based on avg of 15 ton empty, 40 ton loaded)
PM <sub>10</sub> control efficiency:	70%	percent

**Emission Factor:**

$$E = k(sL)^{0.91}(W)^{1.02}$$

E=	lbs/VMT
	5.04

**VMT Estimates:**

	Daily	Annual
AC Haul Trucks	40	2,727

**PM<sub>10</sub> Emissions Estimate from Vehicle Traffic:**

	LBS/DAY	LBS/YEAR	TONS/YEAR
Unabated	200.53	13,750.72	6.88
Abated	60.16	4,125.22	2.06



APPENDIX B: BASELINE MODELS AND INPUTS  
 B-3. Baseline Asphalt Concrete Plant Emissions

8. AC PLANT - GREENHOUSE GAS EMISSIONS FROM ONSITE EQUIPMENT (DIRECT)

Description:

Greenhouse gas emissions estimate for operation of Granite's existing asphalt plant. Emission factors from AP-42 and 2015 default emission factors of Climate Registry.

Dryer Emissions:		Emission Factors (lb/ton)				Emissions (MT/year)			
Production (tons/year)		CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
240,000		33	0.012	--	33.252	3592.46	1.31	--	3619.89

Notes:

Emission factors from AP-42, Tables 11.1-7.

CO<sub>2</sub> = carbon dioxide; CH<sub>4</sub> = methane; N<sub>2</sub>O = nitrous oxide; CO<sub>2</sub>e = carbon dioxide equivalents

Oil Heater Emissions:		Emission Factors (g/MMBtu)				Emissions (MT/year)			
Rating (MMBtu/hr)	Operating Hours	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
2.9	2,000	53060	0.95	0.95	53374.45	307.75	0.01	0.01	309.57

Notes:

Emission factors from 2015 default emission factors of Climate Registry.

MMBtu = one-million British Thermal Units; MT = metric tons

CO<sub>2</sub> = carbon dioxide; CH<sub>4</sub> = methane; N<sub>2</sub>O = nitrous oxide; CO<sub>2</sub>e = carbon dioxide equivalents

Conversion Factors

1 MT =	2204.62	lb
1 lb =	453.592	grams

Global Warming Potential (to calculate CO<sub>2</sub>e)

CO <sub>2</sub> =	1
CH <sub>4</sub> =	21
N <sub>2</sub> O =	310

APPENDIX B: BASELINE MODELS AND INPUTS  
 B-3. Baseline Asphalt Concrete Plant Emissions

9. AC PLANT - GREENHOUSE GAS EMISSIONS FROM ELECTRICITY USE (INDIRECT)

Description:

Greenhouse gas emissions estimate for electricity use at Granite's existing asphalt plant. Site-specific electricity consumption data not available. Emissions estimate based on electricity use assumptions derived from scaling electricity demand from a similar AC plant (City of Los Angeles AC Plant No. 1).

kWh/year	MWh/year	Emission Factors (lb/MWh)			Emissions (MT/year)			
		CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
374,400	374	641	0.029	0.00617	108.86	0.00	0.00	109.29

Notes:

Emission factors from CalEEMod User Guide, Appendix D, Table 1.2, Electrical Utility Emissions Factors of Greenhouse Gases, for Pacific Gas & Electric.

kWh = kilowatt-hour; MWh = megawatt-hour; MT = metric tons

CO<sub>2</sub> = carbon dioxide; CH<sub>4</sub> = methane; N<sub>2</sub>O = nitrous oxide; CO<sub>2</sub>e = carbon dioxide equivalents

Conversion Factor (lbs to metric tons)

1 MT =	2204.62 lb
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Global Warming Potential (to calculate CO<sub>2</sub>e)

CO <sub>2</sub> =	1
CH <sub>4</sub> =	21
N <sub>2</sub> O =	310

**TANKS 4.0.9d**  
**Emissions Report - Summary Format**  
**Tank Identification and Physical Characteristics**

**Identification**

User Identification:	Pleasanton AC
City:	
State:	California
Company:	Granite Construction Company
Type of Tank:	Horizontal Tank
Description:	Asphalt Oil Heater Tank

**Tank Dimensions**

Shell Length (ft):		42.00
Diameter (ft):		11.00
Volume (gallons):		30,000.00
Turnovers:		100.00
Net Throughput(gal/yr):		3,000,000.00
Is Tank Heated (y/n):	Y	
Is Tank Underground (y/n):	N	

**Paint Characteristics**

Shell Color/Shade:	Gray/Light
Shell Condition	Good

**Breather Vent Settings**

Vacuum Settings (psig):	0.00
Pressure Settings (psig)	0.00

Meteorological Data used in Emissions Calculations: San Francisco AP, California (Avg Atmospheric Pressure = 14.75 psia)

**TANKS 4.0.9d**  
**Emissions Report - Summary Format**  
**Liquid Contents of Storage Tank**

**Pleasanton AC - Horizontal Tank**  
**, California**

Mixture/Component	Month	Daily Liquid Surf. Temperature (deg F)			Liquid Bulk Temp (deg F)	Vapor Pressure (psia)			Vapor Mol. Weight.	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
		Avg.	Min.	Max.		Avg.	Min.	Max.					
Asphalt Oil	All	370.00	350.00	374.00	374.00	0.2822	0.1805	0.3078	84.0000			750.00	Option 2: A=9.03, B=3626.97, C=273.33



**TANKS 4.0.9d**  
**Emissions Report - Summary Format**  
**Individual Tank Emission Totals**

**Emissions Report for: Annual**

**Pleasanton AC - Horizontal Tank  
, California**

	Losses(lbs)		
Components	Working Loss	Breathing Loss	Total Emissions
Asphalt Oil	790.26	86.15	876.41







**APPENDIX B: BASELINE MODELS AND INPUTS**  
**B-4. Baseline Ready Mix Concrete Plant Emissions**

**1. RMC PLANT - PM EMISSIONS**

**Description:**

PM emissions from existing ready-mix concrete plant. The ready-mix assumptions are derived from the BAAQMD Permit to Operate Plant #19391, issued September 28, 2018. Emission factors from BAAQMD Permit Handbook, derived from AP-42.

**Production Assumptions:**

Tons per hour:	650	tons (per permit)
Tons per day:	6,500	tons (based on 10 hours per day)
Cubic yards per year:	90,338	cubic yards (per CEMEX production)
Tons per year:	181,760	tons (at 4,024 lbs per cubic yard per AP-42)
Stockpile Area (acres):	2	acres (based on aerial interpretation)

**Material Composition:**

Coarse Aggregate Percentage:	1,865	lbs per cy =	46.35%	percent
Sand Percentage:	1,428	lbs per cy =	35.49%	percent
Cement Percentage:	491	lbs per cy =	12.20%	percent
Cement Supplement Percentage:	73	lbs per cy =	1.81%	percent
Water Percentage:	167	based on 20 gallons =	4.15%	percent
<b>Total:</b>	<b>4,024</b>		<b>100.00%</b>	<b>percent</b>

Source: BAAQMD Permit Handbook

AP-42 Source Description	PM10 EMISSIONS													
	Process Rate			Uncontrolled PM10					Controlled PM10					
	Tons per hour	Tons per day	Tons per year	AP-42 Emission Factors (lb/ton)	Emissions (lb/hr)	Emissions (lb/day)	Emissions (lbs/yr)	Emissions (tons/yr)	AP-42 Emission Factors (lb/ton)	Emissions (lb/hr)	Emissions (lb/day)	Emissions (lbs/yr)	Emissions (tons/yr)	
Aggregate Transfer	301	3,013	84,240	0.0033	0.99	9.94	277.99	0.14	0.00099	0.30	2.98	83.40	0.04	
Sand Transfer	231	2,307	64,501	0.00099	0.23	2.28	63.86	0.03	0.000297	0.07	0.69	19.16	0.01	
Cement Unloading	79	793	22,178	0.47	37.28	372.76	10,423.65	5.21	0.00034	0.03	0.27	7.54	0.00	
Cement Supplement Unloading	12	118	3,297	1.1	12.97	129.71	3,627.07	1.81	0.0049	0.06	0.58	16.16	0.01	
Weigh Hopper Loading	650	6,500	181,760	0.0028	1.82	18.20	508.93	0.25	0.00084	0.55	5.46	152.68	0.08	
Mixer Loading	650	6,500	181,760	0.156	101.40	1,014.00	28,354.57	14.18	0.0055	3.58	35.75	999.68	0.50	
Wind Erosion (Aggregate/Sand Piles) <sup>2</sup>	N/A	N/A	N/A	1.7	0.14	3.40	1,241.00	0.62	0.51	0.04	1.02	372.30	0.19	
	<b>TOTALS:</b>				<b>154.83</b>	<b>1,550.30</b>	<b>44,497.07</b>	<b>22.25</b>		<b>4.61</b>	<b>46.74</b>	<b>1,650.91</b>	<b>0.83</b>	

**Notes:**

- For PM-10 controlled, watering is used for dust control therefore a 70% abatement efficiency is applied.
- Wind erosion factors per BAAQMD Permit Handbook, derived from AP-42, Fourth Edition, Section 8.19, Table 8.19.1-1. Factor of 1.7 lb/acre/day PM10 can be used. If watering is used to suppress dust, a maximum abatement efficiency of 70% may be used, reducing the factor to 0.51 lb/acre/day PM10.

**APPENDIX B: BASELINE MODELS AND INPUTS**

**B-4. Baseline Ready Mix Concrete Plant Emissions**

PM2.5 EMISSIONS													
AP-42 Source Description	Process Rate			Uncontrolled PM2.5					Controlled PM2.5				
	Tons per hour	Tons per day	Tons per year	AP-42 Emission Factors (lb/ton)	Emissions (lb/hr)	Emissions (lb/day)	Emissions (lbs/yr)	Emissions (tons/yr)	AP-42 Emission Factors (lb/ton)	Emissions (lb/hr)	Emissions (lb/day)	Emissions (lbs/yr)	Emissions (tons/yr)
Aggregate Transfer	301	3,013	84,240	0.0005	0.15	1.51	42.12	0.02	0.0005	0.15	1.51	42.12	0.02
Sand Transfer	231	2,307	64,501	0.00015	0.03	0.35	9.68	0.00	0.00015	0.03	0.35	9.68	0.00
Cement Unloading	79	793	22,178	0.07	5.55	55.52	1,552.46	0.78	0.00005	0.00	0.04	1.11	0.00
Cement Supplement Unloading	12	118	3,297	0.17	2.00	20.05	560.55	0.28	0.0007	0.01	0.08	2.31	0.00
Weigh Hopper Loading	650	6,500	181,760	0.0004	0.26	2.60	72.70	0.04	0.0004	0.26	2.60	72.70	0.04
Mixer Loading	650	6,500	181,760	0.023	14.95	149.50	4,180.48	2.09	0.0008	0.52	5.20	145.41	0.07
Wind Erosion (Aggregate/Sand Piles) <sup>2</sup>	N/A	N/A	N/A	1.70	0.14	3.40	1,241.00	0.62	0.51	0.04	1.02	372.30	0.19
	<b>TOTALS:</b>				<b>23.09</b>	<b>232.92</b>	<b>7,658.99</b>	<b>3.83</b>		<b>1.02</b>	<b>10.79</b>	<b>645.62</b>	<b>0.32</b>

**Notes:**

1. For PM-2.5, where BAAQMD Permit Handbook (derived from AP-42) indicates No Data (ND) the corresponding uncontrolled PM-2.5 emission factor is used.
- 2a. Wind erosion factors per BAAQMD Permit Handbook, derived from AP-42, Fourth Edition, Section 8.19, Table 8.19.1-1. Factor of 1.7 lb/acre/day PM10 can be used. If watering is used to suppress dust, a maximum abatement efficiency of 70% may be used, reducing the factor to 0.51 lb/acre/day PM10.
- 2b. For wind erosion, BAAQMD does not provide a separate suggested emission factor for PM2.5. Therefore, to be conservative, BAAQMD's PM10 factor is applied.

**APPENDIX B: BASELINE MODELS AND INPUTS**

**B-4. Baseline Ready Mix Concrete Plant Emissions**

**2. RMC PLANT - PM EMISSIONS FROM VEHICLE TRAFFIC**

**Description:**

Fugitive dust from truck traffic. The equation for the PM10 emission factor for fugitive dust from truck traffic is equation 1 from AP-42, Chapter 13.2.1. A PM10 control efficiency of 70% will be used for water suppression. Production assumed to equal sales (truck transport).

**Estimating Assumptions:**

Tons per day:	6,500 tons per day (average)
Tons per year:	181,760 tons
Tons per truck:	18 tons (at 4,024 lbs per cubic yard per AP-42)
Average distance traveled onsite:	6,000 feet
Active days per year:	250 days (50 weeks per year)
Particle Size Multiplier - PM10 (k):	0.0022 lb/VMT
Road Surface Silt Loading (sL):	120 g/m <sup>2</sup>
Average Weight of Vehicles (W):	24.0 tons (based on avg of 15 ton empty, 33 ton loaded)
PM <sub>10</sub> control efficiency:	70% percent

**Emission Factor:**

$$E = k(sL)^{0.91}x(W)^{1.02}$$

$$E = \frac{\text{lbs/VMT}}{4.39}$$

**VMT Estimates:**

	Daily	Annual
RMC Haul Trucks	410	11,475

**PM<sub>10</sub> Emissions Estimate from Vehicle Traffic:**

	LBS/DAY	LBS/YEAR	TONS/YEAR
Unabated	1,800.74	50,354.28	25.18
Abated	540.22	15,106.28	7.55

**APPENDIX B: BASELINE MODELS AND INPUTS**

**B-4. Baseline Ready Mix Concrete Plant Emissions**

**3. RMC PLANT - GREENHOUSE GAS EMISSIONS FROM ELECTRICITY USE (INDIRECT)**

**Description:**

Greenhouse gas emissions estimate for electricity use at CEMEX's existing ready mix concrete plant. Site-specific electricity consumption data not available. Emissions estimate based on electricity use assumptions used in the evaluation of a similar sized plant (i.e., Star Concrete's Port of Redwood City Plant).

kWh/year	MWh/year	Emission Factors (lb/MWh)			Emissions (MT/year)			
		CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
100,100	100	641	0.029	0.00617	29.10	0.00	0.00	29.22

**Notes:**

Emission factors from CalEEMod User Guide, Appendix D, Table 1.2, Electrical Utility Emissions Factors of Greenhouse Gases, for Pacific Gas & Electric.

kWh = kilowatt-hour; MWh = megawatt-hour; MT = metric tons

CO<sub>2</sub> = carbon dioxide; CH<sub>4</sub> = methane; N<sub>2</sub>O = nitrous oxide; CO<sub>2</sub>e = carbon dioxide equivalents

**Conversion Factor (lbs to metric tons)**

1 MT =	2204.62 lb
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**Global Warming Potential (to calculate CO<sub>2</sub>e)**

CO <sub>2</sub> =	1
CH <sub>4</sub> =	21
N <sub>2</sub> O =	310



**APPENDIX B: BASELINE MODELS AND INPUTS**

**B-5. Baseline Mobile Source Emissions**

**1. OFF-SITE VEHICLE EMISSIONS**

**Description:**

On-road vehicle emissions associated with vehicle travel. Emission factors from EMFAC2017. Production assumptions from CEMEX.

**EMFAC2017 (v1.0.2) Emission Rates (Alameda County):**

Calendar Year: 2018

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: g/mile for emission rates; miles for trip distance

Speed Selections: Average speed of 45 mph assumed for light-duty vehicle trips (gas) and 35 mph for truck trips (diesel).

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Trip Distance (one-way)	ROG	CO	NOx	SOx	CO2	CH4	PM10	PM2.5	N2O
Alameda	2018	LDA	Aggregated	45	GAS	8	0.016	0.936	0.071	0.003	261.045	0.004	0.001	0.001	0.006
Alameda	2018	LDT1	Aggregated	45	GAS	8	0.034	1.639	0.155	0.003	301.513	0.007	0.002	0.002	0.011
Alameda	2018	LDA/LDT1	Average	45	GAS	8	0.020	1.112	0.092	0.003	271.162	0.004	0.001	0.001	0.007
Alameda	2018	MDV	Aggregated	35	DSL	9	0.014	0.200	0.070	0.004	379.295	0.001	0.007	0.006	0.060
Alameda	2018	T7 Tractor	Aggregated	35	DSL	11	0.286	1.137	6.130	0.015	1541.263	0.013	0.102	0.098	0.242

**Notes:**

LDA/LDT1 average represents the weighted average factor assuming 75% LDA and 25% LDT1 for passenger vehicle travel.

LDA = Passenger cars

LDT1 = Light-Duty Trucks (GVWR <6000 lbs. and ETW <= 3750 lbs)

MDV = Medium-Duty Trucks (GVWR 6000-8500 lbs)

T7 Tractor = Heavy-Heavy Duty Diesel Tractor Truck

**APPENDIX B: BASELINE MODELS AND INPUTS**

**B-5. Baseline Mobile Source Emissions**

**Production Assumptions:**

Annual production - Agg Plant:	797,649	tons (after internal transfer to AC/RMC)	Tons per truck - haul trucks:	25	tons
Annual Production - AC Plant:	240,000	tons	Tons per truck - mixer trucks:	18	tons (9 CY at 2 tons per CY)
Annual Production - RMC Plant:	180,676	tons (based on 2 tons per CY)	Qty AC Oil Deliveries:	100	deliveries per year
Annual Operating Days:	250	days (based on 50 weeks per year)	Maintenance / service visits:	1	per day per plant average

**Conversion factors:**

grams/lb:	453.592
grams/ton:	907,184
MT/ton:	0.907

**Global warming potential (to calculate CO2e):**

CO2:	1
CH4:	21
N <sub>2</sub> O:	310
CO2e =	1 * CO2 + 21 * CH4 + 310 * N2O

**Annual Emissions Calculation:**

On-road Mobile Source	EMFAC Source	Employees	VMT/yr	ROG (tons/yr)	NOX (tons/yr)	CO (tons/yr)	PM10 (tons/yr)	PM2.5 (tons/yr)	Greenhouse Gases			
									CO2 (MT/yr)	CH4 (MT/yr)	N <sub>2</sub> O (MT/yr)	CO2e (MT/yr)
<b>Aggregate Plant</b>												
Employee Commute	LDA (75%) and LDT1 (25%)	30	120,000	0.00	0.01	0.15	0.00	0.00	32.53	0.00	0.00	32.82
Haul trucks (finish product)	T7 Tractor		701,931	0.22	4.74	0.88	0.08	0.08	1,081.64	0.01	0.17	1,134.54
Maintenance / service vehicle	MDV		4,500	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
<b>Asphalt Plant</b>												
Employee Commute	LDA (75%) and LDT1 (25%)	5	20,000	0.00	0.00	0.02	0.00	0.00	5.42	0.00	0.00	5.47
Haul trucks (finish product)	T7 Tractor		211,200	0.07	1.43	0.26	0.02	0.02	325.45	0.00	0.05	341.37
Haul trucks (AC oil)	T7 Tractor		2,200	0.00	0.01	0.00	0.00	0.00	3.39	0.00	0.00	3.56
Haul truck (RAP) - @15%	T7 Tractor		31,680	0.01	0.21	0.04	0.00	0.00	48.82	0.00	0.01	51.20
Maintenance / service vehicle	MDV		4,500	0.00	0.00	0.00	0.00	0.00	1.71	0.00	0.00	1.79
<b>Ready Mix Concrete Plant</b>												
Employee Commute	LDA (75%) and LDT1 (25%)	20	80,000	0.00	0.01	0.10	0.00	0.00	21.69	0.00	0.00	21.88
Mixer trucks (finish product)	T7 Tractor		220,826	0.07	1.49	0.28	0.02	0.02	340.28	0.00	0.05	356.92
Haul trucks (cement / fly ash) - @14%	T7 Tractor		30,916	0.01	0.21	0.04	0.00	0.00	47.64	0.00	0.01	49.97
Maintenance / service vehicle	MDV		4,500	0.00	0.00	0.00	0.00	0.00	1.71	0.00	0.00	1.79
<b>TOTALS:</b>			<b>1,432,253</b>	<b>0.38</b>	<b>8.12</b>	<b>1.77</b>	<b>0.14</b>	<b>0.13</b>	<b>1,910.28</b>	<b>0.02</b>	<b>0.29</b>	<b>2,001.40</b>
<b>TOTALS (In lbs/day for summary reporting purposes):</b>				<b>3.06</b>	<b>64.99</b>	<b>14.20</b>	<b>1.08</b>	<b>1.04</b>	--	--	--	--

**Notes:**

Per BAAQMD Permit Handbook, cement and fly ash supplement accounts for approximately 14% of RMC mix.

Granite AC RAP percentage estimated at 15%.

Employee estimates based on personal communication with Grantt Franco of CEMEX (February 2019) and represents current employment level at the site.





**APPENDIX B: BASELINE MODELS AND INPUTS**

**B-6. Baseline Pit-to-Plant Material Transport Emissions**

**1. MINING OPERATIONS - PM EMISSIONS FROM CONVEYOR TRANSPORT FROM PIT-TO-PLANT**

**Description:**

Fugitive dust from conveyor transport of raw materials from pit-to-plant. The controlled emission factor for PM is taken from AP-42, Table 11.19.2-2. The controlled emission factor is appropriate based on the typical moisture content of the material.

**Production Assumptions:**

Annual production:	1,182,325	tons
% of Material Transport by Conveyor:	20%	
% of Material Transport by Truck:	80%	
Tons Transported by Conveyor:	236,465	tons
Tons Transported by Truck:	945,860	tons

Qty. of Conveyor Transfers:	4	from Lake B pit to plant
Production Days per Year:	250	days (50 weeks per year)
Conveyed Tons per Day:	946	tons (average)
Conveyed Tons per Hour:	118	tons (based on 8 hours of operation)

**Conveyor PM Emissions Calculations:**

Pollutant	AP-42 Emission Factors (lb/ton)	Emissions (lb/hr)	Emissions (lb/day)	Emissions (lbs/yr)	Emissions (tons/yr)
PM10	4.60E-05	0.02	0.17	43.51	0.02
PM2.5	1.30E-05	0.01	0.05	12.30	0.01

**APPENDIX B: BASELINE MODELS AND INPUTS**

**B-6. Baseline Pit-to-Plant Material Transport Emissions**

**2. MINING OPERATIONS - PM EMISSIONS FROM TRUCK TRANSPORT FROM PIT-TO-PLANT**

**Description:**

Fugitive dust from truck traffic. The equation for the PM10 emission factor for fugitive dust from truck traffic is equation 1 from AP-42, Chapter 13.2.1. A PM10 control efficiency of 70% will be used for water suppression.

**Estimating Assumptions:**

Tons per day:	3,783	tons per day (average)
Tons per year:	945,860	tons
Tons per truck:	40	tons
Average distance traveled onsite:	3,000	feet (round-trip from Lake J excavation to plant feed hopper)
Active days per year:	250	days (50 weeks per year)
Particle Size Multiplier - PM10 (k):	0.0022	lb/VMT
Road Surface Silt Loading (sL):	120	g/m <sup>2</sup>
Average Weight of Vehicles (W):	98.0	tons (based on avg of 78 tons empty, 118 tons loaded)
PM <sub>10</sub> control efficiency:	70%	percent

**Emission Factor:**

$$E = k(sL)^{0.91} \times (W)^{1.02}$$

E =	lbs/VMT
	18.43

**VMT Estimates:**

	Daily	Annual
Haul Trucks	54	13,436

**PM<sub>10</sub> Emissions Estimate from Haul Truck Transport:**

	LBS/DAY	LBS/YEAR	TONS/YEAR
Unabated	990.47	247,618.1	123.8
Abated	297.14	74,285.43	37.14

**APPENDIX B: BASELINE MODELS AND INPUTS**

**B-6. Baseline Pit-to-Plant Material Transport Emissions**

**3. MINING OPERATIONS - GREENHOUSE GAS EMISSIONS FROM CONVEYOR ELECTRICITY USE (INDIRECT)**

**Description:**

Greenhouse gas emissions estimate for electricity use of the existing conveyor between Lake B pit and plant. Electricity consumption estimate per ton based on similar conveyor use for Vineyard South Mine Project in Sacramento County California (EIR certified January 15, 2019).

**Electricity Use:**

Average kWh per ton: 1.1 kWh per ton  
 Average annual kWh: 260,112 kWh per year

kWh/year	MWh/year	Emission Factors (lb/MWh)			Emissions (MT/year)			
		CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e
260,112	260	641	0.029	0.00617	75.63	0.003	0.001	75.93

**Conversion Factor (lbs to metric tons)**

1 MT =	2204.62	lb
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**Global Warming Potential (to calculate CO<sub>2</sub>e)**

CO <sub>2</sub> =	1
CH <sub>4</sub> =	21
N <sub>2</sub> O =	310

**Notes:**

Emission factors from CalEEMod User Guide, Appendix D, Table 1.2, Electrical Utility Emissions Factors of Greenhouse Gases, for Pacific Gas & Electric.  
 kWh = kilowatt-hour; MWh = megawatt-hour; MT = metric tons  
 CO<sub>2</sub> = carbon dioxide; CH<sub>4</sub> = methane; N<sub>2</sub>O = nitrous oxide; CO<sub>2</sub>e = carbon dioxide equivalents



CEMEX Construction Materials Pacific, LLC.  
 Eliot Quarry SMP-23 Reclamation Plan Amendment Project  
 Air and Greenhouse Gas Emissions Study

**APPENDIX B-7: BASELINE CALEEMOD MODELING ASSUMPTIONS**

**Current Mining Equipment Utilization**

Equipment	Qty	Typical Hours/Day Run	Model (or equivalent)	HP	Tier
<b>Mining Activity</b>					
Dozer	1	8hrs/5days	Cat D7	240	2
Dozer	1	8hrs/5days	Cat D6	202	4-final
Excavator	1	8hrs/5days	Cat 349	425	3
Excavator	1	8hrs/5days	Hyundai	Default used	3
Motor Grader	1	8hrs/5days	Cat 12G	179	
Water Truck	1	8hrs/5days	International	Default used	
Off-Road Haul Trucks	3	8hrs/5days	Volvo A40	476	3
<b>Sales / Load-Out / Plant Support</b>					
Loader	3	12hrs/5days	Cat 980K	386	3
Loader	1	12hrs/5days	Cat 982M	392	4-final
Bobcat	1	8hrs/5days	Cat 246B	74	1
Haul Truck	1	12hrs/5days	John Deere 410E	443	4-final
Haul Truck	1	8hrs/5days	Cat 740	511	3

**Notes:**

Equipment utilization and tier per CEMEX (personal communication with Grantt Franco, January 15, 2019).

Horsepower references per manufacturer where model number known:

For Cat, horsepower for listed equipment based on Cat Handbook, Ed. 48.

For Volvo A40, horsepower per Volvo technical specification for A40G.

For John Deere 410E, horsepower per John Deere technical specification for 410E.



Eliot Quarry Baseline Mining Operations - Alameda County, Summer

**Eliot Quarry Baseline Mining Operations**  
**Alameda County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	920.00	User Defined Unit	920.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	63
<b>Climate Zone</b>	4			<b>Operational Year</b>	2021
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - Baseline equipment and utilization per CEMEX.

Land Use - Project acreage per Revised Reclamation Plan.

Construction Phase - Baseline mining activity includes concurrent slope reclamation.

Off-road Equipment - Baseline mining activity equipment utilization per CEMEX.

Off-road Equipment - Baseline sales and load-out equipment activity per CEMEX.

Grading - Baseline mining activity occurring in Lakes J and B. Baseline Sales and Load Out stockpile areas (25 acres) subject to earthmoving.

Trips and VMT -

Energy Use -

Construction Off-road Equipment Mitigation - Water truck used for dust control. Equipment tier assumes lowest reported by CEMEX for that equipment type.

Eliot Quarry Baseline Mining Operations - Alameda County, Summer

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 1
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	1,550.00	261.00
tblConstructionPhase	NumDays	1,550.00	261.00
tblConstructionPhase	PhaseEndDate	12/9/2024	12/31/2019
tblGrading	AcresOfGrading	130.50	50.00
tblGrading	AcresOfGrading	0.00	25.00
tblLandUse	LotAcreage	0.00	920.00
tblOffRoadEquipment	HorsePower	158.00	425.00
tblOffRoadEquipment	HorsePower	247.00	240.00
tblOffRoadEquipment	HorsePower	187.00	179.00
tblOffRoadEquipment	HorsePower	247.00	202.00
tblOffRoadEquipment	HorsePower	402.00	476.00
tblOffRoadEquipment	HorsePower	203.00	386.00
tblOffRoadEquipment	HorsePower	203.00	392.00
tblOffRoadEquipment	HorsePower	65.00	74.00
tblOffRoadEquipment	HorsePower	402.00	443.00
tblOffRoadEquipment	HorsePower	402.00	511.00
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Excavators



Eliot Quarry Baseline Mining Operations - Alameda County, Summer

tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00

**2.0 Emissions Summary**

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Eliot Quarry Baseline Mining Operations - Alameda County, Summer

**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	8.8100e-003	8.7000e-004	0.0943	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2013	0.2013	5.3000e-004		0.2147
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
<b>Total</b>	<b>8.8100e-003</b>	<b>8.7000e-004</b>	<b>0.0943</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.4000e-004</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>3.4000e-004</b>	<b>3.4000e-004</b>		<b>0.2013</b>	<b>0.2013</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>0.2147</b>

**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	8.8100e-003	8.7000e-004	0.0943	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2013	0.2013	5.3000e-004		0.2147
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
<b>Total</b>	<b>8.8100e-003</b>	<b>8.7000e-004</b>	<b>0.0943</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.4000e-004</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>3.4000e-004</b>	<b>3.4000e-004</b>		<b>0.2013</b>	<b>0.2013</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>0.2147</b>

Eliot Quarry Baseline Mining Operations - Alameda County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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	Baseline Mining Activity	Grading	1/1/2019	12/31/2019	5	261	Baseline mining activity
2	Baseline Sales and Load Out	Grading	1/1/2019	12/31/2019	5	261	Baseline sales and load out

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; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

Eliot Quarry Baseline Mining Operations - Alameda County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Baseline Sales and Load Out	Excavators	0	8.00	158	0.38
Baseline Sales and Load Out	Graders	0	8.00	187	0.41
Baseline Sales and Load Out	Rubber Tired Dozers	0	8.00	247	0.40
Baseline Mining Activity	Excavators	1	8.00	425	0.38
Baseline Sales and Load Out	Scrapers	0	8.00	367	0.48
Baseline Sales and Load Out	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Baseline Mining Activity	Rubber Tired Dozers	1	8.00	202	0.40
Baseline Mining Activity	Excavators	1	8.00	158	0.38
Baseline Mining Activity	Off-Highway Trucks	1	8.00	402	0.38
Baseline Mining Activity	Off-Highway Trucks	3	8.00	476	0.38
Baseline Mining Activity	Rubber Tired Dozers	1	8.00	240	0.40
Baseline Sales and Load Out	Rubber Tired Loaders	1	8.00	386	0.36
Baseline Mining Activity	Graders	1	8.00	179	0.41
Baseline Mining Activity	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Baseline Sales and Load Out	Rubber Tired Loaders	1	8.00	392	0.36
Baseline Sales and Load Out	Skid Steer Loaders	1	8.00	74	0.37
Baseline Sales and Load Out	Off-Highway Trucks	1	8.00	443	0.38
Baseline Mining Activity	Scrapers	0	0.00	367	0.48
Baseline Sales and Load Out	Off-Highway Trucks	1	8.00	511	0.38
Baseline Sales and Load Out	Off-Highway Trucks	0	0.00	402	0.38

**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
Baseline Sales and Load Out	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Baseline Mining Activity	9	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Eliot Quarry Baseline Mining Operations - Alameda County, Summer

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Baseline Mining Activity - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2253	0.0000	6.2253	3.3322	0.0000	3.3322			0.0000			0.0000
Off-Road	6.4503	68.3852	34.0549	0.1008		2.7398	2.7398		2.5206	2.5206		9,977.3367	9,977.3367	3.1567		10,056.2548
<b>Total</b>	<b>6.4503</b>	<b>68.3852</b>	<b>34.0549</b>	<b>0.1008</b>	<b>6.2253</b>	<b>2.7398</b>	<b>8.9650</b>	<b>3.3322</b>	<b>2.5206</b>	<b>5.8528</b>		<b>9,977.3367</b>	<b>9,977.3367</b>	<b>3.1567</b>		<b>10,056.2548</b>

Eliot Quarry Baseline Mining Operations - Alameda County, Summer

**3.2 Baseline Mining Activity - 2019**

**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	0.0920	0.0586	0.7291	1.9900e-003	0.1889	1.3000e-003	0.1902	0.0501	1.1900e-003	0.0513		198.2575	198.2575	5.5900e-003		198.3974
<b>Total</b>	<b>0.0920</b>	<b>0.0586</b>	<b>0.7291</b>	<b>1.9900e-003</b>	<b>0.1889</b>	<b>1.3000e-003</b>	<b>0.1902</b>	<b>0.0501</b>	<b>1.1900e-003</b>	<b>0.0513</b>		<b>198.2575</b>	<b>198.2575</b>	<b>5.5900e-003</b>		<b>198.3974</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8014	0.0000	2.8014	1.4995	0.0000	1.4995			0.0000			0.0000
Off-Road	2.7807	56.7579	53.0789	0.1008		1.9251	1.9251		1.9089	1.9089	0.0000	9,977.3367	9,977.3367	3.1567		10,056.2548
<b>Total</b>	<b>2.7807</b>	<b>56.7579</b>	<b>53.0789</b>	<b>0.1008</b>	<b>2.8014</b>	<b>1.9251</b>	<b>4.7265</b>	<b>1.4995</b>	<b>1.9089</b>	<b>3.4084</b>	<b>0.0000</b>	<b>9,977.3367</b>	<b>9,977.3367</b>	<b>3.1567</b>		<b>10,056.2548</b>

Eliot Quarry Baseline Mining Operations - Alameda County, Summer

**3.2 Baseline Mining Activity - 2019**

**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	0.0920	0.0586	0.7291	1.9900e-003	0.1889	1.3000e-003	0.1902	0.0501	1.1900e-003	0.0513		198.2575	198.2575	5.5900e-003		198.3974
<b>Total</b>	<b>0.0920</b>	<b>0.0586</b>	<b>0.7291</b>	<b>1.9900e-003</b>	<b>0.1889</b>	<b>1.3000e-003</b>	<b>0.1902</b>	<b>0.0501</b>	<b>1.1900e-003</b>	<b>0.0513</b>		<b>198.2575</b>	<b>198.2575</b>	<b>5.5900e-003</b>		<b>198.3974</b>

**3.3 Baseline Sales and Load Out - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1016	0.0000	0.1016	0.0110	0.0000	0.0110			0.0000			0.0000
Off-Road	3.5084	36.8168	21.4981	0.0574		1.3936	1.3936		1.2821	1.2821		5,685.4251	5,685.4251	1.7988		5,730.3953
<b>Total</b>	<b>3.5084</b>	<b>36.8168</b>	<b>21.4981</b>	<b>0.0574</b>	<b>0.1016</b>	<b>1.3936</b>	<b>1.4951</b>	<b>0.0110</b>	<b>1.2821</b>	<b>1.2930</b>		<b>5,685.4251</b>	<b>5,685.4251</b>	<b>1.7988</b>		<b>5,730.3953</b>



Eliot Quarry Baseline Mining Operations - Alameda County, Summer

**3.3 Baseline Sales and Load Out - 2019**

**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	0.0520	0.0331	0.4121	1.1300e-003	0.1068	7.3000e-004	0.1075	0.0283	6.8000e-004	0.0290		112.0586	112.0586	3.1600e-003		112.1376
<b>Total</b>	<b>0.0520</b>	<b>0.0331</b>	<b>0.4121</b>	<b>1.1300e-003</b>	<b>0.1068</b>	<b>7.3000e-004</b>	<b>0.1075</b>	<b>0.0283</b>	<b>6.8000e-004</b>	<b>0.0290</b>		<b>112.0586</b>	<b>112.0586</b>	<b>3.1600e-003</b>		<b>112.1376</b>

**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					0.0457	0.0000	0.0457	4.9400e-003	0.0000	4.9400e-003			0.0000			0.0000
Off-Road	2.8521	34.2314	28.4759	0.0574		1.4354	1.4354		1.3869	1.3869	0.0000	5,685.4251	5,685.4251	1.7988		5,730.3953
<b>Total</b>	<b>2.8521</b>	<b>34.2314</b>	<b>28.4759</b>	<b>0.0574</b>	<b>0.0457</b>	<b>1.4354</b>	<b>1.4811</b>	<b>4.9400e-003</b>	<b>1.3869</b>	<b>1.3919</b>	<b>0.0000</b>	<b>5,685.4251</b>	<b>5,685.4251</b>	<b>1.7988</b>		<b>5,730.3953</b>

Eliot Quarry Baseline Mining Operations - Alameda County, Summer

**3.3 Baseline Sales and Load Out - 2019**

**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	0.0520	0.0331	0.4121	1.1300e-003	0.1068	7.3000e-004	0.1075	0.0283	6.8000e-004	0.0290		112.0586	112.0586	3.1600e-003		112.1376
<b>Total</b>	<b>0.0520</b>	<b>0.0331</b>	<b>0.4121</b>	<b>1.1300e-003</b>	<b>0.1068</b>	<b>7.3000e-004</b>	<b>0.1075</b>	<b>0.0283</b>	<b>6.8000e-004</b>	<b>0.0290</b>		<b>112.0586</b>	<b>112.0586</b>	<b>3.1600e-003</b>		<b>112.1376</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Eliot Quarry Baseline Mining Operations - Alameda County, Summer

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.559358	0.040058	0.190549	0.109335	0.016678	0.005213	0.023344	0.044042	0.002152	0.002669	0.005545	0.000316	0.000739

5.0 Energy Detail

Historical Energy Use: N

Eliot Quarry Baseline Mining Operations - Alameda County, Summer

**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	
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	

Eliot Quarry Baseline Mining Operations - Alameda County, Summer

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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	8.8100e-003	8.7000e-004	0.0943	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2013	0.2013	5.3000e-004		0.2147
Unmitigated	8.8100e-003	8.7000e-004	0.0943	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2013	0.2013	5.3000e-004		0.2147

Eliot Quarry Baseline Mining Operations - Alameda County, Summer

**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	8.8100e-003	8.7000e-004	0.0943	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2013	0.2013	5.3000e-004		0.2147
<b>Total</b>	<b>8.8100e-003</b>	<b>8.7000e-004</b>	<b>0.0943</b>	<b>1.0000e-005</b>		<b>3.4000e-004</b>	<b>3.4000e-004</b>		<b>3.4000e-004</b>	<b>3.4000e-004</b>		<b>0.2013</b>	<b>0.2013</b>	<b>5.3000e-004</b>		<b>0.2147</b>

**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	8.8100e-003	8.7000e-004	0.0943	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2013	0.2013	5.3000e-004		0.2147
<b>Total</b>	<b>8.8100e-003</b>	<b>8.7000e-004</b>	<b>0.0943</b>	<b>1.0000e-005</b>		<b>3.4000e-004</b>	<b>3.4000e-004</b>		<b>3.4000e-004</b>	<b>3.4000e-004</b>		<b>0.2013</b>	<b>0.2013</b>	<b>5.3000e-004</b>		<b>0.2147</b>

**7.0 Water Detail**

## Eliot Quarry Baseline Mining Operations - Alameda County, Summer

**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment****Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

Eliot Quarry Baseline Mining Operations - Alameda County, Winter

**Eliot Quarry Baseline Mining Operations  
Alameda County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	920.00	User Defined Unit	920.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	63
<b>Climate Zone</b>	4			<b>Operational Year</b>	2021
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - Baseline equipment and utilization per CEMEX.

Land Use - Project acreage per Revised Reclamation Plan.

Construction Phase - Baseline mining activity includes concurrent slope reclamation.

Off-road Equipment - Baseline mining activity equipment utilization per CEMEX.

Off-road Equipment - Baseline sales and load-out equipment activity per CEMEX.

Grading - Baseline mining activity occurring in Lakes J and B. Baseline Sales and Load Out stockpile areas (25 acres) subject to earthmoving.

Trips and VMT -

Energy Use -

Construction Off-road Equipment Mitigation - Water truck used for dust control. Equipment tier assumes lowest reported by CEMEX for that equipment type.



Eliot Quarry Baseline Mining Operations - Alameda County, Winter

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 1
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	1,550.00	261.00
tblConstructionPhase	NumDays	1,550.00	261.00
tblConstructionPhase	PhaseEndDate	12/9/2024	12/31/2019
tblGrading	AcresOfGrading	130.50	50.00
tblGrading	AcresOfGrading	0.00	25.00
tblLandUse	LotAcreage	0.00	920.00
tblOffRoadEquipment	HorsePower	158.00	425.00
tblOffRoadEquipment	HorsePower	247.00	240.00
tblOffRoadEquipment	HorsePower	187.00	179.00
tblOffRoadEquipment	HorsePower	247.00	202.00
tblOffRoadEquipment	HorsePower	402.00	476.00
tblOffRoadEquipment	HorsePower	203.00	386.00
tblOffRoadEquipment	HorsePower	203.00	392.00
tblOffRoadEquipment	HorsePower	65.00	74.00
tblOffRoadEquipment	HorsePower	402.00	443.00
tblOffRoadEquipment	HorsePower	402.00	511.00
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Excavators

Eliot Quarry Baseline Mining Operations - Alameda County, Winter

tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00

**2.0 Emissions Summary**

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Eliot Quarry Baseline Mining Operations - Alameda County, Winter

**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	8.8100e-003	8.7000e-004	0.0943	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2013	0.2013	5.3000e-004		0.2147
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
<b>Total</b>	<b>8.8100e-003</b>	<b>8.7000e-004</b>	<b>0.0943</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.4000e-004</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>3.4000e-004</b>	<b>3.4000e-004</b>		<b>0.2013</b>	<b>0.2013</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>0.2147</b>

**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	8.8100e-003	8.7000e-004	0.0943	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2013	0.2013	5.3000e-004		0.2147
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
<b>Total</b>	<b>8.8100e-003</b>	<b>8.7000e-004</b>	<b>0.0943</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.4000e-004</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>3.4000e-004</b>	<b>3.4000e-004</b>		<b>0.2013</b>	<b>0.2013</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>0.2147</b>

Eliot Quarry Baseline Mining Operations - Alameda County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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	Baseline Mining Activity	Grading	1/1/2019	12/31/2019	5	261	Baseline mining activity
2	Baseline Sales and Load Out	Grading	1/1/2019	12/31/2019	5	261	Baseline sales and load out

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; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

Eliot Quarry Baseline Mining Operations - Alameda County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Baseline Sales and Load Out	Excavators	0	8.00	158	0.38
Baseline Sales and Load Out	Graders	0	8.00	187	0.41
Baseline Sales and Load Out	Rubber Tired Dozers	0	8.00	247	0.40
Baseline Mining Activity	Excavators	1	8.00	425	0.38
Baseline Sales and Load Out	Scrapers	0	8.00	367	0.48
Baseline Sales and Load Out	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Baseline Mining Activity	Rubber Tired Dozers	1	8.00	202	0.40
Baseline Mining Activity	Excavators	1	8.00	158	0.38
Baseline Mining Activity	Off-Highway Trucks	1	8.00	402	0.38
Baseline Mining Activity	Off-Highway Trucks	3	8.00	476	0.38
Baseline Mining Activity	Rubber Tired Dozers	1	8.00	240	0.40
Baseline Sales and Load Out	Rubber Tired Loaders	1	8.00	386	0.36
Baseline Mining Activity	Graders	1	8.00	179	0.41
Baseline Mining Activity	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Baseline Sales and Load Out	Rubber Tired Loaders	1	8.00	392	0.36
Baseline Sales and Load Out	Skid Steer Loaders	1	8.00	74	0.37
Baseline Sales and Load Out	Off-Highway Trucks	1	8.00	443	0.38
Baseline Mining Activity	Scrapers	0	0.00	367	0.48
Baseline Sales and Load Out	Off-Highway Trucks	1	8.00	511	0.38
Baseline Sales and Load Out	Off-Highway Trucks	0	0.00	402	0.38

**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
Baseline Sales and Load Out	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Baseline Mining Activity	9	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Eliot Quarry Baseline Mining Operations - Alameda County, Winter

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Baseline Mining Activity - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2253	0.0000	6.2253	3.3322	0.0000	3.3322			0.0000			0.0000
Off-Road	6.4503	68.3852	34.0549	0.1008		2.7398	2.7398		2.5206	2.5206	9,977.3367	9,977.3367	3.1567			10,056.2548
<b>Total</b>	<b>6.4503</b>	<b>68.3852</b>	<b>34.0549</b>	<b>0.1008</b>	<b>6.2253</b>	<b>2.7398</b>	<b>8.9650</b>	<b>3.3322</b>	<b>2.5206</b>	<b>5.8528</b>		<b>9,977.3367</b>	<b>9,977.3367</b>	<b>3.1567</b>		<b>10,056.2548</b>

Eliot Quarry Baseline Mining Operations - Alameda County, Winter

**3.2 Baseline Mining Activity - 2019**

**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	0.0961	0.0729	0.6917	1.8300e-003	0.1889	1.3000e-003	0.1902	0.0501	1.1900e-003	0.0513		182.4478	182.4478	5.2700e-003		182.5796
<b>Total</b>	<b>0.0961</b>	<b>0.0729</b>	<b>0.6917</b>	<b>1.8300e-003</b>	<b>0.1889</b>	<b>1.3000e-003</b>	<b>0.1902</b>	<b>0.0501</b>	<b>1.1900e-003</b>	<b>0.0513</b>		<b>182.4478</b>	<b>182.4478</b>	<b>5.2700e-003</b>		<b>182.5796</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8014	0.0000	2.8014	1.4995	0.0000	1.4995			0.0000			0.0000
Off-Road	2.7807	56.7579	53.0789	0.1008		1.9251	1.9251		1.9089	1.9089	0.0000	9,977.3367	9,977.3367	3.1567		10,056.2548
<b>Total</b>	<b>2.7807</b>	<b>56.7579</b>	<b>53.0789</b>	<b>0.1008</b>	<b>2.8014</b>	<b>1.9251</b>	<b>4.7265</b>	<b>1.4995</b>	<b>1.9089</b>	<b>3.4084</b>	<b>0.0000</b>	<b>9,977.3367</b>	<b>9,977.3367</b>	<b>3.1567</b>		<b>10,056.2548</b>



Eliot Quarry Baseline Mining Operations - Alameda County, Winter

**3.2 Baseline Mining Activity - 2019**

**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	0.0961	0.0729	0.6917	1.8300e-003	0.1889	1.3000e-003	0.1902	0.0501	1.1900e-003	0.0513		182.4478	182.4478	5.2700e-003		182.5796
<b>Total</b>	<b>0.0961</b>	<b>0.0729</b>	<b>0.6917</b>	<b>1.8300e-003</b>	<b>0.1889</b>	<b>1.3000e-003</b>	<b>0.1902</b>	<b>0.0501</b>	<b>1.1900e-003</b>	<b>0.0513</b>		<b>182.4478</b>	<b>182.4478</b>	<b>5.2700e-003</b>		<b>182.5796</b>

**3.3 Baseline Sales and Load Out - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1016	0.0000	0.1016	0.0110	0.0000	0.0110			0.0000			0.0000
Off-Road	3.5084	36.8168	21.4981	0.0574		1.3936	1.3936		1.2821	1.2821		5,685.4251	5,685.4251	1.7988		5,730.3953
<b>Total</b>	<b>3.5084</b>	<b>36.8168</b>	<b>21.4981</b>	<b>0.0574</b>	<b>0.1016</b>	<b>1.3936</b>	<b>1.4951</b>	<b>0.0110</b>	<b>1.2821</b>	<b>1.2930</b>		<b>5,685.4251</b>	<b>5,685.4251</b>	<b>1.7988</b>		<b>5,730.3953</b>

Eliot Quarry Baseline Mining Operations - Alameda County, Winter

**3.3 Baseline Sales and Load Out - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0543	0.0412	0.3910	1.0400e-003	0.1068	7.3000e-004	0.1075	0.0283	6.8000e-004	0.0290		103.1226	103.1226	2.9800e-003		103.1972
<b>Total</b>	<b>0.0543</b>	<b>0.0412</b>	<b>0.3910</b>	<b>1.0400e-003</b>	<b>0.1068</b>	<b>7.3000e-004</b>	<b>0.1075</b>	<b>0.0283</b>	<b>6.8000e-004</b>	<b>0.0290</b>		<b>103.1226</b>	<b>103.1226</b>	<b>2.9800e-003</b>		<b>103.1972</b>

**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					0.0457	0.0000	0.0457	4.9400e-003	0.0000	4.9400e-003			0.0000			0.0000
Off-Road	2.8521	34.2314	28.4759	0.0574		1.4354	1.4354		1.3869	1.3869	0.0000	5,685.4251	5,685.4251	1.7988		5,730.3953
<b>Total</b>	<b>2.8521</b>	<b>34.2314</b>	<b>28.4759</b>	<b>0.0574</b>	<b>0.0457</b>	<b>1.4354</b>	<b>1.4811</b>	<b>4.9400e-003</b>	<b>1.3869</b>	<b>1.3919</b>	<b>0.0000</b>	<b>5,685.4251</b>	<b>5,685.4251</b>	<b>1.7988</b>		<b>5,730.3953</b>

Eliot Quarry Baseline Mining Operations - Alameda County, Winter

**3.3 Baseline Sales and Load Out - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0543	0.0412	0.3910	1.0400e-003	0.1068	7.3000e-004	0.1075	0.0283	6.8000e-004	0.0290		103.1226	103.1226	2.9800e-003		103.1972
<b>Total</b>	<b>0.0543</b>	<b>0.0412</b>	<b>0.3910</b>	<b>1.0400e-003</b>	<b>0.1068</b>	<b>7.3000e-004</b>	<b>0.1075</b>	<b>0.0283</b>	<b>6.8000e-004</b>	<b>0.0290</b>		<b>103.1226</b>	<b>103.1226</b>	<b>2.9800e-003</b>		<b>103.1972</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Eliot Quarry Baseline Mining Operations - Alameda County, Winter

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.559358	0.040058	0.190549	0.109335	0.016678	0.005213	0.023344	0.044042	0.002152	0.002669	0.005545	0.000316	0.000739

5.0 Energy Detail

Historical Energy Use: N

Eliot Quarry Baseline Mining Operations - Alameda County, Winter

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Eliot Quarry Baseline Mining Operations - Alameda County, Winter

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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	8.8100e-003	8.7000e-004	0.0943	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2013	0.2013	5.3000e-004		0.2147
Unmitigated	8.8100e-003	8.7000e-004	0.0943	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2013	0.2013	5.3000e-004		0.2147

Eliot Quarry Baseline Mining Operations - Alameda County, Winter

**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	8.8100e-003	8.7000e-004	0.0943	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2013	0.2013	5.3000e-004		0.2147
<b>Total</b>	<b>8.8100e-003</b>	<b>8.7000e-004</b>	<b>0.0943</b>	<b>1.0000e-005</b>		<b>3.4000e-004</b>	<b>3.4000e-004</b>		<b>3.4000e-004</b>	<b>3.4000e-004</b>		<b>0.2013</b>	<b>0.2013</b>	<b>5.3000e-004</b>		<b>0.2147</b>

**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	8.8100e-003	8.7000e-004	0.0943	1.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		0.2013	0.2013	5.3000e-004		0.2147
<b>Total</b>	<b>8.8100e-003</b>	<b>8.7000e-004</b>	<b>0.0943</b>	<b>1.0000e-005</b>		<b>3.4000e-004</b>	<b>3.4000e-004</b>		<b>3.4000e-004</b>	<b>3.4000e-004</b>		<b>0.2013</b>	<b>0.2013</b>	<b>5.3000e-004</b>		<b>0.2147</b>

**7.0 Water Detail**

Eliot Quarry Baseline Mining Operations - Alameda County, Winter

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Eliot Quarry Baseline Mining Operations - Alameda County, Annual

**Eliot Quarry Baseline Mining Operations  
Alameda County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	920.00	User Defined Unit	920.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	63
<b>Climate Zone</b>	4			<b>Operational Year</b>	2021
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - Baseline equipment and utilization per CEMEX.

Land Use - Project acreage per Revised Reclamation Plan.

Construction Phase - Baseline mining activity includes concurrent slope reclamation.

Off-road Equipment - Baseline mining activity equipment utilization per CEMEX.

Off-road Equipment - Baseline sales and load-out equipment activity per CEMEX.

Grading - Baseline mining activity occurring in Lakes J and B. Baseline Sales and Load Out stockpile areas (25 acres) subject to earthmoving.

Trips and VMT -

Energy Use -

Construction Off-road Equipment Mitigation - Water truck used for dust control. Equipment tier assumes lowest reported by CEMEX for that equipment type.

Eliot Quarry Baseline Mining Operations - Alameda County, Annual

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 1
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	1,550.00	261.00
tblConstructionPhase	NumDays	1,550.00	261.00
tblConstructionPhase	PhaseEndDate	12/9/2024	12/31/2019
tblGrading	AcresOfGrading	130.50	50.00
tblGrading	AcresOfGrading	0.00	25.00
tblLandUse	LotAcreage	0.00	920.00
tblOffRoadEquipment	HorsePower	158.00	425.00
tblOffRoadEquipment	HorsePower	247.00	240.00
tblOffRoadEquipment	HorsePower	187.00	179.00
tblOffRoadEquipment	HorsePower	247.00	202.00
tblOffRoadEquipment	HorsePower	402.00	476.00
tblOffRoadEquipment	HorsePower	203.00	386.00
tblOffRoadEquipment	HorsePower	203.00	392.00
tblOffRoadEquipment	HorsePower	65.00	74.00
tblOffRoadEquipment	HorsePower	402.00	443.00
tblOffRoadEquipment	HorsePower	402.00	511.00
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Excavators

Eliot Quarry Baseline Mining Operations - Alameda County, Annual

tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00

**2.0 Emissions Summary**

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Eliot Quarry Baseline Mining Operations - Alameda County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2019	3-31-2019	3.7101	3.1142
2	4-1-2019	6-30-2019	3.7504	3.1479
3	7-1-2019	9-30-2019	3.7916	3.1825
		Highest	3.7916	3.1825

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	7.9000e-004	8.0000e-005	8.4900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0164	0.0164	4.0000e-005	0.0000	0.0175
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
<b>Total</b>	<b>7.9000e-004</b>	<b>8.0000e-005</b>	<b>8.4900e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0164</b>	<b>0.0164</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0175</b>

Eliot Quarry Baseline Mining Operations - Alameda County, Annual

**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	7.9000e-004	8.0000e-005	8.4900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0164	0.0164	4.0000e-005	0.0000	0.0175
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
<b>Total</b>	<b>7.9000e-004</b>	<b>8.0000e-005</b>	<b>8.4900e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0164</b>	<b>0.0164</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0175</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Baseline Mining Activity	Grading	1/1/2019	12/31/2019	5	261	Baseline mining activity
2	Baseline Sales and Load Out	Grading	1/1/2019	12/31/2019	5	261	Baseline sales and load out

Eliot Quarry Baseline Mining Operations - Alameda County, Annual

**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; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Eliot Quarry Baseline Mining Operations - Alameda County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Baseline Sales and Load Out	Excavators	0	8.00	158	0.38
Baseline Sales and Load Out	Graders	0	8.00	187	0.41
Baseline Sales and Load Out	Rubber Tired Dozers	0	8.00	247	0.40
Baseline Mining Activity	Excavators	1	8.00	425	0.38
Baseline Sales and Load Out	Scrapers	0	8.00	367	0.48
Baseline Sales and Load Out	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Baseline Mining Activity	Rubber Tired Dozers	1	8.00	202	0.40
Baseline Mining Activity	Excavators	1	8.00	158	0.38
Baseline Mining Activity	Off-Highway Trucks	1	8.00	402	0.38
Baseline Mining Activity	Off-Highway Trucks	3	8.00	476	0.38
Baseline Mining Activity	Rubber Tired Dozers	1	8.00	240	0.40
Baseline Sales and Load Out	Rubber Tired Loaders	1	8.00	386	0.36
Baseline Mining Activity	Graders	1	8.00	179	0.41
Baseline Mining Activity	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Baseline Sales and Load Out	Rubber Tired Loaders	1	8.00	392	0.36
Baseline Sales and Load Out	Skid Steer Loaders	1	8.00	74	0.37
Baseline Sales and Load Out	Off-Highway Trucks	1	8.00	443	0.38
Baseline Mining Activity	Scrapers	0	0.00	367	0.48
Baseline Sales and Load Out	Off-Highway Trucks	1	8.00	511	0.38
Baseline Sales and Load Out	Off-Highway Trucks	0	0.00	402	0.38

**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
Baseline Sales and Load Out	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Baseline Mining Activity	9	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT



Eliot Quarry Baseline Mining Operations - Alameda County, Annual

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Baseline Mining Activity - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.8124	0.0000	0.8124	0.4349	0.0000	0.4349	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.8418	8.9243	4.4442	0.0132		0.3575	0.3575		0.3289	0.3289	0.0000	1,181.193 0	1,181.193 0	0.3737	0.0000	1,190.536 0
<b>Total</b>	<b>0.8418</b>	<b>8.9243</b>	<b>4.4442</b>	<b>0.0132</b>	<b>0.8124</b>	<b>0.3575</b>	<b>1.1699</b>	<b>0.4349</b>	<b>0.3289</b>	<b>0.7638</b>	<b>0.0000</b>	<b>1,181.193 0</b>	<b>1,181.193 0</b>	<b>0.3737</b>	<b>0.0000</b>	<b>1,190.536 0</b>

Eliot Quarry Baseline Mining Operations - Alameda County, Annual

**3.2 Baseline Mining Activity - 2019**

**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	0.0114	8.6700e-003	0.0875	2.4000e-004	0.0237	1.7000e-004	0.0239	6.3100e-003	1.6000e-004	6.4700e-003	0.0000	21.7696	21.7696	6.2000e-004	0.0000	21.7852
<b>Total</b>	<b>0.0114</b>	<b>8.6700e-003</b>	<b>0.0875</b>	<b>2.4000e-004</b>	<b>0.0237</b>	<b>1.7000e-004</b>	<b>0.0239</b>	<b>6.3100e-003</b>	<b>1.6000e-004</b>	<b>6.4700e-003</b>	<b>0.0000</b>	<b>21.7696</b>	<b>21.7696</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>21.7852</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3656	0.0000	0.3656	0.1957	0.0000	0.1957	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3629	7.4069	6.9268	0.0132		0.2512	0.2512		0.2491	0.2491	0.0000	1,181.1916	1,181.1916	0.3737	0.0000	1,190.5345
<b>Total</b>	<b>0.3629</b>	<b>7.4069</b>	<b>6.9268</b>	<b>0.0132</b>	<b>0.3656</b>	<b>0.2512</b>	<b>0.6168</b>	<b>0.1957</b>	<b>0.2491</b>	<b>0.4448</b>	<b>0.0000</b>	<b>1,181.1916</b>	<b>1,181.1916</b>	<b>0.3737</b>	<b>0.0000</b>	<b>1,190.5345</b>

Eliot Quarry Baseline Mining Operations - Alameda County, Annual

**3.2 Baseline Mining Activity - 2019**

**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	0.0114	8.6700e-003	0.0875	2.4000e-004	0.0237	1.7000e-004	0.0239	6.3100e-003	1.6000e-004	6.4700e-003	0.0000	21.7696	21.7696	6.2000e-004	0.0000	21.7852
<b>Total</b>	<b>0.0114</b>	<b>8.6700e-003</b>	<b>0.0875</b>	<b>2.4000e-004</b>	<b>0.0237</b>	<b>1.7000e-004</b>	<b>0.0239</b>	<b>6.3100e-003</b>	<b>1.6000e-004</b>	<b>6.4700e-003</b>	<b>0.0000</b>	<b>21.7696</b>	<b>21.7696</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>21.7852</b>

**3.3 Baseline Sales and Load Out - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0133	0.0000	0.0133	1.4300e-003	0.0000	1.4300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4578	4.8046	2.8055	7.4900e-003		0.1819	0.1819		0.1673	0.1673	0.0000	673.0839	673.0839	0.2130	0.0000	678.4078
<b>Total</b>	<b>0.4578</b>	<b>4.8046</b>	<b>2.8055</b>	<b>7.4900e-003</b>	<b>0.0133</b>	<b>0.1819</b>	<b>0.1951</b>	<b>1.4300e-003</b>	<b>0.1673</b>	<b>0.1687</b>	<b>0.0000</b>	<b>673.0839</b>	<b>673.0839</b>	<b>0.2130</b>	<b>0.0000</b>	<b>678.4078</b>

Eliot Quarry Baseline Mining Operations - Alameda County, Annual

**3.3 Baseline Sales and Load Out - 2019**

**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	6.4200e-003	4.9000e-003	0.0495	1.4000e-004	0.0134	1.0000e-004	0.0135	3.5700e-003	9.0000e-005	3.6600e-003	0.0000	12.3046	12.3046	3.5000e-004	0.0000	12.3134
<b>Total</b>	<b>6.4200e-003</b>	<b>4.9000e-003</b>	<b>0.0495</b>	<b>1.4000e-004</b>	<b>0.0134</b>	<b>1.0000e-004</b>	<b>0.0135</b>	<b>3.5700e-003</b>	<b>9.0000e-005</b>	<b>3.6600e-003</b>	<b>0.0000</b>	<b>12.3046</b>	<b>12.3046</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>12.3134</b>

**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					5.9700e-003	0.0000	5.9700e-003	6.4000e-004	0.0000	6.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3722	4.4672	3.7161	7.4900e-003		0.1873	0.1873		0.1810	0.1810	0.0000	673.0831	673.0831	0.2130	0.0000	678.4070
<b>Total</b>	<b>0.3722</b>	<b>4.4672</b>	<b>3.7161</b>	<b>7.4900e-003</b>	<b>5.9700e-003</b>	<b>0.1873</b>	<b>0.1933</b>	<b>6.4000e-004</b>	<b>0.1810</b>	<b>0.1816</b>	<b>0.0000</b>	<b>673.0831</b>	<b>673.0831</b>	<b>0.2130</b>	<b>0.0000</b>	<b>678.4070</b>

Eliot Quarry Baseline Mining Operations - Alameda County, Annual

**3.3 Baseline Sales and Load Out - 2019**

**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	6.4200e-003	4.9000e-003	0.0495	1.4000e-004	0.0134	1.0000e-004	0.0135	3.5700e-003	9.0000e-005	3.6600e-003	0.0000	12.3046	12.3046	3.5000e-004	0.0000	12.3134
<b>Total</b>	<b>6.4200e-003</b>	<b>4.9000e-003</b>	<b>0.0495</b>	<b>1.4000e-004</b>	<b>0.0134</b>	<b>1.0000e-004</b>	<b>0.0135</b>	<b>3.5700e-003</b>	<b>9.0000e-005</b>	<b>3.6600e-003</b>	<b>0.0000</b>	<b>12.3046</b>	<b>12.3046</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>12.3134</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Eliot Quarry Baseline Mining Operations - Alameda County, Annual

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.559358	0.040058	0.190549	0.109335	0.016678	0.005213	0.023344	0.044042	0.002152	0.002669	0.005545	0.000316	0.000739

5.0 Energy Detail

Historical Energy Use: N



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**5.2 Energy by Land Use - Natural Gas**

**Mitigated**

	Natural Gas 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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



Eliot Quarry Baseline Mining Operations - Alameda County, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	7.9000e-004	8.0000e-005	8.4900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0164	0.0164	4.0000e-005	0.0000	0.0175
Unmitigated	7.9000e-004	8.0000e-005	8.4900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0164	0.0164	4.0000e-005	0.0000	0.0175

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**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					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	7.9000e-004	8.0000e-005	8.4900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0164	0.0164	4.0000e-005	0.0000	0.0175
<b>Total</b>	<b>7.9000e-004</b>	<b>8.0000e-005</b>	<b>8.4900e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0164</b>	<b>0.0164</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0175</b>

**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	7.9000e-004	8.0000e-005	8.4900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0164	0.0164	4.0000e-005	0.0000	0.0175
<b>Total</b>	<b>7.9000e-004</b>	<b>8.0000e-005</b>	<b>8.4900e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0164</b>	<b>0.0164</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0175</b>

**7.0 Water Detail**

Eliot Quarry Baseline Mining Operations - Alameda County, Annual

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Eliot Quarry Baseline Mining Operations - Alameda County, Annual

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**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

Eliot Quarry Baseline Mining Operations - Alameda County, Annual

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Eliot Quarry Baseline Mining Operations - Alameda County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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**Appendix C1**  
**Proposed Project CalEEMod Modeling Assumptions**  
**Eliot Quarry – Reclamation Activities**  
February 2019



**EQUIPMENT USE**

See attached for equipment model and horsepower assumptions.

**CALEEMOD RUN 2 – LAKE A RECLAMATION ACTIVITY**

**CalEEMod Construction Tabs**

General: “Off-Highway Truck” (402 horsepower model) is used as proxy for water truck per CalEEMod User Guide Section 4.3.2.

1. Lake A – Convert Berm to Island.
  - a. Description: Convert berm near west end of Lake A to island by excavating two drainage notches. Conservatively assumes two weeks of excavator loading two haul trucks. Water truck used for dust control. Timing assumes material moved to south side of Lake A to be used later for berm construction.
  - b. Equipment: Cat 349 excavator. Cat 745 (or equiv.) haul truck (2). Water truck.
  - c. Crew size: 5, including equipment operators and grade setter.
  - d. Duration: 10 days.
  - e. Graded acres: 2 acres.
2. Lake A – ADV Berms.
  - a. Description: Berm on south side of Lake A along Arroyo del Valle. Assumptions derived from 2018 Financial Assurance Cost Estimate (Spinardi Associates). Loader, dozer, and compactor used to construct berm with available on-site material. Motor grader added for finish grade.
  - b. Equipment: Cat 966 loader. Cat 825 compactor. “Rollers” is proxy for compactor. Cat D8 dozer. Cat 14 motor grader. Water truck.
  - c. Crew size: 6, including equipment operators and grade setter.
  - d. Duration: 10 days.
  - e. Graded acres: 3 acres.
3. Lake A – Overflow Outlet to ADV.
  - a. Description: Fine grade and place rip rap to construct overflow outlet. Equipment utilization based on conservative grading estimate of 16,000 SF.
  - b. Equipment: Cat 349 excavator. Cat 966 loader. Water truck.
  - c. Crew: 6, including equipment operators, foreman, grade setter, and laborer.
  - d. Duration: 5 days.
  - e. Graded acres: <1 acre.

- f. Import material quantity: 450 CY rip rap (900 tons at 2 tons/CY).
  - g. Hauling trips: 72 trips. (900 tons / 25 tons per load x 2 trips)
  - h. Adjustment for % Paved Hauling: Reduced to 90% to account for on-site haul.
4. Lake A – Pipeline to Lakes B and C (1). Install Vault 1 at Lake A Inlet with Slide Gates.
    - a. Description: Install Vault 1 at Lake A inlet with two steel slide gates.
    - b. Equipment: Fork lift.
    - c. Crew: 8, including equipment operator, foreman, carpenters (3), mason, and laborer (2).
    - d. Duration: 5 days.
    - e. Vendor Trips: 2 per day (1 vendor visit per day) to deliver steel and vault materials.
  5. Lake A - Pipeline to Lakes B and C (2). Cut-and-Cover Lake A Pipe Section.
    - a. The Lake A excavation for the Isabel conduit will be done with Cat 631 scrapers with an average haul of 2,000 LF and a cycle time of ~4 minutes. Excavate approx. 90,000 CY. It is assumed that the excavation will be placed in a temporary stockpile. It may be necessary to leave a plug between the cut-and-cover section and Isabel jack-and-bore section to allow the boring sub to have an earth push block for their boring machine.
    - b. Equipment: Cat 14 motor grader. Cat 631 scraper (4). Cat D10 dozer. Cat D8 dozer. Cat 825 compactor. Water truck (2).
    - c. Crew: 13, including equipment operators, foreman, grade setter, and laborer.
    - d. Duration: 22 days.
    - e. Graded acres: 2 acres.
  6. Lake A - Pipeline to Lakes B and C (3). Install 84" HDPE Lake A Pipe.
    - a. Description: Install approximately 640 LF of 84" pipe from Vault 1 toward Isabel bore-and-jack section.
    - b. Equipment: Cat 349 excavator. Cat 966 loader.
    - c. Crew: 6, including equipment operators, foreman, and laborers (3).
    - d. Duration: 5 days.
    - e. Vendor Trips: 2 per day (1 vendor visit per day) to deliver pipe.
  7. Lake A - Pipeline to Lakes B and C (4). Jack-and-Bore Under Isabel - Excavate Bore / Receiving Pit.
    - a. Description: Excavate one boring pit and one receiving pit for boring machine sub.
    - b. Equipment: Cat 349 excavator. Cat 966 loader. Water truck.
    - c. Crew: 5, including equipment operators, foreman, and laborer.
    - d. Duration: 2 days.
    - e. Graded acres: <1 acre.

8. Lake A - Pipeline to Lakes B and C (5). Boring Sub.
  - a. Description: Boring sub to bore approximately 180 LF of 108" diameter casing pipe under Isabel Avenue.
  - b. Equipment: Boring machine (model default used). Cat 966 loader. 25-ton hydro crane (model default used).
  - c. Crew: 7, including equipment operators, foreman, and laborers (3).
  - d. Duration: 8 days.
  - e. Vendor Trips: 2 per day (1 vendor visit per day) for boring sub.
9. Lake A – Pipeline to Lakes B and C (6). Install Vault 2 with Lake B/C Diversion Box.
  - a. Description: Install Vault 2 with 1-each 30", 42", 84" diameter gates.
  - b. Equipment: Fork lift.
  - c. Crew: 8, including equipment operator, foreman, carpenters (3), mason, and laborer (2).
  - d. Duration: 5 days.
  - e. Vendor Trips: 2 per day (1 vendor visit per day) to deliver steel and vault materials.
10. Lake A – Pipeline to Lakes B and C (7). Band / Skid / Install 84" HDPE Thru Isabel Conduit.
  - a. Description: Remove push block at Lake A side of boring pit. Install approximately 180 LF of 84" HDPE pipe through 108" casing under Isabel Avenue.
  - b. Equipment: Cat 349 excavator. Cat 966 loader.
  - c. Crew: 6, including equipment operators, foreman, and laborers (3).
  - d. Duration: 2 days.
  - e. Vendor Trips: 2 per day (1 vendor visit per day) to deliver pipe.
11. Lake A – Pipeline to Lakes B and C (8). Install 30" Pipe Turnout to Lake B with Rip Rap Slope Protection.
  - a. Description: Install approximately 150 LF of 30" pipe from Vault 2 to Lake B with rip rap. Approximately 222 CY rip rap slope protection (100'x3'x 20').
  - b. Equipment: Cat 349 excavator. Cat 966 loader. Water truck.
  - c. Crew: 8, including equipment operators, foreman, grade setter, and laborers (3).
  - d. Duration: 3 days.
  - e. Graded acres: <1 acre.
  - f. Import material quantity: 222 CY rip rap (444 tons at 2 tons/CY).
  - g. Hauling trips: 36 trips. (444 tons / 25 tons per load x 2 trips)
  - h. Adjustment for % Paved Hauling: Reduced to 90% to account for on-site haul.
  - i. Vendor Trips: 2 per day (1 vendor visit per day) to deliver pipe.

12. Lake A – Pipeline to Lakes B and C (9). Install 84” HDPE Pipe from Vault 2 to Lake C.
  - a. Description: Install approximately 800 LF of 84” pipe from Vault 2 to Lake C. Install stub and cap at CEMEX property line until such time as Vulcan completes Lake C excavation. Modeling assumes installation of rip rap at Lake C outfall (which will occur in the future when pipe is extended into Lake C), with placement of 222 CY rip rap apron (100’x3’x20’).
  - b. Equipment: Cat 349 excavator. Cat 966 loader. Water truck.
  - c. Crew: 8, including equipment operators, foreman, and laborers (3).
  - d. Duration: 10 days.
  - e. Graded acres: 2 acres.
  - f. Import material quantity: 222 CY rip rap (444 tons at 2 tons/CY).
  - g. Hauling trips: 36 trips. (444 tons / 25 tons per load x 2 trips)
  - h. Adjustment for % Paved Hauling: Reduced to 90% to account for on-site haul.
  - i. Vendor Trips: 2 per day (1 vendor visit per day) to deliver pipe.
13. Lake A – Pipeline to Lakes B and C (10). Backfill Bore/Receiving Pits and Vault 2 Box.
  - a. Equipment: Cat 330 excavator. Cat 966 loader. Cat 825 compactor. Water truck.
  - b. Crew: 7, including equipment operators, foreman, and laborers (2).
  - c. Duration: 4 days.
  - d. Graded acres: <1 acre.
14. Lake A - Diversion Structure (1). Install Pumps for Diversion.
  - a. Description: Install Lake A diversion structure per Reclamation Plan specification. Will require a bypass pump system for one season to allow for in-stream work to be completed. Once installed and the Arroyo del Valle in the work area is sufficiently dried, then the infiltration basin, discharge pipe, low-head dam and fish bypass can be installed. The upstream face and fish bypass are assumed to be armored with rip rap.
  - b. Equipment: Cat 349 excavator. Cat 966 loader.
  - c. Crew: 5, including equipment operators, foreman, and laborers (2).
  - d. Duration: 2 days.
  - e. Vendor Trips: 2 per day (1 vendor visit per day) for pump rental company.
15. Lake A - Diversion Structure (2). Excavate Infiltration Structure.
  - a. Description: Install Lake A diversion structure per Reclamation Plan specification. Excavate approximately 3,000 CY for infiltration structure.
  - b. Equipment: Cat 349 excavator. Cat 966 loader. Water truck.
  - c. Crew: 6, including equipment operators, foreman, grade setter, and laborer.
  - d. Duration: 3 days.
  - e. Graded acres: 1 acre.

16. Lake A - Diversion Structure (3). Install Gravel / Pipe.
  - a. Description: Install infiltration bed pipe, approximately 4,000 LF. Place approximately 3,850 tons of gravel for infiltration bed. On-road truck haul for gravel delivery.
  - b. Equipment: Cat 330 excavator. Cat 966 loader. Water truck.
  - c. Crew: 8, including equipment operators, foreman, grade setter, and laborers (3).
  - d. Duration: 8 days.
  - e. Graded acres: 1 acre.
  - f. Import material quantity: 2,333 CY gravel (3,850 tons at 1.65 tons/CY).
  - g. Hauling trips: 308 trips. (3,850 tons / 25 tons per load x 2 trips)
  - h. Adjustment for % Paved Hauling: Reduced to 90% to account for on-site haul.
  - i. Vendor Trips: 2 per day (1 vendor visit per day) for pipe delivery.
17. Lake A - Diversion Structure (4). Dig / Lay / Backfill (D/L/BF) Discharge Conduit.
  - a. Description: Install pipe in discharge conduit, approximately 400 LF.
  - b. Equipment: Cat 349 excavator. Cat 966 loader. Cat 330 excavator. Water truck.
  - c. Crew: 9, including equipment operators, foreman, grade setter, and laborers (3).
  - d. Duration: 2 days.
  - e. Graded acres: <1 acre.
  - f. Vendor Trips: 2 per day (1 vendor visit per day) for pipe delivery.
18. Lake A - Diversion Structure (5). Grade Low Head Dam.
  - a. Description: Grading approximately 5,000 SF for installation of low-head dam.
  - b. Equipment: Cat 349 excavator. Cat 966 loader. Water truck.
  - c. Crew: 6, including equipment operators, foreman, grade setter, and laborer.
  - d. Duration: 1 days.
  - e. Graded acres: <1 acre.
19. Lake A - Diversion Structure (6). Frame / Pour / Set (F/P/S) Concrete.
  - a. Description: Frame, pour and set approximately 50 CY of concrete.
  - b. Equipment: Gradall fork lift (model default used).
  - c. Crew: 6, including equipment operator, foreman, carpenters (3), and mason.
  - d. Duration: 10 days.
20. Lake A - Diversion Structure (7). Backfill Dam.
  - a. Description: Backfill dam, approximately 200 CY.
  - b. Equipment: Cat CP56B pad drum roller. "Roller" is pad drum roller. Cat 966 loader. Water truck.
  - c. Crew: 6, including equipment operator, foreman, and laborers (2).

- d. Duration: 2 days.
  - e. Graded acres: <1 acre.
21. Lake A - Diversion Structure (8). Grade Fishway.
- a. Description: Grade approximately 3,000 SF for fishway bypass.
  - b. Equipment: Cat 349 excavator. Cat 966 loader. Water truck.
  - c. Crew: 6, including equipment operator, foreman, grade setter, and laborer.
  - d. Duration: 1 days.
  - e. Graded acres: <1 acre.
22. Lake A - Diversion Structure (9). Place Rip Rap.
- a. Description: Place approximately 225 CY rip rap for discharge outlet protection.
  - b. Equipment: Cat 349 excavator. Cat 966 loader. Water truck.
  - c. Crew: 6, including equipment operator, foreman, grade setter, and laborer.
  - d. Duration: 1 days.
  - e. Graded acres: <1 acre.
  - f. Import material quantity: 225 CY rip rap (450 tons at 2 tons/CY).
  - g. Hauling trips: 36 trips. (450 tons / 25 tons per load x 2 trips)
  - h. Adjustment for % Paved Hauling: Reduced to 90% to account for on-site haul.
23. Lake A - Diversion Structure (10). Remove Pumps.
- a. Description: Remove diversion pumps.
  - b. Equipment: Cat 349 excavator. Cat 966 loader.
  - c. Crew: 5, including equipment operator, foreman, and laborers (2).
  - d. Duration: 1 days.
  - e. Vendor Trips: 2 per day (1 vendor visit per day) for pump rental company.
24. Lake A - Fill Percolation Ponds.
- a. Description: Grade to fill percolation ponds on south side of Lake A, north of the Arroyo.
  - b. Equipment: Cat 14 motor grader. Cat D8 dozer. Cat 966 loader.
  - c. Crew: 5, including equipment operator, foreman, and grade setter.
  - d. Duration: 5 days.
  - e. Graded acres: 6 acres.
25. Lake A - Revegetation. Hydroseed Truck to Support Landscaping.
- a. Description: Hydroseed truck to support landscaping. Landscaping per Cunningham Engineering landscape plan design.
  - b. Equipment: Off-Highway Truck used as proxy.

- c. Crew: 5, including equipment operator and laborers (4).
- d. Duration: 20 days.

### **On-Model Mitigation Assumptions**

Consistent with BAAQMD requirements, on-model mitigation for construction activity assumes:

- 1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) are watered two times per day.
- 2. All vehicle speeds on unpaved roads are limited to 15 mph.

## **CALEEMOD RUN 3 – LAKE B RECLAMATION ACTIVITY**

### **CalEEMod Construction Tabs**

General: “Off-Highway Truck” (402 horsepower model) is used as proxy for water truck per CalEEMod User Guide Section 4.3.2.

- 1. Lake B - Realign ADV (1). Install Pumps for Low Flow Diversion and Dewatering.
  - a. Description: Realign approximately 5,800 LF reach of Arroyo del Valle south of Lake B per Reclamation Plan. Existing low flow will be diverted around the work zone using a pump and fused HDPE discharge pipe so that the entire length of the existing Arroyo will be dry. This will allow the existing breach of the quarry pond in the work area to be repaired to allow the existing quarry ponds in the work area to be dewatered and prepared for backfill.
  - b. Equipment: Cat 349 excavator. Cat 966 loader.
  - c. Crew: 5, including equipment operators, foreman, and laborers (2).
  - d. Duration: 20 days.
  - e. Vendor Trips: 2 per day (1 vendor visit per day) for pump rental company.
- 2. Lake B - Realign ADV (2). Repair Breach at Quarry Ponds.
  - a. Description: Repair existing breach in quarry pond to facilitate dewatering of construction area.
  - b. Equipment: Cat 14 motor grader. Cat 623 scraper. Cat 815 compactor. Water truck.
  - c. Crew: 7, including equipment operator, foreman, grade setter, and laborer.
  - d. Duration: 5 days.
  - e. Graded acres: 2 acres.
- 3. Lake B - Realign ADV (3). Backfill and Rough Grade New ADV Alignment.
  - a. Description: Realign approximately 5,800 LF reach of Arroyo del Valle south of Lake B per Reclamation Plan. Backfill and rough grade approximately 688,000 CY. Rough grading will be done with scrapers with an average haul length of 2,000 LF. At an average 4 minute cycle time this will require 4 scrapers. Once the mass excavation is

complete the low flow will be graded, final channel grading completed, and the new alignment ready for final erosion control.

*Note:* Depending on the effort required to dry the existing ponds, the actual tie-in to the existing Arroyo could take up to two construction seasons. With the breach repaired and the central segment mass grading completed, the construction area will not fill with water so the second season of grading (if needed) would only require the bypass pump system to be installed so the upstream and downstream tie-ins can be completed. However, based on construction equipment hours (that can be fit into a single season) this model assumes (for purposes of air emissions estimates) that all work is completed in a single season. This approach is conservative for CEQA purposes because the model output reflects elevated annual emissions for a single year of construction (which is possible to occur).

- b. Equipment: Cat 14 motor grader. Cat 631 scrapers (4). Cat D10 dozer. Cat D8 dozer. Cat 825 compactor. Water trucks (3).
  - c. Crew: 14, including equipment operators, foreman, grade setter, and laborer.
  - d. Duration: 80 days.
  - e. Graded acres: maximum assumption of 110 acres based on estimated “action area”, including portions of existing Arroyo del Valle.
4. Lake B - Realign ADV (4). Cut Low Flow.
- a. Description: Realign approximately 5,800 LF reach of Arroyo del Valle south of Lake B per Reclamation Plan. Cut low flow with excavator.
  - b. Equipment: Cat 330 excavator. Water truck.
  - c. Crew: 3, including equipment operator and grade setter.
  - d. Duration: 10 days.
  - e. Graded acres: 2 acres.
5. Lake B - Realign ADV (5). Fine Grade.
- a. Description: Fine grade approximately 1,300,000 SF with motor grader and scraper.
  - b. Equipment: Cat 14 motor grader. Cat 623 scraper. Water truck.
  - c. Crew: 6, including equipment operator, foreman, grade setter, and laborer.
  - d. Duration: 13 days.
  - e. Graded acres: 30 acres.
6. Lake B - ADV Berms.
- a. Description: Berm on south side of Lake B. Assumptions per Spinardi 2018 FACE, scaled up by 50%. Loader, dozer, and compactor used to construct berm with available on-site material. Motor grader added for finish grade.
  - b. Equipment: Cat 966 loader. Cat 825 compactor. “Rollers” is proxy for compactor. Cat D8 dozer. Cat 14 motor grader. Water truck.
  - c. Crew size: 6, including equipment operators and grade setter.



- d. Duration: 10 days.
  - e. Graded acres: 3 acres.
7. Lake B - Realign ADV (6). Landscaping and Revegetation.
- a. Description: Hydroseed truck to support landscaping.
  - b. Equipment: Off-Highway Truck used as proxy.
  - c. Duration: 20 days.
8. Lake B - Realign ADV (7). Remove Pumps.
- a. Description: Remove low-flow diversion / dewatering pumps.
  - b. Equipment: Cat 349 excavator. Cat 966 loader.
  - c. Crew: 5, including equipment operator, foreman, and laborers (2).
  - d. Duration: 12 days.
  - e. Vendor Trips: 2 per day (1 vendor visit per day) for pump rental company.
  - f. Crew: 5, including equipment operator and laborers (4).
9. Lake B - Pedestrian and Bike Trail (1). Grading and Drainage Improvements.
- a. Description: Grading for 20-foot trail along south side of Arroyo and Lake B.
  - b. Equipment: Model defaults used for grading. Added water truck.
  - c. Crew: Model defaults used.
  - d. Duration: 20 days.
  - e. Graded acres: 5 acres.
10. Lake B - Pedestrian and Bike Trail (2). Paving and Striping.
- a. Description: Pave trail along south side of Arroyo and Lake B.
  - b. Equipment: Pavers (2). Paving equipment (2). Rollers (2).
  - c. Crew: 10, including equipment operators, foreman, grade setter, and laborers (2).
  - d. Duration: 5 days.
  - e. Graded acres: 5 acres.
  - f. Import material quantity: 3,519 CY.
    - i. 926 CY AC (1,528 tons at 1.65 tons/CY). Based on 10,000 LF x 10' wide pavement x 3-inch depth.
    - ii. 2,593 CY AB (4,278 tons at 1.65 tons/CY). Based on 10,000 LF x 14' wide AB placement x 6-inch depth.
  - g. Hauling trips: 464 trips. (5,806 tons / 25 tons per load x 2 trips). Trip length reduced to 4 miles since material to be sourced from Eliot facility plants.
  - h. Adjustment for % Paved Hauling: Reduced to 90% to account for on-site haul.

11. Lake B - Pedestrian and Bike Trail (3). Landscaping and Revegetation.
  - a. Description: Hydroseed truck to support landscaping.
  - b. Equipment: Off-Highway Truck used as proxy.
  - c. Crew: 5, including equipment operator, and laborers (4).
  - d. Duration: 10 days.
12. Lake B - Lake B to C Conduit. Install Pipe Conduit to Lake C.
  - a. Description: Install 30" Lake B to C conduit, approximately 350 LF. Equipment utilization based on earlier estimate of 425 LF (therefore conservative). Install two slide gates.
  - b. Equipment: Cat 349 excavator. Cat 966 loader. Cat 330 excavator. Fork lift. Water truck.
  - c. Crew: 9, including equipment operators, foreman, and laborers (3).
  - d. Duration: 5 days.
  - e. Graded acres: 1 acre.
  - f. Vendor Trips: 2 per day (1 vendor visit per day) for steel and pipe delivery.
13. Lake B - Overflow Outlet to ADV (1). Finegrade and Build Access Ramp.
  - a. Description: Overflow outlet will be created in the crest of the berm installed along the west end of Lake B to allow water to flow back into ADV through a controlled and stable pathway. The outlet will consist of an armored trapezoidal weir and chute, with an armored outlet apron. The outlet crest will be 60 feet wide perpendicular to the flow with 4H:1V side slopes, and the trapezoid will be at least 5 feet deep, thus resulting in a top width of 60 feet for the trapezoidal section. The outlet crest is 120 feet wide in the direction of the flow. The outlet flow path will be lined with riprap to mitigate the potential for erosion to occur. Access to overflow outlet to be developed to north side of overflow. Grading of approximately 36,000 SF, and handling approximately 2,000 CY.
  - b. Equipment: Cat 349 excavator. Cat 966 loader. Cat D10 dozer. Water truck.
  - c. Crew: 7, including equipment operators, foreman, grade setter, and laborer.
  - d. Duration: 3 days.
  - e. Graded acres: 1 acre.
14. Lake B - Overflow Outlet to ADV (2). Place Rip Rap.
  - a. Description: The outlet flow path will be lined with riprap to mitigate the potential for erosion to occur. Place rip-rap approximately 800 tons (7,200 SF x 1.5' depth x 2 tons per CY).
  - b. Equipment: Cat 349 excavator. Cat 966 loader. Water truck.
  - c. Crew: 6, including equipment operators, foreman, grade setter, and laborer.
  - d. Duration: 5 days.
  - e. Graded acres: 1 acre.

- f. Import material quantity: 900 CY rip rap (1,800 tons at 2 tons/CY). Model assumption is greater than actual import requirement.
  - g. Hauling trips: 144 trips. (1,800 tons / 25 tons per load x 2 trips).
  - h. Adjustment for % Paved Hauling: Reduced to 90% to account for on-site haul.
15. Lake B – Excavate Shark’s Fin Drainage Notch.
- a. Description: Excavate drainage notch in Shark’s fine area at north end of Lake B. Excavate approximately 11,000 CY to develop 160’x120’x20’ notch to elevation 350’ msl. Move excavated materials to Lake B pit floor.
  - b. Equipment: Cat 349 excavator. Cat 745 (or equiv.) haul truck (4). Water truck.
  - c. Crew size: 7, including equipment operators and grade setter.
  - d. Duration: 5 days.
  - e. Graded acres: 1 acre.
16. Lake B – Revegetation.
- a. Description: Hydroseed truck to support revegetation.
  - b. Equipment: Off-Highway Truck used as proxy.
  - c. Crew: 5, including equipment operator and laborers (4).
  - d. Duration: 5 days.

**On-Model Mitigation Assumptions**

Consistent with BAAQMD requirements, on-model mitigation for construction activity assumes:

- 1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) are watered two times per day.
- 2. All vehicle speeds on unpaved roads are limited to 15 mph.

**CALEEMOD RUN 4 – NORTH AREA RECLAMATION ACTIVITY**

**CalEEMod Construction Tabs**

General: “Off-Highway Truck” (402 horsepower model) is used as proxy for water truck per CalEEMod User Guide Section 4.3.2.

- 1. North Area – Soil Cap on Main Silt Pond.
  - a. Description: Place soil cap on main silt pond, approximately 120 acres.
  - b. Equipment: Model defaults used for grading. Added Cat 745 haul trucks (2). Added water truck.
  - c. Crew: Model defaults used.
  - d. Duration: 10 days.
  - e. Graded acres: 120 acres.

2. North Area - Revegetate Main Silt Pond.
  - a. Description: Hydroseed truck to support landscaping.
  - b. Equipment: Off-Highway Truck used as proxy.
  - c. Crew: 3, including equipment operator and laborers (2).
  - d. Duration: 5 days.
  
3. North Area – Removal of Processing Plants.
  - a. Description: This task involves dismantling, removal and recycling (as appropriate) of processing plant equipment (including crushers, screens, and conveyor assemblies), portable office, scales, and miscellaneous support structures. Includes removal of aggregate plant, readymix plant and asphaltic concrete plant.  
  
 Preparation: Electricians will be used to disconnect utilities. Welder/mechanics and general laborers will assist in unbolting equipment in preparation for removal.  
  
 Dismantling and Removal: A crane will be used to dismantle and place processing plant components (e.g., crushers and screens), silos, scale and other support structures onto flatbed trucks for removal. Crushers, screens, sand screws and silos will be removed using 9-axle on-road lowbed trucks. Steel structures will be cut into manageable pieces with an excavator equipped with a steel shear, with pieces placed on on-road trucks for removal (approximately 500 tons). An excavator equipped with a breaker attachment, and front-end loader, will be used for concrete foundation/footing demolition and removal (approximately 200 CY, or 400 tons). Scrap steel and other mixed construction and demolition debris, such as small scrap, broken concrete, asphalt, plastics, spare parts and conveyor belts, will be loaded into dumpsters using front-end loaders and shipped off-site to licensed facilities (approximately 100 tons). Total material demo approx. 1,000 tons for off-haul.
    - b. Equipment: Crane (model default used). Cat 349 excavators (3). Cat 966 loaders (2). Concrete industrial saw (3) (model default used). Welders (3) (model default used). Fork lift (model default used). Water truck.
    - c. Crew: 18, including equipment operators, foreman, electricians (3), welders (3), and laborers (3).
    - d. Duration: 60 days.
    - e. Hauling trips: 100 trips. (1,000 tons / 20 tons per load x 2 trips).
    - f. Vendor Trips: 2 per day (1 vendor visit per day) per plant, for total of 6 per day.
  
4. North Area - Grade Plant and Lake J Areas.
  - a. Description: Contour grading of Lake J and processing plant areas, approximately 135 acres.
  - b. Equipment: Model defaults used for grading. Added water truck.
  - c. Crew: Model defaults used.
  - d. Duration: 20 days.
  - e. Graded acres: 135 acres.

5. North Area - Retention Ponds.
  - a. Description: Install three retention ponds, approximately 8 acres.
  - b. Equipment: Model defaults used for grading. Added water truck.
  - c. Crew: Model defaults used.
  - d. Duration: 10 days.
  - e. Graded acres: 8 acres.
6. North Area – Revegetation.
  - a. Description: Hydroseed truck to support revegetation.
  - b. Equipment: Off-Highway Truck used as proxy.
  - c. Crew: 5, including equipment operator and laborers (4).
  - d. Duration: 15 days.

#### **On-Model Mitigation Assumptions**

Consistent with BAAQMD requirements, on-model mitigation for construction activity assumes:

1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) are watered two times per day.
2. All vehicle speeds on unpaved roads are limited to 15 mph.

**Eliot Quarry SMP-23 Reclamation Plan Amendment Project  
Equipment Input Assumptions**

<b>Equipment</b>	<b>Model (or equivalent)</b>	<b>HP</b>
<b>Realign Arroyo del Valle (and related)</b>		
Compactor	CAT 815	248
Compactor	CAT 825	405
Dozer	CAT D10	600
Dozer	CAT D8R	303
Excavator	CAT 336F / 330	303
Excavator	CAT 349	396
Loader	CAT 966	276
Motor Grader	CAT 14M3	238
Scraper	CAT 623	407
Scraper	CAT 631	570
<b>Lake A Diversion Structure</b>		
Excavator	CAT 336F / 330	303
Excavator	CAT 349	396
Fork Lift	Gradall or equiv.	Default used
Loader	CAT 966	276
Pad Drum Roller	CAT CP56B	157
<b>Conduits and Pipelines (Lake A to Lake B to Lake C etc)</b>		
Boring Machine (under Isabel)		
Compactor	CAT 825	405
Dozer	CAT D10	600
Dozer	CAT D8R	303
Excavator	CAT 336F / 330	303
Excavator	CAT 349	396
Fork Lift	Gradall or equiv.	Default used
Loader	CAT 966	276
Motor Grader	CAT 14M3	238
Scraper	CAT 623	407
Scrapers	CAT 631	570
25-Ton Hydro Crane	Unknown	Default used
<b>Other</b>		
Compactor	CAT 825	405
Crane	Grove or equiv.	Default used
Dozer	CAT D10	600
Dozer	CAT D8R	303
Excavator	CAT 349	396
Fork Lift	Gradall or equiv.	Default used
Haul Truck	CAT 740/745	511
Loader	CAT 966	276
Scraper	CAT 623	407
Scrapers	CAT 627	407
Scrapers	CAT 637 Push-Pull	570

**Notes:**

Equipment to be used based on input from CEMEX and Shewmaker construction management consulting.

Horsepower references to CAT based on CAT Handbook, Ed. 48.

Exception: Compactors horsepower based on CAT webpage.



Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**Eliot Quarry - Lake A Reclamation Activities**  
**Alameda County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	160.00	User Defined Unit	160.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	63
<b>Climate Zone</b>	4			<b>Operational Year</b>	2025
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - Lake A reclamation activity per Revised Reclamation Plan.

Land Use - Lake A area approximately 160 acres north of ADV.

Construction Phase - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

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Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

Off-road Equipment - See CalEEMod modeling assumptions attachment.

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Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Trips and VMT - See CalEEMod modeling assumptions attachment.

On-road Fugitive Dust - See CalEEMod modeling assumptions attachment.

Grading - See CalEEMod modeling assumptions attachment.

Energy Use -

Construction Off-road Equipment Mitigation - Mitigation assumptions based on BAAQMD CEQA Guide BMPs for PM reduction.

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Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

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Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

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Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

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Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

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Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
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tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	8.00

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

tblOffRoadEquipment	UsageHours	7.00	0.00
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tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblTripsAndVMT	HaulingTripNumber	28.00	36.00
tblTripsAndVMT	HaulingTripNumber	28.00	36.00
tblTripsAndVMT	HaulingTripNumber	292.00	308.00
tblTripsAndVMT	HaulingTripNumber	28.00	36.00
tblTripsAndVMT	HaulingTripNumber	56.00	72.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripNumber	8.00	16.00
tblTripsAndVMT	WorkerTripNumber	8.00	16.00
tblTripsAndVMT	WorkerTripNumber	10.00	14.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	8.00	16.00
tblTripsAndVMT	WorkerTripNumber	10.00	18.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripNumber	13.00	12.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	0.00	16.00

## Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

tblTripsAndVMT	WorkerTripNumber	25.00	26.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	14.00
tblTripsAndVMT	WorkerTripNumber	0.00	16.00

**2.0 Emissions Summary**

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Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.5000e-003	1.5000e-004	0.0163	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0350	0.0350	9.0000e-005		0.0373
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
<b>Total</b>	<b>1.5000e-003</b>	<b>1.5000e-004</b>	<b>0.0163</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>0.0350</b>	<b>0.0350</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.0373</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.5000e-003	1.5000e-004	0.0163	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0350	0.0350	9.0000e-005		0.0373
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
<b>Total</b>	<b>1.5000e-003</b>	<b>1.5000e-004</b>	<b>0.0163</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>0.0350</b>	<b>0.0350</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.0373</b>



## Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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	Lake A - Convert Berm to Island	Grading	4/4/2022	4/15/2022	5	10	Excavate to convert berm to island
2	Lake A - ADV Berms	Grading	4/18/2022	4/29/2022	5	10	Install berms along ADV
3	Lake A - Overflow Outlet to ADV	Grading	5/2/2022	5/6/2022	5	5	Finegrade and place rip rap
4	Lake A - Pipeline to Lakes B and C (1)	Building Construction	5/9/2022	5/13/2022	5	5	Install Vault 1 at Lake A inlet with slide gates
5	Lake A - Pipeline to Lakes B and C (2)	Grading	5/16/2022	6/14/2022	5	22	Cut-and-cover Lake A pipe section
6	Lake A - Pipeline to Lakes B and C (3)	Building Construction	6/15/2022	6/21/2022	5	5	Install 84" Lake A pipe
7	Lake A - Pipeline to Lakes B and C (4)	Grading	6/22/2022	6/23/2022	5	2	Isabel JB excavate bore/receiving pits&
8	Lake A - Pipeline to Lakes B and C (5)	Building Construction	6/24/2022	7/5/2022	5	8	Isabel JB bore 108" casing&
9	Lake A - Pipeline to Lakes B and C (6)	Building Construction	7/6/2022	7/12/2022	5	5	Install Vault 2 with Lake B/C diversion box
10	Lake A - Pipeline to Lakes B and C (7)	Building Construction	7/13/2022	7/14/2022	5	2	Band/skid/install 84" pipe thru Isabel conduit
11	Lake A - Pipeline to Lakes B and C (8)	Grading	7/15/2022	7/19/2022	5	3	Install 30" pipe turnout to Lake B with rip rap
12	Lake A - Pipeline to Lakes B and C (9)	Grading	7/20/2022	8/2/2022	5	10	Install 84" pipe from Vault 2 to Lake C
13	Lake A - Pipeline to Lakes B and C (10)	Grading	8/3/2022	8/8/2022	5	4	Backfill bore/receiving pits and Vault 2 box
14	Lake A - Diversion Structure (1)	Site Preparation	5/1/2023	5/2/2023	5	2	Install pumps for low flow diversion
15	Lake A - Diversion Structure (2)	Grading	5/3/2023	5/5/2023	5	3	Excavate infiltration structure
16	Lake A - Diversion Structure (3)	Grading	5/8/2023	5/17/2023	5	8	Install gravel / pipe
17	Lake A - Diversion Structure (4)	Grading	5/18/2023	5/19/2023	5	2	Dig / lay / backfill discharge conduit

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

18	Lake A - Diversion Structure (5)	Grading	5/22/2023	5/22/2023	5	1	Grade low-head dam
19	Lake A - Diversion Structure (6)	Building Construction	5/23/2023	6/5/2023	5	10	Frame and pour concrete
20	Lake A - Diversion Structure (7)	Grading	6/6/2023	6/7/2023	5	2	Backfill dam
21	Lake A - Diversion Structure (8)	Grading	6/8/2023	6/8/2023	5	1	Grade fishway
22	Lake A - Diversion Structure (9)	Grading	6/9/2023	6/9/2023	5	1	Place rip rap
23	Lake A - Diversion Structure (10)	Site Preparation	6/12/2023	6/12/2023	5	1	Remove pumps
24	Lake A - Fill Percolation Ponds	Grading	6/12/2023	6/16/2023	5	5	Fill percolation ponds
25	Lake A - Revegetation	Site Preparation	10/2/2023	10/27/2023	5	20	Landscaping and revegetation

**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; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Lake A - Convert Berm to Island	Excavators	1	8.00	396	0.38
Lake A - Convert Berm to Island	Graders	0	0.00	187	0.41
Lake A - Convert Berm to Island	Off-Highway Trucks	2	8.00	511	0.38
Lake A - Convert Berm to Island	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Convert Berm to Island	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Convert Berm to Island	Scrapers	0	0.00	367	0.48
Lake A - Convert Berm to Island	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake A - ADV Berms	Excavators	0	0.00	158	0.38
Lake A - ADV Berms	Graders	1	8.00	238	0.41
Lake A - ADV Berms	Off-Highway Trucks	1	8.00	402	0.38

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

Lake A - ADV Berms	Rollers	1	8.00	405	0.38
Lake A - ADV Berms	Rubber Tired Dozers	1	8.00	303	0.40
Lake A - ADV Berms	Scrapers	0	0.00	367	0.48
Lake A - ADV Berms	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Overflow Outlet to ADV	Excavators	1	8.00	396	0.38
Lake A - Overflow Outlet to ADV	Graders	0	0.00	187	0.41
Lake A - Overflow Outlet to ADV	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Overflow Outlet to ADV	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Overflow Outlet to ADV	Scrapers	0	0.00	367	0.48
Lake A - Overflow Outlet to ADV	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Pipeline to Lakes B and C (1)	Cranes	0	0.00	231	0.29
Lake A - Pipeline to Lakes B and C (1)	Forklifts	1	8.00	89	0.20
Lake A - Pipeline to Lakes B and C (1)	Generator Sets	0	0.00	84	0.74
Lake A - Pipeline to Lakes B and C (1)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake A - Pipeline to Lakes B and C (1)	Welders	0	0.00	46	0.45
Lake A - Pipeline to Lakes B and C (2)	Excavators	0	0.00	158	0.38
Lake A - Pipeline to Lakes B and C (2)	Graders	1	8.00	238	0.41
Lake A - Pipeline to Lakes B and C (2)	Off-Highway Trucks	2	8.00	402	0.38
Lake A - Pipeline to Lakes B and C (2)	Rollers	1	8.00	405	0.38
Lake A - Pipeline to Lakes B and C (2)	Rubber Tired Dozers	1	8.00	600	0.40
Lake A - Pipeline to Lakes B and C (2)	Rubber Tired Dozers	1	8.00	303	0.40
Lake A - Pipeline to Lakes B and C (2)	Scrapers	4	8.00	570	0.48
Lake A - Pipeline to Lakes B and C (2)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake A - Pipeline to Lakes B and C (3)	Cranes	0	0.00	231	0.29
Lake A - Pipeline to Lakes B and C (3)	Excavators	1	8.00	396	0.38
Lake A - Pipeline to Lakes B and C (3)	Forklifts	0	0.00	89	0.20
Lake A - Pipeline to Lakes B and C (3)	Generator Sets	0	0.00	84	0.74

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

Lake A - Pipeline to Lakes B and C (3)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Pipeline to Lakes B and C (3)	Welders	0	0.00	46	0.45
Lake A - Pipeline to Lakes B and C (4)	Excavators	1	8.00	396	0.38
Lake A - Pipeline to Lakes B and C (4)	Graders	0	0.00	187	0.41
Lake A - Pipeline to Lakes B and C (4)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Pipeline to Lakes B and C (4)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Pipeline to Lakes B and C (4)	Scrapers	0	0.00	367	0.48
Lake A - Pipeline to Lakes B and C (4)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Pipeline to Lakes B and C (5)	Bore/Drill Rigs	1	8.00	221	0.50
Lake A - Pipeline to Lakes B and C (5)	Cranes	1	8.00	231	0.29
Lake A - Pipeline to Lakes B and C (5)	Forklifts	0	0.00	89	0.20
Lake A - Pipeline to Lakes B and C (5)	Generator Sets	0	0.00	84	0.74
Lake A - Pipeline to Lakes B and C (5)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Pipeline to Lakes B and C (5)	Welders	0	0.00	46	0.45
Lake A - Pipeline to Lakes B and C (6)	Cranes	0	0.00	231	0.29
Lake A - Pipeline to Lakes B and C (6)	Forklifts	1	8.00	89	0.20
Lake A - Pipeline to Lakes B and C (6)	Generator Sets	0	0.00	84	0.74
Lake A - Pipeline to Lakes B and C (6)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake A - Pipeline to Lakes B and C (6)	Welders	0	0.00	46	0.45
Lake A - Pipeline to Lakes B and C (7)	Cranes	0	0.00	231	0.29
Lake A - Pipeline to Lakes B and C (7)	Excavators	1	8.00	396	0.38
Lake A - Pipeline to Lakes B and C (7)	Forklifts	0	0.00	89	0.20
Lake A - Pipeline to Lakes B and C (7)	Generator Sets	0	0.00	84	0.74
Lake A - Pipeline to Lakes B and C (7)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Pipeline to Lakes B and C (7)	Welders	0	0.00	46	0.45
Lake A - Pipeline to Lakes B and C (8)	Excavators	1	8.00	396	0.38
Lake A - Pipeline to Lakes B and C (8)	Graders	0	0.00	187	0.41

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

Lake A - Pipeline to Lakes B and C (8)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Pipeline to Lakes B and C (8)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Pipeline to Lakes B and C (8)	Scrapers	0	0.00	367	0.48
Lake A - Pipeline to Lakes B and C (8)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Pipeline to Lakes B and C (9)	Excavators	1	8.00	396	0.38
Lake A - Pipeline to Lakes B and C (9)	Graders	0	0.00	187	0.41
Lake A - Pipeline to Lakes B and C (9)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Pipeline to Lakes B and C (9)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Pipeline to Lakes B and C (9)	Scrapers	0	0.00	367	0.48
Lake A - Pipeline to Lakes B and C (9)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Pipeline to Lakes B and C (10)	Excavators	1	8.00	303	0.38
Lake A - Pipeline to Lakes B and C (10)	Graders	0	0.00	187	0.41
Lake A - Pipeline to Lakes B and C (10)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Pipeline to Lakes B and C (10)	Rollers	1	8.00	405	0.38
Lake A - Pipeline to Lakes B and C (10)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Pipeline to Lakes B and C (10)	Scrapers	0	0.00	367	0.48
Lake A - Pipeline to Lakes B and C (10)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (1)	Excavators	1	8.00	396	0.38
Lake A - Diversion Structure (1)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (1)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (2)	Excavators	1	8.00	396	0.38
Lake A - Diversion Structure (2)	Graders	0	0.00	187	0.41
Lake A - Diversion Structure (2)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Diversion Structure (2)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (2)	Scrapers	0	0.00	367	0.48
Lake A - Diversion Structure (2)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (3)	Excavators	1	8.00	303	0.38

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

Lake A - Diversion Structure (3)	Graders	0	0.00	187	0.41
Lake A - Diversion Structure (3)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Diversion Structure (3)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (3)	Scrapers	0	0.00	367	0.48
Lake A - Diversion Structure (3)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (4)	Excavators	1	8.00	396	0.38
Lake A - Diversion Structure (4)	Excavators	1	8.00	303	0.38
Lake A - Diversion Structure (4)	Graders	0	0.00	187	0.41
Lake A - Diversion Structure (4)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Diversion Structure (4)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (4)	Scrapers	0	0.00	367	0.48
Lake A - Diversion Structure (4)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (5)	Excavators	1	8.00	396	0.38
Lake A - Diversion Structure (5)	Graders	0	0.00	187	0.41
Lake A - Diversion Structure (5)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Diversion Structure (5)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (5)	Scrapers	0	0.00	367	0.48
Lake A - Diversion Structure (5)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (6)	Cranes	0	0.00	231	0.29
Lake A - Diversion Structure (6)	Forklifts	1	8.00	89	0.20
Lake A - Diversion Structure (6)	Generator Sets	0	0.00	84	0.74
Lake A - Diversion Structure (6)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake A - Diversion Structure (6)	Welders	0	0.00	46	0.45
Lake A - Diversion Structure (7)	Excavators	0	0.00	158	0.38
Lake A - Diversion Structure (7)	Graders	0	0.00	187	0.41
Lake A - Diversion Structure (7)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Diversion Structure (7)	Rollers	1	8.00	157	0.38

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

Lake A - Diversion Structure (7)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (7)	Scrapers	0	0.00	367	0.48
Lake A - Diversion Structure (7)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (8)	Excavators	1	8.00	396	0.38
Lake A - Diversion Structure (8)	Graders	0	0.00	187	0.41
Lake A - Diversion Structure (8)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Diversion Structure (8)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (8)	Scrapers	0	0.00	367	0.48
Lake A - Diversion Structure (8)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (9)	Excavators	1	8.00	396	0.38
Lake A - Diversion Structure (9)	Graders	0	0.00	187	0.41
Lake A - Diversion Structure (9)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Diversion Structure (9)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (9)	Scrapers	0	0.00	367	0.48
Lake A - Diversion Structure (9)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (10)	Excavators	1	8.00	396	0.38
Lake A - Diversion Structure (10)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (10)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Fill Percolation Ponds	Excavators	0	0.00	158	0.38
Lake A - Fill Percolation Ponds	Graders	1	8.00	238	0.41
Lake A - Fill Percolation Ponds	Rubber Tired Dozers	1	8.00	303	0.40
Lake A - Fill Percolation Ponds	Scrapers	0	0.00	367	0.48
Lake A - Fill Percolation Ponds	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Revegetation	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Revegetation	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Revegetation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**Trips and VMT**



## Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

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
Lake A - Convert Berm to Island	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - ADV Berms	5	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Overflow Outlet to ADV	3	12.00	0.00	72.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (1)	1	16.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (2)	10	26.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (3)	2	12.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (4)	3	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (5)	3	14.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (6)	1	16.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (7)	2	12.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (8)	3	16.00	2.00	36.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (9)	3	16.00	2.00	36.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (10)	4	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (1)	2	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (2)	3	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (3)	3	16.00	2.00	308.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (4)	4	18.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (5)	3	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (6)	1	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (7)	3	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (8)	3	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (9)	3	12.00	0.00	36.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (10)	2	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Fill Percolation Ponds	3	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Revegetation	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 Lake A - Convert Berm to Island - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2121	0.0000	0.2121	0.0229	0.0000	0.0229			0.0000			0.0000
Off-Road	2.6717	22.3082	18.1326	0.0596		0.8391	0.8391		0.7719	0.7719		5,772.1093	5,772.1093	1.8668		5,818.7798
<b>Total</b>	<b>2.6717</b>	<b>22.3082</b>	<b>18.1326</b>	<b>0.0596</b>	<b>0.2121</b>	<b>0.8391</b>	<b>1.0512</b>	<b>0.0229</b>	<b>0.7719</b>	<b>0.7948</b>		<b>5,772.1093</b>	<b>5,772.1093</b>	<b>1.8668</b>		<b>5,818.7798</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.2 Lake A - Convert Berm to Island - 2022**

**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	0.0314	0.0180	0.2391	7.8000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		77.6971	77.6971	1.7200e-003		77.7400
<b>Total</b>	<b>0.0314</b>	<b>0.0180</b>	<b>0.2391</b>	<b>7.8000e-004</b>	<b>0.0822</b>	<b>5.2000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.8000e-004</b>	<b>0.0223</b>		<b>77.6971</b>	<b>77.6971</b>	<b>1.7200e-003</b>		<b>77.7400</b>

**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					0.0955	0.0000	0.0955	0.0103	0.0000	0.0103			0.0000			0.0000
Off-Road	2.6717	22.3082	18.1326	0.0596		0.8391	0.8391		0.7719	0.7719	0.0000	5,772.1093	5,772.1093	1.8668		5,818.7798
<b>Total</b>	<b>2.6717</b>	<b>22.3082</b>	<b>18.1326</b>	<b>0.0596</b>	<b>0.0955</b>	<b>0.8391</b>	<b>0.9345</b>	<b>0.0103</b>	<b>0.7719</b>	<b>0.7823</b>	<b>0.0000</b>	<b>5,772.1093</b>	<b>5,772.1093</b>	<b>1.8668</b>		<b>5,818.7798</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.2 Lake A - Convert Berm to Island - 2022**

**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	0.0314	0.0180	0.2391	7.8000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		77.6971	77.6971	1.7200e-003		77.7400
<b>Total</b>	<b>0.0314</b>	<b>0.0180</b>	<b>0.2391</b>	<b>7.8000e-004</b>	<b>0.0822</b>	<b>5.2000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.8000e-004</b>	<b>0.0223</b>		<b>77.6971</b>	<b>77.6971</b>	<b>1.7200e-003</b>		<b>77.7400</b>

**3.3 Lake A - ADV Berms - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3402	0.0000	6.3402	3.3446	0.0000	3.3446			0.0000			0.0000
Off-Road	2.9514	30.2568	21.4880	0.0544		1.1879	1.1879		1.0929	1.0929		5,265.0210	5,265.0210	1.7028		5,307.5914
<b>Total</b>	<b>2.9514</b>	<b>30.2568</b>	<b>21.4880</b>	<b>0.0544</b>	<b>6.3402</b>	<b>1.1879</b>	<b>7.5282</b>	<b>3.3446</b>	<b>1.0929</b>	<b>4.4375</b>		<b>5,265.0210</b>	<b>5,265.0210</b>	<b>1.7028</b>		<b>5,307.5914</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.3 Lake A - ADV Berms - 2022**

**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	0.0376	0.0216	0.2870	9.4000e-004	0.0986	6.2000e-004	0.0992	0.0262	5.7000e-004	0.0267		93.2365	93.2365	2.0600e-003		93.2880
<b>Total</b>	<b>0.0376</b>	<b>0.0216</b>	<b>0.2870</b>	<b>9.4000e-004</b>	<b>0.0986</b>	<b>6.2000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.7000e-004</b>	<b>0.0267</b>		<b>93.2365</b>	<b>93.2365</b>	<b>2.0600e-003</b>		<b>93.2880</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8531	0.0000	2.8531	1.5051	0.0000	1.5051			0.0000			0.0000
Off-Road	2.9514	30.2568	21.4880	0.0544		1.1879	1.1879		1.0929	1.0929	0.0000	5,265.0210	5,265.0210	1.7028		5,307.5914
<b>Total</b>	<b>2.9514</b>	<b>30.2568</b>	<b>21.4880</b>	<b>0.0544</b>	<b>2.8531</b>	<b>1.1879</b>	<b>4.0411</b>	<b>1.5051</b>	<b>1.0929</b>	<b>2.5980</b>	<b>0.0000</b>	<b>5,265.0210</b>	<b>5,265.0210</b>	<b>1.7028</b>		<b>5,307.5914</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.3 Lake A - ADV Berms - 2022**

**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	0.0376	0.0216	0.2870	9.4000e-004	0.0986	6.2000e-004	0.0992	0.0262	5.7000e-004	0.0267		93.2365	93.2365	2.0600e-003		93.2880
<b>Total</b>	<b>0.0376</b>	<b>0.0216</b>	<b>0.2870</b>	<b>9.4000e-004</b>	<b>0.0986</b>	<b>6.2000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.7000e-004</b>	<b>0.0267</b>		<b>93.2365</b>	<b>93.2365</b>	<b>2.0600e-003</b>		<b>93.2880</b>

**3.4 Lake A - Overflow Outlet to ADV - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2223	0.0000	0.2223	0.0244	0.0000	0.0244			0.0000			0.0000
Off-Road	1.1567	9.3616	8.4812	0.0348		0.3340	0.3340		0.3073	0.3073		3,370.775 1	3,370.775 1	1.0902		3,398.029 5
<b>Total</b>	<b>1.1567</b>	<b>9.3616</b>	<b>8.4812</b>	<b>0.0348</b>	<b>0.2223</b>	<b>0.3340</b>	<b>0.5563</b>	<b>0.0244</b>	<b>0.3073</b>	<b>0.3317</b>		<b>3,370.775 1</b>	<b>3,370.775 1</b>	<b>1.0902</b>		<b>3,398.029 5</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.4 Lake A - Overflow Outlet to ADV - 2022**

**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	0.1076	3.5115	0.6784	0.0112	42.6174	0.0101	42.6275	4.2939	9.6300e-003	4.3035		1,193.6074	1,193.6074	0.0560		1,195.0071
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	0.0376	0.0216	0.2870	9.4000e-004	0.0986	6.2000e-004	0.0992	0.0262	5.7000e-004	0.0267		93.2365	93.2365	2.0600e-003		93.2880
<b>Total</b>	<b>0.1452</b>	<b>3.5331</b>	<b>0.9653</b>	<b>0.0122</b>	<b>42.7160</b>	<b>0.0107</b>	<b>42.7267</b>	<b>4.3200</b>	<b>0.0102</b>	<b>4.3302</b>		<b>1,286.8439</b>	<b>1,286.8439</b>	<b>0.0581</b>		<b>1,288.2951</b>

**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					0.1000	0.0000	0.1000	0.0110	0.0000	0.0110			0.0000			0.0000
Off-Road	1.1567	9.3616	8.4812	0.0348		0.3340	0.3340		0.3073	0.3073	0.0000	3,370.7751	3,370.7751	1.0902		3,398.0295
<b>Total</b>	<b>1.1567</b>	<b>9.3616</b>	<b>8.4812</b>	<b>0.0348</b>	<b>0.1000</b>	<b>0.3340</b>	<b>0.4340</b>	<b>0.0110</b>	<b>0.3073</b>	<b>0.3183</b>	<b>0.0000</b>	<b>3,370.7751</b>	<b>3,370.7751</b>	<b>1.0902</b>		<b>3,398.0295</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.4 Lake A - Overflow Outlet to ADV - 2022**

**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	0.1076	3.5115	0.6784	0.0112	26.1828	0.0101	26.1929	2.6504	9.6300e-003	2.6601		1,193.6074	1,193.6074	0.0560		1,195.0071
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	0.0376	0.0216	0.2870	9.4000e-004	0.0986	6.2000e-004	0.0992	0.0262	5.7000e-004	0.0267		93.2365	93.2365	2.0600e-003		93.2880
<b>Total</b>	<b>0.1452</b>	<b>3.5331</b>	<b>0.9653</b>	<b>0.0122</b>	<b>26.2814</b>	<b>0.0107</b>	<b>26.2921</b>	<b>2.6766</b>	<b>0.0102</b>	<b>2.6868</b>		<b>1,286.8439</b>	<b>1,286.8439</b>	<b>0.0581</b>		<b>1,288.2951</b>

**3.5 Lake A - Pipeline to Lakes B and C (1) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1136	1.0549	1.1538	1.5300e-003		0.0699	0.0699		0.0643	0.0643		148.0308	148.0308	0.0479		149.2277
<b>Total</b>	<b>0.1136</b>	<b>1.0549</b>	<b>1.1538</b>	<b>1.5300e-003</b>		<b>0.0699</b>	<b>0.0699</b>		<b>0.0643</b>	<b>0.0643</b>		<b>148.0308</b>	<b>148.0308</b>	<b>0.0479</b>		<b>149.2277</b>



Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.5 Lake A - Pipeline to Lakes B and C (1) - 2022**

**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	5.6500e-003	0.2013	0.0394	5.5000e-004	0.0136	3.8000e-004	0.0139	3.9000e-003	3.6000e-004	4.2700e-003		57.8624	57.8624	2.9000e-003		57.9349
Worker	0.0502	0.0288	0.3826	1.2500e-003	0.1314	8.3000e-004	0.1323	0.0349	7.6000e-004	0.0356		124.3153	124.3153	2.7500e-003		124.3840
<b>Total</b>	<b>0.0558</b>	<b>0.2301</b>	<b>0.4220</b>	<b>1.8000e-003</b>	<b>0.1450</b>	<b>1.2100e-003</b>	<b>0.1462</b>	<b>0.0388</b>	<b>1.1200e-003</b>	<b>0.0399</b>		<b>182.1777</b>	<b>182.1777</b>	<b>5.6500e-003</b>		<b>182.3189</b>

**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	0.1136	1.0549	1.1538	1.5300e-003		0.0699	0.0699		0.0643	0.0643	0.0000	148.0308	148.0308	0.0479		149.2277
<b>Total</b>	<b>0.1136</b>	<b>1.0549</b>	<b>1.1538</b>	<b>1.5300e-003</b>		<b>0.0699</b>	<b>0.0699</b>		<b>0.0643</b>	<b>0.0643</b>	<b>0.0000</b>	<b>148.0308</b>	<b>148.0308</b>	<b>0.0479</b>		<b>149.2277</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.5 Lake A - Pipeline to Lakes B and C (1) - 2022**

**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	5.6500e-003	0.2013	0.0394	5.5000e-004	0.0136	3.8000e-004	0.0139	3.9000e-003	3.6000e-004	4.2700e-003		57.8624	57.8624	2.9000e-003		57.9349
Worker	0.0502	0.0288	0.3826	1.2500e-003	0.1314	8.3000e-004	0.1323	0.0349	7.6000e-004	0.0356		124.3153	124.3153	2.7500e-003		124.3840
<b>Total</b>	<b>0.0558</b>	<b>0.2301</b>	<b>0.4220</b>	<b>1.8000e-003</b>	<b>0.1450</b>	<b>1.2100e-003</b>	<b>0.1462</b>	<b>0.0388</b>	<b>1.1200e-003</b>	<b>0.0399</b>		<b>182.1777</b>	<b>182.1777</b>	<b>5.6500e-003</b>		<b>182.3189</b>

**3.6 Lake A - Pipeline to Lakes B and C (2) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1185	0.0000	6.1185	3.3206	0.0000	3.3206			0.0000			0.0000
Off-Road	9.4625	105.3773	62.6854	0.1735		3.8983	3.8983		3.5864	3.5864		16,797.7144	16,797.7144	5.4327		16,933.5324
<b>Total</b>	<b>9.4625</b>	<b>105.3773</b>	<b>62.6854</b>	<b>0.1735</b>	<b>6.1185</b>	<b>3.8983</b>	<b>10.0168</b>	<b>3.3206</b>	<b>3.5864</b>	<b>6.9071</b>		<b>16,797.7144</b>	<b>16,797.7144</b>	<b>5.4327</b>		<b>16,933.5324</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.6 Lake A - Pipeline to Lakes B and C (2) - 2022**

**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	0.0815	0.0468	0.6217	2.0300e-003	0.2136	1.3500e-003	0.2149	0.0567	1.2400e-003	0.0579		202.0124	202.0124	4.4700e-003		202.1240
<b>Total</b>	<b>0.0815</b>	<b>0.0468</b>	<b>0.6217</b>	<b>2.0300e-003</b>	<b>0.2136</b>	<b>1.3500e-003</b>	<b>0.2149</b>	<b>0.0567</b>	<b>1.2400e-003</b>	<b>0.0579</b>		<b>202.0124</b>	<b>202.0124</b>	<b>4.4700e-003</b>		<b>202.1240</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7533	0.0000	2.7533	1.4943	0.0000	1.4943			0.0000			0.0000
Off-Road	9.4625	105.3773	62.6854	0.1735		3.8983	3.8983		3.5864	3.5864	0.0000	16,797.7144	16,797.7144	5.4327		16,933.5324
<b>Total</b>	<b>9.4625</b>	<b>105.3773</b>	<b>62.6854</b>	<b>0.1735</b>	<b>2.7533</b>	<b>3.8983</b>	<b>6.6516</b>	<b>1.4943</b>	<b>3.5864</b>	<b>5.0807</b>	<b>0.0000</b>	<b>16,797.7144</b>	<b>16,797.7144</b>	<b>5.4327</b>		<b>16,933.5324</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.6 Lake A - Pipeline to Lakes B and C (2) - 2022**

**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	0.0815	0.0468	0.6217	2.0300e-003	0.2136	1.3500e-003	0.2149	0.0567	1.2400e-003	0.0579		202.0124	202.0124	4.4700e-003		202.1240
<b>Total</b>	<b>0.0815</b>	<b>0.0468</b>	<b>0.6217</b>	<b>2.0300e-003</b>	<b>0.2136</b>	<b>1.3500e-003</b>	<b>0.2149</b>	<b>0.0567</b>	<b>1.2400e-003</b>	<b>0.0579</b>		<b>202.0124</b>	<b>202.0124</b>	<b>4.4700e-003</b>		<b>202.1240</b>

**3.7 Lake A - Pipeline to Lakes B and C (3) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6283	5.3479	5.1224	0.0216		0.1880	0.1880		0.1730	0.1730		2,091.7898	2,091.7898	0.6765		2,108.7030
<b>Total</b>	<b>0.6283</b>	<b>5.3479</b>	<b>5.1224</b>	<b>0.0216</b>		<b>0.1880</b>	<b>0.1880</b>		<b>0.1730</b>	<b>0.1730</b>		<b>2,091.7898</b>	<b>2,091.7898</b>	<b>0.6765</b>		<b>2,108.7030</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.7 Lake A - Pipeline to Lakes B and C (3) - 2022**

**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	5.6500e-003	0.2013	0.0394	5.5000e-004	0.0136	3.8000e-004	0.0139	3.9000e-003	3.6000e-004	4.2700e-003		57.8624	57.8624	2.9000e-003		57.9349
Worker	0.0376	0.0216	0.2870	9.4000e-004	0.0986	6.2000e-004	0.0992	0.0262	5.7000e-004	0.0267		93.2365	93.2365	2.0600e-003		93.2880
<b>Total</b>	<b>0.0433</b>	<b>0.2229</b>	<b>0.3264</b>	<b>1.4900e-003</b>	<b>0.1121</b>	<b>1.0000e-003</b>	<b>0.1131</b>	<b>0.0301</b>	<b>9.3000e-004</b>	<b>0.0310</b>		<b>151.0989</b>	<b>151.0989</b>	<b>4.9600e-003</b>		<b>151.2229</b>

**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	0.6283	5.3479	5.1224	0.0216		0.1880	0.1880		0.1730	0.1730	0.0000	2,091.7898	2,091.7898	0.6765		2,108.7030
<b>Total</b>	<b>0.6283</b>	<b>5.3479</b>	<b>5.1224</b>	<b>0.0216</b>		<b>0.1880</b>	<b>0.1880</b>		<b>0.1730</b>	<b>0.1730</b>	<b>0.0000</b>	<b>2,091.7898</b>	<b>2,091.7898</b>	<b>0.6765</b>		<b>2,108.7030</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.7 Lake A - Pipeline to Lakes B and C (3) - 2022**

**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	5.6500e-003	0.2013	0.0394	5.5000e-004	0.0136	3.8000e-004	0.0139	3.9000e-003	3.6000e-004	4.2700e-003		57.8624	57.8624	2.9000e-003		57.9349
Worker	0.0376	0.0216	0.2870	9.4000e-004	0.0986	6.2000e-004	0.0992	0.0262	5.7000e-004	0.0267		93.2365	93.2365	2.0600e-003		93.2880
<b>Total</b>	<b>0.0433</b>	<b>0.2229</b>	<b>0.3264</b>	<b>1.4900e-003</b>	<b>0.1121</b>	<b>1.0000e-003</b>	<b>0.1131</b>	<b>0.0301</b>	<b>9.3000e-004</b>	<b>0.0310</b>		<b>151.0989</b>	<b>151.0989</b>	<b>4.9600e-003</b>		<b>151.2229</b>

**3.8 Lake A - Pipeline to Lakes B and C (4) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.1567	9.3616	8.4812	0.0348		0.3340	0.3340		0.3073	0.3073		3,370.775 1	3,370.775 1	1.0902		3,398.029 5
<b>Total</b>	<b>1.1567</b>	<b>9.3616</b>	<b>8.4812</b>	<b>0.0348</b>	<b>0.5303</b>	<b>0.3340</b>	<b>0.8643</b>	<b>0.0573</b>	<b>0.3073</b>	<b>0.3645</b>		<b>3,370.775 1</b>	<b>3,370.775 1</b>	<b>1.0902</b>		<b>3,398.029 5</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.8 Lake A - Pipeline to Lakes B and C (4) - 2022**

**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	0.0314	0.0180	0.2391	7.8000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		77.6971	77.6971	1.7200e-003		77.7400
<b>Total</b>	<b>0.0314</b>	<b>0.0180</b>	<b>0.2391</b>	<b>7.8000e-004</b>	<b>0.0822</b>	<b>5.2000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.8000e-004</b>	<b>0.0223</b>		<b>77.6971</b>	<b>77.6971</b>	<b>1.7200e-003</b>		<b>77.7400</b>

**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					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	1.1567	9.3616	8.4812	0.0348		0.3340	0.3340		0.3073	0.3073	0.0000	3,370.775 1	3,370.775 1	1.0902		3,398.029 5
<b>Total</b>	<b>1.1567</b>	<b>9.3616</b>	<b>8.4812</b>	<b>0.0348</b>	<b>0.2386</b>	<b>0.3340</b>	<b>0.5726</b>	<b>0.0258</b>	<b>0.3073</b>	<b>0.3330</b>	<b>0.0000</b>	<b>3,370.775 1</b>	<b>3,370.775 1</b>	<b>1.0902</b>		<b>3,398.029 5</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.8 Lake A - Pipeline to Lakes B and C (4) - 2022**

**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	0.0314	0.0180	0.2391	7.8000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		77.6971	77.6971	1.7200e-003		77.7400
<b>Total</b>	<b>0.0314</b>	<b>0.0180</b>	<b>0.2391</b>	<b>7.8000e-004</b>	<b>0.0822</b>	<b>5.2000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.8000e-004</b>	<b>0.0223</b>		<b>77.6971</b>	<b>77.6971</b>	<b>1.7200e-003</b>		<b>77.7400</b>

**3.9 Lake A - Pipeline to Lakes B and C (5) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8858	9.0388	6.2393	0.0240		0.3419	0.3419		0.3145	0.3145		2,317.5632	2,317.5632	0.7496		2,336.3019
<b>Total</b>	<b>0.8858</b>	<b>9.0388</b>	<b>6.2393</b>	<b>0.0240</b>		<b>0.3419</b>	<b>0.3419</b>		<b>0.3145</b>	<b>0.3145</b>		<b>2,317.5632</b>	<b>2,317.5632</b>	<b>0.7496</b>		<b>2,336.3019</b>



Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.9 Lake A - Pipeline to Lakes B and C (5) - 2022**

**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	5.6500e-003	0.2013	0.0394	5.5000e-004	0.0136	3.8000e-004	0.0139	3.9000e-003	3.6000e-004	4.2700e-003		57.8624	57.8624	2.9000e-003		57.9349
Worker	0.0439	0.0252	0.3348	1.0900e-003	0.1150	7.2000e-004	0.1157	0.0305	6.7000e-004	0.0312		108.7759	108.7759	2.4000e-003		108.8360
<b>Total</b>	<b>0.0495</b>	<b>0.2265</b>	<b>0.3742</b>	<b>1.6400e-003</b>	<b>0.1286</b>	<b>1.1000e-003</b>	<b>0.1297</b>	<b>0.0344</b>	<b>1.0300e-003</b>	<b>0.0354</b>		<b>166.6383</b>	<b>166.6383</b>	<b>5.3000e-003</b>		<b>166.7709</b>

**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	0.8858	9.0388	6.2393	0.0240		0.3419	0.3419		0.3145	0.3145	0.0000	2,317.5632	2,317.5632	0.7496		2,336.3019
<b>Total</b>	<b>0.8858</b>	<b>9.0388</b>	<b>6.2393</b>	<b>0.0240</b>		<b>0.3419</b>	<b>0.3419</b>		<b>0.3145</b>	<b>0.3145</b>	<b>0.0000</b>	<b>2,317.5632</b>	<b>2,317.5632</b>	<b>0.7496</b>		<b>2,336.3019</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.9 Lake A - Pipeline to Lakes B and C (5) - 2022**

**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	5.6500e-003	0.2013	0.0394	5.5000e-004	0.0136	3.8000e-004	0.0139	3.9000e-003	3.6000e-004	4.2700e-003		57.8624	57.8624	2.9000e-003		57.9349
Worker	0.0439	0.0252	0.3348	1.0900e-003	0.1150	7.2000e-004	0.1157	0.0305	6.7000e-004	0.0312		108.7759	108.7759	2.4000e-003		108.8360
<b>Total</b>	<b>0.0495</b>	<b>0.2265</b>	<b>0.3742</b>	<b>1.6400e-003</b>	<b>0.1286</b>	<b>1.1000e-003</b>	<b>0.1297</b>	<b>0.0344</b>	<b>1.0300e-003</b>	<b>0.0354</b>		<b>166.6383</b>	<b>166.6383</b>	<b>5.3000e-003</b>		<b>166.7709</b>

**3.10 Lake A - Pipeline to Lakes B and C (6) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1136	1.0549	1.1538	1.5300e-003		0.0699	0.0699		0.0643	0.0643		148.0308	148.0308	0.0479		149.2277
<b>Total</b>	<b>0.1136</b>	<b>1.0549</b>	<b>1.1538</b>	<b>1.5300e-003</b>		<b>0.0699</b>	<b>0.0699</b>		<b>0.0643</b>	<b>0.0643</b>		<b>148.0308</b>	<b>148.0308</b>	<b>0.0479</b>		<b>149.2277</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.10 Lake A - Pipeline to Lakes B and C (6) - 2022**

**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	5.6500e-003	0.2013	0.0394	5.5000e-004	0.0136	3.8000e-004	0.0139	3.9000e-003	3.6000e-004	4.2700e-003		57.8624	57.8624	2.9000e-003		57.9349
Worker	0.0502	0.0288	0.3826	1.2500e-003	0.1314	8.3000e-004	0.1323	0.0349	7.6000e-004	0.0356		124.3153	124.3153	2.7500e-003		124.3840
<b>Total</b>	<b>0.0558</b>	<b>0.2301</b>	<b>0.4220</b>	<b>1.8000e-003</b>	<b>0.1450</b>	<b>1.2100e-003</b>	<b>0.1462</b>	<b>0.0388</b>	<b>1.1200e-003</b>	<b>0.0399</b>		<b>182.1777</b>	<b>182.1777</b>	<b>5.6500e-003</b>		<b>182.3189</b>

**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	0.1136	1.0549	1.1538	1.5300e-003		0.0699	0.0699		0.0643	0.0643	0.0000	148.0308	148.0308	0.0479		149.2277
<b>Total</b>	<b>0.1136</b>	<b>1.0549</b>	<b>1.1538</b>	<b>1.5300e-003</b>		<b>0.0699</b>	<b>0.0699</b>		<b>0.0643</b>	<b>0.0643</b>	<b>0.0000</b>	<b>148.0308</b>	<b>148.0308</b>	<b>0.0479</b>		<b>149.2277</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.10 Lake A - Pipeline to Lakes B and C (6) - 2022**

**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	5.6500e-003	0.2013	0.0394	5.5000e-004	0.0136	3.8000e-004	0.0139	3.9000e-003	3.6000e-004	4.2700e-003		57.8624	57.8624	2.9000e-003		57.9349
Worker	0.0502	0.0288	0.3826	1.2500e-003	0.1314	8.3000e-004	0.1323	0.0349	7.6000e-004	0.0356		124.3153	124.3153	2.7500e-003		124.3840
<b>Total</b>	<b>0.0558</b>	<b>0.2301</b>	<b>0.4220</b>	<b>1.8000e-003</b>	<b>0.1450</b>	<b>1.2100e-003</b>	<b>0.1462</b>	<b>0.0388</b>	<b>1.1200e-003</b>	<b>0.0399</b>		<b>182.1777</b>	<b>182.1777</b>	<b>5.6500e-003</b>		<b>182.3189</b>

**3.11 Lake A - Pipeline to Lakes B and C (7) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6283	5.3479	5.1224	0.0216		0.1880	0.1880		0.1730	0.1730		2,091.7898	2,091.7898	0.6765		2,108.7030
<b>Total</b>	<b>0.6283</b>	<b>5.3479</b>	<b>5.1224</b>	<b>0.0216</b>		<b>0.1880</b>	<b>0.1880</b>		<b>0.1730</b>	<b>0.1730</b>		<b>2,091.7898</b>	<b>2,091.7898</b>	<b>0.6765</b>		<b>2,108.7030</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.11 Lake A - Pipeline to Lakes B and C (7) - 2022**

**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	5.6500e-003	0.2013	0.0394	5.5000e-004	0.0136	3.8000e-004	0.0139	3.9000e-003	3.6000e-004	4.2700e-003		57.8624	57.8624	2.9000e-003		57.9349
Worker	0.0376	0.0216	0.2870	9.4000e-004	0.0986	6.2000e-004	0.0992	0.0262	5.7000e-004	0.0267		93.2365	93.2365	2.0600e-003		93.2880
<b>Total</b>	<b>0.0433</b>	<b>0.2229</b>	<b>0.3264</b>	<b>1.4900e-003</b>	<b>0.1121</b>	<b>1.0000e-003</b>	<b>0.1131</b>	<b>0.0301</b>	<b>9.3000e-004</b>	<b>0.0310</b>		<b>151.0989</b>	<b>151.0989</b>	<b>4.9600e-003</b>		<b>151.2229</b>

**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	0.6283	5.3479	5.1224	0.0216		0.1880	0.1880		0.1730	0.1730	0.0000	2,091.7898	2,091.7898	0.6765		2,108.7030
<b>Total</b>	<b>0.6283</b>	<b>5.3479</b>	<b>5.1224</b>	<b>0.0216</b>		<b>0.1880</b>	<b>0.1880</b>		<b>0.1730</b>	<b>0.1730</b>	<b>0.0000</b>	<b>2,091.7898</b>	<b>2,091.7898</b>	<b>0.6765</b>		<b>2,108.7030</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.11 Lake A - Pipeline to Lakes B and C (7) - 2022**

**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	5.6500e-003	0.2013	0.0394	5.5000e-004	0.0136	3.8000e-004	0.0139	3.9000e-003	3.6000e-004	4.2700e-003		57.8624	57.8624	2.9000e-003		57.9349
Worker	0.0376	0.0216	0.2870	9.4000e-004	0.0986	6.2000e-004	0.0992	0.0262	5.7000e-004	0.0267		93.2365	93.2365	2.0600e-003		93.2880
<b>Total</b>	<b>0.0433</b>	<b>0.2229</b>	<b>0.3264</b>	<b>1.4900e-003</b>	<b>0.1121</b>	<b>1.0000e-003</b>	<b>0.1131</b>	<b>0.0301</b>	<b>9.3000e-004</b>	<b>0.0310</b>		<b>151.0989</b>	<b>151.0989</b>	<b>4.9600e-003</b>		<b>151.2229</b>

**3.12 Lake A - Pipeline to Lakes B and C (8) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3619	0.0000	0.3619	0.0394	0.0000	0.0394			0.0000			0.0000
Off-Road	1.1567	9.3616	8.4812	0.0348		0.3340	0.3340		0.3073	0.3073		3,370.775 1	3,370.775 1	1.0902		3,398.029 5
<b>Total</b>	<b>1.1567</b>	<b>9.3616</b>	<b>8.4812</b>	<b>0.0348</b>	<b>0.3619</b>	<b>0.3340</b>	<b>0.6959</b>	<b>0.0394</b>	<b>0.3073</b>	<b>0.3467</b>		<b>3,370.775 1</b>	<b>3,370.775 1</b>	<b>1.0902</b>		<b>3,398.029 5</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.12 Lake A - Pipeline to Lakes B and C (8) - 2022**

**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	0.0896	2.9263	0.5653	9.3500e-003	35.5145	8.3900e-003	35.5229	3.5782	8.0300e-003	3.5863		994.6728	994.6728	0.0467		995.8392
Vendor	5.6500e-003	0.2013	0.0394	5.5000e-004	0.0136	3.8000e-004	0.0139	3.9000e-003	3.6000e-004	4.2700e-003		57.8624	57.8624	2.9000e-003		57.9349
Worker	0.0502	0.0288	0.3826	1.2500e-003	0.1314	8.3000e-004	0.1323	0.0349	7.6000e-004	0.0356		124.3153	124.3153	2.7500e-003		124.3840
<b>Total</b>	<b>0.1454</b>	<b>3.1564</b>	<b>0.9874</b>	<b>0.0112</b>	<b>35.6595</b>	<b>9.6000e-003</b>	<b>35.6691</b>	<b>3.6170</b>	<b>9.1500e-003</b>	<b>3.6262</b>		<b>1,176.8506</b>	<b>1,176.8506</b>	<b>0.0523</b>		<b>1,178.1582</b>

**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					0.1628	0.0000	0.1628	0.0178	0.0000	0.0178			0.0000			0.0000
Off-Road	1.1567	9.3616	8.4812	0.0348		0.3340	0.3340		0.3073	0.3073	0.0000	3,370.7751	3,370.7751	1.0902		3,398.0295
<b>Total</b>	<b>1.1567</b>	<b>9.3616</b>	<b>8.4812</b>	<b>0.0348</b>	<b>0.1628</b>	<b>0.3340</b>	<b>0.4968</b>	<b>0.0178</b>	<b>0.3073</b>	<b>0.3250</b>	<b>0.0000</b>	<b>3,370.7751</b>	<b>3,370.7751</b>	<b>1.0902</b>		<b>3,398.0295</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.12 Lake A - Pipeline to Lakes B and C (8) - 2022**

**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	0.0896	2.9263	0.5653	9.3500e-003	21.8190	8.3900e-003	21.8274	2.2087	8.0300e-003	2.2167		994.6728	994.6728	0.0467		995.8392
Vendor	5.6500e-003	0.2013	0.0394	5.5000e-004	0.0136	3.8000e-004	0.0139	3.9000e-003	3.6000e-004	4.2700e-003		57.8624	57.8624	2.9000e-003		57.9349
Worker	0.0502	0.0288	0.3826	1.2500e-003	0.1314	8.3000e-004	0.1323	0.0349	7.6000e-004	0.0356		124.3153	124.3153	2.7500e-003		124.3840
<b>Total</b>	<b>0.1454</b>	<b>3.1564</b>	<b>0.9874</b>	<b>0.0112</b>	<b>21.9640</b>	<b>9.6000e-003</b>	<b>21.9736</b>	<b>2.2475</b>	<b>9.1500e-003</b>	<b>2.2566</b>		<b>1,176.8506</b>	<b>1,176.8506</b>	<b>0.0523</b>		<b>1,178.1582</b>

**3.13 Lake A - Pipeline to Lakes B and C (9) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2146	0.0000	0.2146	0.0233	0.0000	0.0233			0.0000			0.0000
Off-Road	1.1567	9.3616	8.4812	0.0348		0.3340	0.3340		0.3073	0.3073		3,370.7751	3,370.7751	1.0902		3,398.0295
<b>Total</b>	<b>1.1567</b>	<b>9.3616</b>	<b>8.4812</b>	<b>0.0348</b>	<b>0.2146</b>	<b>0.3340</b>	<b>0.5486</b>	<b>0.0233</b>	<b>0.3073</b>	<b>0.3306</b>		<b>3,370.7751</b>	<b>3,370.7751</b>	<b>1.0902</b>		<b>3,398.0295</b>



Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.13 Lake A - Pipeline to Lakes B and C (9) - 2022**

**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	0.0269	0.8779	0.1696	2.8000e-003	10.6544	2.5200e-003	10.6569	1.0735	2.4100e-003	1.0759		298.4019	298.4019	0.0140		298.7518
Vendor	5.6500e-003	0.2013	0.0394	5.5000e-004	0.0136	3.8000e-004	0.0139	3.9000e-003	3.6000e-004	4.2700e-003		57.8624	57.8624	2.9000e-003		57.9349
Worker	0.0502	0.0288	0.3826	1.2500e-003	0.1314	8.3000e-004	0.1323	0.0349	7.6000e-004	0.0356		124.3153	124.3153	2.7500e-003		124.3840
<b>Total</b>	<b>0.0827</b>	<b>1.1080</b>	<b>0.5916</b>	<b>4.6000e-003</b>	<b>10.7994</b>	<b>3.7300e-003</b>	<b>10.8031</b>	<b>1.1122</b>	<b>3.5300e-003</b>	<b>1.1158</b>		<b>480.5796</b>	<b>480.5796</b>	<b>0.0197</b>		<b>481.0707</b>

**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					0.0966	0.0000	0.0966	0.0105	0.0000	0.0105			0.0000			0.0000
Off-Road	1.1567	9.3616	8.4812	0.0348		0.3340	0.3340		0.3073	0.3073	0.0000	3,370.775 1	3,370.775 1	1.0902		3,398.029 5
<b>Total</b>	<b>1.1567</b>	<b>9.3616</b>	<b>8.4812</b>	<b>0.0348</b>	<b>0.0966</b>	<b>0.3340</b>	<b>0.4306</b>	<b>0.0105</b>	<b>0.3073</b>	<b>0.3178</b>	<b>0.0000</b>	<b>3,370.775 1</b>	<b>3,370.775 1</b>	<b>1.0902</b>		<b>3,398.029 5</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.13 Lake A - Pipeline to Lakes B and C (9) - 2022**

**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	0.0269	0.8779	0.1696	2.8000e-003	6.5457	2.5200e-003	6.5482	0.6626	2.4100e-003	0.6650		298.4019	298.4019	0.0140		298.7518
Vendor	5.6500e-003	0.2013	0.0394	5.5000e-004	0.0136	3.8000e-004	0.0139	3.9000e-003	3.6000e-004	4.2700e-003		57.8624	57.8624	2.9000e-003		57.9349
Worker	0.0502	0.0288	0.3826	1.2500e-003	0.1314	8.3000e-004	0.1323	0.0349	7.6000e-004	0.0356		124.3153	124.3153	2.7500e-003		124.3840
<b>Total</b>	<b>0.0827</b>	<b>1.1080</b>	<b>0.5916</b>	<b>4.6000e-003</b>	<b>6.6907</b>	<b>3.7300e-003</b>	<b>6.6944</b>	<b>0.7014</b>	<b>3.5300e-003</b>	<b>0.7049</b>		<b>480.5796</b>	<b>480.5796</b>	<b>0.0197</b>		<b>481.0707</b>

**3.14 Lake A - Pipeline to Lakes B and C (10) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2651	0.0000	0.2651	0.0286	0.0000	0.0286			0.0000			0.0000
Off-Road	1.6682	15.4000	13.1261	0.0452		0.5760	0.5760		0.5299	0.5299		4,378.1238	4,378.1238	1.4160		4,413.5232
<b>Total</b>	<b>1.6682</b>	<b>15.4000</b>	<b>13.1261</b>	<b>0.0452</b>	<b>0.2651</b>	<b>0.5760</b>	<b>0.8411</b>	<b>0.0286</b>	<b>0.5299</b>	<b>0.5585</b>		<b>4,378.1238</b>	<b>4,378.1238</b>	<b>1.4160</b>		<b>4,413.5232</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.14 Lake A - Pipeline to Lakes B and C (10) - 2022**

**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	0.0439	0.0252	0.3348	1.0900e-003	0.1150	7.2000e-004	0.1157	0.0305	6.7000e-004	0.0312		108.7759	108.7759	2.4000e-003		108.8360
<b>Total</b>	<b>0.0439</b>	<b>0.0252</b>	<b>0.3348</b>	<b>1.0900e-003</b>	<b>0.1150</b>	<b>7.2000e-004</b>	<b>0.1157</b>	<b>0.0305</b>	<b>6.7000e-004</b>	<b>0.0312</b>		<b>108.7759</b>	<b>108.7759</b>	<b>2.4000e-003</b>		<b>108.8360</b>

**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					0.1193	0.0000	0.1193	0.0129	0.0000	0.0129			0.0000			0.0000
Off-Road	1.6682	15.4000	13.1261	0.0452		0.5760	0.5760		0.5299	0.5299	0.0000	4,378.1238	4,378.1238	1.4160		4,413.5232
<b>Total</b>	<b>1.6682</b>	<b>15.4000</b>	<b>13.1261</b>	<b>0.0452</b>	<b>0.1193</b>	<b>0.5760</b>	<b>0.6953</b>	<b>0.0129</b>	<b>0.5299</b>	<b>0.5428</b>	<b>0.0000</b>	<b>4,378.1238</b>	<b>4,378.1238</b>	<b>1.4160</b>		<b>4,413.5232</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.14 Lake A - Pipeline to Lakes B and C (10) - 2022**

**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	0.0439	0.0252	0.3348	1.0900e-003	0.1150	7.2000e-004	0.1157	0.0305	6.7000e-004	0.0312		108.7759	108.7759	2.4000e-003		108.8360
<b>Total</b>	<b>0.0439</b>	<b>0.0252</b>	<b>0.3348</b>	<b>1.0900e-003</b>	<b>0.1150</b>	<b>7.2000e-004</b>	<b>0.1157</b>	<b>0.0305</b>	<b>6.7000e-004</b>	<b>0.0312</b>		<b>108.7759</b>	<b>108.7759</b>	<b>2.4000e-003</b>		<b>108.8360</b>

**3.15 Lake A - Diversion Structure (1) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5974	4.6164	5.0932	0.0216		0.1652	0.1652		0.1520	0.1520		2,092.6404	2,092.6404	0.6768		2,109.5605
<b>Total</b>	<b>0.5974</b>	<b>4.6164</b>	<b>5.0932</b>	<b>0.0216</b>	<b>0.0000</b>	<b>0.1652</b>	<b>0.1652</b>	<b>0.0000</b>	<b>0.1520</b>	<b>0.1520</b>		<b>2,092.6404</b>	<b>2,092.6404</b>	<b>0.6768</b>		<b>2,109.5605</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.15 Lake A - Diversion Structure (1) - 2023**

**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	4.1400e-003	0.1562	0.0347	5.3000e-004	0.0136	1.6000e-004	0.0137	3.9000e-003	1.6000e-004	4.0600e-003		56.2093	56.2093	2.3200e-003		56.2673
Worker	0.0292	0.0161	0.2196	7.5000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		74.7234	74.7234	1.5400e-003		74.7619
<b>Total</b>	<b>0.0333</b>	<b>0.1723</b>	<b>0.2543</b>	<b>1.2800e-003</b>	<b>0.0957</b>	<b>6.7000e-004</b>	<b>0.0964</b>	<b>0.0257</b>	<b>6.3000e-004</b>	<b>0.0263</b>		<b>130.9327</b>	<b>130.9327</b>	<b>3.8600e-003</b>		<b>131.0292</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5974	4.6164	5.0932	0.0216		0.1652	0.1652		0.1520	0.1520	0.0000	2,092.6404	2,092.6404	0.6768		2,109.5605
<b>Total</b>	<b>0.5974</b>	<b>4.6164</b>	<b>5.0932</b>	<b>0.0216</b>	<b>0.0000</b>	<b>0.1652</b>	<b>0.1652</b>	<b>0.0000</b>	<b>0.1520</b>	<b>0.1520</b>	<b>0.0000</b>	<b>2,092.6404</b>	<b>2,092.6404</b>	<b>0.6768</b>		<b>2,109.5605</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.15 Lake A - Diversion Structure (1) - 2023**

**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	4.1400e-003	0.1562	0.0347	5.3000e-004	0.0136	1.6000e-004	0.0137	3.9000e-003	1.6000e-004	4.0600e-003		56.2093	56.2093	2.3200e-003		56.2673
Worker	0.0292	0.0161	0.2196	7.5000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		74.7234	74.7234	1.5400e-003		74.7619
<b>Total</b>	<b>0.0333</b>	<b>0.1723</b>	<b>0.2543</b>	<b>1.2800e-003</b>	<b>0.0957</b>	<b>6.7000e-004</b>	<b>0.0964</b>	<b>0.0257</b>	<b>6.3000e-004</b>	<b>0.0263</b>		<b>130.9327</b>	<b>130.9327</b>	<b>3.8600e-003</b>		<b>131.0292</b>

**3.16 Lake A - Diversion Structure (2) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3535	0.0000	0.3535	0.0382	0.0000	0.0382			0.0000			0.0000
Off-Road	1.1013	8.1843	8.3817	0.0349		0.2943	0.2943		0.2707	0.2707		3,372.5289	3,372.5289	1.0907		3,399.7975
<b>Total</b>	<b>1.1013</b>	<b>8.1843</b>	<b>8.3817</b>	<b>0.0349</b>	<b>0.3535</b>	<b>0.2943</b>	<b>0.6478</b>	<b>0.0382</b>	<b>0.2707</b>	<b>0.3089</b>		<b>3,372.5289</b>	<b>3,372.5289</b>	<b>1.0907</b>		<b>3,399.7975</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.16 Lake A - Diversion Structure (2) - 2023**

**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	0.0350	0.0194	0.2635	9.0000e-004	0.0986	6.1000e-004	0.0992	0.0262	5.6000e-004	0.0267		89.6681	89.6681	1.8500e-003		89.7143
<b>Total</b>	<b>0.0350</b>	<b>0.0194</b>	<b>0.2635</b>	<b>9.0000e-004</b>	<b>0.0986</b>	<b>6.1000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.6000e-004</b>	<b>0.0267</b>		<b>89.6681</b>	<b>89.6681</b>	<b>1.8500e-003</b>		<b>89.7143</b>

**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					0.1591	0.0000	0.1591	0.0172	0.0000	0.0172			0.0000			0.0000
Off-Road	1.1013	8.1843	8.3817	0.0349		0.2943	0.2943		0.2707	0.2707	0.0000	3,372.5289	3,372.5289	1.0907		3,399.7975
<b>Total</b>	<b>1.1013</b>	<b>8.1843</b>	<b>8.3817</b>	<b>0.0349</b>	<b>0.1591</b>	<b>0.2943</b>	<b>0.4533</b>	<b>0.0172</b>	<b>0.2707</b>	<b>0.2879</b>	<b>0.0000</b>	<b>3,372.5289</b>	<b>3,372.5289</b>	<b>1.0907</b>		<b>3,399.7975</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.16 Lake A - Diversion Structure (2) - 2023**

**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	0.0350	0.0194	0.2635	9.0000e-004	0.0986	6.1000e-004	0.0992	0.0262	5.6000e-004	0.0267		89.6681	89.6681	1.8500e-003		89.7143
<b>Total</b>	<b>0.0350</b>	<b>0.0194</b>	<b>0.2635</b>	<b>9.0000e-004</b>	<b>0.0986</b>	<b>6.1000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.6000e-004</b>	<b>0.0267</b>		<b>89.6681</b>	<b>89.6681</b>	<b>1.8500e-003</b>		<b>89.7143</b>

**3.17 Lake A - Diversion Structure (3) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1655	0.0000	0.1655	0.0193	0.0000	0.0193			0.0000			0.0000
Off-Road	1.0252	7.6277	7.7266	0.0318		0.2754	0.2754		0.2534	0.2534		3,079.6513	3,079.6513	0.9960		3,104.5518
<b>Total</b>	<b>1.0252</b>	<b>7.6277</b>	<b>7.7266</b>	<b>0.0318</b>	<b>0.1655</b>	<b>0.2754</b>	<b>0.4410</b>	<b>0.0193</b>	<b>0.2534</b>	<b>0.2727</b>		<b>3,079.6513</b>	<b>3,079.6513</b>	<b>0.9960</b>		<b>3,104.5518</b>



Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.17 Lake A - Diversion Structure (3) - 2023**

**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	0.1928	6.3159	1.6049	0.0288	113.9425	0.0109	113.9534	11.4802	0.0105	11.4906		3,068.5859	3,068.5859	0.1264		3,071.7448
Vendor	4.1400e-003	0.1562	0.0347	5.3000e-004	0.0136	1.6000e-004	0.0137	3.9000e-003	1.6000e-004	4.0600e-003		56.2093	56.2093	2.3200e-003		56.2673
Worker	0.0467	0.0258	0.3513	1.2000e-003	0.1314	8.1000e-004	0.1323	0.0349	7.5000e-004	0.0356		119.5575	119.5575	2.4600e-003		119.6191
<b>Total</b>	<b>0.2436</b>	<b>6.4979</b>	<b>1.9909</b>	<b>0.0305</b>	<b>114.0874</b>	<b>0.0119</b>	<b>114.0994</b>	<b>11.5190</b>	<b>0.0114</b>	<b>11.5303</b>		<b>3,244.3527</b>	<b>3,244.3527</b>	<b>0.1311</b>		<b>3,247.6312</b>

**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					0.0745	0.0000	0.0745	8.6900e-003	0.0000	8.6900e-003			0.0000			0.0000
Off-Road	1.0252	7.6277	7.7266	0.0318		0.2754	0.2754		0.2534	0.2534	0.0000	3,079.6513	3,079.6513	0.9960		3,104.5518
<b>Total</b>	<b>1.0252</b>	<b>7.6277</b>	<b>7.7266</b>	<b>0.0318</b>	<b>0.0745</b>	<b>0.2754</b>	<b>0.3499</b>	<b>8.6900e-003</b>	<b>0.2534</b>	<b>0.2621</b>	<b>0.0000</b>	<b>3,079.6513</b>	<b>3,079.6513</b>	<b>0.9960</b>		<b>3,104.5518</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.17 Lake A - Diversion Structure (3) - 2023**

**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	0.1928	6.3159	1.6049	0.0288	70.0028	0.0109	70.0137	7.0862	0.0105	7.0967		3,068.5859	3,068.5859	0.1264		3,071.7448
Vendor	4.1400e-003	0.1562	0.0347	5.3000e-004	0.0136	1.6000e-004	0.0137	3.9000e-003	1.6000e-004	4.0600e-003		56.2093	56.2093	2.3200e-003		56.2673
Worker	0.0467	0.0258	0.3513	1.2000e-003	0.1314	8.1000e-004	0.1323	0.0349	7.5000e-004	0.0356		119.5575	119.5575	2.4600e-003		119.6191
<b>Total</b>	<b>0.2436</b>	<b>6.4979</b>	<b>1.9909</b>	<b>0.0305</b>	<b>70.1478</b>	<b>0.0119</b>	<b>70.1597</b>	<b>7.1250</b>	<b>0.0114</b>	<b>7.1363</b>		<b>3,244.3527</b>	<b>3,244.3527</b>	<b>0.1311</b>		<b>3,247.6312</b>

**3.18 Lake A - Diversion Structure (4) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3490	9.9980	10.5158	0.0447		0.3556	0.3556		0.3272	0.3272		4,326.7433	4,326.7433	1.3994		4,361.7272
<b>Total</b>	<b>1.3490</b>	<b>9.9980</b>	<b>10.5158</b>	<b>0.0447</b>	<b>0.5303</b>	<b>0.3556</b>	<b>0.8859</b>	<b>0.0573</b>	<b>0.3272</b>	<b>0.3844</b>		<b>4,326.7433</b>	<b>4,326.7433</b>	<b>1.3994</b>		<b>4,361.7272</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.18 Lake A - Diversion Structure (4) - 2023**

**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	4.1400e-003	0.1562	0.0347	5.3000e-004	0.0136	1.6000e-004	0.0137	3.9000e-003	1.6000e-004	4.0600e-003		56.2093	56.2093	2.3200e-003		56.2673
Worker	0.0525	0.0291	0.3952	1.3500e-003	0.1479	9.1000e-004	0.1488	0.0392	8.4000e-004	0.0401		134.5022	134.5022	2.7700e-003		134.5714
<b>Total</b>	<b>0.0566</b>	<b>0.1852</b>	<b>0.4300</b>	<b>1.8800e-003</b>	<b>0.1614</b>	<b>1.0700e-003</b>	<b>0.1625</b>	<b>0.0431</b>	<b>1.0000e-003</b>	<b>0.0441</b>		<b>190.7115</b>	<b>190.7115</b>	<b>5.0900e-003</b>		<b>190.8388</b>

**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					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	1.3490	9.9980	10.5158	0.0447		0.3556	0.3556		0.3272	0.3272	0.0000	4,326.7433	4,326.7433	1.3994		4,361.7272
<b>Total</b>	<b>1.3490</b>	<b>9.9980</b>	<b>10.5158</b>	<b>0.0447</b>	<b>0.2386</b>	<b>0.3556</b>	<b>0.5942</b>	<b>0.0258</b>	<b>0.3272</b>	<b>0.3529</b>	<b>0.0000</b>	<b>4,326.7433</b>	<b>4,326.7433</b>	<b>1.3994</b>		<b>4,361.7272</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.18 Lake A - Diversion Structure (4) - 2023**

**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	4.1400e-003	0.1562	0.0347	5.3000e-004	0.0136	1.6000e-004	0.0137	3.9000e-003	1.6000e-004	4.0600e-003		56.2093	56.2093	2.3200e-003		56.2673
Worker	0.0525	0.0291	0.3952	1.3500e-003	0.1479	9.1000e-004	0.1488	0.0392	8.4000e-004	0.0401		134.5022	134.5022	2.7700e-003		134.5714
<b>Total</b>	<b>0.0566</b>	<b>0.1852</b>	<b>0.4300</b>	<b>1.8800e-003</b>	<b>0.1614</b>	<b>1.0700e-003</b>	<b>0.1625</b>	<b>0.0431</b>	<b>1.0000e-003</b>	<b>0.0441</b>		<b>190.7115</b>	<b>190.7115</b>	<b>5.0900e-003</b>		<b>190.8388</b>

**3.19 Lake A - Diversion Structure (5) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0605	0.0000	1.0605	0.1145	0.0000	0.1145			0.0000			0.0000
Off-Road	1.1013	8.1843	8.3817	0.0349		0.2943	0.2943		0.2707	0.2707		3,372.5289	3,372.5289	1.0907		3,399.7975
<b>Total</b>	<b>1.1013</b>	<b>8.1843</b>	<b>8.3817</b>	<b>0.0349</b>	<b>1.0605</b>	<b>0.2943</b>	<b>1.3548</b>	<b>0.1145</b>	<b>0.2707</b>	<b>0.3852</b>		<b>3,372.5289</b>	<b>3,372.5289</b>	<b>1.0907</b>		<b>3,399.7975</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.19 Lake A - Diversion Structure (5) - 2023**

**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	0.0350	0.0194	0.2635	9.0000e-004	0.0986	6.1000e-004	0.0992	0.0262	5.6000e-004	0.0267		89.6681	89.6681	1.8500e-003		89.7143
<b>Total</b>	<b>0.0350</b>	<b>0.0194</b>	<b>0.2635</b>	<b>9.0000e-004</b>	<b>0.0986</b>	<b>6.1000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.6000e-004</b>	<b>0.0267</b>		<b>89.6681</b>	<b>89.6681</b>	<b>1.8500e-003</b>		<b>89.7143</b>

**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					0.4772	0.0000	0.4772	0.0515	0.0000	0.0515			0.0000			0.0000
Off-Road	1.1013	8.1843	8.3817	0.0349		0.2943	0.2943		0.2707	0.2707	0.0000	3,372.5289	3,372.5289	1.0907		3,399.7975
<b>Total</b>	<b>1.1013</b>	<b>8.1843</b>	<b>8.3817</b>	<b>0.0349</b>	<b>0.4772</b>	<b>0.2943</b>	<b>0.7715</b>	<b>0.0515</b>	<b>0.2707</b>	<b>0.3222</b>	<b>0.0000</b>	<b>3,372.5289</b>	<b>3,372.5289</b>	<b>1.0907</b>		<b>3,399.7975</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.19 Lake A - Diversion Structure (5) - 2023**

**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	0.0350	0.0194	0.2635	9.0000e-004	0.0986	6.1000e-004	0.0992	0.0262	5.6000e-004	0.0267		89.6681	89.6681	1.8500e-003		89.7143
<b>Total</b>	<b>0.0350</b>	<b>0.0194</b>	<b>0.2635</b>	<b>9.0000e-004</b>	<b>0.0986</b>	<b>6.1000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.6000e-004</b>	<b>0.0267</b>		<b>89.6681</b>	<b>89.6681</b>	<b>1.8500e-003</b>		<b>89.7143</b>

**3.20 Lake A - Diversion Structure (6) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1025	0.9597	1.1448	1.5300e-003		0.0593	0.0593		0.0546	0.0546		148.0308	148.0308	0.0479		149.2277
<b>Total</b>	<b>0.1025</b>	<b>0.9597</b>	<b>1.1448</b>	<b>1.5300e-003</b>		<b>0.0593</b>	<b>0.0593</b>		<b>0.0546</b>	<b>0.0546</b>		<b>148.0308</b>	<b>148.0308</b>	<b>0.0479</b>		<b>149.2277</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.20 Lake A - Diversion Structure (6) - 2023**

**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	0.0350	0.0194	0.2635	9.0000e-004	0.0986	6.1000e-004	0.0992	0.0262	5.6000e-004	0.0267		89.6681	89.6681	1.8500e-003		89.7143
<b>Total</b>	<b>0.0350</b>	<b>0.0194</b>	<b>0.2635</b>	<b>9.0000e-004</b>	<b>0.0986</b>	<b>6.1000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.6000e-004</b>	<b>0.0267</b>		<b>89.6681</b>	<b>89.6681</b>	<b>1.8500e-003</b>		<b>89.7143</b>

**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	0.1025	0.9597	1.1448	1.5300e-003		0.0593	0.0593		0.0546	0.0546	0.0000	148.0308	148.0308	0.0479		149.2277
<b>Total</b>	<b>0.1025</b>	<b>0.9597</b>	<b>1.1448</b>	<b>1.5300e-003</b>		<b>0.0593</b>	<b>0.0593</b>		<b>0.0546</b>	<b>0.0546</b>	<b>0.0000</b>	<b>148.0308</b>	<b>148.0308</b>	<b>0.0479</b>		<b>149.2277</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.20 Lake A - Diversion Structure (6) - 2023**

**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	0.0350	0.0194	0.2635	9.0000e-004	0.0986	6.1000e-004	0.0992	0.0262	5.6000e-004	0.0267		89.6681	89.6681	1.8500e-003		89.7143
<b>Total</b>	<b>0.0350</b>	<b>0.0194</b>	<b>0.2635</b>	<b>9.0000e-004</b>	<b>0.0986</b>	<b>6.1000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.6000e-004</b>	<b>0.0267</b>		<b>89.6681</b>	<b>89.6681</b>	<b>1.8500e-003</b>		<b>89.7143</b>

**3.21 Lake A - Diversion Structure (7) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.9353	7.3748	8.6539	0.0271		0.2853	0.2853		0.2624	0.2624		2,622.0176	2,622.0176	0.8480		2,643.2180
<b>Total</b>	<b>0.9353</b>	<b>7.3748</b>	<b>8.6539</b>	<b>0.0271</b>	<b>0.5303</b>	<b>0.2853</b>	<b>0.8155</b>	<b>0.0573</b>	<b>0.2624</b>	<b>0.3197</b>		<b>2,622.0176</b>	<b>2,622.0176</b>	<b>0.8480</b>		<b>2,643.2180</b>



Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.21 Lake A - Diversion Structure (7) - 2023**

**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	0.0350	0.0194	0.2635	9.0000e-004	0.0986	6.1000e-004	0.0992	0.0262	5.6000e-004	0.0267		89.6681	89.6681	1.8500e-003		89.7143
<b>Total</b>	<b>0.0350</b>	<b>0.0194</b>	<b>0.2635</b>	<b>9.0000e-004</b>	<b>0.0986</b>	<b>6.1000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.6000e-004</b>	<b>0.0267</b>		<b>89.6681</b>	<b>89.6681</b>	<b>1.8500e-003</b>		<b>89.7143</b>

**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					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.9353	7.3748	8.6539	0.0271		0.2853	0.2853		0.2624	0.2624	0.0000	2,622.0176	2,622.0176	0.8480		2,643.2180
<b>Total</b>	<b>0.9353</b>	<b>7.3748</b>	<b>8.6539</b>	<b>0.0271</b>	<b>0.2386</b>	<b>0.2853</b>	<b>0.5239</b>	<b>0.0258</b>	<b>0.2624</b>	<b>0.2882</b>	<b>0.0000</b>	<b>2,622.0176</b>	<b>2,622.0176</b>	<b>0.8480</b>		<b>2,643.2180</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.21 Lake A - Diversion Structure (7) - 2023**

**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	0.0350	0.0194	0.2635	9.0000e-004	0.0986	6.1000e-004	0.0992	0.0262	5.6000e-004	0.0267		89.6681	89.6681	1.8500e-003		89.7143
<b>Total</b>	<b>0.0350</b>	<b>0.0194</b>	<b>0.2635</b>	<b>9.0000e-004</b>	<b>0.0986</b>	<b>6.1000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.6000e-004</b>	<b>0.0267</b>		<b>89.6681</b>	<b>89.6681</b>	<b>1.8500e-003</b>		<b>89.7143</b>

**3.22 Lake A - Diversion Structure (8) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0605	0.0000	1.0605	0.1145	0.0000	0.1145			0.0000			0.0000
Off-Road	1.1013	8.1843	8.3817	0.0349		0.2943	0.2943		0.2707	0.2707		3,372.5289	3,372.5289	1.0907		3,399.7975
<b>Total</b>	<b>1.1013</b>	<b>8.1843</b>	<b>8.3817</b>	<b>0.0349</b>	<b>1.0605</b>	<b>0.2943</b>	<b>1.3548</b>	<b>0.1145</b>	<b>0.2707</b>	<b>0.3852</b>		<b>3,372.5289</b>	<b>3,372.5289</b>	<b>1.0907</b>		<b>3,399.7975</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.22 Lake A - Diversion Structure (8) - 2023**

**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	0.0350	0.0194	0.2635	9.0000e-004	0.0986	6.1000e-004	0.0992	0.0262	5.6000e-004	0.0267		89.6681	89.6681	1.8500e-003		89.7143
<b>Total</b>	<b>0.0350</b>	<b>0.0194</b>	<b>0.2635</b>	<b>9.0000e-004</b>	<b>0.0986</b>	<b>6.1000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.6000e-004</b>	<b>0.0267</b>		<b>89.6681</b>	<b>89.6681</b>	<b>1.8500e-003</b>		<b>89.7143</b>

**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					0.4772	0.0000	0.4772	0.0515	0.0000	0.0515			0.0000			0.0000
Off-Road	1.1013	8.1843	8.3817	0.0349		0.2943	0.2943		0.2707	0.2707	0.0000	3,372.5289	3,372.5289	1.0907		3,399.7975
<b>Total</b>	<b>1.1013</b>	<b>8.1843</b>	<b>8.3817</b>	<b>0.0349</b>	<b>0.4772</b>	<b>0.2943</b>	<b>0.7715</b>	<b>0.0515</b>	<b>0.2707</b>	<b>0.3222</b>	<b>0.0000</b>	<b>3,372.5289</b>	<b>3,372.5289</b>	<b>1.0907</b>		<b>3,399.7975</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.22 Lake A - Diversion Structure (8) - 2023**

**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	0.0350	0.0194	0.2635	9.0000e-004	0.0986	6.1000e-004	0.0992	0.0262	5.6000e-004	0.0267		89.6681	89.6681	1.8500e-003		89.7143
<b>Total</b>	<b>0.0350</b>	<b>0.0194</b>	<b>0.2635</b>	<b>9.0000e-004</b>	<b>0.0986</b>	<b>6.1000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.6000e-004</b>	<b>0.0267</b>		<b>89.6681</b>	<b>89.6681</b>	<b>1.8500e-003</b>		<b>89.7143</b>

**3.23 Lake A - Diversion Structure (9) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0860	0.0000	1.0860	0.1184	0.0000	0.1184			0.0000			0.0000
Off-Road	1.1013	8.1843	8.3817	0.0349		0.2943	0.2943		0.2707	0.2707		3,372.5289	3,372.5289	1.0907		3,399.7975
<b>Total</b>	<b>1.1013</b>	<b>8.1843</b>	<b>8.3817</b>	<b>0.0349</b>	<b>1.0860</b>	<b>0.2943</b>	<b>1.3802</b>	<b>0.1184</b>	<b>0.2707</b>	<b>0.3891</b>		<b>3,372.5289</b>	<b>3,372.5289</b>	<b>1.0907</b>		<b>3,399.7975</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.23 Lake A - Diversion Structure (9) - 2023**

**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	0.1802	5.9058	1.5007	0.0269	106.5436	0.0102	106.5538	10.7347	9.7800e-003	10.7445		2,869.3271	2,869.3271	0.1182		2,872.2809
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	0.0350	0.0194	0.2635	9.0000e-004	0.0986	6.1000e-004	0.0992	0.0262	5.6000e-004	0.0267		89.6681	89.6681	1.8500e-003		89.7143
<b>Total</b>	<b>0.2152</b>	<b>5.9251</b>	<b>1.7641</b>	<b>0.0278</b>	<b>106.6422</b>	<b>0.0108</b>	<b>106.6530</b>	<b>10.7609</b>	<b>0.0103</b>	<b>10.7712</b>		<b>2,958.9952</b>	<b>2,958.9952</b>	<b>0.1200</b>		<b>2,961.9952</b>

**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					0.4887	0.0000	0.4887	0.0533	0.0000	0.0533			0.0000			0.0000
Off-Road	1.1013	8.1843	8.3817	0.0349		0.2943	0.2943		0.2707	0.2707	0.0000	3,372.5289	3,372.5289	1.0907		3,399.7975
<b>Total</b>	<b>1.1013</b>	<b>8.1843</b>	<b>8.3817</b>	<b>0.0349</b>	<b>0.4887</b>	<b>0.2943</b>	<b>0.7829</b>	<b>0.0533</b>	<b>0.2707</b>	<b>0.3240</b>	<b>0.0000</b>	<b>3,372.5289</b>	<b>3,372.5289</b>	<b>1.0907</b>		<b>3,399.7975</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.23 Lake A - Diversion Structure (9) - 2023**

**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	0.1802	5.9058	1.5007	0.0269	65.4571	0.0102	65.4674	6.6261	9.7800e-003	6.6359		2,869.3271	2,869.3271	0.1182		2,872.2809
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	0.0350	0.0194	0.2635	9.0000e-004	0.0986	6.1000e-004	0.0992	0.0262	5.6000e-004	0.0267		89.6681	89.6681	1.8500e-003		89.7143
<b>Total</b>	<b>0.2152</b>	<b>5.9251</b>	<b>1.7641</b>	<b>0.0278</b>	<b>65.5557</b>	<b>0.0108</b>	<b>65.5665</b>	<b>6.6522</b>	<b>0.0103</b>	<b>6.6626</b>		<b>2,958.9952</b>	<b>2,958.9952</b>	<b>0.1200</b>		<b>2,961.9952</b>

**3.24 Lake A - Diversion Structure (10) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5974	4.6164	5.0932	0.0216		0.1652	0.1652		0.1520	0.1520		2,092.6404	2,092.6404	0.6768		2,109.5605
<b>Total</b>	<b>0.5974</b>	<b>4.6164</b>	<b>5.0932</b>	<b>0.0216</b>	<b>0.0000</b>	<b>0.1652</b>	<b>0.1652</b>	<b>0.0000</b>	<b>0.1520</b>	<b>0.1520</b>		<b>2,092.6404</b>	<b>2,092.6404</b>	<b>0.6768</b>		<b>2,109.5605</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.24 Lake A - Diversion Structure (10) - 2023**

**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	4.1400e-003	0.1562	0.0347	5.3000e-004	0.0136	1.6000e-004	0.0137	3.9000e-003	1.6000e-004	4.0600e-003		56.2093	56.2093	2.3200e-003		56.2673
Worker	0.0292	0.0161	0.2196	7.5000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		74.7234	74.7234	1.5400e-003		74.7619
<b>Total</b>	<b>0.0333</b>	<b>0.1723</b>	<b>0.2543</b>	<b>1.2800e-003</b>	<b>0.0957</b>	<b>6.7000e-004</b>	<b>0.0964</b>	<b>0.0257</b>	<b>6.3000e-004</b>	<b>0.0263</b>		<b>130.9327</b>	<b>130.9327</b>	<b>3.8600e-003</b>		<b>131.0292</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5974	4.6164	5.0932	0.0216		0.1652	0.1652		0.1520	0.1520	0.0000	2,092.6404	2,092.6404	0.6768		2,109.5605
<b>Total</b>	<b>0.5974</b>	<b>4.6164</b>	<b>5.0932</b>	<b>0.0216</b>	<b>0.0000</b>	<b>0.1652</b>	<b>0.1652</b>	<b>0.0000</b>	<b>0.1520</b>	<b>0.1520</b>	<b>0.0000</b>	<b>2,092.6404</b>	<b>2,092.6404</b>	<b>0.6768</b>		<b>2,109.5605</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.24 Lake A - Diversion Structure (10) - 2023**

**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	4.1400e-003	0.1562	0.0347	5.3000e-004	0.0136	1.6000e-004	0.0137	3.9000e-003	1.6000e-004	4.0600e-003		56.2093	56.2093	2.3200e-003		56.2673
Worker	0.0292	0.0161	0.2196	7.5000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		74.7234	74.7234	1.5400e-003		74.7619
<b>Total</b>	<b>0.0333</b>	<b>0.1723</b>	<b>0.2543</b>	<b>1.2800e-003</b>	<b>0.0957</b>	<b>6.7000e-004</b>	<b>0.0964</b>	<b>0.0257</b>	<b>6.3000e-004</b>	<b>0.0263</b>		<b>130.9327</b>	<b>130.9327</b>	<b>3.8600e-003</b>		<b>131.0292</b>

**3.25 Lake A - Fill Percolation Ponds - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.2947	0.0000	7.2947	3.4476	0.0000	3.4476			0.0000			0.0000
Off-Road	1.7163	17.5914	12.3378	0.0277		0.7077	0.7077		0.6510	0.6510		2,686.0937	2,686.0937	0.8687		2,707.8121
<b>Total</b>	<b>1.7163</b>	<b>17.5914</b>	<b>12.3378</b>	<b>0.0277</b>	<b>7.2947</b>	<b>0.7077</b>	<b>8.0024</b>	<b>3.4476</b>	<b>0.6510</b>	<b>4.0987</b>		<b>2,686.0937</b>	<b>2,686.0937</b>	<b>0.8687</b>		<b>2,707.8121</b>



Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.25 Lake A - Fill Percolation Ponds - 2023**

**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	0.0292	0.0161	0.2196	7.5000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		74.7234	74.7234	1.5400e-003		74.7619
<b>Total</b>	<b>0.0292</b>	<b>0.0161</b>	<b>0.2196</b>	<b>7.5000e-004</b>	<b>0.0822</b>	<b>5.1000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.7000e-004</b>	<b>0.0223</b>		<b>74.7234</b>	<b>74.7234</b>	<b>1.5400e-003</b>		<b>74.7619</b>

**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					3.2826	0.0000	3.2826	1.5514	0.0000	1.5514			0.0000			0.0000
Off-Road	1.7163	17.5914	12.3378	0.0277		0.7077	0.7077		0.6510	0.6510	0.0000	2,686.0937	2,686.0937	0.8687		2,707.8121
<b>Total</b>	<b>1.7163</b>	<b>17.5914</b>	<b>12.3378</b>	<b>0.0277</b>	<b>3.2826</b>	<b>0.7077</b>	<b>3.9903</b>	<b>1.5514</b>	<b>0.6510</b>	<b>2.2025</b>	<b>0.0000</b>	<b>2,686.0937</b>	<b>2,686.0937</b>	<b>0.8687</b>		<b>2,707.8121</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.25 Lake A - Fill Percolation Ponds - 2023**

**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	0.0292	0.0161	0.2196	7.5000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		74.7234	74.7234	1.5400e-003		74.7619
<b>Total</b>	<b>0.0292</b>	<b>0.0161</b>	<b>0.2196</b>	<b>7.5000e-004</b>	<b>0.0822</b>	<b>5.1000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.7000e-004</b>	<b>0.0223</b>		<b>74.7234</b>	<b>74.7234</b>	<b>1.5400e-003</b>		<b>74.7619</b>

**3.26 Lake A - Revegetation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5039	3.5679	3.2885	0.0132		0.1290	0.1290		0.1187	0.1187		1,279.8885	1,279.8885	0.4139		1,290.2371
<b>Total</b>	<b>0.5039</b>	<b>3.5679</b>	<b>3.2885</b>	<b>0.0132</b>	<b>0.0000</b>	<b>0.1290</b>	<b>0.1290</b>	<b>0.0000</b>	<b>0.1187</b>	<b>0.1187</b>		<b>1,279.8885</b>	<b>1,279.8885</b>	<b>0.4139</b>		<b>1,290.2371</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.26 Lake A - Revegetation - 2023**

**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	0.0292	0.0161	0.2196	7.5000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		74.7234	74.7234	1.5400e-003		74.7619
<b>Total</b>	<b>0.0292</b>	<b>0.0161</b>	<b>0.2196</b>	<b>7.5000e-004</b>	<b>0.0822</b>	<b>5.1000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.7000e-004</b>	<b>0.0223</b>		<b>74.7234</b>	<b>74.7234</b>	<b>1.5400e-003</b>		<b>74.7619</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5039	3.5679	3.2885	0.0132		0.1290	0.1290		0.1187	0.1187	0.0000	1,279.8885	1,279.8885	0.4139		1,290.2371
<b>Total</b>	<b>0.5039</b>	<b>3.5679</b>	<b>3.2885</b>	<b>0.0132</b>	<b>0.0000</b>	<b>0.1290</b>	<b>0.1290</b>	<b>0.0000</b>	<b>0.1187</b>	<b>0.1187</b>	<b>0.0000</b>	<b>1,279.8885</b>	<b>1,279.8885</b>	<b>0.4139</b>		<b>1,290.2371</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**3.26 Lake A - Revegetation - 2023**

**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	0.0292	0.0161	0.2196	7.5000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		74.7234	74.7234	1.5400e-003		74.7619
<b>Total</b>	<b>0.0292</b>	<b>0.0161</b>	<b>0.2196</b>	<b>7.5000e-004</b>	<b>0.0822</b>	<b>5.1000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.7000e-004</b>	<b>0.0223</b>		<b>74.7234</b>	<b>74.7234</b>	<b>1.5400e-003</b>		<b>74.7619</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.563555	0.037576	0.190339	0.105468	0.014285	0.005132	0.025195	0.047484	0.002230	0.002277	0.005427	0.000351	0.000679

5.0 Energy Detail

Historical Energy Use: N

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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	1.5000e-003	1.5000e-004	0.0163	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0350	0.0350	9.0000e-005		0.0373
Unmitigated	1.5000e-003	1.5000e-004	0.0163	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0350	0.0350	9.0000e-005		0.0373

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**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	1.5000e-003	1.5000e-004	0.0163	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0350	0.0350	9.0000e-005		0.0373
<b>Total</b>	<b>1.5000e-003</b>	<b>1.5000e-004</b>	<b>0.0163</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>0.0350</b>	<b>0.0350</b>	<b>9.0000e-005</b>		<b>0.0373</b>

**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	1.5000e-003	1.5000e-004	0.0163	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0350	0.0350	9.0000e-005		0.0373
<b>Total</b>	<b>1.5000e-003</b>	<b>1.5000e-004</b>	<b>0.0163</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>0.0350</b>	<b>0.0350</b>	<b>9.0000e-005</b>		<b>0.0373</b>

**7.0 Water Detail**



## Eliot Quarry - Lake A Reclamation Activities - Alameda County, Summer

**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment****Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**Eliot Quarry - Lake A Reclamation Activities**  
**Alameda County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	160.00	User Defined Unit	160.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	63
<b>Climate Zone</b>	4			<b>Operational Year</b>	2025
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - Lake A reclamation activity per Revised Reclamation Plan.

Land Use - Lake A area approximately 160 acres north of ADV.

Construction Phase - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

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Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Trips and VMT - See CalEEMod modeling assumptions attachment.

On-road Fugitive Dust - See CalEEMod modeling assumptions attachment.

Grading - See CalEEMod modeling assumptions attachment.

Energy Use -

Construction Off-road Equipment Mitigation - Mitigation assumptions based on BAAQMD CEQA Guide BMPs for PM reduction.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

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Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

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tblGrading	MaterialImported	0.00	450.00
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Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

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Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

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Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

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Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

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tblOffRoadEquipment	UsageHours	8.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblTripsAndVMT	HaulingTripNumber	28.00	36.00
tblTripsAndVMT	HaulingTripNumber	28.00	36.00
tblTripsAndVMT	HaulingTripNumber	292.00	308.00
tblTripsAndVMT	HaulingTripNumber	28.00	36.00
tblTripsAndVMT	HaulingTripNumber	56.00	72.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripNumber	8.00	16.00
tblTripsAndVMT	WorkerTripNumber	8.00	16.00
tblTripsAndVMT	WorkerTripNumber	10.00	14.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	8.00	16.00
tblTripsAndVMT	WorkerTripNumber	10.00	18.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripNumber	13.00	12.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	0.00	16.00

## Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

tblTripsAndVMT	WorkerTripNumber	25.00	26.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	14.00
tblTripsAndVMT	WorkerTripNumber	0.00	16.00

**2.0 Emissions Summary**

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Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.5000e-003	1.5000e-004	0.0163	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0350	0.0350	9.0000e-005		0.0373
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
<b>Total</b>	<b>1.5000e-003</b>	<b>1.5000e-004</b>	<b>0.0163</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>0.0350</b>	<b>0.0350</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.0373</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.5000e-003	1.5000e-004	0.0163	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0350	0.0350	9.0000e-005		0.0373
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
<b>Total</b>	<b>1.5000e-003</b>	<b>1.5000e-004</b>	<b>0.0163</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>0.0350</b>	<b>0.0350</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.0373</b>

## Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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	Lake A - Convert Berm to Island	Grading	4/4/2022	4/15/2022	5	10	Excavate to convert berm to island
2	Lake A - ADV Berms	Grading	4/18/2022	4/29/2022	5	10	Install berms along ADV
3	Lake A - Overflow Outlet to ADV	Grading	5/2/2022	5/6/2022	5	5	Finegrade and place rip rap
4	Lake A - Pipeline to Lakes B and C (1)	Building Construction	5/9/2022	5/13/2022	5	5	Install Vault 1 at Lake A inlet with slide gates
5	Lake A - Pipeline to Lakes B and C (2)	Grading	5/16/2022	6/14/2022	5	22	Cut-and-cover Lake A pipe section
6	Lake A - Pipeline to Lakes B and C (3)	Building Construction	6/15/2022	6/21/2022	5	5	Install 84" Lake A pipe
7	Lake A - Pipeline to Lakes B and C (4)	Grading	6/22/2022	6/23/2022	5	2	Isabel JB excavate bore/receiving pits&
8	Lake A - Pipeline to Lakes B and C (5)	Building Construction	6/24/2022	7/5/2022	5	8	Isabel JB bore 108" casing&
9	Lake A - Pipeline to Lakes B and C (6)	Building Construction	7/6/2022	7/12/2022	5	5	Install Vault 2 with Lake B/C diversion box
10	Lake A - Pipeline to Lakes B and C (7)	Building Construction	7/13/2022	7/14/2022	5	2	Band/skid/install 84" pipe thru Isabel conduit
11	Lake A - Pipeline to Lakes B and C (8)	Grading	7/15/2022	7/19/2022	5	3	Install 30" pipe turnout to Lake B with rip rap
12	Lake A - Pipeline to Lakes B and C (9)	Grading	7/20/2022	8/2/2022	5	10	Install 84" pipe from Vault 2 to Lake C
13	Lake A - Pipeline to Lakes B and C (10)	Grading	8/3/2022	8/8/2022	5	4	Backfill bore/receiving pits and Vault 2 box
14	Lake A - Diversion Structure (1)	Site Preparation	5/1/2023	5/2/2023	5	2	Install pumps for low flow diversion
15	Lake A - Diversion Structure (2)	Grading	5/3/2023	5/5/2023	5	3	Excavate infiltration structure
16	Lake A - Diversion Structure (3)	Grading	5/8/2023	5/17/2023	5	8	Install gravel / pipe
17	Lake A - Diversion Structure (4)	Grading	5/18/2023	5/19/2023	5	2	Dig / lay / backfill discharge conduit

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

18	Lake A - Diversion Structure (5)	Grading	5/22/2023	5/22/2023	5	1	Grade low-head dam
19	Lake A - Diversion Structure (6)	Building Construction	5/23/2023	6/5/2023	5	10	Frame and pour concrete
20	Lake A - Diversion Structure (7)	Grading	6/6/2023	6/7/2023	5	2	Backfill dam
21	Lake A - Diversion Structure (8)	Grading	6/8/2023	6/8/2023	5	1	Grade fishway
22	Lake A - Diversion Structure (9)	Grading	6/9/2023	6/9/2023	5	1	Place rip rap
23	Lake A - Diversion Structure (10)	Site Preparation	6/12/2023	6/12/2023	5	1	Remove pumps
24	Lake A - Fill Percolation Ponds	Grading	6/12/2023	6/16/2023	5	5	Fill percolation ponds
25	Lake A - Revegetation	Site Preparation	10/2/2023	10/27/2023	5	20	Landscaping and revegetation

**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; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Lake A - Convert Berm to Island	Excavators	1	8.00	396	0.38
Lake A - Convert Berm to Island	Graders	0	0.00	187	0.41
Lake A - Convert Berm to Island	Off-Highway Trucks	2	8.00	511	0.38
Lake A - Convert Berm to Island	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Convert Berm to Island	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Convert Berm to Island	Scrapers	0	0.00	367	0.48
Lake A - Convert Berm to Island	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake A - ADV Berms	Excavators	0	0.00	158	0.38
Lake A - ADV Berms	Graders	1	8.00	238	0.41
Lake A - ADV Berms	Off-Highway Trucks	1	8.00	402	0.38

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

Lake A - ADV Berms	Rollers	1	8.00	405	0.38
Lake A - ADV Berms	Rubber Tired Dozers	1	8.00	303	0.40
Lake A - ADV Berms	Scrapers	0	0.00	367	0.48
Lake A - ADV Berms	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Overflow Outlet to ADV	Excavators	1	8.00	396	0.38
Lake A - Overflow Outlet to ADV	Graders	0	0.00	187	0.41
Lake A - Overflow Outlet to ADV	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Overflow Outlet to ADV	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Overflow Outlet to ADV	Scrapers	0	0.00	367	0.48
Lake A - Overflow Outlet to ADV	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Pipeline to Lakes B and C (1)	Cranes	0	0.00	231	0.29
Lake A - Pipeline to Lakes B and C (1)	Forklifts	1	8.00	89	0.20
Lake A - Pipeline to Lakes B and C (1)	Generator Sets	0	0.00	84	0.74
Lake A - Pipeline to Lakes B and C (1)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake A - Pipeline to Lakes B and C (1)	Welders	0	0.00	46	0.45
Lake A - Pipeline to Lakes B and C (2)	Excavators	0	0.00	158	0.38
Lake A - Pipeline to Lakes B and C (2)	Graders	1	8.00	238	0.41
Lake A - Pipeline to Lakes B and C (2)	Off-Highway Trucks	2	8.00	402	0.38
Lake A - Pipeline to Lakes B and C (2)	Rollers	1	8.00	405	0.38
Lake A - Pipeline to Lakes B and C (2)	Rubber Tired Dozers	1	8.00	600	0.40
Lake A - Pipeline to Lakes B and C (2)	Rubber Tired Dozers	1	8.00	303	0.40
Lake A - Pipeline to Lakes B and C (2)	Scrapers	4	8.00	570	0.48
Lake A - Pipeline to Lakes B and C (2)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake A - Pipeline to Lakes B and C (3)	Cranes	0	0.00	231	0.29
Lake A - Pipeline to Lakes B and C (3)	Excavators	1	8.00	396	0.38
Lake A - Pipeline to Lakes B and C (3)	Forklifts	0	0.00	89	0.20
Lake A - Pipeline to Lakes B and C (3)	Generator Sets	0	0.00	84	0.74

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

Lake A - Pipeline to Lakes B and C (3)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Pipeline to Lakes B and C (3)	Welders	0	0.00	46	0.45
Lake A - Pipeline to Lakes B and C (4)	Excavators	1	8.00	396	0.38
Lake A - Pipeline to Lakes B and C (4)	Graders	0	0.00	187	0.41
Lake A - Pipeline to Lakes B and C (4)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Pipeline to Lakes B and C (4)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Pipeline to Lakes B and C (4)	Scrapers	0	0.00	367	0.48
Lake A - Pipeline to Lakes B and C (4)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Pipeline to Lakes B and C (5)	Bore/Drill Rigs	1	8.00	221	0.50
Lake A - Pipeline to Lakes B and C (5)	Cranes	1	8.00	231	0.29
Lake A - Pipeline to Lakes B and C (5)	Forklifts	0	0.00	89	0.20
Lake A - Pipeline to Lakes B and C (5)	Generator Sets	0	0.00	84	0.74
Lake A - Pipeline to Lakes B and C (5)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Pipeline to Lakes B and C (5)	Welders	0	0.00	46	0.45
Lake A - Pipeline to Lakes B and C (6)	Cranes	0	0.00	231	0.29
Lake A - Pipeline to Lakes B and C (6)	Forklifts	1	8.00	89	0.20
Lake A - Pipeline to Lakes B and C (6)	Generator Sets	0	0.00	84	0.74
Lake A - Pipeline to Lakes B and C (6)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake A - Pipeline to Lakes B and C (6)	Welders	0	0.00	46	0.45
Lake A - Pipeline to Lakes B and C (7)	Cranes	0	0.00	231	0.29
Lake A - Pipeline to Lakes B and C (7)	Excavators	1	8.00	396	0.38
Lake A - Pipeline to Lakes B and C (7)	Forklifts	0	0.00	89	0.20
Lake A - Pipeline to Lakes B and C (7)	Generator Sets	0	0.00	84	0.74
Lake A - Pipeline to Lakes B and C (7)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Pipeline to Lakes B and C (7)	Welders	0	0.00	46	0.45
Lake A - Pipeline to Lakes B and C (8)	Excavators	1	8.00	396	0.38
Lake A - Pipeline to Lakes B and C (8)	Graders	0	0.00	187	0.41

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

Lake A - Pipeline to Lakes B and C (8)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Pipeline to Lakes B and C (8)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Pipeline to Lakes B and C (8)	Scrapers	0	0.00	367	0.48
Lake A - Pipeline to Lakes B and C (8)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Pipeline to Lakes B and C (9)	Excavators	1	8.00	396	0.38
Lake A - Pipeline to Lakes B and C (9)	Graders	0	0.00	187	0.41
Lake A - Pipeline to Lakes B and C (9)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Pipeline to Lakes B and C (9)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Pipeline to Lakes B and C (9)	Scrapers	0	0.00	367	0.48
Lake A - Pipeline to Lakes B and C (9)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Pipeline to Lakes B and C (10)	Excavators	1	8.00	303	0.38
Lake A - Pipeline to Lakes B and C (10)	Graders	0	0.00	187	0.41
Lake A - Pipeline to Lakes B and C (10)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Pipeline to Lakes B and C (10)	Rollers	1	8.00	405	0.38
Lake A - Pipeline to Lakes B and C (10)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Pipeline to Lakes B and C (10)	Scrapers	0	0.00	367	0.48
Lake A - Pipeline to Lakes B and C (10)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (1)	Excavators	1	8.00	396	0.38
Lake A - Diversion Structure (1)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (1)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (2)	Excavators	1	8.00	396	0.38
Lake A - Diversion Structure (2)	Graders	0	0.00	187	0.41
Lake A - Diversion Structure (2)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Diversion Structure (2)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (2)	Scrapers	0	0.00	367	0.48
Lake A - Diversion Structure (2)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (3)	Excavators	1	8.00	303	0.38

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

Lake A - Diversion Structure (3)	Graders	0	0.00	187	0.41
Lake A - Diversion Structure (3)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Diversion Structure (3)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (3)	Scrapers	0	0.00	367	0.48
Lake A - Diversion Structure (3)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (4)	Excavators	1	8.00	396	0.38
Lake A - Diversion Structure (4)	Excavators	1	8.00	303	0.38
Lake A - Diversion Structure (4)	Graders	0	0.00	187	0.41
Lake A - Diversion Structure (4)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Diversion Structure (4)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (4)	Scrapers	0	0.00	367	0.48
Lake A - Diversion Structure (4)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (5)	Excavators	1	8.00	396	0.38
Lake A - Diversion Structure (5)	Graders	0	0.00	187	0.41
Lake A - Diversion Structure (5)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Diversion Structure (5)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (5)	Scrapers	0	0.00	367	0.48
Lake A - Diversion Structure (5)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (6)	Cranes	0	0.00	231	0.29
Lake A - Diversion Structure (6)	Forklifts	1	8.00	89	0.20
Lake A - Diversion Structure (6)	Generator Sets	0	0.00	84	0.74
Lake A - Diversion Structure (6)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake A - Diversion Structure (6)	Welders	0	0.00	46	0.45
Lake A - Diversion Structure (7)	Excavators	0	0.00	158	0.38
Lake A - Diversion Structure (7)	Graders	0	0.00	187	0.41
Lake A - Diversion Structure (7)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Diversion Structure (7)	Rollers	1	8.00	157	0.38



Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

Lake A - Diversion Structure (7)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (7)	Scrapers	0	0.00	367	0.48
Lake A - Diversion Structure (7)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (8)	Excavators	1	8.00	396	0.38
Lake A - Diversion Structure (8)	Graders	0	0.00	187	0.41
Lake A - Diversion Structure (8)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Diversion Structure (8)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (8)	Scrapers	0	0.00	367	0.48
Lake A - Diversion Structure (8)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (9)	Excavators	1	8.00	396	0.38
Lake A - Diversion Structure (9)	Graders	0	0.00	187	0.41
Lake A - Diversion Structure (9)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Diversion Structure (9)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (9)	Scrapers	0	0.00	367	0.48
Lake A - Diversion Structure (9)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (10)	Excavators	1	8.00	396	0.38
Lake A - Diversion Structure (10)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (10)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Fill Percolation Ponds	Excavators	0	0.00	158	0.38
Lake A - Fill Percolation Ponds	Graders	1	8.00	238	0.41
Lake A - Fill Percolation Ponds	Rubber Tired Dozers	1	8.00	303	0.40
Lake A - Fill Percolation Ponds	Scrapers	0	0.00	367	0.48
Lake A - Fill Percolation Ponds	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Revegetation	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Revegetation	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Revegetation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**Trips and VMT**

## Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

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
Lake A - Convert Berm to Island	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - ADV Berms	5	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Overflow Outlet to ADV	3	12.00	0.00	72.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (1)	1	16.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (2)	10	26.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (3)	2	12.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (4)	3	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (5)	3	14.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (6)	1	16.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (7)	2	12.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (8)	3	16.00	2.00	36.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (9)	3	16.00	2.00	36.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (10)	4	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (1)	2	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (2)	3	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (3)	3	16.00	2.00	308.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (4)	4	18.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (5)	3	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (6)	1	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (7)	3	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (8)	3	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (9)	3	12.00	0.00	36.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (10)	2	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Fill Percolation Ponds	3	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Revegetation	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 Lake A - Convert Berm to Island - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2121	0.0000	0.2121	0.0229	0.0000	0.0229			0.0000			0.0000
Off-Road	2.6717	22.3082	18.1326	0.0596		0.8391	0.8391		0.7719	0.7719		5,772.1093	5,772.1093	1.8668		5,818.7798
<b>Total</b>	<b>2.6717</b>	<b>22.3082</b>	<b>18.1326</b>	<b>0.0596</b>	<b>0.2121</b>	<b>0.8391</b>	<b>1.0512</b>	<b>0.0229</b>	<b>0.7719</b>	<b>0.7948</b>		<b>5,772.1093</b>	<b>5,772.1093</b>	<b>1.8668</b>		<b>5,818.7798</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.2 Lake A - Convert Berm to Island - 2022**

**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	0.0328	0.0224	0.2241	7.2000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		71.5001	71.5001	1.6000e-003		71.5401
<b>Total</b>	<b>0.0328</b>	<b>0.0224</b>	<b>0.2241</b>	<b>7.2000e-004</b>	<b>0.0822</b>	<b>5.2000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.8000e-004</b>	<b>0.0223</b>		<b>71.5001</b>	<b>71.5001</b>	<b>1.6000e-003</b>		<b>71.5401</b>

**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					0.0955	0.0000	0.0955	0.0103	0.0000	0.0103			0.0000			0.0000
Off-Road	2.6717	22.3082	18.1326	0.0596		0.8391	0.8391		0.7719	0.7719	0.0000	5,772.1093	5,772.1093	1.8668		5,818.7798
<b>Total</b>	<b>2.6717</b>	<b>22.3082</b>	<b>18.1326</b>	<b>0.0596</b>	<b>0.0955</b>	<b>0.8391</b>	<b>0.9345</b>	<b>0.0103</b>	<b>0.7719</b>	<b>0.7823</b>	<b>0.0000</b>	<b>5,772.1093</b>	<b>5,772.1093</b>	<b>1.8668</b>		<b>5,818.7798</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.2 Lake A - Convert Berm to Island - 2022**

**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	0.0328	0.0224	0.2241	7.2000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		71.5001	71.5001	1.6000e-003		71.5401
<b>Total</b>	<b>0.0328</b>	<b>0.0224</b>	<b>0.2241</b>	<b>7.2000e-004</b>	<b>0.0822</b>	<b>5.2000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.8000e-004</b>	<b>0.0223</b>		<b>71.5001</b>	<b>71.5001</b>	<b>1.6000e-003</b>		<b>71.5401</b>

**3.3 Lake A - ADV Berms - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3402	0.0000	6.3402	3.3446	0.0000	3.3446			0.0000			0.0000
Off-Road	2.9514	30.2568	21.4880	0.0544		1.1879	1.1879		1.0929	1.0929		5,265.0210	5,265.0210	1.7028		5,307.5914
<b>Total</b>	<b>2.9514</b>	<b>30.2568</b>	<b>21.4880</b>	<b>0.0544</b>	<b>6.3402</b>	<b>1.1879</b>	<b>7.5282</b>	<b>3.3446</b>	<b>1.0929</b>	<b>4.4375</b>		<b>5,265.0210</b>	<b>5,265.0210</b>	<b>1.7028</b>		<b>5,307.5914</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.3 Lake A - ADV Berms - 2022**

**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	0.0393	0.0268	0.2689	8.6000e-004	0.0986	6.2000e-004	0.0992	0.0262	5.7000e-004	0.0267		85.8001	85.8001	1.9200e-003		85.8481
<b>Total</b>	<b>0.0393</b>	<b>0.0268</b>	<b>0.2689</b>	<b>8.6000e-004</b>	<b>0.0986</b>	<b>6.2000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.7000e-004</b>	<b>0.0267</b>		<b>85.8001</b>	<b>85.8001</b>	<b>1.9200e-003</b>		<b>85.8481</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8531	0.0000	2.8531	1.5051	0.0000	1.5051			0.0000			0.0000
Off-Road	2.9514	30.2568	21.4880	0.0544		1.1879	1.1879		1.0929	1.0929	0.0000	5,265.0210	5,265.0210	1.7028		5,307.5914
<b>Total</b>	<b>2.9514</b>	<b>30.2568</b>	<b>21.4880</b>	<b>0.0544</b>	<b>2.8531</b>	<b>1.1879</b>	<b>4.0411</b>	<b>1.5051</b>	<b>1.0929</b>	<b>2.5980</b>	<b>0.0000</b>	<b>5,265.0210</b>	<b>5,265.0210</b>	<b>1.7028</b>		<b>5,307.5914</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.3 Lake A - ADV Berms - 2022**

**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	0.0393	0.0268	0.2689	8.6000e-004	0.0986	6.2000e-004	0.0992	0.0262	5.7000e-004	0.0267		85.8001	85.8001	1.9200e-003		85.8481
<b>Total</b>	<b>0.0393</b>	<b>0.0268</b>	<b>0.2689</b>	<b>8.6000e-004</b>	<b>0.0986</b>	<b>6.2000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.7000e-004</b>	<b>0.0267</b>		<b>85.8001</b>	<b>85.8001</b>	<b>1.9200e-003</b>		<b>85.8481</b>

**3.4 Lake A - Overflow Outlet to ADV - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2223	0.0000	0.2223	0.0244	0.0000	0.0244			0.0000			0.0000
Off-Road	1.1567	9.3616	8.4812	0.0348		0.3340	0.3340		0.3073	0.3073		3,370.775 1	3,370.775 1	1.0902		3,398.029 5
<b>Total</b>	<b>1.1567</b>	<b>9.3616</b>	<b>8.4812</b>	<b>0.0348</b>	<b>0.2223</b>	<b>0.3340</b>	<b>0.5563</b>	<b>0.0244</b>	<b>0.3073</b>	<b>0.3317</b>		<b>3,370.775 1</b>	<b>3,370.775 1</b>	<b>1.0902</b>		<b>3,398.029 5</b>



Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.4 Lake A - Overflow Outlet to ADV - 2022**

**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	0.1106	3.5855	0.7355	0.0110	42.6174	0.0102	42.6277	4.2939	9.7900e-003	4.3037		1,171.3172	1,171.3172	0.0600		1,172.8179
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	0.0393	0.0268	0.2689	8.6000e-004	0.0986	6.2000e-004	0.0992	0.0262	5.7000e-004	0.0267		85.8001	85.8001	1.9200e-003		85.8481
<b>Total</b>	<b>0.1499</b>	<b>3.6123</b>	<b>1.0044</b>	<b>0.0119</b>	<b>42.7160</b>	<b>0.0109</b>	<b>42.7269</b>	<b>4.3200</b>	<b>0.0104</b>	<b>4.3304</b>		<b>1,257.1173</b>	<b>1,257.1173</b>	<b>0.0620</b>		<b>1,258.6660</b>

**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					0.1000	0.0000	0.1000	0.0110	0.0000	0.0110			0.0000			0.0000
Off-Road	1.1567	9.3616	8.4812	0.0348		0.3340	0.3340		0.3073	0.3073	0.0000	3,370.7751	3,370.7751	1.0902		3,398.0295
<b>Total</b>	<b>1.1567</b>	<b>9.3616</b>	<b>8.4812</b>	<b>0.0348</b>	<b>0.1000</b>	<b>0.3340</b>	<b>0.4340</b>	<b>0.0110</b>	<b>0.3073</b>	<b>0.3183</b>	<b>0.0000</b>	<b>3,370.7751</b>	<b>3,370.7751</b>	<b>1.0902</b>		<b>3,398.0295</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.4 Lake A - Overflow Outlet to ADV - 2022**

**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	0.1106	3.5855	0.7355	0.0110	26.1828	0.0102	26.1931	2.6504	9.7900e-003	2.6602		1,171.3172	1,171.3172	0.0600		1,172.8179
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	0.0393	0.0268	0.2689	8.6000e-004	0.0986	6.2000e-004	0.0992	0.0262	5.7000e-004	0.0267		85.8001	85.8001	1.9200e-003		85.8481
<b>Total</b>	<b>0.1499</b>	<b>3.6123</b>	<b>1.0044</b>	<b>0.0119</b>	<b>26.2814</b>	<b>0.0109</b>	<b>26.2923</b>	<b>2.6766</b>	<b>0.0104</b>	<b>2.6869</b>		<b>1,257.1173</b>	<b>1,257.1173</b>	<b>0.0620</b>		<b>1,258.6660</b>

**3.5 Lake A - Pipeline to Lakes B and C (1) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1136	1.0549	1.1538	1.5300e-003		0.0699	0.0699		0.0643	0.0643		148.0308	148.0308	0.0479		149.2277
<b>Total</b>	<b>0.1136</b>	<b>1.0549</b>	<b>1.1538</b>	<b>1.5300e-003</b>		<b>0.0699</b>	<b>0.0699</b>		<b>0.0643</b>	<b>0.0643</b>		<b>148.0308</b>	<b>148.0308</b>	<b>0.0479</b>		<b>149.2277</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.5 Lake A - Pipeline to Lakes B and C (1) - 2022**

**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	5.9800e-003	0.2026	0.0459	5.3000e-004	0.0136	3.9000e-004	0.0140	3.9000e-003	3.8000e-004	4.2800e-003		56.2618	56.2618	3.2000e-003		56.3418
Worker	0.0524	0.0358	0.3585	1.1500e-003	0.1314	8.3000e-004	0.1323	0.0349	7.6000e-004	0.0356		114.4002	114.4002	2.5600e-003		114.4642
<b>Total</b>	<b>0.0584</b>	<b>0.2384</b>	<b>0.4044</b>	<b>1.6800e-003</b>	<b>0.1450</b>	<b>1.2200e-003</b>	<b>0.1462</b>	<b>0.0388</b>	<b>1.1400e-003</b>	<b>0.0399</b>		<b>170.6620</b>	<b>170.6620</b>	<b>5.7600e-003</b>		<b>170.8060</b>

**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	0.1136	1.0549	1.1538	1.5300e-003		0.0699	0.0699		0.0643	0.0643	0.0000	148.0308	148.0308	0.0479		149.2277
<b>Total</b>	<b>0.1136</b>	<b>1.0549</b>	<b>1.1538</b>	<b>1.5300e-003</b>		<b>0.0699</b>	<b>0.0699</b>		<b>0.0643</b>	<b>0.0643</b>	<b>0.0000</b>	<b>148.0308</b>	<b>148.0308</b>	<b>0.0479</b>		<b>149.2277</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.5 Lake A - Pipeline to Lakes B and C (1) - 2022**

**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	5.9800e-003	0.2026	0.0459	5.3000e-004	0.0136	3.9000e-004	0.0140	3.9000e-003	3.8000e-004	4.2800e-003		56.2618	56.2618	3.2000e-003		56.3418
Worker	0.0524	0.0358	0.3585	1.1500e-003	0.1314	8.3000e-004	0.1323	0.0349	7.6000e-004	0.0356		114.4002	114.4002	2.5600e-003		114.4642
<b>Total</b>	<b>0.0584</b>	<b>0.2384</b>	<b>0.4044</b>	<b>1.6800e-003</b>	<b>0.1450</b>	<b>1.2200e-003</b>	<b>0.1462</b>	<b>0.0388</b>	<b>1.1400e-003</b>	<b>0.0399</b>		<b>170.6620</b>	<b>170.6620</b>	<b>5.7600e-003</b>		<b>170.8060</b>

**3.6 Lake A - Pipeline to Lakes B and C (2) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1185	0.0000	6.1185	3.3206	0.0000	3.3206			0.0000			0.0000
Off-Road	9.4625	105.3773	62.6854	0.1735		3.8983	3.8983		3.5864	3.5864		16,797.7144	16,797.7144	5.4327		16,933.5324
<b>Total</b>	<b>9.4625</b>	<b>105.3773</b>	<b>62.6854</b>	<b>0.1735</b>	<b>6.1185</b>	<b>3.8983</b>	<b>10.0168</b>	<b>3.3206</b>	<b>3.5864</b>	<b>6.9071</b>		<b>16,797.7144</b>	<b>16,797.7144</b>	<b>5.4327</b>		<b>16,933.5324</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.6 Lake A - Pipeline to Lakes B and C (2) - 2022**

**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	0.0852	0.0581	0.5826	1.8600e-003	0.2136	1.3500e-003	0.2149	0.0567	1.2400e-003	0.0579		185.9003	185.9003	4.1600e-003		186.0043
<b>Total</b>	<b>0.0852</b>	<b>0.0581</b>	<b>0.5826</b>	<b>1.8600e-003</b>	<b>0.2136</b>	<b>1.3500e-003</b>	<b>0.2149</b>	<b>0.0567</b>	<b>1.2400e-003</b>	<b>0.0579</b>		<b>185.9003</b>	<b>185.9003</b>	<b>4.1600e-003</b>		<b>186.0043</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7533	0.0000	2.7533	1.4943	0.0000	1.4943			0.0000			0.0000
Off-Road	9.4625	105.3773	62.6854	0.1735		3.8983	3.8983		3.5864	3.5864	0.0000	16,797.7144	16,797.7144	5.4327		16,933.5324
<b>Total</b>	<b>9.4625</b>	<b>105.3773</b>	<b>62.6854</b>	<b>0.1735</b>	<b>2.7533</b>	<b>3.8983</b>	<b>6.6516</b>	<b>1.4943</b>	<b>3.5864</b>	<b>5.0807</b>	<b>0.0000</b>	<b>16,797.7144</b>	<b>16,797.7144</b>	<b>5.4327</b>		<b>16,933.5324</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.6 Lake A - Pipeline to Lakes B and C (2) - 2022**

**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	0.0852	0.0581	0.5826	1.8600e-003	0.2136	1.3500e-003	0.2149	0.0567	1.2400e-003	0.0579		185.9003	185.9003	4.1600e-003		186.0043
<b>Total</b>	<b>0.0852</b>	<b>0.0581</b>	<b>0.5826</b>	<b>1.8600e-003</b>	<b>0.2136</b>	<b>1.3500e-003</b>	<b>0.2149</b>	<b>0.0567</b>	<b>1.2400e-003</b>	<b>0.0579</b>		<b>185.9003</b>	<b>185.9003</b>	<b>4.1600e-003</b>		<b>186.0043</b>

**3.7 Lake A - Pipeline to Lakes B and C (3) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6283	5.3479	5.1224	0.0216		0.1880	0.1880		0.1730	0.1730		2,091.7898	2,091.7898	0.6765		2,108.7030
<b>Total</b>	<b>0.6283</b>	<b>5.3479</b>	<b>5.1224</b>	<b>0.0216</b>		<b>0.1880</b>	<b>0.1880</b>		<b>0.1730</b>	<b>0.1730</b>		<b>2,091.7898</b>	<b>2,091.7898</b>	<b>0.6765</b>		<b>2,108.7030</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.7 Lake A - Pipeline to Lakes B and C (3) - 2022**

**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	5.9800e-003	0.2026	0.0459	5.3000e-004	0.0136	3.9000e-004	0.0140	3.9000e-003	3.8000e-004	4.2800e-003		56.2618	56.2618	3.2000e-003		56.3418
Worker	0.0393	0.0268	0.2689	8.6000e-004	0.0986	6.2000e-004	0.0992	0.0262	5.7000e-004	0.0267		85.8001	85.8001	1.9200e-003		85.8481
<b>Total</b>	<b>0.0453</b>	<b>0.2294</b>	<b>0.3148</b>	<b>1.3900e-003</b>	<b>0.1121</b>	<b>1.0100e-003</b>	<b>0.1132</b>	<b>0.0301</b>	<b>9.5000e-004</b>	<b>0.0310</b>		<b>142.0619</b>	<b>142.0619</b>	<b>5.1200e-003</b>		<b>142.1899</b>

**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	0.6283	5.3479	5.1224	0.0216		0.1880	0.1880		0.1730	0.1730	0.0000	2,091.7898	2,091.7898	0.6765		2,108.7030
<b>Total</b>	<b>0.6283</b>	<b>5.3479</b>	<b>5.1224</b>	<b>0.0216</b>		<b>0.1880</b>	<b>0.1880</b>		<b>0.1730</b>	<b>0.1730</b>	<b>0.0000</b>	<b>2,091.7898</b>	<b>2,091.7898</b>	<b>0.6765</b>		<b>2,108.7030</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.7 Lake A - Pipeline to Lakes B and C (3) - 2022**

**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	5.9800e-003	0.2026	0.0459	5.3000e-004	0.0136	3.9000e-004	0.0140	3.9000e-003	3.8000e-004	4.2800e-003		56.2618	56.2618	3.2000e-003		56.3418
Worker	0.0393	0.0268	0.2689	8.6000e-004	0.0986	6.2000e-004	0.0992	0.0262	5.7000e-004	0.0267		85.8001	85.8001	1.9200e-003		85.8481
<b>Total</b>	<b>0.0453</b>	<b>0.2294</b>	<b>0.3148</b>	<b>1.3900e-003</b>	<b>0.1121</b>	<b>1.0100e-003</b>	<b>0.1132</b>	<b>0.0301</b>	<b>9.5000e-004</b>	<b>0.0310</b>		<b>142.0619</b>	<b>142.0619</b>	<b>5.1200e-003</b>		<b>142.1899</b>

**3.8 Lake A - Pipeline to Lakes B and C (4) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.1567	9.3616	8.4812	0.0348		0.3340	0.3340		0.3073	0.3073		3,370.775 1	3,370.775 1	1.0902		3,398.029 5
<b>Total</b>	<b>1.1567</b>	<b>9.3616</b>	<b>8.4812</b>	<b>0.0348</b>	<b>0.5303</b>	<b>0.3340</b>	<b>0.8643</b>	<b>0.0573</b>	<b>0.3073</b>	<b>0.3645</b>		<b>3,370.775 1</b>	<b>3,370.775 1</b>	<b>1.0902</b>		<b>3,398.029 5</b>



Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.8 Lake A - Pipeline to Lakes B and C (4) - 2022**

**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	0.0328	0.0224	0.2241	7.2000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		71.5001	71.5001	1.6000e-003		71.5401
<b>Total</b>	<b>0.0328</b>	<b>0.0224</b>	<b>0.2241</b>	<b>7.2000e-004</b>	<b>0.0822</b>	<b>5.2000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.8000e-004</b>	<b>0.0223</b>		<b>71.5001</b>	<b>71.5001</b>	<b>1.6000e-003</b>		<b>71.5401</b>

**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					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	1.1567	9.3616	8.4812	0.0348		0.3340	0.3340		0.3073	0.3073	0.0000	3,370.775 1	3,370.775 1	1.0902		3,398.029 5
<b>Total</b>	<b>1.1567</b>	<b>9.3616</b>	<b>8.4812</b>	<b>0.0348</b>	<b>0.2386</b>	<b>0.3340</b>	<b>0.5726</b>	<b>0.0258</b>	<b>0.3073</b>	<b>0.3330</b>	<b>0.0000</b>	<b>3,370.775 1</b>	<b>3,370.775 1</b>	<b>1.0902</b>		<b>3,398.029 5</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.8 Lake A - Pipeline to Lakes B and C (4) - 2022**

**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	0.0328	0.0224	0.2241	7.2000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		71.5001	71.5001	1.6000e-003		71.5401
<b>Total</b>	<b>0.0328</b>	<b>0.0224</b>	<b>0.2241</b>	<b>7.2000e-004</b>	<b>0.0822</b>	<b>5.2000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.8000e-004</b>	<b>0.0223</b>		<b>71.5001</b>	<b>71.5001</b>	<b>1.6000e-003</b>		<b>71.5401</b>

**3.9 Lake A - Pipeline to Lakes B and C (5) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8858	9.0388	6.2393	0.0240		0.3419	0.3419		0.3145	0.3145		2,317.5632	2,317.5632	0.7496		2,336.3019
<b>Total</b>	<b>0.8858</b>	<b>9.0388</b>	<b>6.2393</b>	<b>0.0240</b>		<b>0.3419</b>	<b>0.3419</b>		<b>0.3145</b>	<b>0.3145</b>		<b>2,317.5632</b>	<b>2,317.5632</b>	<b>0.7496</b>		<b>2,336.3019</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.9 Lake A - Pipeline to Lakes B and C (5) - 2022**

**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	5.9800e-003	0.2026	0.0459	5.3000e-004	0.0136	3.9000e-004	0.0140	3.9000e-003	3.8000e-004	4.2800e-003		56.2618	56.2618	3.2000e-003		56.3418
Worker	0.0459	0.0313	0.3137	1.0000e-003	0.1150	7.2000e-004	0.1157	0.0305	6.7000e-004	0.0312		100.1001	100.1001	2.2400e-003		100.1562
<b>Total</b>	<b>0.0518</b>	<b>0.2339</b>	<b>0.3596</b>	<b>1.5300e-003</b>	<b>0.1286</b>	<b>1.1100e-003</b>	<b>0.1297</b>	<b>0.0344</b>	<b>1.0500e-003</b>	<b>0.0355</b>		<b>156.3619</b>	<b>156.3619</b>	<b>5.4400e-003</b>		<b>156.4980</b>

**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	0.8858	9.0388	6.2393	0.0240		0.3419	0.3419		0.3145	0.3145	0.0000	2,317.5632	2,317.5632	0.7496		2,336.3019
<b>Total</b>	<b>0.8858</b>	<b>9.0388</b>	<b>6.2393</b>	<b>0.0240</b>		<b>0.3419</b>	<b>0.3419</b>		<b>0.3145</b>	<b>0.3145</b>	<b>0.0000</b>	<b>2,317.5632</b>	<b>2,317.5632</b>	<b>0.7496</b>		<b>2,336.3019</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.9 Lake A - Pipeline to Lakes B and C (5) - 2022**

**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	5.9800e-003	0.2026	0.0459	5.3000e-004	0.0136	3.9000e-004	0.0140	3.9000e-003	3.8000e-004	4.2800e-003		56.2618	56.2618	3.2000e-003		56.3418
Worker	0.0459	0.0313	0.3137	1.0000e-003	0.1150	7.2000e-004	0.1157	0.0305	6.7000e-004	0.0312		100.1001	100.1001	2.2400e-003		100.1562
<b>Total</b>	<b>0.0518</b>	<b>0.2339</b>	<b>0.3596</b>	<b>1.5300e-003</b>	<b>0.1286</b>	<b>1.1100e-003</b>	<b>0.1297</b>	<b>0.0344</b>	<b>1.0500e-003</b>	<b>0.0355</b>		<b>156.3619</b>	<b>156.3619</b>	<b>5.4400e-003</b>		<b>156.4980</b>

**3.10 Lake A - Pipeline to Lakes B and C (6) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1136	1.0549	1.1538	1.5300e-003		0.0699	0.0699		0.0643	0.0643		148.0308	148.0308	0.0479		149.2277
<b>Total</b>	<b>0.1136</b>	<b>1.0549</b>	<b>1.1538</b>	<b>1.5300e-003</b>		<b>0.0699</b>	<b>0.0699</b>		<b>0.0643</b>	<b>0.0643</b>		<b>148.0308</b>	<b>148.0308</b>	<b>0.0479</b>		<b>149.2277</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.10 Lake A - Pipeline to Lakes B and C (6) - 2022**

**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	5.9800e-003	0.2026	0.0459	5.3000e-004	0.0136	3.9000e-004	0.0140	3.9000e-003	3.8000e-004	4.2800e-003		56.2618	56.2618	3.2000e-003		56.3418
Worker	0.0524	0.0358	0.3585	1.1500e-003	0.1314	8.3000e-004	0.1323	0.0349	7.6000e-004	0.0356		114.4002	114.4002	2.5600e-003		114.4642
<b>Total</b>	<b>0.0584</b>	<b>0.2384</b>	<b>0.4044</b>	<b>1.6800e-003</b>	<b>0.1450</b>	<b>1.2200e-003</b>	<b>0.1462</b>	<b>0.0388</b>	<b>1.1400e-003</b>	<b>0.0399</b>		<b>170.6620</b>	<b>170.6620</b>	<b>5.7600e-003</b>		<b>170.8060</b>

**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	0.1136	1.0549	1.1538	1.5300e-003		0.0699	0.0699		0.0643	0.0643	0.0000	148.0308	148.0308	0.0479		149.2277
<b>Total</b>	<b>0.1136</b>	<b>1.0549</b>	<b>1.1538</b>	<b>1.5300e-003</b>		<b>0.0699</b>	<b>0.0699</b>		<b>0.0643</b>	<b>0.0643</b>	<b>0.0000</b>	<b>148.0308</b>	<b>148.0308</b>	<b>0.0479</b>		<b>149.2277</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.10 Lake A - Pipeline to Lakes B and C (6) - 2022**

**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	5.9800e-003	0.2026	0.0459	5.3000e-004	0.0136	3.9000e-004	0.0140	3.9000e-003	3.8000e-004	4.2800e-003		56.2618	56.2618	3.2000e-003		56.3418
Worker	0.0524	0.0358	0.3585	1.1500e-003	0.1314	8.3000e-004	0.1323	0.0349	7.6000e-004	0.0356		114.4002	114.4002	2.5600e-003		114.4642
<b>Total</b>	<b>0.0584</b>	<b>0.2384</b>	<b>0.4044</b>	<b>1.6800e-003</b>	<b>0.1450</b>	<b>1.2200e-003</b>	<b>0.1462</b>	<b>0.0388</b>	<b>1.1400e-003</b>	<b>0.0399</b>		<b>170.6620</b>	<b>170.6620</b>	<b>5.7600e-003</b>		<b>170.8060</b>

**3.11 Lake A - Pipeline to Lakes B and C (7) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6283	5.3479	5.1224	0.0216		0.1880	0.1880		0.1730	0.1730		2,091.7898	2,091.7898	0.6765		2,108.7030
<b>Total</b>	<b>0.6283</b>	<b>5.3479</b>	<b>5.1224</b>	<b>0.0216</b>		<b>0.1880</b>	<b>0.1880</b>		<b>0.1730</b>	<b>0.1730</b>		<b>2,091.7898</b>	<b>2,091.7898</b>	<b>0.6765</b>		<b>2,108.7030</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.11 Lake A - Pipeline to Lakes B and C (7) - 2022**

**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	5.9800e-003	0.2026	0.0459	5.3000e-004	0.0136	3.9000e-004	0.0140	3.9000e-003	3.8000e-004	4.2800e-003		56.2618	56.2618	3.2000e-003		56.3418
Worker	0.0393	0.0268	0.2689	8.6000e-004	0.0986	6.2000e-004	0.0992	0.0262	5.7000e-004	0.0267		85.8001	85.8001	1.9200e-003		85.8481
<b>Total</b>	<b>0.0453</b>	<b>0.2294</b>	<b>0.3148</b>	<b>1.3900e-003</b>	<b>0.1121</b>	<b>1.0100e-003</b>	<b>0.1132</b>	<b>0.0301</b>	<b>9.5000e-004</b>	<b>0.0310</b>		<b>142.0619</b>	<b>142.0619</b>	<b>5.1200e-003</b>		<b>142.1899</b>

**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	0.6283	5.3479	5.1224	0.0216		0.1880	0.1880		0.1730	0.1730	0.0000	2,091.7898	2,091.7898	0.6765		2,108.7030
<b>Total</b>	<b>0.6283</b>	<b>5.3479</b>	<b>5.1224</b>	<b>0.0216</b>		<b>0.1880</b>	<b>0.1880</b>		<b>0.1730</b>	<b>0.1730</b>	<b>0.0000</b>	<b>2,091.7898</b>	<b>2,091.7898</b>	<b>0.6765</b>		<b>2,108.7030</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.11 Lake A - Pipeline to Lakes B and C (7) - 2022**

**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	5.9800e-003	0.2026	0.0459	5.3000e-004	0.0136	3.9000e-004	0.0140	3.9000e-003	3.8000e-004	4.2800e-003		56.2618	56.2618	3.2000e-003		56.3418
Worker	0.0393	0.0268	0.2689	8.6000e-004	0.0986	6.2000e-004	0.0992	0.0262	5.7000e-004	0.0267		85.8001	85.8001	1.9200e-003		85.8481
<b>Total</b>	<b>0.0453</b>	<b>0.2294</b>	<b>0.3148</b>	<b>1.3900e-003</b>	<b>0.1121</b>	<b>1.0100e-003</b>	<b>0.1132</b>	<b>0.0301</b>	<b>9.5000e-004</b>	<b>0.0310</b>		<b>142.0619</b>	<b>142.0619</b>	<b>5.1200e-003</b>		<b>142.1899</b>

**3.12 Lake A - Pipeline to Lakes B and C (8) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3619	0.0000	0.3619	0.0394	0.0000	0.0394			0.0000			0.0000
Off-Road	1.1567	9.3616	8.4812	0.0348		0.3340	0.3340		0.3073	0.3073		3,370.775 1	3,370.775 1	1.0902		3,398.029 5
<b>Total</b>	<b>1.1567</b>	<b>9.3616</b>	<b>8.4812</b>	<b>0.0348</b>	<b>0.3619</b>	<b>0.3340</b>	<b>0.6959</b>	<b>0.0394</b>	<b>0.3073</b>	<b>0.3467</b>		<b>3,370.775 1</b>	<b>3,370.775 1</b>	<b>1.0902</b>		<b>3,398.029 5</b>



Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.12 Lake A - Pipeline to Lakes B and C (8) - 2022**

**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	0.0921	2.9879	0.6129	9.1700e-003	35.5145	8.5300e-003	35.5231	3.5782	8.1600e-003	3.5864		976.0977	976.0977	0.0500		977.3483
Vendor	5.9800e-003	0.2026	0.0459	5.3000e-004	0.0136	3.9000e-004	0.0140	3.9000e-003	3.8000e-004	4.2800e-003		56.2618	56.2618	3.2000e-003		56.3418
Worker	0.0524	0.0358	0.3585	1.1500e-003	0.1314	8.3000e-004	0.1323	0.0349	7.6000e-004	0.0356		114.4002	114.4002	2.5600e-003		114.4642
<b>Total</b>	<b>0.1505</b>	<b>3.2263</b>	<b>1.0174</b>	<b>0.0109</b>	<b>35.6595</b>	<b>9.7500e-003</b>	<b>35.6693</b>	<b>3.6170</b>	<b>9.3000e-003</b>	<b>3.6263</b>		<b>1,146.7596</b>	<b>1,146.7596</b>	<b>0.0558</b>		<b>1,148.1543</b>

**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					0.1628	0.0000	0.1628	0.0178	0.0000	0.0178			0.0000			0.0000
Off-Road	1.1567	9.3616	8.4812	0.0348		0.3340	0.3340		0.3073	0.3073	0.0000	3,370.7751	3,370.7751	1.0902		3,398.0295
<b>Total</b>	<b>1.1567</b>	<b>9.3616</b>	<b>8.4812</b>	<b>0.0348</b>	<b>0.1628</b>	<b>0.3340</b>	<b>0.4968</b>	<b>0.0178</b>	<b>0.3073</b>	<b>0.3250</b>	<b>0.0000</b>	<b>3,370.7751</b>	<b>3,370.7751</b>	<b>1.0902</b>		<b>3,398.0295</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.12 Lake A - Pipeline to Lakes B and C (8) - 2022**

**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	0.0921	2.9879	0.6129	9.1700e-003	21.8190	8.5300e-003	21.8276	2.2087	8.1600e-003	2.2169		976.0977	976.0977	0.0500		977.3483
Vendor	5.9800e-003	0.2026	0.0459	5.3000e-004	0.0136	3.9000e-004	0.0140	3.9000e-003	3.8000e-004	4.2800e-003		56.2618	56.2618	3.2000e-003		56.3418
Worker	0.0524	0.0358	0.3585	1.1500e-003	0.1314	8.3000e-004	0.1323	0.0349	7.6000e-004	0.0356		114.4002	114.4002	2.5600e-003		114.4642
<b>Total</b>	<b>0.1505</b>	<b>3.2263</b>	<b>1.0174</b>	<b>0.0109</b>	<b>21.9640</b>	<b>9.7500e-003</b>	<b>21.9738</b>	<b>2.2475</b>	<b>9.3000e-003</b>	<b>2.2568</b>		<b>1,146.7596</b>	<b>1,146.7596</b>	<b>0.0558</b>		<b>1,148.1543</b>

**3.13 Lake A - Pipeline to Lakes B and C (9) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2146	0.0000	0.2146	0.0233	0.0000	0.0233			0.0000			0.0000
Off-Road	1.1567	9.3616	8.4812	0.0348		0.3340	0.3340		0.3073	0.3073		3,370.7751	3,370.7751	1.0902		3,398.0295
<b>Total</b>	<b>1.1567</b>	<b>9.3616</b>	<b>8.4812</b>	<b>0.0348</b>	<b>0.2146</b>	<b>0.3340</b>	<b>0.5486</b>	<b>0.0233</b>	<b>0.3073</b>	<b>0.3306</b>		<b>3,370.7751</b>	<b>3,370.7751</b>	<b>1.0902</b>		<b>3,398.0295</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.13 Lake A - Pipeline to Lakes B and C (9) - 2022**

**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	0.0276	0.8964	0.1839	2.7500e-003	10.6544	2.5600e-003	10.6569	1.0735	2.4500e-003	1.0759		292.8293	292.8293	0.0150		293.2045
Vendor	5.9800e-003	0.2026	0.0459	5.3000e-004	0.0136	3.9000e-004	0.0140	3.9000e-003	3.8000e-004	4.2800e-003		56.2618	56.2618	3.2000e-003		56.3418
Worker	0.0524	0.0358	0.3585	1.1500e-003	0.1314	8.3000e-004	0.1323	0.0349	7.6000e-004	0.0356		114.4002	114.4002	2.5600e-003		114.4642
<b>Total</b>	<b>0.0860</b>	<b>1.1348</b>	<b>0.5883</b>	<b>4.4300e-003</b>	<b>10.7994</b>	<b>3.7800e-003</b>	<b>10.8031</b>	<b>1.1122</b>	<b>3.5900e-003</b>	<b>1.1158</b>		<b>463.4913</b>	<b>463.4913</b>	<b>0.0208</b>		<b>464.0105</b>

**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					0.0966	0.0000	0.0966	0.0105	0.0000	0.0105			0.0000			0.0000
Off-Road	1.1567	9.3616	8.4812	0.0348		0.3340	0.3340		0.3073	0.3073	0.0000	3,370.775 1	3,370.775 1	1.0902		3,398.029 5
<b>Total</b>	<b>1.1567</b>	<b>9.3616</b>	<b>8.4812</b>	<b>0.0348</b>	<b>0.0966</b>	<b>0.3340</b>	<b>0.4306</b>	<b>0.0105</b>	<b>0.3073</b>	<b>0.3178</b>	<b>0.0000</b>	<b>3,370.775 1</b>	<b>3,370.775 1</b>	<b>1.0902</b>		<b>3,398.029 5</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.13 Lake A - Pipeline to Lakes B and C (9) - 2022**

**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	0.0276	0.8964	0.1839	2.7500e-003	6.5457	2.5600e-003	6.5483	0.6626	2.4500e-003	0.6651		292.8293	292.8293	0.0150		293.2045
Vendor	5.9800e-003	0.2026	0.0459	5.3000e-004	0.0136	3.9000e-004	0.0140	3.9000e-003	3.8000e-004	4.2800e-003		56.2618	56.2618	3.2000e-003		56.3418
Worker	0.0524	0.0358	0.3585	1.1500e-003	0.1314	8.3000e-004	0.1323	0.0349	7.6000e-004	0.0356		114.4002	114.4002	2.5600e-003		114.4642
<b>Total</b>	<b>0.0860</b>	<b>1.1348</b>	<b>0.5883</b>	<b>4.4300e-003</b>	<b>6.6907</b>	<b>3.7800e-003</b>	<b>6.6945</b>	<b>0.7014</b>	<b>3.5900e-003</b>	<b>0.7050</b>		<b>463.4913</b>	<b>463.4913</b>	<b>0.0208</b>		<b>464.0105</b>

**3.14 Lake A - Pipeline to Lakes B and C (10) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2651	0.0000	0.2651	0.0286	0.0000	0.0286			0.0000			0.0000
Off-Road	1.6682	15.4000	13.1261	0.0452		0.5760	0.5760		0.5299	0.5299		4,378.1238	4,378.1238	1.4160		4,413.5232
<b>Total</b>	<b>1.6682</b>	<b>15.4000</b>	<b>13.1261</b>	<b>0.0452</b>	<b>0.2651</b>	<b>0.5760</b>	<b>0.8411</b>	<b>0.0286</b>	<b>0.5299</b>	<b>0.5585</b>		<b>4,378.1238</b>	<b>4,378.1238</b>	<b>1.4160</b>		<b>4,413.5232</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.14 Lake A - Pipeline to Lakes B and C (10) - 2022**

**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	0.0459	0.0313	0.3137	1.0000e-003	0.1150	7.2000e-004	0.1157	0.0305	6.7000e-004	0.0312		100.1001	100.1001	2.2400e-003		100.1562
<b>Total</b>	<b>0.0459</b>	<b>0.0313</b>	<b>0.3137</b>	<b>1.0000e-003</b>	<b>0.1150</b>	<b>7.2000e-004</b>	<b>0.1157</b>	<b>0.0305</b>	<b>6.7000e-004</b>	<b>0.0312</b>		<b>100.1001</b>	<b>100.1001</b>	<b>2.2400e-003</b>		<b>100.1562</b>

**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					0.1193	0.0000	0.1193	0.0129	0.0000	0.0129			0.0000			0.0000
Off-Road	1.6682	15.4000	13.1261	0.0452		0.5760	0.5760		0.5299	0.5299	0.0000	4,378.1238	4,378.1238	1.4160		4,413.5232
<b>Total</b>	<b>1.6682</b>	<b>15.4000</b>	<b>13.1261</b>	<b>0.0452</b>	<b>0.1193</b>	<b>0.5760</b>	<b>0.6953</b>	<b>0.0129</b>	<b>0.5299</b>	<b>0.5428</b>	<b>0.0000</b>	<b>4,378.1238</b>	<b>4,378.1238</b>	<b>1.4160</b>		<b>4,413.5232</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.14 Lake A - Pipeline to Lakes B and C (10) - 2022**

**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	0.0459	0.0313	0.3137	1.0000e-003	0.1150	7.2000e-004	0.1157	0.0305	6.7000e-004	0.0312		100.1001	100.1001	2.2400e-003		100.1562
<b>Total</b>	<b>0.0459</b>	<b>0.0313</b>	<b>0.3137</b>	<b>1.0000e-003</b>	<b>0.1150</b>	<b>7.2000e-004</b>	<b>0.1157</b>	<b>0.0305</b>	<b>6.7000e-004</b>	<b>0.0312</b>		<b>100.1001</b>	<b>100.1001</b>	<b>2.2400e-003</b>		<b>100.1562</b>

**3.15 Lake A - Diversion Structure (1) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5974	4.6164	5.0932	0.0216		0.1652	0.1652		0.1520	0.1520		2,092.6404	2,092.6404	0.6768		2,109.5605
<b>Total</b>	<b>0.5974</b>	<b>4.6164</b>	<b>5.0932</b>	<b>0.0216</b>	<b>0.0000</b>	<b>0.1652</b>	<b>0.1652</b>	<b>0.0000</b>	<b>0.1520</b>	<b>0.1520</b>		<b>2,092.6404</b>	<b>2,092.6404</b>	<b>0.6768</b>		<b>2,109.5605</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.15 Lake A - Diversion Structure (1) - 2023**

**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	4.3900e-003	0.1568	0.0397	5.2000e-004	0.0136	1.7000e-004	0.0137	3.9000e-003	1.6000e-004	4.0600e-003		54.6708	54.6708	2.5500e-003		54.7345
Worker	0.0305	0.0201	0.2049	6.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		68.7658	68.7658	1.4300e-003		68.8015
<b>Total</b>	<b>0.0349</b>	<b>0.1769</b>	<b>0.2446</b>	<b>1.2100e-003</b>	<b>0.0957</b>	<b>6.8000e-004</b>	<b>0.0964</b>	<b>0.0257</b>	<b>6.3000e-004</b>	<b>0.0263</b>		<b>123.4366</b>	<b>123.4366</b>	<b>3.9800e-003</b>		<b>123.5359</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5974	4.6164	5.0932	0.0216		0.1652	0.1652		0.1520	0.1520	0.0000	2,092.6404	2,092.6404	0.6768		2,109.5605
<b>Total</b>	<b>0.5974</b>	<b>4.6164</b>	<b>5.0932</b>	<b>0.0216</b>	<b>0.0000</b>	<b>0.1652</b>	<b>0.1652</b>	<b>0.0000</b>	<b>0.1520</b>	<b>0.1520</b>	<b>0.0000</b>	<b>2,092.6404</b>	<b>2,092.6404</b>	<b>0.6768</b>		<b>2,109.5605</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.15 Lake A - Diversion Structure (1) - 2023**

**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	4.3900e-003	0.1568	0.0397	5.2000e-004	0.0136	1.7000e-004	0.0137	3.9000e-003	1.6000e-004	4.0600e-003		54.6708	54.6708	2.5500e-003		54.7345
Worker	0.0305	0.0201	0.2049	6.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		68.7658	68.7658	1.4300e-003		68.8015
<b>Total</b>	<b>0.0349</b>	<b>0.1769</b>	<b>0.2446</b>	<b>1.2100e-003</b>	<b>0.0957</b>	<b>6.8000e-004</b>	<b>0.0964</b>	<b>0.0257</b>	<b>6.3000e-004</b>	<b>0.0263</b>		<b>123.4366</b>	<b>123.4366</b>	<b>3.9800e-003</b>		<b>123.5359</b>

**3.16 Lake A - Diversion Structure (2) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3535	0.0000	0.3535	0.0382	0.0000	0.0382			0.0000			0.0000
Off-Road	1.1013	8.1843	8.3817	0.0349		0.2943	0.2943		0.2707	0.2707		3,372.5289	3,372.5289	1.0907		3,399.7975
<b>Total</b>	<b>1.1013</b>	<b>8.1843</b>	<b>8.3817</b>	<b>0.0349</b>	<b>0.3535</b>	<b>0.2943</b>	<b>0.6478</b>	<b>0.0382</b>	<b>0.2707</b>	<b>0.3089</b>		<b>3,372.5289</b>	<b>3,372.5289</b>	<b>1.0907</b>		<b>3,399.7975</b>



Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.16 Lake A - Diversion Structure (2) - 2023**

**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	0.0366	0.0241	0.2458	8.3000e-004	0.0986	6.1000e-004	0.0992	0.0262	5.6000e-004	0.0267		82.5189	82.5189	1.7100e-003		82.5618
<b>Total</b>	<b>0.0366</b>	<b>0.0241</b>	<b>0.2458</b>	<b>8.3000e-004</b>	<b>0.0986</b>	<b>6.1000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.6000e-004</b>	<b>0.0267</b>		<b>82.5189</b>	<b>82.5189</b>	<b>1.7100e-003</b>		<b>82.5618</b>

**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					0.1591	0.0000	0.1591	0.0172	0.0000	0.0172			0.0000			0.0000
Off-Road	1.1013	8.1843	8.3817	0.0349		0.2943	0.2943		0.2707	0.2707	0.0000	3,372.5289	3,372.5289	1.0907		3,399.7975
<b>Total</b>	<b>1.1013</b>	<b>8.1843</b>	<b>8.3817</b>	<b>0.0349</b>	<b>0.1591</b>	<b>0.2943</b>	<b>0.4533</b>	<b>0.0172</b>	<b>0.2707</b>	<b>0.2879</b>	<b>0.0000</b>	<b>3,372.5289</b>	<b>3,372.5289</b>	<b>1.0907</b>		<b>3,399.7975</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.16 Lake A - Diversion Structure (2) - 2023**

**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	0.0366	0.0241	0.2458	8.3000e-004	0.0986	6.1000e-004	0.0992	0.0262	5.6000e-004	0.0267		82.5189	82.5189	1.7100e-003		82.5618
<b>Total</b>	<b>0.0366</b>	<b>0.0241</b>	<b>0.2458</b>	<b>8.3000e-004</b>	<b>0.0986</b>	<b>6.1000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.6000e-004</b>	<b>0.0267</b>		<b>82.5189</b>	<b>82.5189</b>	<b>1.7100e-003</b>		<b>82.5618</b>

**3.17 Lake A - Diversion Structure (3) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1655	0.0000	0.1655	0.0193	0.0000	0.0193			0.0000			0.0000
Off-Road	1.0252	7.6277	7.7266	0.0318		0.2754	0.2754		0.2534	0.2534		3,079.6513	3,079.6513	0.9960		3,104.5518
<b>Total</b>	<b>1.0252</b>	<b>7.6277</b>	<b>7.7266</b>	<b>0.0318</b>	<b>0.1655</b>	<b>0.2754</b>	<b>0.4410</b>	<b>0.0193</b>	<b>0.2534</b>	<b>0.2727</b>		<b>3,079.6513</b>	<b>3,079.6513</b>	<b>0.9960</b>		<b>3,104.5518</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.17 Lake A - Diversion Structure (3) - 2023**

**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	0.1982	6.4148	1.7093	0.0283	113.9425	0.0111	113.9536	11.4802	0.0107	11.4908		3,011.3483	3,011.3483	0.1343		3,014.7057
Vendor	4.3900e-003	0.1568	0.0397	5.2000e-004	0.0136	1.7000e-004	0.0137	3.9000e-003	1.6000e-004	4.0600e-003		54.6708	54.6708	2.5500e-003		54.7345
Worker	0.0489	0.0321	0.3278	1.1000e-003	0.1314	8.1000e-004	0.1323	0.0349	7.5000e-004	0.0356		110.0252	110.0252	2.2900e-003		110.0824
<b>Total</b>	<b>0.2514</b>	<b>6.6037</b>	<b>2.0768</b>	<b>0.0299</b>	<b>114.0874</b>	<b>0.0121</b>	<b>114.0996</b>	<b>11.5190</b>	<b>0.0116</b>	<b>11.5305</b>		<b>3,176.0443</b>	<b>3,176.0443</b>	<b>0.1391</b>		<b>3,179.5225</b>

**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					0.0745	0.0000	0.0745	8.6900e-003	0.0000	8.6900e-003			0.0000			0.0000
Off-Road	1.0252	7.6277	7.7266	0.0318		0.2754	0.2754		0.2534	0.2534	0.0000	3,079.6513	3,079.6513	0.9960		3,104.5518
<b>Total</b>	<b>1.0252</b>	<b>7.6277</b>	<b>7.7266</b>	<b>0.0318</b>	<b>0.0745</b>	<b>0.2754</b>	<b>0.3499</b>	<b>8.6900e-003</b>	<b>0.2534</b>	<b>0.2621</b>	<b>0.0000</b>	<b>3,079.6513</b>	<b>3,079.6513</b>	<b>0.9960</b>		<b>3,104.5518</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.17 Lake A - Diversion Structure (3) - 2023**

**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	0.1982	6.4148	1.7093	0.0283	70.0028	0.0111	70.0139	7.0862	0.0107	7.0969		3,011.3483	3,011.3483	0.1343		3,014.7057
Vendor	4.3900e-003	0.1568	0.0397	5.2000e-004	0.0136	1.7000e-004	0.0137	3.9000e-003	1.6000e-004	4.0600e-003		54.6708	54.6708	2.5500e-003		54.7345
Worker	0.0489	0.0321	0.3278	1.1000e-003	0.1314	8.1000e-004	0.1323	0.0349	7.5000e-004	0.0356		110.0252	110.0252	2.2900e-003		110.0824
<b>Total</b>	<b>0.2514</b>	<b>6.6037</b>	<b>2.0768</b>	<b>0.0299</b>	<b>70.1478</b>	<b>0.0121</b>	<b>70.1599</b>	<b>7.1250</b>	<b>0.0116</b>	<b>7.1365</b>		<b>3,176.0443</b>	<b>3,176.0443</b>	<b>0.1391</b>		<b>3,179.5225</b>

**3.18 Lake A - Diversion Structure (4) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.3490	9.9980	10.5158	0.0447		0.3556	0.3556		0.3272	0.3272		4,326.7433	4,326.7433	1.3994		4,361.7272
<b>Total</b>	<b>1.3490</b>	<b>9.9980</b>	<b>10.5158</b>	<b>0.0447</b>	<b>0.5303</b>	<b>0.3556</b>	<b>0.8859</b>	<b>0.0573</b>	<b>0.3272</b>	<b>0.3844</b>		<b>4,326.7433</b>	<b>4,326.7433</b>	<b>1.3994</b>		<b>4,361.7272</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.18 Lake A - Diversion Structure (4) - 2023**

**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	4.3900e-003	0.1568	0.0397	5.2000e-004	0.0136	1.7000e-004	0.0137	3.9000e-003	1.6000e-004	4.0600e-003		54.6708	54.6708	2.5500e-003		54.7345
Worker	0.0550	0.0361	0.3688	1.2400e-003	0.1479	9.1000e-004	0.1488	0.0392	8.4000e-004	0.0401		123.7784	123.7784	2.5700e-003		123.8427
<b>Total</b>	<b>0.0593</b>	<b>0.1929</b>	<b>0.4085</b>	<b>1.7600e-003</b>	<b>0.1614</b>	<b>1.0800e-003</b>	<b>0.1625</b>	<b>0.0431</b>	<b>1.0000e-003</b>	<b>0.0441</b>		<b>178.4492</b>	<b>178.4492</b>	<b>5.1200e-003</b>		<b>178.5771</b>

**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					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	1.3490	9.9980	10.5158	0.0447		0.3556	0.3556		0.3272	0.3272	0.0000	4,326.7433	4,326.7433	1.3994		4,361.7272
<b>Total</b>	<b>1.3490</b>	<b>9.9980</b>	<b>10.5158</b>	<b>0.0447</b>	<b>0.2386</b>	<b>0.3556</b>	<b>0.5942</b>	<b>0.0258</b>	<b>0.3272</b>	<b>0.3529</b>	<b>0.0000</b>	<b>4,326.7433</b>	<b>4,326.7433</b>	<b>1.3994</b>		<b>4,361.7272</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.18 Lake A - Diversion Structure (4) - 2023**

**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	4.3900e-003	0.1568	0.0397	5.2000e-004	0.0136	1.7000e-004	0.0137	3.9000e-003	1.6000e-004	4.0600e-003		54.6708	54.6708	2.5500e-003		54.7345
Worker	0.0550	0.0361	0.3688	1.2400e-003	0.1479	9.1000e-004	0.1488	0.0392	8.4000e-004	0.0401		123.7784	123.7784	2.5700e-003		123.8427
<b>Total</b>	<b>0.0593</b>	<b>0.1929</b>	<b>0.4085</b>	<b>1.7600e-003</b>	<b>0.1614</b>	<b>1.0800e-003</b>	<b>0.1625</b>	<b>0.0431</b>	<b>1.0000e-003</b>	<b>0.0441</b>		<b>178.4492</b>	<b>178.4492</b>	<b>5.1200e-003</b>		<b>178.5771</b>

**3.19 Lake A - Diversion Structure (5) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0605	0.0000	1.0605	0.1145	0.0000	0.1145			0.0000			0.0000
Off-Road	1.1013	8.1843	8.3817	0.0349		0.2943	0.2943		0.2707	0.2707		3,372.5289	3,372.5289	1.0907		3,399.7975
<b>Total</b>	<b>1.1013</b>	<b>8.1843</b>	<b>8.3817</b>	<b>0.0349</b>	<b>1.0605</b>	<b>0.2943</b>	<b>1.3548</b>	<b>0.1145</b>	<b>0.2707</b>	<b>0.3852</b>		<b>3,372.5289</b>	<b>3,372.5289</b>	<b>1.0907</b>		<b>3,399.7975</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.19 Lake A - Diversion Structure (5) - 2023**

**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	0.0366	0.0241	0.2458	8.3000e-004	0.0986	6.1000e-004	0.0992	0.0262	5.6000e-004	0.0267		82.5189	82.5189	1.7100e-003		82.5618
<b>Total</b>	<b>0.0366</b>	<b>0.0241</b>	<b>0.2458</b>	<b>8.3000e-004</b>	<b>0.0986</b>	<b>6.1000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.6000e-004</b>	<b>0.0267</b>		<b>82.5189</b>	<b>82.5189</b>	<b>1.7100e-003</b>		<b>82.5618</b>

**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					0.4772	0.0000	0.4772	0.0515	0.0000	0.0515			0.0000			0.0000
Off-Road	1.1013	8.1843	8.3817	0.0349		0.2943	0.2943		0.2707	0.2707	0.0000	3,372.5289	3,372.5289	1.0907		3,399.7975
<b>Total</b>	<b>1.1013</b>	<b>8.1843</b>	<b>8.3817</b>	<b>0.0349</b>	<b>0.4772</b>	<b>0.2943</b>	<b>0.7715</b>	<b>0.0515</b>	<b>0.2707</b>	<b>0.3222</b>	<b>0.0000</b>	<b>3,372.5289</b>	<b>3,372.5289</b>	<b>1.0907</b>		<b>3,399.7975</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.19 Lake A - Diversion Structure (5) - 2023**

**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	0.0366	0.0241	0.2458	8.3000e-004	0.0986	6.1000e-004	0.0992	0.0262	5.6000e-004	0.0267		82.5189	82.5189	1.7100e-003		82.5618
<b>Total</b>	<b>0.0366</b>	<b>0.0241</b>	<b>0.2458</b>	<b>8.3000e-004</b>	<b>0.0986</b>	<b>6.1000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.6000e-004</b>	<b>0.0267</b>		<b>82.5189</b>	<b>82.5189</b>	<b>1.7100e-003</b>		<b>82.5618</b>

**3.20 Lake A - Diversion Structure (6) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1025	0.9597	1.1448	1.5300e-003		0.0593	0.0593		0.0546	0.0546		148.0308	148.0308	0.0479		149.2277
<b>Total</b>	<b>0.1025</b>	<b>0.9597</b>	<b>1.1448</b>	<b>1.5300e-003</b>		<b>0.0593</b>	<b>0.0593</b>		<b>0.0546</b>	<b>0.0546</b>		<b>148.0308</b>	<b>148.0308</b>	<b>0.0479</b>		<b>149.2277</b>



Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.20 Lake A - Diversion Structure (6) - 2023**

**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	0.0366	0.0241	0.2458	8.3000e-004	0.0986	6.1000e-004	0.0992	0.0262	5.6000e-004	0.0267		82.5189	82.5189	1.7100e-003		82.5618
<b>Total</b>	<b>0.0366</b>	<b>0.0241</b>	<b>0.2458</b>	<b>8.3000e-004</b>	<b>0.0986</b>	<b>6.1000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.6000e-004</b>	<b>0.0267</b>		<b>82.5189</b>	<b>82.5189</b>	<b>1.7100e-003</b>		<b>82.5618</b>

**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	0.1025	0.9597	1.1448	1.5300e-003		0.0593	0.0593		0.0546	0.0546	0.0000	148.0308	148.0308	0.0479		149.2277
<b>Total</b>	<b>0.1025</b>	<b>0.9597</b>	<b>1.1448</b>	<b>1.5300e-003</b>		<b>0.0593</b>	<b>0.0593</b>		<b>0.0546</b>	<b>0.0546</b>	<b>0.0000</b>	<b>148.0308</b>	<b>148.0308</b>	<b>0.0479</b>		<b>149.2277</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.20 Lake A - Diversion Structure (6) - 2023**

**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	0.0366	0.0241	0.2458	8.3000e-004	0.0986	6.1000e-004	0.0992	0.0262	5.6000e-004	0.0267		82.5189	82.5189	1.7100e-003		82.5618
<b>Total</b>	<b>0.0366</b>	<b>0.0241</b>	<b>0.2458</b>	<b>8.3000e-004</b>	<b>0.0986</b>	<b>6.1000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.6000e-004</b>	<b>0.0267</b>		<b>82.5189</b>	<b>82.5189</b>	<b>1.7100e-003</b>		<b>82.5618</b>

**3.21 Lake A - Diversion Structure (7) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.9353	7.3748	8.6539	0.0271		0.2853	0.2853		0.2624	0.2624		2,622.0176	2,622.0176	0.8480		2,643.2180
<b>Total</b>	<b>0.9353</b>	<b>7.3748</b>	<b>8.6539</b>	<b>0.0271</b>	<b>0.5303</b>	<b>0.2853</b>	<b>0.8155</b>	<b>0.0573</b>	<b>0.2624</b>	<b>0.3197</b>		<b>2,622.0176</b>	<b>2,622.0176</b>	<b>0.8480</b>		<b>2,643.2180</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.21 Lake A - Diversion Structure (7) - 2023**

**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	0.0366	0.0241	0.2458	8.3000e-004	0.0986	6.1000e-004	0.0992	0.0262	5.6000e-004	0.0267		82.5189	82.5189	1.7100e-003		82.5618
<b>Total</b>	<b>0.0366</b>	<b>0.0241</b>	<b>0.2458</b>	<b>8.3000e-004</b>	<b>0.0986</b>	<b>6.1000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.6000e-004</b>	<b>0.0267</b>		<b>82.5189</b>	<b>82.5189</b>	<b>1.7100e-003</b>		<b>82.5618</b>

**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					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.9353	7.3748	8.6539	0.0271		0.2853	0.2853		0.2624	0.2624	0.0000	2,622.0176	2,622.0176	0.8480		2,643.2180
<b>Total</b>	<b>0.9353</b>	<b>7.3748</b>	<b>8.6539</b>	<b>0.0271</b>	<b>0.2386</b>	<b>0.2853</b>	<b>0.5239</b>	<b>0.0258</b>	<b>0.2624</b>	<b>0.2882</b>	<b>0.0000</b>	<b>2,622.0176</b>	<b>2,622.0176</b>	<b>0.8480</b>		<b>2,643.2180</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.21 Lake A - Diversion Structure (7) - 2023**

**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	0.0366	0.0241	0.2458	8.3000e-004	0.0986	6.1000e-004	0.0992	0.0262	5.6000e-004	0.0267		82.5189	82.5189	1.7100e-003		82.5618
<b>Total</b>	<b>0.0366</b>	<b>0.0241</b>	<b>0.2458</b>	<b>8.3000e-004</b>	<b>0.0986</b>	<b>6.1000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.6000e-004</b>	<b>0.0267</b>		<b>82.5189</b>	<b>82.5189</b>	<b>1.7100e-003</b>		<b>82.5618</b>

**3.22 Lake A - Diversion Structure (8) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0605	0.0000	1.0605	0.1145	0.0000	0.1145			0.0000			0.0000
Off-Road	1.1013	8.1843	8.3817	0.0349		0.2943	0.2943		0.2707	0.2707		3,372.5289	3,372.5289	1.0907		3,399.7975
<b>Total</b>	<b>1.1013</b>	<b>8.1843</b>	<b>8.3817</b>	<b>0.0349</b>	<b>1.0605</b>	<b>0.2943</b>	<b>1.3548</b>	<b>0.1145</b>	<b>0.2707</b>	<b>0.3852</b>		<b>3,372.5289</b>	<b>3,372.5289</b>	<b>1.0907</b>		<b>3,399.7975</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.22 Lake A - Diversion Structure (8) - 2023**

**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	0.0366	0.0241	0.2458	8.3000e-004	0.0986	6.1000e-004	0.0992	0.0262	5.6000e-004	0.0267		82.5189	82.5189	1.7100e-003		82.5618
<b>Total</b>	<b>0.0366</b>	<b>0.0241</b>	<b>0.2458</b>	<b>8.3000e-004</b>	<b>0.0986</b>	<b>6.1000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.6000e-004</b>	<b>0.0267</b>		<b>82.5189</b>	<b>82.5189</b>	<b>1.7100e-003</b>		<b>82.5618</b>

**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					0.4772	0.0000	0.4772	0.0515	0.0000	0.0515			0.0000			0.0000
Off-Road	1.1013	8.1843	8.3817	0.0349		0.2943	0.2943		0.2707	0.2707	0.0000	3,372.5289	3,372.5289	1.0907		3,399.7975
<b>Total</b>	<b>1.1013</b>	<b>8.1843</b>	<b>8.3817</b>	<b>0.0349</b>	<b>0.4772</b>	<b>0.2943</b>	<b>0.7715</b>	<b>0.0515</b>	<b>0.2707</b>	<b>0.3222</b>	<b>0.0000</b>	<b>3,372.5289</b>	<b>3,372.5289</b>	<b>1.0907</b>		<b>3,399.7975</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.22 Lake A - Diversion Structure (8) - 2023**

**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	0.0366	0.0241	0.2458	8.3000e-004	0.0986	6.1000e-004	0.0992	0.0262	5.6000e-004	0.0267		82.5189	82.5189	1.7100e-003		82.5618
<b>Total</b>	<b>0.0366</b>	<b>0.0241</b>	<b>0.2458</b>	<b>8.3000e-004</b>	<b>0.0986</b>	<b>6.1000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.6000e-004</b>	<b>0.0267</b>		<b>82.5189</b>	<b>82.5189</b>	<b>1.7100e-003</b>		<b>82.5618</b>

**3.23 Lake A - Diversion Structure (9) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0860	0.0000	1.0860	0.1184	0.0000	0.1184			0.0000			0.0000
Off-Road	1.1013	8.1843	8.3817	0.0349		0.2943	0.2943		0.2707	0.2707		3,372.5289	3,372.5289	1.0907		3,399.7975
<b>Total</b>	<b>1.1013</b>	<b>8.1843</b>	<b>8.3817</b>	<b>0.0349</b>	<b>1.0860</b>	<b>0.2943</b>	<b>1.3802</b>	<b>0.1184</b>	<b>0.2707</b>	<b>0.3891</b>		<b>3,372.5289</b>	<b>3,372.5289</b>	<b>1.0907</b>		<b>3,399.7975</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.23 Lake A - Diversion Structure (9) - 2023**

**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	0.1853	5.9983	1.5983	0.0264	106.5436	0.0104	106.5540	10.7347	9.9600e-003	10.7447		2,815.8062	2,815.8062	0.1256		2,818.9456
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	0.0366	0.0241	0.2458	8.3000e-004	0.0986	6.1000e-004	0.0992	0.0262	5.6000e-004	0.0267		82.5189	82.5189	1.7100e-003		82.5618
<b>Total</b>	<b>0.2220</b>	<b>6.0223</b>	<b>1.8441</b>	<b>0.0273</b>	<b>106.6422</b>	<b>0.0110</b>	<b>106.6532</b>	<b>10.7609</b>	<b>0.0105</b>	<b>10.7714</b>		<b>2,898.3251</b>	<b>2,898.3251</b>	<b>0.1273</b>		<b>2,901.5073</b>

**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					0.4887	0.0000	0.4887	0.0533	0.0000	0.0533			0.0000			0.0000
Off-Road	1.1013	8.1843	8.3817	0.0349		0.2943	0.2943		0.2707	0.2707	0.0000	3,372.5289	3,372.5289	1.0907		3,399.7975
<b>Total</b>	<b>1.1013</b>	<b>8.1843</b>	<b>8.3817</b>	<b>0.0349</b>	<b>0.4887</b>	<b>0.2943</b>	<b>0.7829</b>	<b>0.0533</b>	<b>0.2707</b>	<b>0.3240</b>	<b>0.0000</b>	<b>3,372.5289</b>	<b>3,372.5289</b>	<b>1.0907</b>		<b>3,399.7975</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.23 Lake A - Diversion Structure (9) - 2023**

**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	0.1853	5.9983	1.5983	0.0264	65.4571	0.0104	65.4676	6.6261	9.9600e-003	6.6360		2,815.8062	2,815.8062	0.1256		2,818.9456
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	0.0366	0.0241	0.2458	8.3000e-004	0.0986	6.1000e-004	0.0992	0.0262	5.6000e-004	0.0267		82.5189	82.5189	1.7100e-003		82.5618
<b>Total</b>	<b>0.2220</b>	<b>6.0223</b>	<b>1.8441</b>	<b>0.0273</b>	<b>65.5557</b>	<b>0.0110</b>	<b>65.5667</b>	<b>6.6522</b>	<b>0.0105</b>	<b>6.6628</b>		<b>2,898.3251</b>	<b>2,898.3251</b>	<b>0.1273</b>		<b>2,901.5073</b>

**3.24 Lake A - Diversion Structure (10) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5974	4.6164	5.0932	0.0216		0.1652	0.1652		0.1520	0.1520		2,092.6404	2,092.6404	0.6768		2,109.5605
<b>Total</b>	<b>0.5974</b>	<b>4.6164</b>	<b>5.0932</b>	<b>0.0216</b>	<b>0.0000</b>	<b>0.1652</b>	<b>0.1652</b>	<b>0.0000</b>	<b>0.1520</b>	<b>0.1520</b>		<b>2,092.6404</b>	<b>2,092.6404</b>	<b>0.6768</b>		<b>2,109.5605</b>



Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.24 Lake A - Diversion Structure (10) - 2023**

**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	4.3900e-003	0.1568	0.0397	5.2000e-004	0.0136	1.7000e-004	0.0137	3.9000e-003	1.6000e-004	4.0600e-003		54.6708	54.6708	2.5500e-003		54.7345
Worker	0.0305	0.0201	0.2049	6.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		68.7658	68.7658	1.4300e-003		68.8015
<b>Total</b>	<b>0.0349</b>	<b>0.1769</b>	<b>0.2446</b>	<b>1.2100e-003</b>	<b>0.0957</b>	<b>6.8000e-004</b>	<b>0.0964</b>	<b>0.0257</b>	<b>6.3000e-004</b>	<b>0.0263</b>		<b>123.4366</b>	<b>123.4366</b>	<b>3.9800e-003</b>		<b>123.5359</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5974	4.6164	5.0932	0.0216		0.1652	0.1652		0.1520	0.1520	0.0000	2,092.6404	2,092.6404	0.6768		2,109.5605
<b>Total</b>	<b>0.5974</b>	<b>4.6164</b>	<b>5.0932</b>	<b>0.0216</b>	<b>0.0000</b>	<b>0.1652</b>	<b>0.1652</b>	<b>0.0000</b>	<b>0.1520</b>	<b>0.1520</b>	<b>0.0000</b>	<b>2,092.6404</b>	<b>2,092.6404</b>	<b>0.6768</b>		<b>2,109.5605</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.24 Lake A - Diversion Structure (10) - 2023**

**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	4.3900e-003	0.1568	0.0397	5.2000e-004	0.0136	1.7000e-004	0.0137	3.9000e-003	1.6000e-004	4.0600e-003		54.6708	54.6708	2.5500e-003		54.7345
Worker	0.0305	0.0201	0.2049	6.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		68.7658	68.7658	1.4300e-003		68.8015
<b>Total</b>	<b>0.0349</b>	<b>0.1769</b>	<b>0.2446</b>	<b>1.2100e-003</b>	<b>0.0957</b>	<b>6.8000e-004</b>	<b>0.0964</b>	<b>0.0257</b>	<b>6.3000e-004</b>	<b>0.0263</b>		<b>123.4366</b>	<b>123.4366</b>	<b>3.9800e-003</b>		<b>123.5359</b>

**3.25 Lake A - Fill Percolation Ponds - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.2947	0.0000	7.2947	3.4476	0.0000	3.4476			0.0000			0.0000
Off-Road	1.7163	17.5914	12.3378	0.0277		0.7077	0.7077		0.6510	0.6510		2,686.0937	2,686.0937	0.8687		2,707.8121
<b>Total</b>	<b>1.7163</b>	<b>17.5914</b>	<b>12.3378</b>	<b>0.0277</b>	<b>7.2947</b>	<b>0.7077</b>	<b>8.0024</b>	<b>3.4476</b>	<b>0.6510</b>	<b>4.0987</b>		<b>2,686.0937</b>	<b>2,686.0937</b>	<b>0.8687</b>		<b>2,707.8121</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.25 Lake A - Fill Percolation Ponds - 2023**

**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	0.0305	0.0201	0.2049	6.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		68.7658	68.7658	1.4300e-003		68.8015
<b>Total</b>	<b>0.0305</b>	<b>0.0201</b>	<b>0.2049</b>	<b>6.9000e-004</b>	<b>0.0822</b>	<b>5.1000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.7000e-004</b>	<b>0.0223</b>		<b>68.7658</b>	<b>68.7658</b>	<b>1.4300e-003</b>		<b>68.8015</b>

**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					3.2826	0.0000	3.2826	1.5514	0.0000	1.5514			0.0000			0.0000
Off-Road	1.7163	17.5914	12.3378	0.0277		0.7077	0.7077		0.6510	0.6510	0.0000	2,686.0937	2,686.0937	0.8687		2,707.8121
<b>Total</b>	<b>1.7163</b>	<b>17.5914</b>	<b>12.3378</b>	<b>0.0277</b>	<b>3.2826</b>	<b>0.7077</b>	<b>3.9903</b>	<b>1.5514</b>	<b>0.6510</b>	<b>2.2025</b>	<b>0.0000</b>	<b>2,686.0937</b>	<b>2,686.0937</b>	<b>0.8687</b>		<b>2,707.8121</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.25 Lake A - Fill Percolation Ponds - 2023**

**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	0.0305	0.0201	0.2049	6.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		68.7658	68.7658	1.4300e-003		68.8015
<b>Total</b>	<b>0.0305</b>	<b>0.0201</b>	<b>0.2049</b>	<b>6.9000e-004</b>	<b>0.0822</b>	<b>5.1000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.7000e-004</b>	<b>0.0223</b>		<b>68.7658</b>	<b>68.7658</b>	<b>1.4300e-003</b>		<b>68.8015</b>

**3.26 Lake A - Revegetation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5039	3.5679	3.2885	0.0132		0.1290	0.1290		0.1187	0.1187		1,279.8885	1,279.8885	0.4139		1,290.2371
<b>Total</b>	<b>0.5039</b>	<b>3.5679</b>	<b>3.2885</b>	<b>0.0132</b>	<b>0.0000</b>	<b>0.1290</b>	<b>0.1290</b>	<b>0.0000</b>	<b>0.1187</b>	<b>0.1187</b>		<b>1,279.8885</b>	<b>1,279.8885</b>	<b>0.4139</b>		<b>1,290.2371</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.26 Lake A - Revegetation - 2023**

**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	0.0305	0.0201	0.2049	6.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		68.7658	68.7658	1.4300e-003		68.8015
<b>Total</b>	<b>0.0305</b>	<b>0.0201</b>	<b>0.2049</b>	<b>6.9000e-004</b>	<b>0.0822</b>	<b>5.1000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.7000e-004</b>	<b>0.0223</b>		<b>68.7658</b>	<b>68.7658</b>	<b>1.4300e-003</b>		<b>68.8015</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5039	3.5679	3.2885	0.0132		0.1290	0.1290		0.1187	0.1187	0.0000	1,279.8885	1,279.8885	0.4139		1,290.2371
<b>Total</b>	<b>0.5039</b>	<b>3.5679</b>	<b>3.2885</b>	<b>0.0132</b>	<b>0.0000</b>	<b>0.1290</b>	<b>0.1290</b>	<b>0.0000</b>	<b>0.1187</b>	<b>0.1187</b>	<b>0.0000</b>	<b>1,279.8885</b>	<b>1,279.8885</b>	<b>0.4139</b>		<b>1,290.2371</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**3.26 Lake A - Revegetation - 2023**

**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	0.0305	0.0201	0.2049	6.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		68.7658	68.7658	1.4300e-003		68.8015
<b>Total</b>	<b>0.0305</b>	<b>0.0201</b>	<b>0.2049</b>	<b>6.9000e-004</b>	<b>0.0822</b>	<b>5.1000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.7000e-004</b>	<b>0.0223</b>		<b>68.7658</b>	<b>68.7658</b>	<b>1.4300e-003</b>		<b>68.8015</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.563555	0.037576	0.190339	0.105468	0.014285	0.005132	0.025195	0.047484	0.002230	0.002277	0.005427	0.000351	0.000679

5.0 Energy Detail

Historical Energy Use: N

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**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	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	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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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	1.5000e-003	1.5000e-004	0.0163	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0350	0.0350	9.0000e-005		0.0373
Unmitigated	1.5000e-003	1.5000e-004	0.0163	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0350	0.0350	9.0000e-005		0.0373

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

**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	1.5000e-003	1.5000e-004	0.0163	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0350	0.0350	9.0000e-005		0.0373
<b>Total</b>	<b>1.5000e-003</b>	<b>1.5000e-004</b>	<b>0.0163</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>0.0350</b>	<b>0.0350</b>	<b>9.0000e-005</b>		<b>0.0373</b>

**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	1.5000e-003	1.5000e-004	0.0163	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0350	0.0350	9.0000e-005		0.0373
<b>Total</b>	<b>1.5000e-003</b>	<b>1.5000e-004</b>	<b>0.0163</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>0.0350</b>	<b>0.0350</b>	<b>9.0000e-005</b>		<b>0.0373</b>

**7.0 Water Detail**

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Winter

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**Eliot Quarry - Lake A Reclamation Activities  
Alameda County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	160.00	User Defined Unit	160.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	63
<b>Climate Zone</b>	4			<b>Operational Year</b>	2025
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - Lake A reclamation activity per Revised Reclamation Plan.

Land Use - Lake A area approximately 160 acres north of ADV.

Construction Phase - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

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Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Trips and VMT - See CalEEMod modeling assumptions attachment.

On-road Fugitive Dust - See CalEEMod modeling assumptions attachment.

Grading - See CalEEMod modeling assumptions attachment.

Energy Use -

Construction Off-road Equipment Mitigation - Mitigation assumptions based on BAAQMD CEQA Guide BMPs for PM reduction.

Table Name	Column Name	Default Value	New Value
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tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

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Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

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Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

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Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

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Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

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Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

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Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

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tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	0.00	16.00

## Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

tblTripsAndVMT	WorkerTripNumber	25.00	26.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	14.00
tblTripsAndVMT	WorkerTripNumber	0.00	16.00

**2.0 Emissions Summary**

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Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
13	1-21-2022	4-20-2022	0.1429	0.1429
14	4-21-2022	7-20-2022	1.4705	1.4705
15	7-21-2022	10-20-2022	0.0911	0.0911
18	4-21-2023	7-20-2023	0.1374	0.1374
		Highest	1.4705	1.4705

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.4000e-004	1.0000e-005	1.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.8600e-003	2.8600e-003	1.0000e-005	0.0000	3.0400e-003
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
<b>Total</b>	<b>1.4000e-004</b>	<b>1.0000e-005</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.8600e-003</b>	<b>2.8600e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.0400e-003</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**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	1.4000e-004	1.0000e-005	1.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.8600e-003	2.8600e-003	1.0000e-005	0.0000	3.0400e-003
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
<b>Total</b>	<b>1.4000e-004</b>	<b>1.0000e-005</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.8600e-003</b>	<b>2.8600e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.0400e-003</b>

	ROG	NOx	CO	SO2	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	Lake A - Convert Berm to Island	Grading	4/4/2022	4/15/2022	5	10	Excavate to convert berm to island
2	Lake A - ADV Berms	Grading	4/18/2022	4/29/2022	5	10	Install berms along ADV
3	Lake A - Overflow Outlet to ADV	Grading	5/2/2022	5/6/2022	5	5	Finegrade and place rip rap

## Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

4	Lake A - Pipeline to Lakes B and C (1)	Building Construction	5/9/2022	5/13/2022	5	5	Install Vault 1 at Lake A inlet with slide gates
5	Lake A - Pipeline to Lakes B and C (2)	Grading	5/16/2022	6/14/2022	5	22	Cut-and-cover Lake A pipe section
6	Lake A - Pipeline to Lakes B and C (3)	Building Construction	6/15/2022	6/21/2022	5	5	Install 84" Lake A pipe
7	Lake A - Pipeline to Lakes B and C (4)	Grading	6/22/2022	6/23/2022	5	2	Isabel JB excavate bore/receiving pits&
8	Lake A - Pipeline to Lakes B and C (5)	Building Construction	6/24/2022	7/5/2022	5	8	Isabel JB bore 108" casing&
9	Lake A - Pipeline to Lakes B and C (6)	Building Construction	7/6/2022	7/12/2022	5	5	Install Vault 2 with Lake B/C diversion box
10	Lake A - Pipeline to Lakes B and C (7)	Building Construction	7/13/2022	7/14/2022	5	2	Band/skid/install 84" pipe thru Isabel conduit
11	Lake A - Pipeline to Lakes B and C (8)	Grading	7/15/2022	7/19/2022	5	3	Install 30" pipe turnout to Lake B with rip rap
12	Lake A - Pipeline to Lakes B and C (9)	Grading	7/20/2022	8/2/2022	5	10	Install 84" pipe from Vault 2 to Lake C
13	Lake A - Pipeline to Lakes B and C (10)	Grading	8/3/2022	8/8/2022	5	4	Backfill bore/receiving pits and Vault 2 box
14	Lake A - Diversion Structure (1)	Site Preparation	5/1/2023	5/2/2023	5	2	Install pumps for low flow diversion
15	Lake A - Diversion Structure (2)	Grading	5/3/2023	5/5/2023	5	3	Excavate infiltration structure
16	Lake A - Diversion Structure (3)	Grading	5/8/2023	5/17/2023	5	8	Install gravel / pipe
17	Lake A - Diversion Structure (4)	Grading	5/18/2023	5/19/2023	5	2	Dig / lay / backfill discharge conduit
18	Lake A - Diversion Structure (5)	Grading	5/22/2023	5/22/2023	5	1	Grade low-head dam
19	Lake A - Diversion Structure (6)	Building Construction	5/23/2023	6/5/2023	5	10	Frame and pour concrete
20	Lake A - Diversion Structure (7)	Grading	6/6/2023	6/7/2023	5	2	Backfill dam
21	Lake A - Diversion Structure (8)	Grading	6/8/2023	6/8/2023	5	1	Grade fishway
22	Lake A - Diversion Structure (9)	Grading	6/9/2023	6/9/2023	5	1	Place rip rap
23	Lake A - Diversion Structure (10)	Site Preparation	6/12/2023	6/12/2023	5	1	Remove pumps
24	Lake A - Fill Percolation Ponds	Grading	6/12/2023	6/16/2023	5	5	Fill percolation ponds
25	Lake A - Revegetation	Site Preparation	10/2/2023	10/27/2023	5	20	Landscaping and revegetation

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

## Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Lake A - Convert Berm to Island	Excavators	1	8.00	396	0.38
Lake A - Convert Berm to Island	Graders	0	0.00	187	0.41
Lake A - Convert Berm to Island	Off-Highway Trucks	2	8.00	511	0.38
Lake A - Convert Berm to Island	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Convert Berm to Island	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Convert Berm to Island	Scrapers	0	0.00	367	0.48
Lake A - Convert Berm to Island	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake A - ADV Berms	Excavators	0	0.00	158	0.38
Lake A - ADV Berms	Graders	1	8.00	238	0.41
Lake A - ADV Berms	Off-Highway Trucks	1	8.00	402	0.38
Lake A - ADV Berms	Rollers	1	8.00	405	0.38
Lake A - ADV Berms	Rubber Tired Dozers	1	8.00	303	0.40
Lake A - ADV Berms	Scrapers	0	0.00	367	0.48
Lake A - ADV Berms	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Overflow Outlet to ADV	Excavators	1	8.00	396	0.38
Lake A - Overflow Outlet to ADV	Graders	0	0.00	187	0.41
Lake A - Overflow Outlet to ADV	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Overflow Outlet to ADV	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Overflow Outlet to ADV	Scrapers	0	0.00	367	0.48
Lake A - Overflow Outlet to ADV	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Pipeline to Lakes B and C (1)	Cranes	0	0.00	231	0.29

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

Lake A - Pipeline to Lakes B and C (1)	Forklifts	1	8.00	89	0.20
Lake A - Pipeline to Lakes B and C (1)	Generator Sets	0	0.00	84	0.74
Lake A - Pipeline to Lakes B and C (1)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake A - Pipeline to Lakes B and C (1)	Welders	0	0.00	46	0.45
Lake A - Pipeline to Lakes B and C (2)	Excavators	0	0.00	158	0.38
Lake A - Pipeline to Lakes B and C (2)	Graders	1	8.00	238	0.41
Lake A - Pipeline to Lakes B and C (2)	Off-Highway Trucks	2	8.00	402	0.38
Lake A - Pipeline to Lakes B and C (2)	Rollers	1	8.00	405	0.38
Lake A - Pipeline to Lakes B and C (2)	Rubber Tired Dozers	1	8.00	600	0.40
Lake A - Pipeline to Lakes B and C (2)	Rubber Tired Dozers	1	8.00	303	0.40
Lake A - Pipeline to Lakes B and C (2)	Scrapers	4	8.00	570	0.48
Lake A - Pipeline to Lakes B and C (2)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake A - Pipeline to Lakes B and C (3)	Cranes	0	0.00	231	0.29
Lake A - Pipeline to Lakes B and C (3)	Excavators	1	8.00	396	0.38
Lake A - Pipeline to Lakes B and C (3)	Forklifts	0	0.00	89	0.20
Lake A - Pipeline to Lakes B and C (3)	Generator Sets	0	0.00	84	0.74
Lake A - Pipeline to Lakes B and C (3)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Pipeline to Lakes B and C (3)	Welders	0	0.00	46	0.45
Lake A - Pipeline to Lakes B and C (4)	Excavators	1	8.00	396	0.38
Lake A - Pipeline to Lakes B and C (4)	Graders	0	0.00	187	0.41
Lake A - Pipeline to Lakes B and C (4)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Pipeline to Lakes B and C (4)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Pipeline to Lakes B and C (4)	Scrapers	0	0.00	367	0.48
Lake A - Pipeline to Lakes B and C (4)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Pipeline to Lakes B and C (5)	Bore/Drill Rigs	1	8.00	221	0.50
Lake A - Pipeline to Lakes B and C (5)	Cranes	1	8.00	231	0.29
Lake A - Pipeline to Lakes B and C (5)	Forklifts	0	0.00	89	0.20



Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

Lake A - Pipeline to Lakes B and C (5)	Generator Sets	0	0.00	84	0.74
Lake A - Pipeline to Lakes B and C (5)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Pipeline to Lakes B and C (5)	Welders	0	0.00	46	0.45
Lake A - Pipeline to Lakes B and C (6)	Cranes	0	0.00	231	0.29
Lake A - Pipeline to Lakes B and C (6)	Forklifts	1	8.00	89	0.20
Lake A - Pipeline to Lakes B and C (6)	Generator Sets	0	0.00	84	0.74
Lake A - Pipeline to Lakes B and C (6)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake A - Pipeline to Lakes B and C (6)	Welders	0	0.00	46	0.45
Lake A - Pipeline to Lakes B and C (7)	Cranes	0	0.00	231	0.29
Lake A - Pipeline to Lakes B and C (7)	Excavators	1	8.00	396	0.38
Lake A - Pipeline to Lakes B and C (7)	Forklifts	0	0.00	89	0.20
Lake A - Pipeline to Lakes B and C (7)	Generator Sets	0	0.00	84	0.74
Lake A - Pipeline to Lakes B and C (7)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Pipeline to Lakes B and C (7)	Welders	0	0.00	46	0.45
Lake A - Pipeline to Lakes B and C (8)	Excavators	1	8.00	396	0.38
Lake A - Pipeline to Lakes B and C (8)	Graders	0	0.00	187	0.41
Lake A - Pipeline to Lakes B and C (8)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Pipeline to Lakes B and C (8)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Pipeline to Lakes B and C (8)	Scrapers	0	0.00	367	0.48
Lake A - Pipeline to Lakes B and C (8)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Pipeline to Lakes B and C (9)	Excavators	1	8.00	396	0.38
Lake A - Pipeline to Lakes B and C (9)	Graders	0	0.00	187	0.41
Lake A - Pipeline to Lakes B and C (9)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Pipeline to Lakes B and C (9)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Pipeline to Lakes B and C (9)	Scrapers	0	0.00	367	0.48
Lake A - Pipeline to Lakes B and C (9)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Pipeline to Lakes B and C (10)	Excavators	1	8.00	303	0.38

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

Lake A - Pipeline to Lakes B and C (10)	Graders	0	0.00	187	0.41
Lake A - Pipeline to Lakes B and C (10)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Pipeline to Lakes B and C (10)	Rollers	1	8.00	405	0.38
Lake A - Pipeline to Lakes B and C (10)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Pipeline to Lakes B and C (10)	Scrapers	0	0.00	367	0.48
Lake A - Pipeline to Lakes B and C (10)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (1)	Excavators	1	8.00	396	0.38
Lake A - Diversion Structure (1)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (1)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (2)	Excavators	1	8.00	396	0.38
Lake A - Diversion Structure (2)	Graders	0	0.00	187	0.41
Lake A - Diversion Structure (2)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Diversion Structure (2)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (2)	Scrapers	0	0.00	367	0.48
Lake A - Diversion Structure (2)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (3)	Excavators	1	8.00	303	0.38
Lake A - Diversion Structure (3)	Graders	0	0.00	187	0.41
Lake A - Diversion Structure (3)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Diversion Structure (3)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (3)	Scrapers	0	0.00	367	0.48
Lake A - Diversion Structure (3)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (4)	Excavators	1	8.00	396	0.38
Lake A - Diversion Structure (4)	Excavators	1	8.00	303	0.38
Lake A - Diversion Structure (4)	Graders	0	0.00	187	0.41
Lake A - Diversion Structure (4)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Diversion Structure (4)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (4)	Scrapers	0	0.00	367	0.48

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

Lake A - Diversion Structure (4)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (5)	Excavators	1	8.00	396	0.38
Lake A - Diversion Structure (5)	Graders	0	0.00	187	0.41
Lake A - Diversion Structure (5)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Diversion Structure (5)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (5)	Scrapers	0	0.00	367	0.48
Lake A - Diversion Structure (5)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (6)	Cranes	0	0.00	231	0.29
Lake A - Diversion Structure (6)	Forklifts	1	8.00	89	0.20
Lake A - Diversion Structure (6)	Generator Sets	0	0.00	84	0.74
Lake A - Diversion Structure (6)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake A - Diversion Structure (6)	Welders	0	0.00	46	0.45
Lake A - Diversion Structure (7)	Excavators	0	0.00	158	0.38
Lake A - Diversion Structure (7)	Graders	0	0.00	187	0.41
Lake A - Diversion Structure (7)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Diversion Structure (7)	Rollers	1	8.00	157	0.38
Lake A - Diversion Structure (7)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (7)	Scrapers	0	0.00	367	0.48
Lake A - Diversion Structure (7)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (8)	Excavators	1	8.00	396	0.38
Lake A - Diversion Structure (8)	Graders	0	0.00	187	0.41
Lake A - Diversion Structure (8)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Diversion Structure (8)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (8)	Scrapers	0	0.00	367	0.48
Lake A - Diversion Structure (8)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (9)	Excavators	1	8.00	396	0.38
Lake A - Diversion Structure (9)	Graders	0	0.00	187	0.41

## Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

Lake A - Diversion Structure (9)	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Diversion Structure (9)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (9)	Scrapers	0	0.00	367	0.48
Lake A - Diversion Structure (9)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Diversion Structure (10)	Excavators	1	8.00	396	0.38
Lake A - Diversion Structure (10)	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Diversion Structure (10)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Fill Percolation Ponds	Excavators	0	0.00	158	0.38
Lake A - Fill Percolation Ponds	Graders	1	8.00	238	0.41
Lake A - Fill Percolation Ponds	Rubber Tired Dozers	1	8.00	303	0.40
Lake A - Fill Percolation Ponds	Scrapers	0	0.00	367	0.48
Lake A - Fill Percolation Ponds	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake A - Revegetation	Off-Highway Trucks	1	8.00	402	0.38
Lake A - Revegetation	Rubber Tired Dozers	0	0.00	247	0.40
Lake A - Revegetation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

**Trips and VMT**

## Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

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
Lake A - Convert Berm to Island	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - ADV Berms	5	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Overflow Outlet to ADV	3	12.00	0.00	72.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (1)	1	16.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (2)	10	26.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (3)	2	12.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (4)	3	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (5)	3	14.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (6)	1	16.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (7)	2	12.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (8)	3	16.00	2.00	36.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (9)	3	16.00	2.00	36.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Pipeline to Lakes B and C (10)	4	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (1)	2	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (2)	3	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (3)	3	16.00	2.00	308.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (4)	4	18.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (5)	3	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (6)	1	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (7)	3	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (8)	3	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (9)	3	12.00	0.00	36.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Diversion Structure (10)	2	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Fill Percolation Ponds	3	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake A - Revegetation	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 Lake A - Convert Berm to Island - 2022**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0600e-003	0.0000	1.0600e-003	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0134	0.1115	0.0907	3.0000e-004		4.2000e-003	4.2000e-003		3.8600e-003	3.8600e-003	0.0000	26.1819	26.1819	8.4700e-003	0.0000	26.3935
<b>Total</b>	<b>0.0134</b>	<b>0.1115</b>	<b>0.0907</b>	<b>3.0000e-004</b>	<b>1.0600e-003</b>	<b>4.2000e-003</b>	<b>5.2600e-003</b>	<b>1.1000e-004</b>	<b>3.8600e-003</b>	<b>3.9700e-003</b>	<b>0.0000</b>	<b>26.1819</b>	<b>26.1819</b>	<b>8.4700e-003</b>	<b>0.0000</b>	<b>26.3935</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.2 Lake A - Convert Berm to Island - 2022**

**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	1.5000e-004	1.0000e-004	1.0900e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3269	0.3269	1.0000e-005	0.0000	0.3271
<b>Total</b>	<b>1.5000e-004</b>	<b>1.0000e-004</b>	<b>1.0900e-003</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.3269</b>	<b>0.3269</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3271</b>

**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					4.8000e-004	0.0000	4.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0134	0.1115	0.0907	3.0000e-004		4.2000e-003	4.2000e-003		3.8600e-003	3.8600e-003	0.0000	26.1818	26.1818	8.4700e-003	0.0000	26.3935
<b>Total</b>	<b>0.0134</b>	<b>0.1115</b>	<b>0.0907</b>	<b>3.0000e-004</b>	<b>4.8000e-004</b>	<b>4.2000e-003</b>	<b>4.6800e-003</b>	<b>5.0000e-005</b>	<b>3.8600e-003</b>	<b>3.9100e-003</b>	<b>0.0000</b>	<b>26.1818</b>	<b>26.1818</b>	<b>8.4700e-003</b>	<b>0.0000</b>	<b>26.3935</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.2 Lake A - Convert Berm to Island - 2022**

**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	1.5000e-004	1.0000e-004	1.0900e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3269	0.3269	1.0000e-005	0.0000	0.3271
<b>Total</b>	<b>1.5000e-004</b>	<b>1.0000e-004</b>	<b>1.0900e-003</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.3269</b>	<b>0.3269</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3271</b>

**3.3 Lake A - ADV Berms - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0317	0.0000	0.0317	0.0167	0.0000	0.0167	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0148	0.1513	0.1074	2.7000e-004		5.9400e-003	5.9400e-003		5.4600e-003	5.4600e-003	0.0000	23.8817	23.8817	7.7200e-003	0.0000	24.0748
<b>Total</b>	<b>0.0148</b>	<b>0.1513</b>	<b>0.1074</b>	<b>2.7000e-004</b>	<b>0.0317</b>	<b>5.9400e-003</b>	<b>0.0376</b>	<b>0.0167</b>	<b>5.4600e-003</b>	<b>0.0222</b>	<b>0.0000</b>	<b>23.8817</b>	<b>23.8817</b>	<b>7.7200e-003</b>	<b>0.0000</b>	<b>24.0748</b>



Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.3 Lake A - ADV Berms - 2022**

**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	1.8000e-004	1.2000e-004	1.3100e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3923	0.3923	1.0000e-005	0.0000	0.3925
<b>Total</b>	<b>1.8000e-004</b>	<b>1.2000e-004</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.8000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3923</b>	<b>0.3923</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3925</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0143	0.0000	0.0143	7.5300e-003	0.0000	7.5300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0148	0.1513	0.1074	2.7000e-004		5.9400e-003	5.9400e-003		5.4600e-003	5.4600e-003	0.0000	23.8817	23.8817	7.7200e-003	0.0000	24.0748
<b>Total</b>	<b>0.0148</b>	<b>0.1513</b>	<b>0.1074</b>	<b>2.7000e-004</b>	<b>0.0143</b>	<b>5.9400e-003</b>	<b>0.0202</b>	<b>7.5300e-003</b>	<b>5.4600e-003</b>	<b>0.0130</b>	<b>0.0000</b>	<b>23.8817</b>	<b>23.8817</b>	<b>7.7200e-003</b>	<b>0.0000</b>	<b>24.0748</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.3 Lake A - ADV Berms - 2022**

**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	1.8000e-004	1.2000e-004	1.3100e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3923	0.3923	1.0000e-005	0.0000	0.3925
<b>Total</b>	<b>1.8000e-004</b>	<b>1.2000e-004</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.8000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3923</b>	<b>0.3923</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3925</b>

**3.4 Lake A - Overflow Outlet to ADV - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.6000e-004	0.0000	5.6000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8900e-003	0.0234	0.0212	9.0000e-005		8.3000e-004	8.3000e-004		7.7000e-004	7.7000e-004	0.0000	7.6448	7.6448	2.4700e-003	0.0000	7.7066
<b>Total</b>	<b>2.8900e-003</b>	<b>0.0234</b>	<b>0.0212</b>	<b>9.0000e-005</b>	<b>5.6000e-004</b>	<b>8.3000e-004</b>	<b>1.3900e-003</b>	<b>6.0000e-005</b>	<b>7.7000e-004</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>7.6448</b>	<b>7.6448</b>	<b>2.4700e-003</b>	<b>0.0000</b>	<b>7.7066</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.4 Lake A - Overflow Outlet to ADV - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.7000e-004	8.9400e-003	1.7600e-003	3.0000e-005	0.0882	3.0000e-005	0.0883	8.9100e-003	2.0000e-005	8.9300e-003	0.0000	2.6858	2.6858	1.3000e-004	0.0000	2.6891
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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
<b>Total</b>	<b>3.6000e-004</b>	<b>9.0000e-003</b>	<b>2.4100e-003</b>	<b>3.0000e-005</b>	<b>0.0885</b>	<b>3.0000e-005</b>	<b>0.0885</b>	<b>8.9700e-003</b>	<b>2.0000e-005</b>	<b>8.9900e-003</b>	<b>0.0000</b>	<b>2.8819</b>	<b>2.8819</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>2.8853</b>

**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					2.5000e-004	0.0000	2.5000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8900e-003	0.0234	0.0212	9.0000e-005		8.3000e-004	8.3000e-004		7.7000e-004	7.7000e-004	0.0000	7.6448	7.6448	2.4700e-003	0.0000	7.7066
<b>Total</b>	<b>2.8900e-003</b>	<b>0.0234</b>	<b>0.0212</b>	<b>9.0000e-005</b>	<b>2.5000e-004</b>	<b>8.3000e-004</b>	<b>1.0800e-003</b>	<b>3.0000e-005</b>	<b>7.7000e-004</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>7.6448</b>	<b>7.6448</b>	<b>2.4700e-003</b>	<b>0.0000</b>	<b>7.7066</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.4 Lake A - Overflow Outlet to ADV - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.7000e-004	8.9400e-003	1.7600e-003	3.0000e-005	0.0542	3.0000e-005	0.0543	5.5100e-003	2.0000e-005	5.5300e-003	0.0000	2.6858	2.6858	1.3000e-004	0.0000	2.6891
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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
<b>Total</b>	<b>3.6000e-004</b>	<b>9.0000e-003</b>	<b>2.4100e-003</b>	<b>3.0000e-005</b>	<b>0.0545</b>	<b>3.0000e-005</b>	<b>0.0545</b>	<b>5.5700e-003</b>	<b>2.0000e-005</b>	<b>5.5900e-003</b>	<b>0.0000</b>	<b>2.8819</b>	<b>2.8819</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>2.8853</b>

**3.5 Lake A - Pipeline to Lakes B and C (1) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.8000e-004	2.6400e-003	2.8800e-003	0.0000		1.7000e-004	1.7000e-004		1.6000e-004	1.6000e-004	0.0000	0.3357	0.3357	1.1000e-004	0.0000	0.3384
<b>Total</b>	<b>2.8000e-004</b>	<b>2.6400e-003</b>	<b>2.8800e-003</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.6000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.3357</b>	<b>0.3357</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.3384</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.5 Lake A - Pipeline to Lakes B and C (1) - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	5.1000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1297	0.1297	1.0000e-005	0.0000	0.1299
Worker	1.2000e-004	8.0000e-005	8.7000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2615	0.2615	1.0000e-005	0.0000	0.2616
<b>Total</b>	<b>1.3000e-004</b>	<b>5.9000e-004</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>3.5000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.3912</b>	<b>0.3912</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3915</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.8000e-004	2.6400e-003	2.8800e-003	0.0000		1.7000e-004	1.7000e-004		1.6000e-004	1.6000e-004	0.0000	0.3357	0.3357	1.1000e-004	0.0000	0.3384
<b>Total</b>	<b>2.8000e-004</b>	<b>2.6400e-003</b>	<b>2.8800e-003</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.6000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.3357</b>	<b>0.3357</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.3384</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.5 Lake A - Pipeline to Lakes B and C (1) - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	5.1000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1297	0.1297	1.0000e-005	0.0000	0.1299
Worker	1.2000e-004	8.0000e-005	8.7000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2615	0.2615	1.0000e-005	0.0000	0.2616
<b>Total</b>	<b>1.3000e-004</b>	<b>5.9000e-004</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>3.5000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.3912</b>	<b>0.3912</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3915</b>

**3.6 Lake A - Pipeline to Lakes B and C (2) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0673	0.0000	0.0673	0.0365	0.0000	0.0365	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1041	1.1592	0.6895	1.9100e-003		0.0429	0.0429		0.0395	0.0395	0.0000	167.6249	167.6249	0.0542	0.0000	168.9803
<b>Total</b>	<b>0.1041</b>	<b>1.1592</b>	<b>0.6895</b>	<b>1.9100e-003</b>	<b>0.0673</b>	<b>0.0429</b>	<b>0.1102</b>	<b>0.0365</b>	<b>0.0395</b>	<b>0.0760</b>	<b>0.0000</b>	<b>167.6249</b>	<b>167.6249</b>	<b>0.0542</b>	<b>0.0000</b>	<b>168.9803</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.6 Lake A - Pipeline to Lakes B and C (2) - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5000e-004	5.8000e-004	6.2400e-003	2.0000e-005	2.2600e-003	1.0000e-005	2.2800e-003	6.0000e-004	1.0000e-005	6.2000e-004	0.0000	1.8697	1.8697	4.0000e-005	0.0000	1.8708
<b>Total</b>	<b>8.5000e-004</b>	<b>5.8000e-004</b>	<b>6.2400e-003</b>	<b>2.0000e-005</b>	<b>2.2600e-003</b>	<b>1.0000e-005</b>	<b>2.2800e-003</b>	<b>6.0000e-004</b>	<b>1.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>1.8697</b>	<b>1.8697</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.8708</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0303	0.0000	0.0303	0.0164	0.0000	0.0164	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1041	1.1592	0.6895	1.9100e-003		0.0429	0.0429		0.0395	0.0395	0.0000	167.6247	167.6247	0.0542	0.0000	168.9801
<b>Total</b>	<b>0.1041</b>	<b>1.1592</b>	<b>0.6895</b>	<b>1.9100e-003</b>	<b>0.0303</b>	<b>0.0429</b>	<b>0.0732</b>	<b>0.0164</b>	<b>0.0395</b>	<b>0.0559</b>	<b>0.0000</b>	<b>167.6247</b>	<b>167.6247</b>	<b>0.0542</b>	<b>0.0000</b>	<b>168.9801</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.6 Lake A - Pipeline to Lakes B and C (2) - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5000e-004	5.8000e-004	6.2400e-003	2.0000e-005	2.2600e-003	1.0000e-005	2.2800e-003	6.0000e-004	1.0000e-005	6.2000e-004	0.0000	1.8697	1.8697	4.0000e-005	0.0000	1.8708
<b>Total</b>	<b>8.5000e-004</b>	<b>5.8000e-004</b>	<b>6.2400e-003</b>	<b>2.0000e-005</b>	<b>2.2600e-003</b>	<b>1.0000e-005</b>	<b>2.2800e-003</b>	<b>6.0000e-004</b>	<b>1.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>1.8697</b>	<b>1.8697</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.8708</b>

**3.7 Lake A - Pipeline to Lakes B and C (3) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5700e-003	0.0134	0.0128	5.0000e-005		4.7000e-004	4.7000e-004		4.3000e-004	4.3000e-004	0.0000	4.7441	4.7441	1.5300e-003	0.0000	4.7825
<b>Total</b>	<b>1.5700e-003</b>	<b>0.0134</b>	<b>0.0128</b>	<b>5.0000e-005</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>		<b>4.3000e-004</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>4.7441</b>	<b>4.7441</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>4.7825</b>



Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.7 Lake A - Pipeline to Lakes B and C (3) - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	5.1000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1297	0.1297	1.0000e-005	0.0000	0.1299
Worker	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
<b>Total</b>	<b>1.0000e-004</b>	<b>5.7000e-004</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.3258</b>	<b>0.3258</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3261</b>

**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	1.5700e-003	0.0134	0.0128	5.0000e-005		4.7000e-004	4.7000e-004		4.3000e-004	4.3000e-004	0.0000	4.7441	4.7441	1.5300e-003	0.0000	4.7825
<b>Total</b>	<b>1.5700e-003</b>	<b>0.0134</b>	<b>0.0128</b>	<b>5.0000e-005</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>		<b>4.3000e-004</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>4.7441</b>	<b>4.7441</b>	<b>1.5300e-003</b>	<b>0.0000</b>	<b>4.7825</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.7 Lake A - Pipeline to Lakes B and C (3) - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	5.1000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1297	0.1297	1.0000e-005	0.0000	0.1299
Worker	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
<b>Total</b>	<b>1.0000e-004</b>	<b>5.7000e-004</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.3258</b>	<b>0.3258</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3261</b>

**3.8 Lake A - Pipeline to Lakes B and C (4) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3000e-004	0.0000	5.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1600e-003	9.3600e-003	8.4800e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.1000e-004	3.1000e-004	0.0000	3.0579	3.0579	9.9000e-004	0.0000	3.0826
<b>Total</b>	<b>1.1600e-003</b>	<b>9.3600e-003</b>	<b>8.4800e-003</b>	<b>3.0000e-005</b>	<b>5.3000e-004</b>	<b>3.3000e-004</b>	<b>8.6000e-004</b>	<b>6.0000e-005</b>	<b>3.1000e-004</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>3.0579</b>	<b>3.0579</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>3.0826</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.8 Lake A - Pipeline to Lakes B and C (4) - 2022**

**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	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0654	0.0654	0.0000	0.0000	0.0654
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0654</b>	<b>0.0654</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0654</b>

**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					2.4000e-004	0.0000	2.4000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1600e-003	9.3600e-003	8.4800e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.1000e-004	3.1000e-004	0.0000	3.0579	3.0579	9.9000e-004	0.0000	3.0826
<b>Total</b>	<b>1.1600e-003</b>	<b>9.3600e-003</b>	<b>8.4800e-003</b>	<b>3.0000e-005</b>	<b>2.4000e-004</b>	<b>3.3000e-004</b>	<b>5.7000e-004</b>	<b>3.0000e-005</b>	<b>3.1000e-004</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>3.0579</b>	<b>3.0579</b>	<b>9.9000e-004</b>	<b>0.0000</b>	<b>3.0826</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.8 Lake A - Pipeline to Lakes B and C (4) - 2022**

**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	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0654	0.0654	0.0000	0.0000	0.0654
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0654</b>	<b>0.0654</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0654</b>

**3.9 Lake A - Pipeline to Lakes B and C (5) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.5400e-003	0.0362	0.0250	1.0000e-004		1.3700e-003	1.3700e-003		1.2600e-003	1.2600e-003	0.0000	8.4098	8.4098	2.7200e-003	0.0000	8.4778
<b>Total</b>	<b>3.5400e-003</b>	<b>0.0362</b>	<b>0.0250</b>	<b>1.0000e-004</b>		<b>1.3700e-003</b>	<b>1.3700e-003</b>		<b>1.2600e-003</b>	<b>1.2600e-003</b>	<b>0.0000</b>	<b>8.4098</b>	<b>8.4098</b>	<b>2.7200e-003</b>	<b>0.0000</b>	<b>8.4778</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.9 Lake A - Pipeline to Lakes B and C (5) - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	8.1000e-004	1.7000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2075	0.2075	1.0000e-005	0.0000	0.2078
Worker	1.7000e-004	1.1000e-004	1.2200e-003	0.0000	4.4000e-004	0.0000	4.5000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3661	0.3661	1.0000e-005	0.0000	0.3663
<b>Total</b>	<b>1.9000e-004</b>	<b>9.2000e-004</b>	<b>1.3900e-003</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.5736</b>	<b>0.5736</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.5741</b>

**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	3.5400e-003	0.0362	0.0250	1.0000e-004		1.3700e-003	1.3700e-003		1.2600e-003	1.2600e-003	0.0000	8.4098	8.4098	2.7200e-003	0.0000	8.4778
<b>Total</b>	<b>3.5400e-003</b>	<b>0.0362</b>	<b>0.0250</b>	<b>1.0000e-004</b>		<b>1.3700e-003</b>	<b>1.3700e-003</b>		<b>1.2600e-003</b>	<b>1.2600e-003</b>	<b>0.0000</b>	<b>8.4098</b>	<b>8.4098</b>	<b>2.7200e-003</b>	<b>0.0000</b>	<b>8.4778</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.9 Lake A - Pipeline to Lakes B and C (5) - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	8.1000e-004	1.7000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2075	0.2075	1.0000e-005	0.0000	0.2078
Worker	1.7000e-004	1.1000e-004	1.2200e-003	0.0000	4.4000e-004	0.0000	4.5000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3661	0.3661	1.0000e-005	0.0000	0.3663
<b>Total</b>	<b>1.9000e-004</b>	<b>9.2000e-004</b>	<b>1.3900e-003</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.5736</b>	<b>0.5736</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.5741</b>

**3.10 Lake A - Pipeline to Lakes B and C (6) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.8000e-004	2.6400e-003	2.8800e-003	0.0000		1.7000e-004	1.7000e-004		1.6000e-004	1.6000e-004	0.0000	0.3357	0.3357	1.1000e-004	0.0000	0.3384
<b>Total</b>	<b>2.8000e-004</b>	<b>2.6400e-003</b>	<b>2.8800e-003</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.6000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.3357</b>	<b>0.3357</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.3384</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.10 Lake A - Pipeline to Lakes B and C (6) - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	5.1000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1297	0.1297	1.0000e-005	0.0000	0.1299
Worker	1.2000e-004	8.0000e-005	8.7000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2615	0.2615	1.0000e-005	0.0000	0.2616
<b>Total</b>	<b>1.3000e-004</b>	<b>5.9000e-004</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>3.5000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.3912</b>	<b>0.3912</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3915</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.8000e-004	2.6400e-003	2.8800e-003	0.0000		1.7000e-004	1.7000e-004		1.6000e-004	1.6000e-004	0.0000	0.3357	0.3357	1.1000e-004	0.0000	0.3384
<b>Total</b>	<b>2.8000e-004</b>	<b>2.6400e-003</b>	<b>2.8800e-003</b>	<b>0.0000</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>		<b>1.6000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.3357</b>	<b>0.3357</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.3384</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.10 Lake A - Pipeline to Lakes B and C (6) - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	5.1000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1297	0.1297	1.0000e-005	0.0000	0.1299
Worker	1.2000e-004	8.0000e-005	8.7000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2615	0.2615	1.0000e-005	0.0000	0.2616
<b>Total</b>	<b>1.3000e-004</b>	<b>5.9000e-004</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>3.5000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.3912</b>	<b>0.3912</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3915</b>

**3.11 Lake A - Pipeline to Lakes B and C (7) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.3000e-004	5.3500e-003	5.1200e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.7000e-004	1.7000e-004	0.0000	1.8976	1.8976	6.1000e-004	0.0000	1.9130
<b>Total</b>	<b>6.3000e-004</b>	<b>5.3500e-003</b>	<b>5.1200e-003</b>	<b>2.0000e-005</b>		<b>1.9000e-004</b>	<b>1.9000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.8976</b>	<b>1.8976</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>1.9130</b>



Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.11 Lake A - Pipeline to Lakes B and C (7) - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.0000e-004	4.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0519	0.0519	0.0000	0.0000	0.0520
Worker	4.0000e-005	2.0000e-005	2.6000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0785	0.0785	0.0000	0.0000	0.0785
<b>Total</b>	<b>5.0000e-005</b>	<b>2.2000e-004</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1303</b>	<b>0.1303</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1304</b>

**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	6.3000e-004	5.3500e-003	5.1200e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.7000e-004	1.7000e-004	0.0000	1.8976	1.8976	6.1000e-004	0.0000	1.9130
<b>Total</b>	<b>6.3000e-004</b>	<b>5.3500e-003</b>	<b>5.1200e-003</b>	<b>2.0000e-005</b>		<b>1.9000e-004</b>	<b>1.9000e-004</b>		<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.8976</b>	<b>1.8976</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>1.9130</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.11 Lake A - Pipeline to Lakes B and C (7) - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.0000e-004	4.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0519	0.0519	0.0000	0.0000	0.0520
Worker	4.0000e-005	2.0000e-005	2.6000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0785	0.0785	0.0000	0.0000	0.0785
<b>Total</b>	<b>5.0000e-005</b>	<b>2.2000e-004</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1303</b>	<b>0.1303</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1304</b>

**3.12 Lake A - Pipeline to Lakes B and C (8) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.4000e-004	0.0000	5.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7400e-003	0.0140	0.0127	5.0000e-005		5.0000e-004	5.0000e-004		4.6000e-004	4.6000e-004	0.0000	4.5869	4.5869	1.4800e-003	0.0000	4.6240
<b>Total</b>	<b>1.7400e-003</b>	<b>0.0140</b>	<b>0.0127</b>	<b>5.0000e-005</b>	<b>5.4000e-004</b>	<b>5.0000e-004</b>	<b>1.0400e-003</b>	<b>6.0000e-005</b>	<b>4.6000e-004</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>4.5869</b>	<b>4.5869</b>	<b>1.4800e-003</b>	<b>0.0000</b>	<b>4.6240</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.12 Lake A - Pipeline to Lakes B and C (8) - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4000e-004	4.4700e-003	8.8000e-004	1.0000e-005	0.0441	1.0000e-005	0.0441	4.4500e-003	1.0000e-005	4.4600e-003	0.0000	1.3429	1.3429	7.0000e-005	0.0000	1.3446
Vendor	1.0000e-005	3.0000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0778	0.0778	0.0000	0.0000	0.0779
Worker	7.0000e-005	5.0000e-005	5.2000e-004	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1569	0.1569	0.0000	0.0000	0.1570
<b>Total</b>	<b>2.2000e-004</b>	<b>4.8200e-003</b>	<b>1.4600e-003</b>	<b>1.0000e-005</b>	<b>0.0443</b>	<b>1.0000e-005</b>	<b>0.0443</b>	<b>4.5100e-003</b>	<b>1.0000e-005</b>	<b>4.5200e-003</b>	<b>0.0000</b>	<b>1.5776</b>	<b>1.5776</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.5795</b>

**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					2.4000e-004	0.0000	2.4000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7400e-003	0.0140	0.0127	5.0000e-005		5.0000e-004	5.0000e-004		4.6000e-004	4.6000e-004	0.0000	4.5869	4.5869	1.4800e-003	0.0000	4.6240
<b>Total</b>	<b>1.7400e-003</b>	<b>0.0140</b>	<b>0.0127</b>	<b>5.0000e-005</b>	<b>2.4000e-004</b>	<b>5.0000e-004</b>	<b>7.4000e-004</b>	<b>3.0000e-005</b>	<b>4.6000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>4.5869</b>	<b>4.5869</b>	<b>1.4800e-003</b>	<b>0.0000</b>	<b>4.6240</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.12 Lake A - Pipeline to Lakes B and C (8) - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4000e-004	4.4700e-003	8.8000e-004	1.0000e-005	0.0271	1.0000e-005	0.0271	2.7500e-003	1.0000e-005	2.7600e-003	0.0000	1.3429	1.3429	7.0000e-005	0.0000	1.3446
Vendor	1.0000e-005	3.0000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0778	0.0778	0.0000	0.0000	0.0779
Worker	7.0000e-005	5.0000e-005	5.2000e-004	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1569	0.1569	0.0000	0.0000	0.1570
<b>Total</b>	<b>2.2000e-004</b>	<b>4.8200e-003</b>	<b>1.4600e-003</b>	<b>1.0000e-005</b>	<b>0.0273</b>	<b>1.0000e-005</b>	<b>0.0273</b>	<b>2.8100e-003</b>	<b>1.0000e-005</b>	<b>2.8200e-003</b>	<b>0.0000</b>	<b>1.5776</b>	<b>1.5776</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.5795</b>

**3.13 Lake A - Pipeline to Lakes B and C (9) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0700e-003	0.0000	1.0700e-003	1.2000e-004	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7800e-003	0.0468	0.0424	1.7000e-004		1.6700e-003	1.6700e-003		1.5400e-003	1.5400e-003	0.0000	15.2896	15.2896	4.9400e-003	0.0000	15.4132
<b>Total</b>	<b>5.7800e-003</b>	<b>0.0468</b>	<b>0.0424</b>	<b>1.7000e-004</b>	<b>1.0700e-003</b>	<b>1.6700e-003</b>	<b>2.7400e-003</b>	<b>1.2000e-004</b>	<b>1.5400e-003</b>	<b>1.6600e-003</b>	<b>0.0000</b>	<b>15.2896</b>	<b>15.2896</b>	<b>4.9400e-003</b>	<b>0.0000</b>	<b>15.4132</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.13 Lake A - Pipeline to Lakes B and C (9) - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4000e-004	4.4700e-003	8.8000e-004	1.0000e-005	0.0441	1.0000e-005	0.0441	4.4500e-003	1.0000e-005	4.4600e-003	0.0000	1.3429	1.3429	7.0000e-005	0.0000	1.3446
Vendor	3.0000e-005	1.0200e-003	2.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2594	0.2594	1.0000e-005	0.0000	0.2598
Worker	2.4000e-004	1.6000e-004	1.7500e-003	1.0000e-005	6.3000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5230	0.5230	1.0000e-005	0.0000	0.5233
<b>Total</b>	<b>4.1000e-004</b>	<b>5.6500e-003</b>	<b>2.8400e-003</b>	<b>2.0000e-005</b>	<b>0.0448</b>	<b>1.0000e-005</b>	<b>0.0448</b>	<b>4.6400e-003</b>	<b>1.0000e-005</b>	<b>4.6500e-003</b>	<b>0.0000</b>	<b>2.1253</b>	<b>2.1253</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.1276</b>

**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					4.8000e-004	0.0000	4.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7800e-003	0.0468	0.0424	1.7000e-004		1.6700e-003	1.6700e-003		1.5400e-003	1.5400e-003	0.0000	15.2896	15.2896	4.9400e-003	0.0000	15.4132
<b>Total</b>	<b>5.7800e-003</b>	<b>0.0468</b>	<b>0.0424</b>	<b>1.7000e-004</b>	<b>4.8000e-004</b>	<b>1.6700e-003</b>	<b>2.1500e-003</b>	<b>5.0000e-005</b>	<b>1.5400e-003</b>	<b>1.5900e-003</b>	<b>0.0000</b>	<b>15.2896</b>	<b>15.2896</b>	<b>4.9400e-003</b>	<b>0.0000</b>	<b>15.4132</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.13 Lake A - Pipeline to Lakes B and C (9) - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4000e-004	4.4700e-003	8.8000e-004	1.0000e-005	0.0271	1.0000e-005	0.0271	2.7500e-003	1.0000e-005	2.7600e-003	0.0000	1.3429	1.3429	7.0000e-005	0.0000	1.3446
Vendor	3.0000e-005	1.0200e-003	2.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2594	0.2594	1.0000e-005	0.0000	0.2598
Worker	2.4000e-004	1.6000e-004	1.7500e-003	1.0000e-005	6.3000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5230	0.5230	1.0000e-005	0.0000	0.5233
<b>Total</b>	<b>4.1000e-004</b>	<b>5.6500e-003</b>	<b>2.8400e-003</b>	<b>2.0000e-005</b>	<b>0.0278</b>	<b>1.0000e-005</b>	<b>0.0278</b>	<b>2.9400e-003</b>	<b>1.0000e-005</b>	<b>2.9500e-003</b>	<b>0.0000</b>	<b>2.1253</b>	<b>2.1253</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>2.1276</b>

**3.14 Lake A - Pipeline to Lakes B and C (10) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3000e-004	0.0000	5.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3400e-003	0.0308	0.0263	9.0000e-005		1.1500e-003	1.1500e-003		1.0600e-003	1.0600e-003	0.0000	7.9435	7.9435	2.5700e-003	0.0000	8.0078
<b>Total</b>	<b>3.3400e-003</b>	<b>0.0308</b>	<b>0.0263</b>	<b>9.0000e-005</b>	<b>5.3000e-004</b>	<b>1.1500e-003</b>	<b>1.6800e-003</b>	<b>6.0000e-005</b>	<b>1.0600e-003</b>	<b>1.1200e-003</b>	<b>0.0000</b>	<b>7.9435</b>	<b>7.9435</b>	<b>2.5700e-003</b>	<b>0.0000</b>	<b>8.0078</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.14 Lake A - Pipeline to Lakes B and C (10) - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	6.0000e-005	6.1000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1831	0.1831	0.0000	0.0000	0.1832
<b>Total</b>	<b>8.0000e-005</b>	<b>6.0000e-005</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.1831</b>	<b>0.1831</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1832</b>

**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					2.4000e-004	0.0000	2.4000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3400e-003	0.0308	0.0263	9.0000e-005		1.1500e-003	1.1500e-003		1.0600e-003	1.0600e-003	0.0000	7.9435	7.9435	2.5700e-003	0.0000	8.0078
<b>Total</b>	<b>3.3400e-003</b>	<b>0.0308</b>	<b>0.0263</b>	<b>9.0000e-005</b>	<b>2.4000e-004</b>	<b>1.1500e-003</b>	<b>1.3900e-003</b>	<b>3.0000e-005</b>	<b>1.0600e-003</b>	<b>1.0900e-003</b>	<b>0.0000</b>	<b>7.9435</b>	<b>7.9435</b>	<b>2.5700e-003</b>	<b>0.0000</b>	<b>8.0078</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.14 Lake A - Pipeline to Lakes B and C (10) - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	6.0000e-005	6.1000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1831	0.1831	0.0000	0.0000	0.1832
<b>Total</b>	<b>8.0000e-005</b>	<b>6.0000e-005</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.1831</b>	<b>0.1831</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1832</b>

**3.15 Lake A - Diversion Structure (1) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-004	4.6200e-003	5.0900e-003	2.0000e-005		1.7000e-004	1.7000e-004		1.5000e-004	1.5000e-004	0.0000	1.8984	1.8984	6.1000e-004	0.0000	1.9138
<b>Total</b>	<b>6.0000e-004</b>	<b>4.6200e-003</b>	<b>5.0900e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.8984</b>	<b>1.8984</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>1.9138</b>



Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.15 Lake A - Diversion Structure (1) - 2023**

**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	1.6000e-004	4.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0504	0.0504	0.0000	0.0000	0.0505
Worker	3.0000e-005	2.0000e-005	2.0000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0629	0.0629	0.0000	0.0000	0.0629
<b>Total</b>	<b>3.0000e-005</b>	<b>1.8000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.1133</b>	<b>0.1133</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1134</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-004	4.6200e-003	5.0900e-003	2.0000e-005		1.7000e-004	1.7000e-004		1.5000e-004	1.5000e-004	0.0000	1.8984	1.8984	6.1000e-004	0.0000	1.9138
<b>Total</b>	<b>6.0000e-004</b>	<b>4.6200e-003</b>	<b>5.0900e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.8984</b>	<b>1.8984</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>1.9138</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.15 Lake A - Diversion Structure (1) - 2023**

**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	1.6000e-004	4.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0504	0.0504	0.0000	0.0000	0.0505
Worker	3.0000e-005	2.0000e-005	2.0000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0629	0.0629	0.0000	0.0000	0.0629
<b>Total</b>	<b>3.0000e-005</b>	<b>1.8000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.1133</b>	<b>0.1133</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1134</b>

**3.16 Lake A - Diversion Structure (2) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3000e-004	0.0000	5.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6500e-003	0.0123	0.0126	5.0000e-005		4.4000e-004	4.4000e-004		4.1000e-004	4.1000e-004	0.0000	4.5893	4.5893	1.4800e-003	0.0000	4.6264
<b>Total</b>	<b>1.6500e-003</b>	<b>0.0123</b>	<b>0.0126</b>	<b>5.0000e-005</b>	<b>5.3000e-004</b>	<b>4.4000e-004</b>	<b>9.7000e-004</b>	<b>6.0000e-005</b>	<b>4.1000e-004</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.5893</b>	<b>4.5893</b>	<b>1.4800e-003</b>	<b>0.0000</b>	<b>4.6264</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.16 Lake A - Diversion Structure (2) - 2023**

**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	5.0000e-005	3.0000e-005	3.6000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1132	0.1132	0.0000	0.0000	0.1132
<b>Total</b>	<b>5.0000e-005</b>	<b>3.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1132</b>	<b>0.1132</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1132</b>

**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					2.4000e-004	0.0000	2.4000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6500e-003	0.0123	0.0126	5.0000e-005		4.4000e-004	4.4000e-004		4.1000e-004	4.1000e-004	0.0000	4.5893	4.5893	1.4800e-003	0.0000	4.6264
<b>Total</b>	<b>1.6500e-003</b>	<b>0.0123</b>	<b>0.0126</b>	<b>5.0000e-005</b>	<b>2.4000e-004</b>	<b>4.4000e-004</b>	<b>6.8000e-004</b>	<b>3.0000e-005</b>	<b>4.1000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>4.5893</b>	<b>4.5893</b>	<b>1.4800e-003</b>	<b>0.0000</b>	<b>4.6264</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.16 Lake A - Diversion Structure (2) - 2023**

**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	5.0000e-005	3.0000e-005	3.6000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1132	0.1132	0.0000	0.0000	0.1132
<b>Total</b>	<b>5.0000e-005</b>	<b>3.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1132</b>	<b>0.1132</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1132</b>

**3.17 Lake A - Diversion Structure (3) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.6000e-004	0.0000	6.6000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1000e-003	0.0305	0.0309	1.3000e-004		1.1000e-003	1.1000e-003		1.0100e-003	1.0100e-003	0.0000	11.1753	11.1753	3.6100e-003	0.0000	11.2656
<b>Total</b>	<b>4.1000e-003</b>	<b>0.0305</b>	<b>0.0309</b>	<b>1.3000e-004</b>	<b>6.6000e-004</b>	<b>1.1000e-003</b>	<b>1.7600e-003</b>	<b>8.0000e-005</b>	<b>1.0100e-003</b>	<b>1.0900e-003</b>	<b>0.0000</b>	<b>11.1753</b>	<b>11.1753</b>	<b>3.6100e-003</b>	<b>0.0000</b>	<b>11.2656</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.17 Lake A - Diversion Structure (3) - 2023**

**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	7.8000e-004	0.0256	6.6000e-003	1.1000e-004	0.3775	4.0000e-005	0.3775	0.0381	4.0000e-005	0.0381	0.0000	11.0479	11.0479	4.7000e-004	0.0000	11.0596
Vendor	2.0000e-005	6.3000e-004	1.5000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2016	0.2016	1.0000e-005	0.0000	0.2018
Worker	1.8000e-004	1.2000e-004	1.2800e-003	0.0000	5.1000e-004	0.0000	5.1000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.4024	0.4024	1.0000e-005	0.0000	0.4026
<b>Total</b>	<b>9.8000e-004</b>	<b>0.0264</b>	<b>8.0300e-003</b>	<b>1.1000e-004</b>	<b>0.3780</b>	<b>4.0000e-005</b>	<b>0.3781</b>	<b>0.0382</b>	<b>4.0000e-005</b>	<b>0.0383</b>	<b>0.0000</b>	<b>11.6519</b>	<b>11.6519</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>11.6641</b>

**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					3.0000e-004	0.0000	3.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1000e-003	0.0305	0.0309	1.3000e-004		1.1000e-003	1.1000e-003		1.0100e-003	1.0100e-003	0.0000	11.1752	11.1752	3.6100e-003	0.0000	11.2656
<b>Total</b>	<b>4.1000e-003</b>	<b>0.0305</b>	<b>0.0309</b>	<b>1.3000e-004</b>	<b>3.0000e-004</b>	<b>1.1000e-003</b>	<b>1.4000e-003</b>	<b>3.0000e-005</b>	<b>1.0100e-003</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>11.1752</b>	<b>11.1752</b>	<b>3.6100e-003</b>	<b>0.0000</b>	<b>11.2656</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.17 Lake A - Diversion Structure (3) - 2023**

**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	7.8000e-004	0.0256	6.6000e-003	1.1000e-004	0.2320	4.0000e-005	0.2321	0.0236	4.0000e-005	0.0236	0.0000	11.0479	11.0479	4.7000e-004	0.0000	11.0596
Vendor	2.0000e-005	6.3000e-004	1.5000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2016	0.2016	1.0000e-005	0.0000	0.2018
Worker	1.8000e-004	1.2000e-004	1.2800e-003	0.0000	5.1000e-004	0.0000	5.1000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.4024	0.4024	1.0000e-005	0.0000	0.4026
<b>Total</b>	<b>9.8000e-004</b>	<b>0.0264</b>	<b>8.0300e-003</b>	<b>1.1000e-004</b>	<b>0.2326</b>	<b>4.0000e-005</b>	<b>0.2326</b>	<b>0.0237</b>	<b>4.0000e-005</b>	<b>0.0238</b>	<b>0.0000</b>	<b>11.6519</b>	<b>11.6519</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>11.6641</b>

**3.18 Lake A - Diversion Structure (4) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3000e-004	0.0000	5.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3500e-003	0.0100	0.0105	4.0000e-005		3.6000e-004	3.6000e-004		3.3000e-004	3.3000e-004	0.0000	3.9252	3.9252	1.2700e-003	0.0000	3.9569
<b>Total</b>	<b>1.3500e-003</b>	<b>0.0100</b>	<b>0.0105</b>	<b>4.0000e-005</b>	<b>5.3000e-004</b>	<b>3.6000e-004</b>	<b>8.9000e-004</b>	<b>6.0000e-005</b>	<b>3.3000e-004</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>3.9252</b>	<b>3.9252</b>	<b>1.2700e-003</b>	<b>0.0000</b>	<b>3.9569</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.18 Lake A - Diversion Structure (4) - 2023**

**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	1.6000e-004	4.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0504	0.0504	0.0000	0.0000	0.0505
Worker	5.0000e-005	3.0000e-005	3.6000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1132	0.1132	0.0000	0.0000	0.1132
<b>Total</b>	<b>5.0000e-005</b>	<b>1.9000e-004</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1636</b>	<b>0.1636</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1637</b>

**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					2.4000e-004	0.0000	2.4000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3500e-003	0.0100	0.0105	4.0000e-005		3.6000e-004	3.6000e-004		3.3000e-004	3.3000e-004	0.0000	3.9252	3.9252	1.2700e-003	0.0000	3.9569
<b>Total</b>	<b>1.3500e-003</b>	<b>0.0100</b>	<b>0.0105</b>	<b>4.0000e-005</b>	<b>2.4000e-004</b>	<b>3.6000e-004</b>	<b>6.0000e-004</b>	<b>3.0000e-005</b>	<b>3.3000e-004</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.9252</b>	<b>3.9252</b>	<b>1.2700e-003</b>	<b>0.0000</b>	<b>3.9569</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.18 Lake A - Diversion Structure (4) - 2023**

**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	1.6000e-004	4.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0504	0.0504	0.0000	0.0000	0.0505
Worker	5.0000e-005	3.0000e-005	3.6000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1132	0.1132	0.0000	0.0000	0.1132
<b>Total</b>	<b>5.0000e-005</b>	<b>1.9000e-004</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1636</b>	<b>0.1636</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1637</b>

**3.19 Lake A - Diversion Structure (5) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3000e-004	0.0000	5.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5000e-004	4.0900e-003	4.1900e-003	2.0000e-005		1.5000e-004	1.5000e-004		1.4000e-004	1.4000e-004	0.0000	1.5298	1.5298	4.9000e-004	0.0000	1.5421
<b>Total</b>	<b>5.5000e-004</b>	<b>4.0900e-003</b>	<b>4.1900e-003</b>	<b>2.0000e-005</b>	<b>5.3000e-004</b>	<b>1.5000e-004</b>	<b>6.8000e-004</b>	<b>6.0000e-005</b>	<b>1.4000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>1.5298</b>	<b>1.5298</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.5421</b>



Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.19 Lake A - Diversion Structure (5) - 2023**

**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	2.0000e-005	1.0000e-005	1.2000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0377	0.0377	0.0000	0.0000	0.0377
<b>Total</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0377</b>	<b>0.0377</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0377</b>

**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					2.4000e-004	0.0000	2.4000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5000e-004	4.0900e-003	4.1900e-003	2.0000e-005		1.5000e-004	1.5000e-004		1.4000e-004	1.4000e-004	0.0000	1.5298	1.5298	4.9000e-004	0.0000	1.5421
<b>Total</b>	<b>5.5000e-004</b>	<b>4.0900e-003</b>	<b>4.1900e-003</b>	<b>2.0000e-005</b>	<b>2.4000e-004</b>	<b>1.5000e-004</b>	<b>3.9000e-004</b>	<b>3.0000e-005</b>	<b>1.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.5298</b>	<b>1.5298</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.5421</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.19 Lake A - Diversion Structure (5) - 2023**

**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	2.0000e-005	1.0000e-005	1.2000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0377	0.0377	0.0000	0.0000	0.0377
<b>Total</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0377</b>	<b>0.0377</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0377</b>

**3.20 Lake A - Diversion Structure (6) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.1000e-004	4.8000e-003	5.7200e-003	1.0000e-005		3.0000e-004	3.0000e-004		2.7000e-004	2.7000e-004	0.0000	0.6715	0.6715	2.2000e-004	0.0000	0.6769
<b>Total</b>	<b>5.1000e-004</b>	<b>4.8000e-003</b>	<b>5.7200e-003</b>	<b>1.0000e-005</b>		<b>3.0000e-004</b>	<b>3.0000e-004</b>		<b>2.7000e-004</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6715</b>	<b>0.6715</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.6769</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.20 Lake A - Diversion Structure (6) - 2023**

**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	1.7000e-004	1.1000e-004	1.2000e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3773	0.3773	1.0000e-005	0.0000	0.3774
<b>Total</b>	<b>1.7000e-004</b>	<b>1.1000e-004</b>	<b>1.2000e-003</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.8000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3773</b>	<b>0.3773</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3774</b>

**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	5.1000e-004	4.8000e-003	5.7200e-003	1.0000e-005		3.0000e-004	3.0000e-004		2.7000e-004	2.7000e-004	0.0000	0.6715	0.6715	2.2000e-004	0.0000	0.6769
<b>Total</b>	<b>5.1000e-004</b>	<b>4.8000e-003</b>	<b>5.7200e-003</b>	<b>1.0000e-005</b>		<b>3.0000e-004</b>	<b>3.0000e-004</b>		<b>2.7000e-004</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.6715</b>	<b>0.6715</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.6769</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.20 Lake A - Diversion Structure (6) - 2023**

**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	1.7000e-004	1.1000e-004	1.2000e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3773	0.3773	1.0000e-005	0.0000	0.3774
<b>Total</b>	<b>1.7000e-004</b>	<b>1.1000e-004</b>	<b>1.2000e-003</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.8000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3773</b>	<b>0.3773</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3774</b>

**3.21 Lake A - Diversion Structure (7) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3000e-004	0.0000	5.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.4000e-004	7.3700e-003	8.6500e-003	3.0000e-005		2.9000e-004	2.9000e-004		2.6000e-004	2.6000e-004	0.0000	2.3787	2.3787	7.7000e-004	0.0000	2.3979
<b>Total</b>	<b>9.4000e-004</b>	<b>7.3700e-003</b>	<b>8.6500e-003</b>	<b>3.0000e-005</b>	<b>5.3000e-004</b>	<b>2.9000e-004</b>	<b>8.2000e-004</b>	<b>6.0000e-005</b>	<b>2.6000e-004</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>2.3787</b>	<b>2.3787</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>2.3979</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.21 Lake A - Diversion Structure (7) - 2023**

**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	3.0000e-005	2.0000e-005	2.4000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0755	0.0755	0.0000	0.0000	0.0755
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0755</b>	<b>0.0755</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0755</b>

**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					2.4000e-004	0.0000	2.4000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.4000e-004	7.3700e-003	8.6500e-003	3.0000e-005		2.9000e-004	2.9000e-004		2.6000e-004	2.6000e-004	0.0000	2.3787	2.3787	7.7000e-004	0.0000	2.3979
<b>Total</b>	<b>9.4000e-004</b>	<b>7.3700e-003</b>	<b>8.6500e-003</b>	<b>3.0000e-005</b>	<b>2.4000e-004</b>	<b>2.9000e-004</b>	<b>5.3000e-004</b>	<b>3.0000e-005</b>	<b>2.6000e-004</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>2.3787</b>	<b>2.3787</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>2.3979</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.21 Lake A - Diversion Structure (7) - 2023**

**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	3.0000e-005	2.0000e-005	2.4000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0755	0.0755	0.0000	0.0000	0.0755
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0755</b>	<b>0.0755</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0755</b>

**3.22 Lake A - Diversion Structure (8) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3000e-004	0.0000	5.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5000e-004	4.0900e-003	4.1900e-003	2.0000e-005		1.5000e-004	1.5000e-004		1.4000e-004	1.4000e-004	0.0000	1.5298	1.5298	4.9000e-004	0.0000	1.5421
<b>Total</b>	<b>5.5000e-004</b>	<b>4.0900e-003</b>	<b>4.1900e-003</b>	<b>2.0000e-005</b>	<b>5.3000e-004</b>	<b>1.5000e-004</b>	<b>6.8000e-004</b>	<b>6.0000e-005</b>	<b>1.4000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>1.5298</b>	<b>1.5298</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.5421</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.22 Lake A - Diversion Structure (8) - 2023**

**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	2.0000e-005	1.0000e-005	1.2000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0377	0.0377	0.0000	0.0000	0.0377
<b>Total</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0377</b>	<b>0.0377</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0377</b>

**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					2.4000e-004	0.0000	2.4000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5000e-004	4.0900e-003	4.1900e-003	2.0000e-005		1.5000e-004	1.5000e-004		1.4000e-004	1.4000e-004	0.0000	1.5298	1.5298	4.9000e-004	0.0000	1.5421
<b>Total</b>	<b>5.5000e-004</b>	<b>4.0900e-003</b>	<b>4.1900e-003</b>	<b>2.0000e-005</b>	<b>2.4000e-004</b>	<b>1.5000e-004</b>	<b>3.9000e-004</b>	<b>3.0000e-005</b>	<b>1.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.5298</b>	<b>1.5298</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.5421</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.22 Lake A - Diversion Structure (8) - 2023**

**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	2.0000e-005	1.0000e-005	1.2000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0377	0.0377	0.0000	0.0000	0.0377
<b>Total</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0377</b>	<b>0.0377</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0377</b>

**3.23 Lake A - Diversion Structure (9) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.4000e-004	0.0000	5.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5000e-004	4.0900e-003	4.1900e-003	2.0000e-005		1.5000e-004	1.5000e-004		1.4000e-004	1.4000e-004	0.0000	1.5298	1.5298	4.9000e-004	0.0000	1.5421
<b>Total</b>	<b>5.5000e-004</b>	<b>4.0900e-003</b>	<b>4.1900e-003</b>	<b>2.0000e-005</b>	<b>5.4000e-004</b>	<b>1.5000e-004</b>	<b>6.9000e-004</b>	<b>6.0000e-005</b>	<b>1.4000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>1.5298</b>	<b>1.5298</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.5421</b>



Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.23 Lake A - Diversion Structure (9) - 2023**

**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	9.0000e-005	3.0000e-003	7.7000e-004	1.0000e-005	0.0441	1.0000e-005	0.0441	4.4500e-003	0.0000	4.4600e-003	0.0000	1.2913	1.2913	6.0000e-005	0.0000	1.2927
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	2.0000e-005	1.0000e-005	1.2000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0377	0.0377	0.0000	0.0000	0.0377
<b>Total</b>	<b>1.1000e-004</b>	<b>3.0100e-003</b>	<b>8.9000e-004</b>	<b>1.0000e-005</b>	<b>0.0442</b>	<b>1.0000e-005</b>	<b>0.0442</b>	<b>4.4600e-003</b>	<b>0.0000</b>	<b>4.4700e-003</b>	<b>0.0000</b>	<b>1.3290</b>	<b>1.3290</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.3304</b>

**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					2.4000e-004	0.0000	2.4000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5000e-004	4.0900e-003	4.1900e-003	2.0000e-005		1.5000e-004	1.5000e-004		1.4000e-004	1.4000e-004	0.0000	1.5298	1.5298	4.9000e-004	0.0000	1.5421
<b>Total</b>	<b>5.5000e-004</b>	<b>4.0900e-003</b>	<b>4.1900e-003</b>	<b>2.0000e-005</b>	<b>2.4000e-004</b>	<b>1.5000e-004</b>	<b>3.9000e-004</b>	<b>3.0000e-005</b>	<b>1.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.5298</b>	<b>1.5298</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.5421</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.23 Lake A - Diversion Structure (9) - 2023**

**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	9.0000e-005	3.0000e-003	7.7000e-004	1.0000e-005	0.0271	1.0000e-005	0.0271	2.7500e-003	0.0000	2.7600e-003	0.0000	1.2913	1.2913	6.0000e-005	0.0000	1.2927
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	2.0000e-005	1.0000e-005	1.2000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0377	0.0377	0.0000	0.0000	0.0377
<b>Total</b>	<b>1.1000e-004</b>	<b>3.0100e-003</b>	<b>8.9000e-004</b>	<b>1.0000e-005</b>	<b>0.0272</b>	<b>1.0000e-005</b>	<b>0.0272</b>	<b>2.7600e-003</b>	<b>0.0000</b>	<b>2.7700e-003</b>	<b>0.0000</b>	<b>1.3290</b>	<b>1.3290</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.3304</b>

**3.24 Lake A - Diversion Structure (10) - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0000e-004	2.3100e-003	2.5500e-003	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.9492	0.9492	3.1000e-004	0.0000	0.9569
<b>Total</b>	<b>3.0000e-004</b>	<b>2.3100e-003</b>	<b>2.5500e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.9492</b>	<b>0.9492</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>0.9569</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.24 Lake A - Diversion Structure (10) - 2023**

**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	8.0000e-005	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0252	0.0252	0.0000	0.0000	0.0252
Worker	1.0000e-005	1.0000e-005	1.0000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0314	0.0314	0.0000	0.0000	0.0315
<b>Total</b>	<b>1.0000e-005</b>	<b>9.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0566</b>	<b>0.0566</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0567</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0000e-004	2.3100e-003	2.5500e-003	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.9492	0.9492	3.1000e-004	0.0000	0.9569
<b>Total</b>	<b>3.0000e-004</b>	<b>2.3100e-003</b>	<b>2.5500e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.9492</b>	<b>0.9492</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>0.9569</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.24 Lake A - Diversion Structure (10) - 2023**

**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	8.0000e-005	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0252	0.0252	0.0000	0.0000	0.0252
Worker	1.0000e-005	1.0000e-005	1.0000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0314	0.0314	0.0000	0.0000	0.0315
<b>Total</b>	<b>1.0000e-005</b>	<b>9.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0566</b>	<b>0.0566</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0567</b>

**3.25 Lake A - Fill Percolation Ponds - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0182	0.0000	0.0182	8.6200e-003	0.0000	8.6200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2900e-003	0.0440	0.0308	7.0000e-005		1.7700e-003	1.7700e-003		1.6300e-003	1.6300e-003	0.0000	6.0920	6.0920	1.9700e-003	0.0000	6.1412
<b>Total</b>	<b>4.2900e-003</b>	<b>0.0440</b>	<b>0.0308</b>	<b>7.0000e-005</b>	<b>0.0182</b>	<b>1.7700e-003</b>	<b>0.0200</b>	<b>8.6200e-003</b>	<b>1.6300e-003</b>	<b>0.0103</b>	<b>0.0000</b>	<b>6.0920</b>	<b>6.0920</b>	<b>1.9700e-003</b>	<b>0.0000</b>	<b>6.1412</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.25 Lake A - Fill Percolation Ponds - 2023**

**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	7.0000e-005	5.0000e-005	5.0000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1572	0.1572	0.0000	0.0000	0.1573
<b>Total</b>	<b>7.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.1572</b>	<b>0.1572</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1573</b>

**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					8.2100e-003	0.0000	8.2100e-003	3.8800e-003	0.0000	3.8800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2900e-003	0.0440	0.0308	7.0000e-005		1.7700e-003	1.7700e-003		1.6300e-003	1.6300e-003	0.0000	6.0920	6.0920	1.9700e-003	0.0000	6.1412
<b>Total</b>	<b>4.2900e-003</b>	<b>0.0440</b>	<b>0.0308</b>	<b>7.0000e-005</b>	<b>8.2100e-003</b>	<b>1.7700e-003</b>	<b>9.9800e-003</b>	<b>3.8800e-003</b>	<b>1.6300e-003</b>	<b>5.5100e-003</b>	<b>0.0000</b>	<b>6.0920</b>	<b>6.0920</b>	<b>1.9700e-003</b>	<b>0.0000</b>	<b>6.1412</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.25 Lake A - Fill Percolation Ponds - 2023**

**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	7.0000e-005	5.0000e-005	5.0000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1572	0.1572	0.0000	0.0000	0.1573
<b>Total</b>	<b>7.0000e-005</b>	<b>5.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.1572</b>	<b>0.1572</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1573</b>

**3.26 Lake A - Revegetation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0400e-003	0.0357	0.0329	1.3000e-004		1.2900e-003	1.2900e-003		1.1900e-003	1.1900e-003	0.0000	11.6110	11.6110	3.7600e-003	0.0000	11.7048
<b>Total</b>	<b>5.0400e-003</b>	<b>0.0357</b>	<b>0.0329</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.2900e-003</b>	<b>1.2900e-003</b>	<b>0.0000</b>	<b>1.1900e-003</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>11.6110</b>	<b>11.6110</b>	<b>3.7600e-003</b>	<b>0.0000</b>	<b>11.7048</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.26 Lake A - Revegetation - 2023**

**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	2.8000e-004	1.8000e-004	2.0000e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6287	0.6287	1.0000e-005	0.0000	0.6291
<b>Total</b>	<b>2.8000e-004</b>	<b>1.8000e-004</b>	<b>2.0000e-003</b>	<b>1.0000e-005</b>	<b>7.9000e-004</b>	<b>1.0000e-005</b>	<b>8.0000e-004</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.6287</b>	<b>0.6287</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.6291</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0400e-003	0.0357	0.0329	1.3000e-004		1.2900e-003	1.2900e-003		1.1900e-003	1.1900e-003	0.0000	11.6109	11.6109	3.7600e-003	0.0000	11.7048
<b>Total</b>	<b>5.0400e-003</b>	<b>0.0357</b>	<b>0.0329</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.2900e-003</b>	<b>1.2900e-003</b>	<b>0.0000</b>	<b>1.1900e-003</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>11.6109</b>	<b>11.6109</b>	<b>3.7600e-003</b>	<b>0.0000</b>	<b>11.7048</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**3.26 Lake A - Revegetation - 2023**

**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	2.8000e-004	1.8000e-004	2.0000e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6287	0.6287	1.0000e-005	0.0000	0.6291
<b>Total</b>	<b>2.8000e-004</b>	<b>1.8000e-004</b>	<b>2.0000e-003</b>	<b>1.0000e-005</b>	<b>7.9000e-004</b>	<b>1.0000e-005</b>	<b>8.0000e-004</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.6287</b>	<b>0.6287</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.6291</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**



Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.563555	0.037576	0.190339	0.105468	0.014285	0.005132	0.025195	0.047484	0.002230	0.002277	0.005427	0.000351	0.000679

5.0 Energy Detail

Historical Energy Use: N



Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**5.2 Energy by Land Use - Natural Gas**

**Mitigated**

	Natural Gas 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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.4000e-004	1.0000e-005	1.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.8600e-003	2.8600e-003	1.0000e-005	0.0000	3.0400e-003
Unmitigated	1.4000e-004	1.0000e-005	1.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.8600e-003	2.8600e-003	1.0000e-005	0.0000	3.0400e-003

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**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	1.4000e-004	1.0000e-005	1.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.8600e-003	2.8600e-003	1.0000e-005	0.0000	3.0400e-003
<b>Total</b>	<b>1.4000e-004</b>	<b>1.0000e-005</b>	<b>1.4700e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.8600e-003</b>	<b>2.8600e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.0400e-003</b>

**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	1.4000e-004	1.0000e-005	1.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.8600e-003	2.8600e-003	1.0000e-005	0.0000	3.0400e-003
<b>Total</b>	<b>1.4000e-004</b>	<b>1.0000e-005</b>	<b>1.4700e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.8600e-003</b>	<b>2.8600e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.0400e-003</b>

**7.0 Water Detail**

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**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

Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Eliot Quarry - Lake A Reclamation Activities - Alameda County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**Eliot Quarry - Lake B Reclamation Activities**  
**Alameda County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	320.00	User Defined Unit	320.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	63
<b>Climate Zone</b>	4			<b>Operational Year</b>	2050
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

Project Characteristics - Lake B reclamation activity per Revised Reclamation Plan.

Land Use - Lake B area approximately 320 acres, bound by Vineyard Avenue to the south and Isabel Avenue to the east.

Construction Phase - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

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Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Grading - See CalEEMod modeling assumptions attachment.

Trips and VMT - See CalEEMod modeling assumptions attachment.

On-road Fugitive Dust - See CalEEMod modeling assumptions attachment.

Energy Use -

Construction Off-road Equipment Mitigation - Mitigation assumptions based on BAAQMD CEQA Guide BMPs for PM reduction.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

tblConstructionPhase	NumDays	620.00	5.00
tblConstructionPhase	NumDays	620.00	5.00
tblConstructionPhase	NumDays	620.00	3.00
tblConstructionPhase	NumDays	620.00	5.00
tblConstructionPhase	NumDays	620.00	5.00
tblConstructionPhase	NumDays	620.00	5.00
tblConstructionPhase	NumDays	620.00	80.00
tblConstructionPhase	NumDays	620.00	10.00
tblConstructionPhase	NumDays	620.00	13.00
tblConstructionPhase	NumDays	620.00	10.00
tblConstructionPhase	NumDays	620.00	20.00
tblConstructionPhase	NumDays	240.00	20.00
tblConstructionPhase	NumDays	240.00	10.00
tblConstructionPhase	NumDays	240.00	5.00
tblConstructionPhase	NumDays	240.00	20.00
tblConstructionPhase	NumDays	240.00	12.00
tblGrading	AcresOfGrading	0.00	5.00
tblGrading	AcresOfGrading	0.00	1.00
tblGrading	AcresOfGrading	0.00	1.00
tblGrading	AcresOfGrading	0.00	1.00
tblGrading	AcresOfGrading	0.00	1.00
tblGrading	AcresOfGrading	7.50	1.00
tblGrading	AcresOfGrading	360.00	110.00
tblGrading	AcresOfGrading	0.00	2.00
tblGrading	AcresOfGrading	19.50	30.00
tblGrading	AcresOfGrading	5.00	3.00
tblGrading	AcresOfGrading	50.00	5.00

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

tblGrading	MaterialImported	0.00	3,519.00
tblGrading	MaterialImported	0.00	900.00
tblLandUse	LotAcreage	0.00	320.00
tblOffRoadEquipment	HorsePower	367.00	407.00
tblOffRoadEquipment	HorsePower	367.00	570.00
tblOffRoadEquipment	HorsePower	367.00	407.00
tblOffRoadEquipment	HorsePower	97.00	276.00
tblOffRoadEquipment	HorsePower	97.00	276.00
tblOffRoadEquipment	HorsePower	97.00	276.00
tblOffRoadEquipment	HorsePower	97.00	276.00
tblOffRoadEquipment	HorsePower	97.00	276.00
tblOffRoadEquipment	HorsePower	97.00	276.00
tblOffRoadEquipment	HorsePower	97.00	276.00
tblOffRoadEquipment	HorsePower	158.00	396.00
tblOffRoadEquipment	HorsePower	80.00	248.00
tblOffRoadEquipment	HorsePower	247.00	303.00
tblOffRoadEquipment	HorsePower	80.00	405.00
tblOffRoadEquipment	HorsePower	80.00	405.00
tblOffRoadEquipment	HorsePower	158.00	396.00
tblOffRoadEquipment	HorsePower	158.00	303.00
tblOffRoadEquipment	HorsePower	402.00	511.00
tblOffRoadEquipment	HorsePower	158.00	396.00
tblOffRoadEquipment	HorsePower	158.00	396.00
tblOffRoadEquipment	HorsePower	158.00	396.00
tblOffRoadEquipment	HorsePower	158.00	396.00
tblOffRoadEquipment	HorsePower	158.00	303.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	187.00	238.00

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	247.00	600.00
tblOffRoadEquipment	HorsePower	247.00	600.00
tblOffRoadEquipment	HorsePower	247.00	303.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks



Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00





Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblTripsAndVMT	HaulingTripLength	20.00	4.00
tblTripsAndVMT	HaulingTripNumber	440.00	464.00
tblTripsAndVMT	HaulingTripNumber	113.00	144.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00
tblTripsAndVMT	WorkerTripNumber	13.00	18.00
tblTripsAndVMT	WorkerTripNumber	10.00	14.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

tblTripsAndVMT	WorkerTripNumber	15.00	14.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00
tblTripsAndVMT	WorkerTripNumber	10.00	14.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	13.00	12.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	10.0672	109.2964	66.5992	0.1888	9.2461	4.0390	11.7493	3.6971	3.7159	7.2446	0.0000	18,284.97 50	18,284.97 50	5.8482	0.0000	18,431.17 95
2028	3.4306	30.8467	29.8862	0.0768	56.2352	1.2348	56.6550	5.7051	1.1360	6.0915	0.0000	7,436.912 3	7,436.912 3	2.3613	0.0000	7,495.945 9
2030	1.9875	4.6531	11.4892	0.0513	0.3735	0.1538	0.5273	0.0660	0.1537	0.2198	0.0000	5,569.367 7	5,569.367 7	0.1763	0.0000	5,573.774 3
2049	3.8832	6.1871	21.2128	0.0964	85.5662	0.2271	85.6549	8.6400	0.2271	8.7284	0.0000	10,941.58 64	10,941.58 64	0.3422	0.0000	10,950.14 21
<b>Maximum</b>	<b>10.0672</b>	<b>109.2964</b>	<b>66.5992</b>	<b>0.1888</b>	<b>85.5662</b>	<b>4.0390</b>	<b>85.6549</b>	<b>8.6400</b>	<b>3.7159</b>	<b>8.7284</b>	<b>0.0000</b>	<b>18,284.97 50</b>	<b>18,284.97 50</b>	<b>5.8482</b>	<b>0.0000</b>	<b>18,431.17 95</b>



Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.9700e-003	2.9000e-004	0.0325	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0700	0.0700	1.8000e-004		0.0745
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
<b>Total</b>	<b>2.9700e-003</b>	<b>2.9000e-004</b>	<b>0.0325</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>0.0700</b>	<b>0.0700</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.0745</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.9700e-003	2.9000e-004	0.0325	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0700	0.0700	1.8000e-004		0.0745
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
<b>Total</b>	<b>2.9700e-003</b>	<b>2.9000e-004</b>	<b>0.0325</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>0.0700</b>	<b>0.0700</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.0745</b>

## Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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	Lake B - Realign ADV (1)	Site Preparation	4/4/2022	4/29/2022	5	20	Install pumps for low flow diversion
2	Lake B - Realign ADV (2)	Grading	5/2/2022	5/6/2022	5	5	Repair breach at quarry ponds
3	Lake B - Realign ADV (3)	Grading	5/9/2022	8/26/2022	5	80	Backfill and rough grade new ADV channel
4	Lake B - Realign ADV (4)	Grading	8/29/2022	9/9/2022	5	10	Cut low flow
5	Lake B - Realign ADV (5)	Grading	8/29/2022	9/14/2022	5	13	Fine grade
6	Lake B - ADV Berms	Grading	8/29/2022	9/9/2022	5	10	Install berms along ADV
7	Lake B - Realign ADV (6)	Site Preparation	9/15/2022	10/12/2022	5	20	Landscaping and revegetation
8	Lake B - Realign ADV (7)	Site Preparation	10/13/2022	10/28/2022	5	12	Remove pumps
9	Lake B - Pedestrian and Bike Trail (1)	Grading	5/1/2028	5/26/2028	5	20	Grading and drainage improvements
10	Lake B - Pedestrian and Bike Trail (2)	Grading	5/27/2028	6/2/2028	5	5	Paving and striping
11	Lake B - Pedestrian and Bike Trail (3)	Site Preparation	10/1/2028	10/13/2028	5	10	Landscaping and revegetation
12	Lake B - Lake B to C Conduit	Grading	6/1/2030	6/6/2030	5	5	Install pipe conduit to Lake C
13	Lake B - Overflow Outlet to ADV (1)	Grading	5/3/2049	5/5/2049	5	3	Finegrade and build access ramp
14	Lake B - Overflow Outlet to ADV (2)	Grading	5/6/2049	5/12/2049	5	5	Place rip rap
15	Lake B - Sharks Fin Drainage Notch	Grading	5/13/2049	5/19/2049	5	5	Cut drainage notch and haul dirt
16	Lake B - Revegetation	Site Preparation	10/4/2049	10/8/2049	5	5	Revegetation of slopes and perimeter

Acres of Grading (Site Preparation Phase): 0



Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Lake B - Pedestrian and Bike Trail (2)	Excavators	0	0.00	158	0.38
Lake B - Lake B to C Conduit	Excavators	1	8.00	396	0.38
Lake B - Overflow Outlet to ADV (1)	Excavators	1	8.00	396	0.38
Lake B - Overflow Outlet to ADV (2)	Excavators	1	8.00	396	0.38
Lake B - Sharks Fin Drainage Notch	Excavators	1	8.00	396	0.38
Lake B - Realign ADV (2)	Excavators	0	0.00	158	0.38
Lake B - Realign ADV (3)	Excavators	0	0.00	158	0.38
Lake B - Realign ADV (4)	Excavators	1	8.00	303	0.38
Lake B - Realign ADV (5)	Excavators	0	0.00	158	0.38
Lake B - ADV Berms	Excavators	0	0.00	158	0.38
Lake B - Pedestrian and Bike Trail (1)	Excavators	2	8.00	158	0.38
Lake B - Pedestrian and Bike Trail (2)	Graders	0	0.00	187	0.41
Lake B - Lake B to C Conduit	Graders	0	0.00	187	0.41
Lake B - Overflow Outlet to ADV (1)	Graders	0	0.00	187	0.41
Lake B - Overflow Outlet to ADV (2)	Graders	0	0.00	187	0.41
Lake B - Sharks Fin Drainage Notch	Graders	0	0.00	187	0.41
Lake B - Realign ADV (2)	Graders	1	8.00	238	0.41
Lake B - Realign ADV (3)	Graders	1	8.00	238	0.41
Lake B - Realign ADV (4)	Graders	0	0.00	187	0.41
Lake B - Realign ADV (5)	Graders	1	8.00	238	0.41

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

Lake B - ADV Berms	Graders	1	8.00	238	0.41
Lake B - Pedestrian and Bike Trail (1)	Graders	1	8.00	187	0.41
Lake B - Pedestrian and Bike Trail (2)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Lake B to C Conduit	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Overflow Outlet to ADV (1)	Rubber Tired Dozers	1	8.00	600	0.40
Lake B - Overflow Outlet to ADV (2)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Sharks Fin Drainage Notch	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Realign ADV (2)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Realign ADV (3)	Rubber Tired Dozers	1	8.00	600	0.40
Lake B - Realign ADV (4)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Realign ADV (5)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - ADV Berms	Rubber Tired Dozers	1	8.00	303	0.40
Lake B - Pedestrian and Bike Trail (1)	Rubber Tired Dozers	1	8.00	247	0.40
Lake B - Realign ADV (1)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Pedestrian and Bike Trail (3)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Revegetation	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Realign ADV (6)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Realign ADV (7)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Pedestrian and Bike Trail (2)	Scrapers	0	0.00	367	0.48
Lake B - Lake B to C Conduit	Scrapers	0	0.00	367	0.48
Lake B - Overflow Outlet to ADV (1)	Scrapers	0	0.00	367	0.48
Lake B - Overflow Outlet to ADV (2)	Scrapers	0	0.00	367	0.48
Lake B - Sharks Fin Drainage Notch	Scrapers	0	0.00	367	0.48
Lake B - Realign ADV (2)	Scrapers	1	8.00	407	0.48
Lake B - Realign ADV (3)	Scrapers	4	8.00	570	0.48
Lake B - Realign ADV (4)	Scrapers	0	0.00	367	0.48
Lake B - Realign ADV (5)	Scrapers	1	8.00	407	0.48

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

Lake B - ADV Berms	Scrapers	0	0.00	367	0.48
Lake B - Pedestrian and Bike Trail (1)	Scrapers	2	8.00	367	0.48
Lake B - Pedestrian and Bike Trail (2)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - Lake B to C Conduit	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake B - Overflow Outlet to ADV (1)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake B - Overflow Outlet to ADV (2)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake B - Sharks Fin Drainage Notch	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - Realign ADV (2)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - Realign ADV (3)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - Realign ADV (4)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - Realign ADV (5)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - ADV Berms	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake B - Pedestrian and Bike Trail (1)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Lake B - Realign ADV (1)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake B - Pedestrian and Bike Trail (3)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - Revegetation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - Realign ADV (6)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake B - Realign ADV (7)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - Realign ADV (1)	Excavators	1	8.00	396	0.38
Lake B - Realign ADV (2)	Rollers	1	8.00	248	0.38
Lake B - Realign ADV (2)	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Realign ADV (3)	Rubber Tired Dozers	1	8.00	303	0.40
Lake B - Realign ADV (3)	Rollers	1	8.00	405	0.38
Lake B - Realign ADV (3)	Off-Highway Trucks	3	8.00	402	0.38
Lake B - Realign ADV (4)	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Realign ADV (5)	Off-Highway Trucks	1	8.00	402	0.38
Lake B - ADV Berms	Rollers	1	8.00	405	0.38

## Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

Lake B - ADV Berms	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Realign ADV (6)	Excavators	1	8.00	396	0.38
Lake B - Realign ADV (7)	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Pedestrian and Bike Trail (1)	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Pedestrian and Bike Trail (2)	Pavers	2	8.00	130	0.42
Lake B - Pedestrian and Bike Trail (2)	Paving Equipment	2	8.00	132	0.36
Lake B - Pedestrian and Bike Trail (2)	Rollers	2	8.00	80	0.38
Lake B - Pedestrian and Bike Trail (3)	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Lake B to C Conduit	Excavators	1	8.00	303	0.38
Lake B - Lake B to C Conduit	Forklifts	1	8.00	89	0.20
Lake B - Lake B to C Conduit	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Overflow Outlet to ADV (1)	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Overflow Outlet to ADV (2)	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Sharks Fin Drainage Notch	Off-Highway Trucks	4	8.00	511	0.38
Lake B - Sharks Fin Drainage Notch	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Revegetation	Off-Highway Trucks	1	8.00	402	0.38

**Trips and VMT**

## Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

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
Lake B - Realign ADV (1)	2	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Pedestrian and Bike Trail (2)	6	20.00	0.00	464.00	10.80	7.30	4.00	LD_Mix	HDT_Mix	HHDT
Lake B - Pedestrian and Bike Trail (3)	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Lake B to C Conduit	5	18.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Overflow Outlet to ADV (1)	4	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Overflow Outlet to ADV (2)	3	12.00	0.00	144.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Sharks Fin Drainage Notch	6	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Revegetation	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Realign ADV (2)	4	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Realign ADV (3)	11	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Realign ADV (4)	2	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Realign ADV (5)	3	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - ADV Berms	5	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Realign ADV (6)	2	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Realign ADV (7)	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Pedestrian and Bike Trail (1)	9	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.2 Lake B - Realign ADV (1) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6300	5.3617	5.1365	0.0217		0.1885	0.1885		0.1734	0.1734		2,098.0229	2,098.0229	0.6785		2,114.9865
<b>Total</b>	<b>0.6300</b>	<b>5.3617</b>	<b>5.1365</b>	<b>0.0217</b>	<b>0.0000</b>	<b>0.1885</b>	<b>0.1885</b>	<b>0.0000</b>	<b>0.1734</b>	<b>0.1734</b>		<b>2,098.0229</b>	<b>2,098.0229</b>	<b>0.6785</b>		<b>2,114.9865</b>

**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	5.6500e-003	0.2013	0.0394	5.5000e-004	0.0136	3.8000e-004	0.0139	3.9000e-003	3.6000e-004	4.2700e-003		57.8624	57.8624	2.9000e-003		57.9349
Worker	0.0314	0.0180	0.2391	7.8000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		77.6971	77.6971	1.7200e-003		77.7400
<b>Total</b>	<b>0.0370</b>	<b>0.2193</b>	<b>0.2786</b>	<b>1.3300e-003</b>	<b>0.0957</b>	<b>9.0000e-004</b>	<b>0.0966</b>	<b>0.0257</b>	<b>8.4000e-004</b>	<b>0.0265</b>		<b>135.5595</b>	<b>135.5595</b>	<b>4.6200e-003</b>		<b>135.6749</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.2 Lake B - Realign ADV (1) - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6300	5.3617	5.1365	0.0217		0.1885	0.1885		0.1734	0.1734	0.0000	2,098.0229	2,098.0229	0.6785		2,114.9865
<b>Total</b>	<b>0.6300</b>	<b>5.3617</b>	<b>5.1365</b>	<b>0.0217</b>	<b>0.0000</b>	<b>0.1885</b>	<b>0.1885</b>	<b>0.0000</b>	<b>0.1734</b>	<b>0.1734</b>	<b>0.0000</b>	<b>2,098.0229</b>	<b>2,098.0229</b>	<b>0.6785</b>		<b>2,114.9865</b>

**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	5.6500e-003	0.2013	0.0394	5.5000e-004	0.0136	3.8000e-004	0.0139	3.9000e-003	3.6000e-004	4.2700e-003		57.8624	57.8624	2.9000e-003		57.9349
Worker	0.0314	0.0180	0.2391	7.8000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		77.6971	77.6971	1.7200e-003		77.7400
<b>Total</b>	<b>0.0370</b>	<b>0.2193</b>	<b>0.2786</b>	<b>1.3300e-003</b>	<b>0.0957</b>	<b>9.0000e-004</b>	<b>0.0966</b>	<b>0.0257</b>	<b>8.4000e-004</b>	<b>0.0265</b>		<b>135.5595</b>	<b>135.5595</b>	<b>4.6200e-003</b>		<b>135.6749</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.3 Lake B - Realign ADV (2) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2121	0.0000	0.2121	0.0229	0.0000	0.0229			0.0000			0.0000
Off-Road	2.2738	24.2730	14.6532	0.0466		0.8728	0.8728		0.8030	0.8030		4,509.1870	4,509.1870	1.4584		4,545.6461
<b>Total</b>	<b>2.2738</b>	<b>24.2730</b>	<b>14.6532</b>	<b>0.0466</b>	<b>0.2121</b>	<b>0.8728</b>	<b>1.0849</b>	<b>0.0229</b>	<b>0.8030</b>	<b>0.8259</b>		<b>4,509.1870</b>	<b>4,509.1870</b>	<b>1.4584</b>		<b>4,545.6461</b>

**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	0.0439	0.0252	0.3348	1.0900e-003	0.1150	7.2000e-004	0.1157	0.0305	6.7000e-004	0.0312		108.7759	108.7759	2.4000e-003		108.8360
<b>Total</b>	<b>0.0439</b>	<b>0.0252</b>	<b>0.3348</b>	<b>1.0900e-003</b>	<b>0.1150</b>	<b>7.2000e-004</b>	<b>0.1157</b>	<b>0.0305</b>	<b>6.7000e-004</b>	<b>0.0312</b>		<b>108.7759</b>	<b>108.7759</b>	<b>2.4000e-003</b>		<b>108.8360</b>



Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.3 Lake B - Realign ADV (2) - 2022**

**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					0.0955	0.0000	0.0955	0.0103	0.0000	0.0103			0.0000			0.0000
Off-Road	2.2738	24.2730	14.6532	0.0466		0.8728	0.8728		0.8030	0.8030	0.0000	4,509.1870	4,509.1870	1.4584		4,545.6461
<b>Total</b>	<b>2.2738</b>	<b>24.2730</b>	<b>14.6532</b>	<b>0.0466</b>	<b>0.0955</b>	<b>0.8728</b>	<b>0.9682</b>	<b>0.0103</b>	<b>0.8030</b>	<b>0.8133</b>	<b>0.0000</b>	<b>4,509.1870</b>	<b>4,509.1870</b>	<b>1.4584</b>		<b>4,545.6461</b>

**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	0.0439	0.0252	0.3348	1.0900e-003	0.1150	7.2000e-004	0.1157	0.0305	6.7000e-004	0.0312		108.7759	108.7759	2.4000e-003		108.8360
<b>Total</b>	<b>0.0439</b>	<b>0.0252</b>	<b>0.3348</b>	<b>1.0900e-003</b>	<b>0.1150</b>	<b>7.2000e-004</b>	<b>0.1157</b>	<b>0.0305</b>	<b>6.7000e-004</b>	<b>0.0312</b>		<b>108.7759</b>	<b>108.7759</b>	<b>2.4000e-003</b>		<b>108.8360</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.4 Lake B - Realign ADV (3) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.4803	0.0000	7.4803	3.4677	0.0000	3.4677			0.0000			0.0000
Off-Road	9.9794	109.2460	65.9297	0.1866		4.0376	4.0376		3.7146	3.7146		18,067.42 32	18,067.42 32	5.8434		18,213.50 74
<b>Total</b>	<b>9.9794</b>	<b>109.2460</b>	<b>65.9297</b>	<b>0.1866</b>	<b>7.4803</b>	<b>4.0376</b>	<b>11.5179</b>	<b>3.4677</b>	<b>3.7146</b>	<b>7.1823</b>		<b>18,067.42 32</b>	<b>18,067.42 32</b>	<b>5.8434</b>		<b>18,213.50 74</b>

**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	0.0878	0.0504	0.6696	2.1800e-003	0.2300	1.4500e-003	0.2315	0.0610	1.3400e-003	0.0624		217.5518	217.5518	4.8100e-003		217.6720
<b>Total</b>	<b>0.0878</b>	<b>0.0504</b>	<b>0.6696</b>	<b>2.1800e-003</b>	<b>0.2300</b>	<b>1.4500e-003</b>	<b>0.2315</b>	<b>0.0610</b>	<b>1.3400e-003</b>	<b>0.0624</b>		<b>217.5518</b>	<b>217.5518</b>	<b>4.8100e-003</b>		<b>217.6720</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.4 Lake B - Realign ADV (3) - 2022**

**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					3.3661	0.0000	3.3661	1.5605	0.0000	1.5605			0.0000			0.0000
Off-Road	9.9794	109.2460	65.9297	0.1866		4.0376	4.0376		3.7146	3.7146	0.0000	18,067.42 32	18,067.42 32	5.8434		18,213.50 74
<b>Total</b>	<b>9.9794</b>	<b>109.2460</b>	<b>65.9297</b>	<b>0.1866</b>	<b>3.3661</b>	<b>4.0376</b>	<b>7.4037</b>	<b>1.5605</b>	<b>3.7146</b>	<b>5.2750</b>	<b>0.0000</b>	<b>18,067.42 32</b>	<b>18,067.42 32</b>	<b>5.8434</b>		<b>18,213.50 74</b>

**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	0.0878	0.0504	0.6696	2.1800e-003	0.2300	1.4500e-003	0.2315	0.0610	1.3400e-003	0.0624		217.5518	217.5518	4.8100e-003		217.6720
<b>Total</b>	<b>0.0878</b>	<b>0.0504</b>	<b>0.6696</b>	<b>2.1800e-003</b>	<b>0.2300</b>	<b>1.4500e-003</b>	<b>0.2315</b>	<b>0.0610</b>	<b>1.3400e-003</b>	<b>0.0624</b>		<b>217.5518</b>	<b>217.5518</b>	<b>4.8100e-003</b>		<b>217.6720</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.5 Lake B - Realign ADV (4) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2121	0.0000	0.2121	0.0229	0.0000	0.0229			0.0000			0.0000
Off-Road	0.7909	6.1455	5.5306	0.0231		0.2176	0.2176		0.2002	0.2002		2,239.2317	2,239.2317	0.7242		2,257.3370
<b>Total</b>	<b>0.7909</b>	<b>6.1455</b>	<b>5.5306</b>	<b>0.0231</b>	<b>0.2121</b>	<b>0.2176</b>	<b>0.4297</b>	<b>0.0229</b>	<b>0.2002</b>	<b>0.2231</b>		<b>2,239.2317</b>	<b>2,239.2317</b>	<b>0.7242</b>		<b>2,257.3370</b>

**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	0.0188	0.0108	0.1435	4.7000e-004	0.0493	3.1000e-004	0.0496	0.0131	2.9000e-004	0.0134		46.6182	46.6182	1.0300e-003		46.6440
<b>Total</b>	<b>0.0188</b>	<b>0.0108</b>	<b>0.1435</b>	<b>4.7000e-004</b>	<b>0.0493</b>	<b>3.1000e-004</b>	<b>0.0496</b>	<b>0.0131</b>	<b>2.9000e-004</b>	<b>0.0134</b>		<b>46.6182</b>	<b>46.6182</b>	<b>1.0300e-003</b>		<b>46.6440</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.5 Lake B - Realign ADV (4) - 2022**

**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					0.0955	0.0000	0.0955	0.0103	0.0000	0.0103			0.0000			0.0000
Off-Road	0.7909	6.1455	5.5306	0.0231		0.2176	0.2176		0.2002	0.2002	0.0000	2,239.2317	2,239.2317	0.7242		2,257.3370
<b>Total</b>	<b>0.7909</b>	<b>6.1455</b>	<b>5.5306</b>	<b>0.0231</b>	<b>0.0955</b>	<b>0.2176</b>	<b>0.3130</b>	<b>0.0103</b>	<b>0.2002</b>	<b>0.2105</b>	<b>0.0000</b>	<b>2,239.2317</b>	<b>2,239.2317</b>	<b>0.7242</b>		<b>2,257.3370</b>

**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	0.0188	0.0108	0.1435	4.7000e-004	0.0493	3.1000e-004	0.0496	0.0131	2.9000e-004	0.0134		46.6182	46.6182	1.0300e-003		46.6440
<b>Total</b>	<b>0.0188</b>	<b>0.0108</b>	<b>0.1435</b>	<b>4.7000e-004</b>	<b>0.0493</b>	<b>3.1000e-004</b>	<b>0.0496</b>	<b>0.0131</b>	<b>2.9000e-004</b>	<b>0.0134</b>		<b>46.6182</b>	<b>46.6182</b>	<b>1.0300e-003</b>		<b>46.6440</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.6 Lake B - Realign ADV (5) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4473	0.0000	2.4473	0.2643	0.0000	0.2643			0.0000			0.0000
Off-Road	1.9678	20.6435	12.6376	0.0386		0.7467	0.7467		0.6869	0.6869		3,732.097 3	3,732.097 3	1.2070		3,762.273 2
<b>Total</b>	<b>1.9678</b>	<b>20.6435</b>	<b>12.6376</b>	<b>0.0386</b>	<b>2.4473</b>	<b>0.7467</b>	<b>3.1940</b>	<b>0.2643</b>	<b>0.6869</b>	<b>0.9512</b>		<b>3,732.097 3</b>	<b>3,732.097 3</b>	<b>1.2070</b>		<b>3,762.273 2</b>

**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	0.0376	0.0216	0.2870	9.4000e-004	0.0986	6.2000e-004	0.0992	0.0262	5.7000e-004	0.0267		93.2365	93.2365	2.0600e-003		93.2880
<b>Total</b>	<b>0.0376</b>	<b>0.0216</b>	<b>0.2870</b>	<b>9.4000e-004</b>	<b>0.0986</b>	<b>6.2000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.7000e-004</b>	<b>0.0267</b>		<b>93.2365</b>	<b>93.2365</b>	<b>2.0600e-003</b>		<b>93.2880</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.6 Lake B - Realign ADV (5) - 2022**

**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					1.1013	0.0000	1.1013	0.1189	0.0000	0.1189			0.0000			0.0000
Off-Road	1.9678	20.6435	12.6376	0.0386		0.7467	0.7467		0.6869	0.6869	0.0000	3,732.097 3	3,732.097 3	1.2070		3,762.273 2
<b>Total</b>	<b>1.9678</b>	<b>20.6435</b>	<b>12.6376</b>	<b>0.0386</b>	<b>1.1013</b>	<b>0.7467</b>	<b>1.8480</b>	<b>0.1189</b>	<b>0.6869</b>	<b>0.8058</b>	<b>0.0000</b>	<b>3,732.097 3</b>	<b>3,732.097 3</b>	<b>1.2070</b>		<b>3,762.273 2</b>

**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	0.0376	0.0216	0.2870	9.4000e-004	0.0986	6.2000e-004	0.0992	0.0262	5.7000e-004	0.0267		93.2365	93.2365	2.0600e-003		93.2880
<b>Total</b>	<b>0.0376</b>	<b>0.0216</b>	<b>0.2870</b>	<b>9.4000e-004</b>	<b>0.0986</b>	<b>6.2000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.7000e-004</b>	<b>0.0267</b>		<b>93.2365</b>	<b>93.2365</b>	<b>2.0600e-003</b>		<b>93.2880</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.7 Lake B - ADV Berms - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3402	0.0000	6.3402	3.3446	0.0000	3.3446			0.0000			0.0000
Off-Road	2.9466	30.1924	21.4378	0.0543		1.1853	1.1853		1.0905	1.0905		5,254.9934	5,254.9934	1.6996		5,297.4827
<b>Total</b>	<b>2.9466</b>	<b>30.1924</b>	<b>21.4378</b>	<b>0.0543</b>	<b>6.3402</b>	<b>1.1853</b>	<b>7.5256</b>	<b>3.3446</b>	<b>1.0905</b>	<b>4.4351</b>		<b>5,254.9934</b>	<b>5,254.9934</b>	<b>1.6996</b>		<b>5,297.4827</b>

**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	0.0376	0.0216	0.2870	9.4000e-004	0.0986	6.2000e-004	0.0992	0.0262	5.7000e-004	0.0267		93.2365	93.2365	2.0600e-003		93.2880
<b>Total</b>	<b>0.0376</b>	<b>0.0216</b>	<b>0.2870</b>	<b>9.4000e-004</b>	<b>0.0986</b>	<b>6.2000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.7000e-004</b>	<b>0.0267</b>		<b>93.2365</b>	<b>93.2365</b>	<b>2.0600e-003</b>		<b>93.2880</b>



Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.7 Lake B - ADV Berms - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8531	0.0000	2.8531	1.5051	0.0000	1.5051			0.0000			0.0000
Off-Road	2.9466	30.1924	21.4378	0.0543		1.1853	1.1853		1.0905	1.0905	0.0000	5,254.9934	5,254.9934	1.6996		5,297.4827
<b>Total</b>	<b>2.9466</b>	<b>30.1924</b>	<b>21.4378</b>	<b>0.0543</b>	<b>2.8531</b>	<b>1.1853</b>	<b>4.0385</b>	<b>1.5051</b>	<b>1.0905</b>	<b>2.5956</b>	<b>0.0000</b>	<b>5,254.9934</b>	<b>5,254.9934</b>	<b>1.6996</b>		<b>5,297.4827</b>

**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	0.0376	0.0216	0.2870	9.4000e-004	0.0986	6.2000e-004	0.0992	0.0262	5.7000e-004	0.0267		93.2365	93.2365	2.0600e-003		93.2880
<b>Total</b>	<b>0.0376</b>	<b>0.0216</b>	<b>0.2870</b>	<b>9.4000e-004</b>	<b>0.0986</b>	<b>6.2000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.7000e-004</b>	<b>0.0267</b>		<b>93.2365</b>	<b>93.2365</b>	<b>2.0600e-003</b>		<b>93.2880</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.8 Lake B - Realign ADV (6) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6300	5.3617	5.1365	0.0217		0.1885	0.1885		0.1734	0.1734		2,098.0229	2,098.0229	0.6785		2,114.9865
<b>Total</b>	<b>0.6300</b>	<b>5.3617</b>	<b>5.1365</b>	<b>0.0217</b>	<b>0.0000</b>	<b>0.1885</b>	<b>0.1885</b>	<b>0.0000</b>	<b>0.1734</b>	<b>0.1734</b>		<b>2,098.0229</b>	<b>2,098.0229</b>	<b>0.6785</b>		<b>2,114.9865</b>

**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	5.6500e-003	0.2013	0.0394	5.5000e-004	0.0136	3.8000e-004	0.0139	3.9000e-003	3.6000e-004	4.2700e-003		57.8624	57.8624	2.9000e-003		57.9349
Worker	0.0314	0.0180	0.2391	7.8000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		77.6971	77.6971	1.7200e-003		77.7400
<b>Total</b>	<b>0.0370</b>	<b>0.2193</b>	<b>0.2786</b>	<b>1.3300e-003</b>	<b>0.0957</b>	<b>9.0000e-004</b>	<b>0.0966</b>	<b>0.0257</b>	<b>8.4000e-004</b>	<b>0.0265</b>		<b>135.5595</b>	<b>135.5595</b>	<b>4.6200e-003</b>		<b>135.6749</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.8 Lake B - Realign ADV (6) - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6300	5.3617	5.1365	0.0217		0.1885	0.1885		0.1734	0.1734	0.0000	2,098.0229	2,098.0229	0.6785		2,114.9865
<b>Total</b>	<b>0.6300</b>	<b>5.3617</b>	<b>5.1365</b>	<b>0.0217</b>	<b>0.0000</b>	<b>0.1885</b>	<b>0.1885</b>	<b>0.0000</b>	<b>0.1734</b>	<b>0.1734</b>	<b>0.0000</b>	<b>2,098.0229</b>	<b>2,098.0229</b>	<b>0.6785</b>		<b>2,114.9865</b>

**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	5.6500e-003	0.2013	0.0394	5.5000e-004	0.0136	3.8000e-004	0.0139	3.9000e-003	3.6000e-004	4.2700e-003		57.8624	57.8624	2.9000e-003		57.9349
Worker	0.0314	0.0180	0.2391	7.8000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		77.6971	77.6971	1.7200e-003		77.7400
<b>Total</b>	<b>0.0370</b>	<b>0.2193</b>	<b>0.2786</b>	<b>1.3300e-003</b>	<b>0.0957</b>	<b>9.0000e-004</b>	<b>0.0966</b>	<b>0.0257</b>	<b>8.4000e-004</b>	<b>0.0265</b>		<b>135.5595</b>	<b>135.5595</b>	<b>4.6200e-003</b>		<b>135.6749</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.9 Lake B - Realign ADV (7) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5311	4.0338	3.3755	0.0133		0.1467	0.1467		0.1350	0.1350		1,285.380 2	1,285.380 2	0.4157		1,295.773 2
<b>Total</b>	<b>0.5311</b>	<b>4.0338</b>	<b>3.3755</b>	<b>0.0133</b>	<b>0.0000</b>	<b>0.1467</b>	<b>0.1467</b>	<b>0.0000</b>	<b>0.1350</b>	<b>0.1350</b>		<b>1,285.380 2</b>	<b>1,285.380 2</b>	<b>0.4157</b>		<b>1,295.773 2</b>

**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	0.0314	0.0180	0.2391	7.8000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		77.6971	77.6971	1.7200e-003		77.7400
<b>Total</b>	<b>0.0314</b>	<b>0.0180</b>	<b>0.2391</b>	<b>7.8000e-004</b>	<b>0.0822</b>	<b>5.2000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.8000e-004</b>	<b>0.0223</b>		<b>77.6971</b>	<b>77.6971</b>	<b>1.7200e-003</b>		<b>77.7400</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.9 Lake B - Realign ADV (7) - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5311	4.0338	3.3755	0.0133		0.1467	0.1467		0.1350	0.1350	0.0000	1,285.380 2	1,285.380 2	0.4157		1,295.773 2
<b>Total</b>	<b>0.5311</b>	<b>4.0338</b>	<b>3.3755</b>	<b>0.0133</b>	<b>0.0000</b>	<b>0.1467</b>	<b>0.1467</b>	<b>0.0000</b>	<b>0.1350</b>	<b>0.1350</b>	<b>0.0000</b>	<b>1,285.380 2</b>	<b>1,285.380 2</b>	<b>0.4157</b>		<b>1,295.773 2</b>

**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	0.0314	0.0180	0.2391	7.8000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		77.6971	77.6971	1.7200e-003		77.7400
<b>Total</b>	<b>0.0314</b>	<b>0.0180</b>	<b>0.2391</b>	<b>7.8000e-004</b>	<b>0.0822</b>	<b>5.2000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.8000e-004</b>	<b>0.0223</b>		<b>77.6971</b>	<b>77.6971</b>	<b>1.7200e-003</b>		<b>77.7400</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.10 Lake B - Pedestrian and Bike Trail (1) - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2872	0.0000	6.2872	3.3389	0.0000	3.3389			0.0000			0.0000
Off-Road	3.3812	30.8233	29.5325	0.0754		1.2338	1.2338		1.1351	1.1351		7,294.3552	7,294.3552	2.3591		7,353.3338
<b>Total</b>	<b>3.3812</b>	<b>30.8233</b>	<b>29.5325</b>	<b>0.0754</b>	<b>6.2872</b>	<b>1.2338</b>	<b>7.5211</b>	<b>3.3389</b>	<b>1.1351</b>	<b>4.4740</b>		<b>7,294.3552</b>	<b>7,294.3552</b>	<b>2.3591</b>		<b>7,353.3338</b>

**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	0.0494	0.0234	0.3537	1.4300e-003	0.1889	9.6000e-004	0.1899	0.0501	8.8000e-004	0.0510		142.5570	142.5570	2.2000e-003		142.6121
<b>Total</b>	<b>0.0494</b>	<b>0.0234</b>	<b>0.3537</b>	<b>1.4300e-003</b>	<b>0.1889</b>	<b>9.6000e-004</b>	<b>0.1899</b>	<b>0.0501</b>	<b>8.8000e-004</b>	<b>0.0510</b>		<b>142.5570</b>	<b>142.5570</b>	<b>2.2000e-003</b>		<b>142.6121</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.10 Lake B - Pedestrian and Bike Trail (1) - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8293	0.0000	2.8293	1.5025	0.0000	1.5025			0.0000			0.0000
Off-Road	3.3812	30.8233	29.5325	0.0754		1.2338	1.2338		1.1351	1.1351	0.0000	7,294.3552	7,294.3552	2.3591		7,353.3338
<b>Total</b>	<b>3.3812</b>	<b>30.8233</b>	<b>29.5325</b>	<b>0.0754</b>	<b>2.8293</b>	<b>1.2338</b>	<b>4.0631</b>	<b>1.5025</b>	<b>1.1351</b>	<b>2.6376</b>	<b>0.0000</b>	<b>7,294.3552</b>	<b>7,294.3552</b>	<b>2.3591</b>		<b>7,353.3338</b>

**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	0.0494	0.0234	0.3537	1.4300e-003	0.1889	9.6000e-004	0.1899	0.0501	8.8000e-004	0.0510		142.5570	142.5570	2.2000e-003		142.6121
<b>Total</b>	<b>0.0494</b>	<b>0.0234</b>	<b>0.3537</b>	<b>1.4300e-003</b>	<b>0.1889</b>	<b>9.6000e-004</b>	<b>0.1899</b>	<b>0.0501</b>	<b>8.8000e-004</b>	<b>0.0510</b>		<b>142.5570</b>	<b>142.5570</b>	<b>2.2000e-003</b>		<b>142.6121</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.11 Lake B - Pedestrian and Bike Trail (2) - 2028**

**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					1.1401	0.0000	1.1401	0.1266	0.0000	0.1266			0.0000			0.0000
Off-Road	0.9039	8.4761	14.3986	0.0225		0.4134	0.4134		0.3803	0.3803		2,179.6260	2,179.6260	0.7049		2,197.2494
<b>Total</b>	<b>0.9039</b>	<b>8.4761</b>	<b>14.3986</b>	<b>0.0225</b>	<b>1.1401</b>	<b>0.4134</b>	<b>1.5535</b>	<b>0.1266</b>	<b>0.3803</b>	<b>0.5069</b>		<b>2,179.6260</b>	<b>2,179.6260</b>	<b>0.7049</b>		<b>2,197.2494</b>

**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	0.1598	8.3560	1.2508	0.0210	54.9308	5.6000e-003	54.9364	5.5350	5.3600e-003	5.5403		2,235.1285	2,235.1285	0.1596		2,239.1176
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	0.0430	0.0203	0.3076	1.2400e-003	0.1643	8.3000e-004	0.1651	0.0436	7.7000e-004	0.0444		123.9626	123.9626	1.9100e-003		124.0105
<b>Total</b>	<b>0.2028</b>	<b>8.3763</b>	<b>1.5584</b>	<b>0.0222</b>	<b>55.0951</b>	<b>6.4300e-003</b>	<b>55.1015</b>	<b>5.5785</b>	<b>6.1300e-003</b>	<b>5.5847</b>		<b>2,359.0911</b>	<b>2,359.0911</b>	<b>0.1615</b>		<b>2,363.1281</b>



Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.11 Lake B - Pedestrian and Bike Trail (2) - 2028**

**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					0.5130	0.0000	0.5130	0.0570	0.0000	0.0570			0.0000			0.0000
Off-Road	0.9039	8.4761	14.3986	0.0225		0.4134	0.4134		0.3803	0.3803	0.0000	2,179.6260	2,179.6260	0.7049		2,197.2494
<b>Total</b>	<b>0.9039</b>	<b>8.4761</b>	<b>14.3986</b>	<b>0.0225</b>	<b>0.5130</b>	<b>0.4134</b>	<b>0.9264</b>	<b>0.0570</b>	<b>0.3803</b>	<b>0.4372</b>	<b>0.0000</b>	<b>2,179.6260</b>	<b>2,179.6260</b>	<b>0.7049</b>		<b>2,197.2494</b>

**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	0.1598	8.3560	1.2508	0.0210	33.7485	5.6000e-003	33.7540	3.4167	5.3600e-003	3.4221		2,235.1285	2,235.1285	0.1596		2,239.1176
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	0.0430	0.0203	0.3076	1.2400e-003	0.1643	8.3000e-004	0.1651	0.0436	7.7000e-004	0.0444		123.9626	123.9626	1.9100e-003		124.0105
<b>Total</b>	<b>0.2028</b>	<b>8.3763</b>	<b>1.5584</b>	<b>0.0222</b>	<b>33.9128</b>	<b>6.4300e-003</b>	<b>33.9192</b>	<b>3.4603</b>	<b>6.1300e-003</b>	<b>3.4664</b>		<b>2,359.0911</b>	<b>2,359.0911</b>	<b>0.1615</b>		<b>2,363.1281</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.12 Lake B - Pedestrian and Bike Trail (3) - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4800	2.8804	3.2014	0.0133		0.1030	0.1030		0.0947	0.0947		1,286.0738	1,286.0738	0.4159		1,296.4724
<b>Total</b>	<b>0.4800</b>	<b>2.8804</b>	<b>3.2014</b>	<b>0.0133</b>	<b>0.0000</b>	<b>0.1030</b>	<b>0.1030</b>	<b>0.0000</b>	<b>0.0947</b>	<b>0.0947</b>		<b>1,286.0738</b>	<b>1,286.0738</b>	<b>0.4159</b>		<b>1,296.4724</b>

**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	0.0215	0.0102	0.1538	6.2000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.8000e-004	0.0222		61.9813	61.9813	9.6000e-004		62.0053
<b>Total</b>	<b>0.0215</b>	<b>0.0102</b>	<b>0.1538</b>	<b>6.2000e-004</b>	<b>0.0822</b>	<b>4.2000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>3.8000e-004</b>	<b>0.0222</b>		<b>61.9813</b>	<b>61.9813</b>	<b>9.6000e-004</b>		<b>62.0053</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.12 Lake B - Pedestrian and Bike Trail (3) - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4800	2.8804	3.2014	0.0133		0.1030	0.1030		0.0947	0.0947	0.0000	1,286.0738	1,286.0738	0.4159		1,296.4724
<b>Total</b>	<b>0.4800</b>	<b>2.8804</b>	<b>3.2014</b>	<b>0.0133</b>	<b>0.0000</b>	<b>0.1030</b>	<b>0.1030</b>	<b>0.0000</b>	<b>0.0947</b>	<b>0.0947</b>	<b>0.0000</b>	<b>1,286.0738</b>	<b>1,286.0738</b>	<b>0.4159</b>		<b>1,296.4724</b>

**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	0.0215	0.0102	0.1538	6.2000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.8000e-004	0.0222		61.9813	61.9813	9.6000e-004		62.0053
<b>Total</b>	<b>0.0215</b>	<b>0.0102</b>	<b>0.1538</b>	<b>6.2000e-004</b>	<b>0.0822</b>	<b>4.2000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>3.8000e-004</b>	<b>0.0222</b>		<b>61.9813</b>	<b>61.9813</b>	<b>9.6000e-004</b>		<b>62.0053</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.13 Lake B - Lake B to C Conduit - 2030**

**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					0.2121	0.0000	0.2121	0.0229	0.0000	0.0229			0.0000			0.0000
Off-Road	1.9503	4.4895	11.2159	0.0497		0.1530	0.1530		0.1530	0.1530		5,409.741 2	5,409.741 2	0.1727		5,414.057 7
<b>Total</b>	<b>1.9503</b>	<b>4.4895</b>	<b>11.2159</b>	<b>0.0497</b>	<b>0.2121</b>	<b>0.1530</b>	<b>0.3651</b>	<b>0.0229</b>	<b>0.1530</b>	<b>0.1759</b>		<b>5,409.741 2</b>	<b>5,409.741 2</b>	<b>0.1727</b>		<b>5,414.057 7</b>

**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	3.5600e-003	0.1481	0.0286	5.1000e-004	0.0136	1.5000e-004	0.0137	3.9000e-003	1.4000e-004	4.0500e-003		54.0569	54.0569	2.1500e-003		54.1108
Worker	0.0336	0.0155	0.2448	1.0600e-003	0.1479	6.5000e-004	0.1485	0.0392	6.0000e-004	0.0398		105.5696	105.5696	1.4500e-003		105.6059
<b>Total</b>	<b>0.0372</b>	<b>0.1636</b>	<b>0.2733</b>	<b>1.5700e-003</b>	<b>0.1614</b>	<b>8.0000e-004</b>	<b>0.1622</b>	<b>0.0431</b>	<b>7.4000e-004</b>	<b>0.0439</b>		<b>159.6265</b>	<b>159.6265</b>	<b>3.6000e-003</b>		<b>159.7167</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.13 Lake B - Lake B to C Conduit - 2030**

**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					0.0955	0.0000	0.0955	0.0103	0.0000	0.0103			0.0000			0.0000
Off-Road	1.9503	4.4895	11.2159	0.0497		0.1530	0.1530		0.1530	0.1530	0.0000	5,409.741 2	5,409.741 2	0.1727		5,414.057 7
<b>Total</b>	<b>1.9503</b>	<b>4.4895</b>	<b>11.2159</b>	<b>0.0497</b>	<b>0.0955</b>	<b>0.1530</b>	<b>0.2484</b>	<b>0.0103</b>	<b>0.1530</b>	<b>0.1633</b>	<b>0.0000</b>	<b>5,409.741 2</b>	<b>5,409.741 2</b>	<b>0.1727</b>		<b>5,414.057 7</b>

**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	3.5600e-003	0.1481	0.0286	5.1000e-004	0.0136	1.5000e-004	0.0137	3.9000e-003	1.4000e-004	4.0500e-003		54.0569	54.0569	2.1500e-003		54.1108
Worker	0.0336	0.0155	0.2448	1.0600e-003	0.1479	6.5000e-004	0.1485	0.0392	6.0000e-004	0.0398		105.5696	105.5696	1.4500e-003		105.6059
<b>Total</b>	<b>0.0372</b>	<b>0.1636</b>	<b>0.2733</b>	<b>1.5700e-003</b>	<b>0.1614</b>	<b>8.0000e-004</b>	<b>0.1622</b>	<b>0.0431</b>	<b>7.4000e-004</b>	<b>0.0439</b>		<b>159.6265</b>	<b>159.6265</b>	<b>3.6000e-003</b>		<b>159.7167</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.14 Lake B - Overflow Outlet to ADV (1) - 2049**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3756	0.0000	6.3756	3.3484	0.0000	3.3484			0.0000			0.0000
Off-Road	2.4336	5.4036	12.8732	0.0588		0.2043	0.2043		0.2043	0.2043		6,476.1539	6,476.1539	0.2140		6,481.5038
<b>Total</b>	<b>2.4336</b>	<b>5.4036</b>	<b>12.8732</b>	<b>0.0588</b>	<b>6.3756</b>	<b>0.2043</b>	<b>6.5798</b>	<b>3.3484</b>	<b>0.2043</b>	<b>3.5527</b>		<b>6,476.1539</b>	<b>6,476.1539</b>	<b>0.2140</b>		<b>6,481.5038</b>

**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	0.0127	6.5800e-003	0.1175	7.1000e-004	0.1150	2.5000e-004	0.1153	0.0305	2.3000e-004	0.0307		70.4811	70.4811	5.6000e-004		70.4950
<b>Total</b>	<b>0.0127</b>	<b>6.5800e-003</b>	<b>0.1175</b>	<b>7.1000e-004</b>	<b>0.1150</b>	<b>2.5000e-004</b>	<b>0.1153</b>	<b>0.0305</b>	<b>2.3000e-004</b>	<b>0.0307</b>		<b>70.4811</b>	<b>70.4811</b>	<b>5.6000e-004</b>		<b>70.4950</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.14 Lake B - Overflow Outlet to ADV (1) - 2049**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8690	0.0000	2.8690	1.5068	0.0000	1.5068			0.0000			0.0000
Off-Road	2.4336	5.4036	12.8732	0.0588		0.2043	0.2043		0.2043	0.2043	0.0000	6,476.1539	6,476.1539	0.2140		6,481.5038
<b>Total</b>	<b>2.4336</b>	<b>5.4036</b>	<b>12.8732</b>	<b>0.0588</b>	<b>2.8690</b>	<b>0.2043</b>	<b>3.0733</b>	<b>1.5068</b>	<b>0.2043</b>	<b>1.7110</b>	<b>0.0000</b>	<b>6,476.1539</b>	<b>6,476.1539</b>	<b>0.2140</b>		<b>6,481.5038</b>

**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	0.0127	6.5800e-003	0.1175	7.1000e-004	0.1150	2.5000e-004	0.1153	0.0305	2.3000e-004	0.0307		70.4811	70.4811	5.6000e-004		70.4950
<b>Total</b>	<b>0.0127</b>	<b>6.5800e-003</b>	<b>0.1175</b>	<b>7.1000e-004</b>	<b>0.1150</b>	<b>2.5000e-004</b>	<b>0.1153</b>	<b>0.0305</b>	<b>2.3000e-004</b>	<b>0.0307</b>		<b>70.4811</b>	<b>70.4811</b>	<b>5.6000e-004</b>		<b>70.4950</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.15 Lake B - Overflow Outlet to ADV (2) - 2049**

**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					0.2325	0.0000	0.2325	0.0260	0.0000	0.0260			0.0000			0.0000
Off-Road	1.3753	2.1570	7.8022	0.0376		0.0815	0.0815		0.0815	0.0815		4,070.6108	4,070.6108	0.1209		4,073.6326
<b>Total</b>	<b>1.3753</b>	<b>2.1570</b>	<b>7.8022</b>	<b>0.0376</b>	<b>0.2325</b>	<b>0.0815</b>	<b>0.3140</b>	<b>0.0260</b>	<b>0.0815</b>	<b>0.1075</b>		<b>4,070.6108</b>	<b>4,070.6108</b>	<b>0.1209</b>		<b>4,073.6326</b>

**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	0.1336	4.0245	1.1435	0.0204	85.2351	7.0000e-003	85.2421	8.5879	6.7000e-003	8.5946		2,179.9171	2,179.9171	0.0920		2,182.2166
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	0.0109	5.6400e-003	0.1007	6.0000e-004	0.0986	2.1000e-004	0.0988	0.0262	1.9000e-004	0.0263		60.4124	60.4124	4.8000e-004		60.4243
<b>Total</b>	<b>0.1445</b>	<b>4.0301</b>	<b>1.2442</b>	<b>0.0210</b>	<b>85.3337</b>	<b>7.2100e-003</b>	<b>85.3409</b>	<b>8.6140</b>	<b>6.8900e-003</b>	<b>8.6209</b>		<b>2,240.3294</b>	<b>2,240.3294</b>	<b>0.0925</b>		<b>2,242.6410</b>



Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.15 Lake B - Overflow Outlet to ADV (2) - 2049**

**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					0.1046	0.0000	0.1046	0.0117	0.0000	0.0117			0.0000			0.0000
Off-Road	1.3753	2.1570	7.8022	0.0376		0.0815	0.0815		0.0815	0.0815	0.0000	4,070.6108	4,070.6108	0.1209		4,073.6326
<b>Total</b>	<b>1.3753</b>	<b>2.1570</b>	<b>7.8022</b>	<b>0.0376</b>	<b>0.1046</b>	<b>0.0815</b>	<b>0.1861</b>	<b>0.0117</b>	<b>0.0815</b>	<b>0.0932</b>	<b>0.0000</b>	<b>4,070.6108</b>	<b>4,070.6108</b>	<b>0.1209</b>		<b>4,073.6326</b>

**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	0.1336	4.0245	1.1435	0.0204	52.3660	7.0000e-003	52.3730	5.3010	6.7000e-003	5.3077		2,179.9171	2,179.9171	0.0920		2,182.2166
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	0.0109	5.6400e-003	0.1007	6.0000e-004	0.0986	2.1000e-004	0.0988	0.0262	1.9000e-004	0.0263		60.4124	60.4124	4.8000e-004		60.4243
<b>Total</b>	<b>0.1445</b>	<b>4.0301</b>	<b>1.2442</b>	<b>0.0210</b>	<b>52.4645</b>	<b>7.2100e-003</b>	<b>52.4718</b>	<b>5.3271</b>	<b>6.8900e-003</b>	<b>5.3340</b>		<b>2,240.3294</b>	<b>2,240.3294</b>	<b>0.0925</b>		<b>2,242.6410</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.16 Lake B - Sharks Fin Drainage Notch - 2049**

**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					0.2121	0.0000	0.2121	0.0229	0.0000	0.0229			0.0000			0.0000
Off-Road	3.8705	5.8211	21.0953	0.0957		0.2269	0.2269		0.2269	0.2269		10,871.1053	10,871.1053	0.3417		10,879.6471
<b>Total</b>	<b>3.8705</b>	<b>5.8211</b>	<b>21.0953</b>	<b>0.0957</b>	<b>0.2121</b>	<b>0.2269</b>	<b>0.4390</b>	<b>0.0229</b>	<b>0.2269</b>	<b>0.2498</b>		<b>10,871.1053</b>	<b>10,871.1053</b>	<b>0.3417</b>		<b>10,879.6471</b>

**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	0.0127	6.5800e-003	0.1175	7.1000e-004	0.1150	2.5000e-004	0.1153	0.0305	2.3000e-004	0.0307		70.4811	70.4811	5.6000e-004		70.4950
<b>Total</b>	<b>0.0127</b>	<b>6.5800e-003</b>	<b>0.1175</b>	<b>7.1000e-004</b>	<b>0.1150</b>	<b>2.5000e-004</b>	<b>0.1153</b>	<b>0.0305</b>	<b>2.3000e-004</b>	<b>0.0307</b>		<b>70.4811</b>	<b>70.4811</b>	<b>5.6000e-004</b>		<b>70.4950</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.16 Lake B - Sharks Fin Drainage Notch - 2049**

**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					0.0955	0.0000	0.0955	0.0103	0.0000	0.0103			0.0000			0.0000
Off-Road	3.8705	5.8211	21.0953	0.0957		0.2269	0.2269		0.2269	0.2269	0.0000	10,871.1053	10,871.1053	0.3417		10,879.6471
<b>Total</b>	<b>3.8705</b>	<b>5.8211</b>	<b>21.0953</b>	<b>0.0957</b>	<b>0.0955</b>	<b>0.2269</b>	<b>0.3224</b>	<b>0.0103</b>	<b>0.2269</b>	<b>0.2372</b>	<b>0.0000</b>	<b>10,871.1053</b>	<b>10,871.1053</b>	<b>0.3417</b>		<b>10,879.6471</b>

**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	0.0127	6.5800e-003	0.1175	7.1000e-004	0.1150	2.5000e-004	0.1153	0.0305	2.3000e-004	0.0307		70.4811	70.4811	5.6000e-004		70.4950
<b>Total</b>	<b>0.0127</b>	<b>6.5800e-003</b>	<b>0.1175</b>	<b>7.1000e-004</b>	<b>0.1150</b>	<b>2.5000e-004</b>	<b>0.1153</b>	<b>0.0305</b>	<b>2.3000e-004</b>	<b>0.0307</b>		<b>70.4811</b>	<b>70.4811</b>	<b>5.6000e-004</b>		<b>70.4950</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.17 Lake B - Revegetation - 2049**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5524	0.8259	2.9920	0.0135		0.0325	0.0325		0.0325	0.0325		1,538.7811	1,538.7811	0.0487		1,539.9996
<b>Total</b>	<b>0.5524</b>	<b>0.8259</b>	<b>2.9920</b>	<b>0.0135</b>	<b>0.0000</b>	<b>0.0325</b>	<b>0.0325</b>	<b>0.0000</b>	<b>0.0325</b>	<b>0.0325</b>		<b>1,538.7811</b>	<b>1,538.7811</b>	<b>0.0487</b>		<b>1,539.9996</b>

**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	9.0500e-003	4.7000e-003	0.0839	5.0000e-004	0.0822	1.8000e-004	0.0823	0.0218	1.6000e-004	0.0220		50.3437	50.3437	4.0000e-004		50.3536
<b>Total</b>	<b>9.0500e-003</b>	<b>4.7000e-003</b>	<b>0.0839</b>	<b>5.0000e-004</b>	<b>0.0822</b>	<b>1.8000e-004</b>	<b>0.0823</b>	<b>0.0218</b>	<b>1.6000e-004</b>	<b>0.0220</b>		<b>50.3437</b>	<b>50.3437</b>	<b>4.0000e-004</b>		<b>50.3536</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**3.17 Lake B - Revegetation - 2049**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5524	0.8259	2.9920	0.0135		0.0325	0.0325		0.0325	0.0325	0.0000	1,538.7811	1,538.7811	0.0487		1,539.9996
<b>Total</b>	<b>0.5524</b>	<b>0.8259</b>	<b>2.9920</b>	<b>0.0135</b>	<b>0.0000</b>	<b>0.0325</b>	<b>0.0325</b>	<b>0.0000</b>	<b>0.0325</b>	<b>0.0325</b>	<b>0.0000</b>	<b>1,538.7811</b>	<b>1,538.7811</b>	<b>0.0487</b>		<b>1,539.9996</b>

**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	9.0500e-003	4.7000e-003	0.0839	5.0000e-004	0.0822	1.8000e-004	0.0823	0.0218	1.6000e-004	0.0220		50.3437	50.3437	4.0000e-004		50.3536
<b>Total</b>	<b>9.0500e-003</b>	<b>4.7000e-003</b>	<b>0.0839</b>	<b>5.0000e-004</b>	<b>0.0822</b>	<b>1.8000e-004</b>	<b>0.0823</b>	<b>0.0218</b>	<b>1.6000e-004</b>	<b>0.0220</b>		<b>50.3437</b>	<b>50.3437</b>	<b>4.0000e-004</b>		<b>50.3536</b>

**4.0 Operational Detail - Mobile**

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.560518	0.034619	0.186702	0.100511	0.010696	0.005021	0.030533	0.061190	0.002486	0.001477	0.005168	0.000445	0.000633

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.9700e-003	2.9000e-004	0.0325	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0700	0.0700	1.8000e-004		0.0745
Unmitigated	2.9700e-003	2.9000e-004	0.0325	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0700	0.0700	1.8000e-004		0.0745

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	2.9700e-003	2.9000e-004	0.0325	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0700	0.0700	1.8000e-004		0.0745
<b>Total</b>	<b>2.9700e-003</b>	<b>2.9000e-004</b>	<b>0.0325</b>	<b>0.0000</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>0.0700</b>	<b>0.0700</b>	<b>1.8000e-004</b>		<b>0.0745</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					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	2.9700e-003	2.9000e-004	0.0325	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0700	0.0700	1.8000e-004		0.0745
<b>Total</b>	<b>2.9700e-003</b>	<b>2.9000e-004</b>	<b>0.0325</b>	<b>0.0000</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>0.0700</b>	<b>0.0700</b>	<b>1.8000e-004</b>		<b>0.0745</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Summer

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**Eliot Quarry - Lake B Reclamation Activities**  
**Alameda County, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	320.00	User Defined Unit	320.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	63
<b>Climate Zone</b>	4			<b>Operational Year</b>	2050
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

Project Characteristics - Lake B reclamation activity per Revised Reclamation Plan.

Land Use - Lake B area approximately 320 acres, bound by Vineyard Avenue to the south and Isabel Avenue to the east.

Construction Phase - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Grading - See CalEEMod modeling assumptions attachment.

Trips and VMT - See CalEEMod modeling assumptions attachment.

On-road Fugitive Dust - See CalEEMod modeling assumptions attachment.

Energy Use -

Construction Off-road Equipment Mitigation - Mitigation assumptions based on BAAQMD CEQA Guide BMPs for PM reduction.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

tblConstructionPhase	NumDays	620.00	5.00
tblConstructionPhase	NumDays	620.00	5.00
tblConstructionPhase	NumDays	620.00	3.00
tblConstructionPhase	NumDays	620.00	5.00
tblConstructionPhase	NumDays	620.00	5.00
tblConstructionPhase	NumDays	620.00	5.00
tblConstructionPhase	NumDays	620.00	80.00
tblConstructionPhase	NumDays	620.00	10.00
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tblConstructionPhase	NumDays	240.00	12.00
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tblGrading	AcresOfGrading	0.00	1.00
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tblGrading	AcresOfGrading	0.00	1.00
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tblGrading	AcresOfGrading	0.00	2.00
tblGrading	AcresOfGrading	19.50	30.00
tblGrading	AcresOfGrading	5.00	3.00
tblGrading	AcresOfGrading	50.00	5.00

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

tblGrading	MaterialImported	0.00	3,519.00
tblGrading	MaterialImported	0.00	900.00
tblLandUse	LotAcreage	0.00	320.00
tblOffRoadEquipment	HorsePower	367.00	407.00
tblOffRoadEquipment	HorsePower	367.00	570.00
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tblOffRoadEquipment	HorsePower	158.00	396.00
tblOffRoadEquipment	HorsePower	158.00	303.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	187.00	238.00

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	187.00	238.00
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tblOffRoadEquipment	HorsePower	247.00	600.00
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tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
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tblOffRoadEquipment	LoadFactor	0.38	0.38
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tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38



Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
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tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
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tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
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tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
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tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00





Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

tblOffRoadEquipment	UsageHours	8.00	0.00
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tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
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tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblTripsAndVMT	HaulingTripLength	20.00	4.00
tblTripsAndVMT	HaulingTripNumber	440.00	464.00
tblTripsAndVMT	HaulingTripNumber	113.00	144.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00
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tblTripsAndVMT	WorkerTripNumber	3.00	10.00
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Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

tblTripsAndVMT	WorkerTripNumber	15.00	14.00
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tblTripsAndVMT	WorkerTripNumber	13.00	12.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	10.0711	109.3086	66.5571	0.1886	9.2461	4.0390	11.7493	3.6971	3.7159	7.2446	0.0000	18,267.6235	18,267.6235	5.8479	0.0000	18,413.8198
2028	3.4337	30.8523	29.8582	0.0767	56.2352	1.2348	56.6553	5.7051	1.1360	6.0918	0.0000	7,425.5453	7,425.5453	2.3612	0.0000	7,484.5744
2030	1.9900	4.6572	11.4727	0.0512	0.3735	0.1538	0.5273	0.0660	0.1537	0.2198	0.0000	5,559.5128	5,559.5128	0.1764	0.0000	5,563.9213
2049	3.8847	6.2400	21.1993	0.0963	85.5662	0.2271	85.6549	8.6400	0.2271	8.7284	0.0000	10,935.9105	10,935.9105	0.3422	0.0000	10,944.4646
<b>Maximum</b>	<b>10.0711</b>	<b>109.3086</b>	<b>66.5571</b>	<b>0.1886</b>	<b>85.5662</b>	<b>4.0390</b>	<b>85.6549</b>	<b>8.6400</b>	<b>3.7159</b>	<b>8.7284</b>	<b>0.0000</b>	<b>18,267.6235</b>	<b>18,267.6235</b>	<b>5.8479</b>	<b>0.0000</b>	<b>18,413.8198</b>



Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.9700e-003	2.9000e-004	0.0325	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0700	0.0700	1.8000e-004		0.0745
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
<b>Total</b>	<b>2.9700e-003</b>	<b>2.9000e-004</b>	<b>0.0325</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>0.0700</b>	<b>0.0700</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.0745</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.9700e-003	2.9000e-004	0.0325	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0700	0.0700	1.8000e-004		0.0745
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
<b>Total</b>	<b>2.9700e-003</b>	<b>2.9000e-004</b>	<b>0.0325</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>0.0700</b>	<b>0.0700</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.0745</b>



## Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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	Lake B - Realign ADV (1)	Site Preparation	4/4/2022	4/29/2022	5	20	Install pumps for low flow diversion
2	Lake B - Realign ADV (2)	Grading	5/2/2022	5/6/2022	5	5	Repair breach at quarry ponds
3	Lake B - Realign ADV (3)	Grading	5/9/2022	8/26/2022	5	80	Backfill and rough grade new ADV channel
4	Lake B - Realign ADV (4)	Grading	8/29/2022	9/9/2022	5	10	Cut low flow
5	Lake B - Realign ADV (5)	Grading	8/29/2022	9/14/2022	5	13	Fine grade
6	Lake B - ADV Berms	Grading	8/29/2022	9/9/2022	5	10	Install berms along ADV
7	Lake B - Realign ADV (6)	Site Preparation	9/15/2022	10/12/2022	5	20	Landscaping and revegetation
8	Lake B - Realign ADV (7)	Site Preparation	10/13/2022	10/28/2022	5	12	Remove pumps
9	Lake B - Pedestrian and Bike Trail (1)	Grading	5/1/2028	5/26/2028	5	20	Grading and drainage improvements
10	Lake B - Pedestrian and Bike Trail (2)	Grading	5/27/2028	6/2/2028	5	5	Paving and striping
11	Lake B - Pedestrian and Bike Trail (3)	Site Preparation	10/1/2028	10/13/2028	5	10	Landscaping and revegetation
12	Lake B - Lake B to C Conduit	Grading	6/1/2030	6/6/2030	5	5	Install pipe conduit to Lake C
13	Lake B - Overflow Outlet to ADV (1)	Grading	5/3/2049	5/5/2049	5	3	Finegrade and build access ramp
14	Lake B - Overflow Outlet to ADV (2)	Grading	5/6/2049	5/12/2049	5	5	Place rip rap
15	Lake B - Sharks Fin Drainage Notch	Grading	5/13/2049	5/19/2049	5	5	Cut drainage notch and haul dirt
16	Lake B - Revegetation	Site Preparation	10/4/2049	10/8/2049	5	5	Revegetation of slopes and perimeter

Acres of Grading (Site Preparation Phase): 0

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Lake B - Pedestrian and Bike Trail (2)	Excavators	0	0.00	158	0.38
Lake B - Lake B to C Conduit	Excavators	1	8.00	396	0.38
Lake B - Overflow Outlet to ADV (1)	Excavators	1	8.00	396	0.38
Lake B - Overflow Outlet to ADV (2)	Excavators	1	8.00	396	0.38
Lake B - Sharks Fin Drainage Notch	Excavators	1	8.00	396	0.38
Lake B - Realign ADV (2)	Excavators	0	0.00	158	0.38
Lake B - Realign ADV (3)	Excavators	0	0.00	158	0.38
Lake B - Realign ADV (4)	Excavators	1	8.00	303	0.38
Lake B - Realign ADV (5)	Excavators	0	0.00	158	0.38
Lake B - ADV Berms	Excavators	0	0.00	158	0.38
Lake B - Pedestrian and Bike Trail (1)	Excavators	2	8.00	158	0.38
Lake B - Pedestrian and Bike Trail (2)	Graders	0	0.00	187	0.41
Lake B - Lake B to C Conduit	Graders	0	0.00	187	0.41
Lake B - Overflow Outlet to ADV (1)	Graders	0	0.00	187	0.41
Lake B - Overflow Outlet to ADV (2)	Graders	0	0.00	187	0.41
Lake B - Sharks Fin Drainage Notch	Graders	0	0.00	187	0.41
Lake B - Realign ADV (2)	Graders	1	8.00	238	0.41
Lake B - Realign ADV (3)	Graders	1	8.00	238	0.41
Lake B - Realign ADV (4)	Graders	0	0.00	187	0.41
Lake B - Realign ADV (5)	Graders	1	8.00	238	0.41

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

Lake B - ADV Berms	Graders	1	8.00	238	0.41
Lake B - Pedestrian and Bike Trail (1)	Graders	1	8.00	187	0.41
Lake B - Pedestrian and Bike Trail (2)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Lake B to C Conduit	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Overflow Outlet to ADV (1)	Rubber Tired Dozers	1	8.00	600	0.40
Lake B - Overflow Outlet to ADV (2)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Sharks Fin Drainage Notch	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Realign ADV (2)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Realign ADV (3)	Rubber Tired Dozers	1	8.00	600	0.40
Lake B - Realign ADV (4)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Realign ADV (5)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - ADV Berms	Rubber Tired Dozers	1	8.00	303	0.40
Lake B - Pedestrian and Bike Trail (1)	Rubber Tired Dozers	1	8.00	247	0.40
Lake B - Realign ADV (1)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Pedestrian and Bike Trail (3)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Revegetation	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Realign ADV (6)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Realign ADV (7)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Pedestrian and Bike Trail (2)	Scrapers	0	0.00	367	0.48
Lake B - Lake B to C Conduit	Scrapers	0	0.00	367	0.48
Lake B - Overflow Outlet to ADV (1)	Scrapers	0	0.00	367	0.48
Lake B - Overflow Outlet to ADV (2)	Scrapers	0	0.00	367	0.48
Lake B - Sharks Fin Drainage Notch	Scrapers	0	0.00	367	0.48
Lake B - Realign ADV (2)	Scrapers	1	8.00	407	0.48
Lake B - Realign ADV (3)	Scrapers	4	8.00	570	0.48
Lake B - Realign ADV (4)	Scrapers	0	0.00	367	0.48
Lake B - Realign ADV (5)	Scrapers	1	8.00	407	0.48

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

Lake B - ADV Berms	Scrapers	0	0.00	367	0.48
Lake B - Pedestrian and Bike Trail (1)	Scrapers	2	8.00	367	0.48
Lake B - Pedestrian and Bike Trail (2)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - Lake B to C Conduit	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake B - Overflow Outlet to ADV (1)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake B - Overflow Outlet to ADV (2)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake B - Sharks Fin Drainage Notch	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - Realign ADV (2)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - Realign ADV (3)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - Realign ADV (4)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - Realign ADV (5)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - ADV Berms	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake B - Pedestrian and Bike Trail (1)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Lake B - Realign ADV (1)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake B - Pedestrian and Bike Trail (3)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - Revegetation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - Realign ADV (6)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake B - Realign ADV (7)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - Realign ADV (1)	Excavators	1	8.00	396	0.38
Lake B - Realign ADV (2)	Rollers	1	8.00	248	0.38
Lake B - Realign ADV (2)	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Realign ADV (3)	Rubber Tired Dozers	1	8.00	303	0.40
Lake B - Realign ADV (3)	Rollers	1	8.00	405	0.38
Lake B - Realign ADV (3)	Off-Highway Trucks	3	8.00	402	0.38
Lake B - Realign ADV (4)	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Realign ADV (5)	Off-Highway Trucks	1	8.00	402	0.38
Lake B - ADV Berms	Rollers	1	8.00	405	0.38

## Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

Lake B - ADV Berms	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Realign ADV (6)	Excavators	1	8.00	396	0.38
Lake B - Realign ADV (7)	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Pedestrian and Bike Trail (1)	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Pedestrian and Bike Trail (2)	Pavers	2	8.00	130	0.42
Lake B - Pedestrian and Bike Trail (2)	Paving Equipment	2	8.00	132	0.36
Lake B - Pedestrian and Bike Trail (2)	Rollers	2	8.00	80	0.38
Lake B - Pedestrian and Bike Trail (3)	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Lake B to C Conduit	Excavators	1	8.00	303	0.38
Lake B - Lake B to C Conduit	Forklifts	1	8.00	89	0.20
Lake B - Lake B to C Conduit	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Overflow Outlet to ADV (1)	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Overflow Outlet to ADV (2)	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Sharks Fin Drainage Notch	Off-Highway Trucks	4	8.00	511	0.38
Lake B - Sharks Fin Drainage Notch	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Revegetation	Off-Highway Trucks	1	8.00	402	0.38

**Trips and VMT**

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

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
Lake B - Realign ADV (1)	2	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Pedestrian and Bike Trail (2)	6	20.00	0.00	464.00	10.80	7.30	4.00	LD_Mix	HDT_Mix	HHDT
Lake B - Pedestrian and Bike Trail (3)	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Lake B to C Conduit	5	18.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Overflow Outlet to ADV (1)	4	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Overflow Outlet to ADV (2)	3	12.00	0.00	144.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Sharks Fin Drainage Notch	6	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Revegetation	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Realign ADV (2)	4	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Realign ADV (3)	11	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Realign ADV (4)	2	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Realign ADV (5)	3	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - ADV Berms	5	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Realign ADV (6)	2	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Realign ADV (7)	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Pedestrian and Bike Trail (1)	9	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.2 Lake B - Realign ADV (1) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6300	5.3617	5.1365	0.0217		0.1885	0.1885		0.1734	0.1734		2,098.0229	2,098.0229	0.6785		2,114.9865
<b>Total</b>	<b>0.6300</b>	<b>5.3617</b>	<b>5.1365</b>	<b>0.0217</b>	<b>0.0000</b>	<b>0.1885</b>	<b>0.1885</b>	<b>0.0000</b>	<b>0.1734</b>	<b>0.1734</b>		<b>2,098.0229</b>	<b>2,098.0229</b>	<b>0.6785</b>		<b>2,114.9865</b>

**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	5.9800e-003	0.2026	0.0459	5.3000e-004	0.0136	3.9000e-004	0.0140	3.9000e-003	3.8000e-004	4.2800e-003		56.2618	56.2618	3.2000e-003		56.3418
Worker	0.0328	0.0224	0.2241	7.2000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		71.5001	71.5001	1.6000e-003		71.5401
<b>Total</b>	<b>0.0387</b>	<b>0.2250</b>	<b>0.2700</b>	<b>1.2500e-003</b>	<b>0.0957</b>	<b>9.1000e-004</b>	<b>0.0966</b>	<b>0.0257</b>	<b>8.6000e-004</b>	<b>0.0266</b>		<b>127.7619</b>	<b>127.7619</b>	<b>4.8000e-003</b>		<b>127.8819</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.2 Lake B - Realign ADV (1) - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6300	5.3617	5.1365	0.0217		0.1885	0.1885		0.1734	0.1734	0.0000	2,098.0229	2,098.0229	0.6785		2,114.9865
<b>Total</b>	<b>0.6300</b>	<b>5.3617</b>	<b>5.1365</b>	<b>0.0217</b>	<b>0.0000</b>	<b>0.1885</b>	<b>0.1885</b>	<b>0.0000</b>	<b>0.1734</b>	<b>0.1734</b>	<b>0.0000</b>	<b>2,098.0229</b>	<b>2,098.0229</b>	<b>0.6785</b>		<b>2,114.9865</b>

**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	5.9800e-003	0.2026	0.0459	5.3000e-004	0.0136	3.9000e-004	0.0140	3.9000e-003	3.8000e-004	4.2800e-003		56.2618	56.2618	3.2000e-003		56.3418
Worker	0.0328	0.0224	0.2241	7.2000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		71.5001	71.5001	1.6000e-003		71.5401
<b>Total</b>	<b>0.0387</b>	<b>0.2250</b>	<b>0.2700</b>	<b>1.2500e-003</b>	<b>0.0957</b>	<b>9.1000e-004</b>	<b>0.0966</b>	<b>0.0257</b>	<b>8.6000e-004</b>	<b>0.0266</b>		<b>127.7619</b>	<b>127.7619</b>	<b>4.8000e-003</b>		<b>127.8819</b>



Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.3 Lake B - Realign ADV (2) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2121	0.0000	0.2121	0.0229	0.0000	0.0229			0.0000			0.0000
Off-Road	2.2738	24.2730	14.6532	0.0466		0.8728	0.8728		0.8030	0.8030		4,509.1870	4,509.1870	1.4584		4,545.6461
<b>Total</b>	<b>2.2738</b>	<b>24.2730</b>	<b>14.6532</b>	<b>0.0466</b>	<b>0.2121</b>	<b>0.8728</b>	<b>1.0849</b>	<b>0.0229</b>	<b>0.8030</b>	<b>0.8259</b>		<b>4,509.1870</b>	<b>4,509.1870</b>	<b>1.4584</b>		<b>4,545.6461</b>

**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	0.0459	0.0313	0.3137	1.0000e-003	0.1150	7.2000e-004	0.1157	0.0305	6.7000e-004	0.0312		100.1001	100.1001	2.2400e-003		100.1562
<b>Total</b>	<b>0.0459</b>	<b>0.0313</b>	<b>0.3137</b>	<b>1.0000e-003</b>	<b>0.1150</b>	<b>7.2000e-004</b>	<b>0.1157</b>	<b>0.0305</b>	<b>6.7000e-004</b>	<b>0.0312</b>		<b>100.1001</b>	<b>100.1001</b>	<b>2.2400e-003</b>		<b>100.1562</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.3 Lake B - Realign ADV (2) - 2022**

**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					0.0955	0.0000	0.0955	0.0103	0.0000	0.0103			0.0000			0.0000
Off-Road	2.2738	24.2730	14.6532	0.0466		0.8728	0.8728		0.8030	0.8030	0.0000	4,509.1870	4,509.1870	1.4584		4,545.6461
<b>Total</b>	<b>2.2738</b>	<b>24.2730</b>	<b>14.6532</b>	<b>0.0466</b>	<b>0.0955</b>	<b>0.8728</b>	<b>0.9682</b>	<b>0.0103</b>	<b>0.8030</b>	<b>0.8133</b>	<b>0.0000</b>	<b>4,509.1870</b>	<b>4,509.1870</b>	<b>1.4584</b>		<b>4,545.6461</b>

**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	0.0459	0.0313	0.3137	1.0000e-003	0.1150	7.2000e-004	0.1157	0.0305	6.7000e-004	0.0312		100.1001	100.1001	2.2400e-003		100.1562
<b>Total</b>	<b>0.0459</b>	<b>0.0313</b>	<b>0.3137</b>	<b>1.0000e-003</b>	<b>0.1150</b>	<b>7.2000e-004</b>	<b>0.1157</b>	<b>0.0305</b>	<b>6.7000e-004</b>	<b>0.0312</b>		<b>100.1001</b>	<b>100.1001</b>	<b>2.2400e-003</b>		<b>100.1562</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.4 Lake B - Realign ADV (3) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.4803	0.0000	7.4803	3.4677	0.0000	3.4677			0.0000			0.0000
Off-Road	9.9794	109.2460	65.9297	0.1866		4.0376	4.0376		3.7146	3.7146		18,067.42 32	18,067.42 32	5.8434		18,213.50 74
<b>Total</b>	<b>9.9794</b>	<b>109.2460</b>	<b>65.9297</b>	<b>0.1866</b>	<b>7.4803</b>	<b>4.0376</b>	<b>11.5179</b>	<b>3.4677</b>	<b>3.7146</b>	<b>7.1823</b>		<b>18,067.42 32</b>	<b>18,067.42 32</b>	<b>5.8434</b>		<b>18,213.50 74</b>

**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	0.0917	0.0626	0.6274	2.0100e-003	0.2300	1.4500e-003	0.2315	0.0610	1.3400e-003	0.0624		200.2003	200.2003	4.4800e-003		200.3123
<b>Total</b>	<b>0.0917</b>	<b>0.0626</b>	<b>0.6274</b>	<b>2.0100e-003</b>	<b>0.2300</b>	<b>1.4500e-003</b>	<b>0.2315</b>	<b>0.0610</b>	<b>1.3400e-003</b>	<b>0.0624</b>		<b>200.2003</b>	<b>200.2003</b>	<b>4.4800e-003</b>		<b>200.3123</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.4 Lake B - Realign ADV (3) - 2022**

**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					3.3661	0.0000	3.3661	1.5605	0.0000	1.5605			0.0000			0.0000
Off-Road	9.9794	109.2460	65.9297	0.1866		4.0376	4.0376		3.7146	3.7146	0.0000	18,067.42 32	18,067.42 32	5.8434		18,213.50 74
<b>Total</b>	<b>9.9794</b>	<b>109.2460</b>	<b>65.9297</b>	<b>0.1866</b>	<b>3.3661</b>	<b>4.0376</b>	<b>7.4037</b>	<b>1.5605</b>	<b>3.7146</b>	<b>5.2750</b>	<b>0.0000</b>	<b>18,067.42 32</b>	<b>18,067.42 32</b>	<b>5.8434</b>		<b>18,213.50 74</b>

**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	0.0917	0.0626	0.6274	2.0100e-003	0.2300	1.4500e-003	0.2315	0.0610	1.3400e-003	0.0624		200.2003	200.2003	4.4800e-003		200.3123
<b>Total</b>	<b>0.0917</b>	<b>0.0626</b>	<b>0.6274</b>	<b>2.0100e-003</b>	<b>0.2300</b>	<b>1.4500e-003</b>	<b>0.2315</b>	<b>0.0610</b>	<b>1.3400e-003</b>	<b>0.0624</b>		<b>200.2003</b>	<b>200.2003</b>	<b>4.4800e-003</b>		<b>200.3123</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.5 Lake B - Realign ADV (4) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2121	0.0000	0.2121	0.0229	0.0000	0.0229			0.0000			0.0000
Off-Road	0.7909	6.1455	5.5306	0.0231		0.2176	0.2176		0.2002	0.2002		2,239.2317	2,239.2317	0.7242		2,257.3370
<b>Total</b>	<b>0.7909</b>	<b>6.1455</b>	<b>5.5306</b>	<b>0.0231</b>	<b>0.2121</b>	<b>0.2176</b>	<b>0.4297</b>	<b>0.0229</b>	<b>0.2002</b>	<b>0.2231</b>		<b>2,239.2317</b>	<b>2,239.2317</b>	<b>0.7242</b>		<b>2,257.3370</b>

**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	0.0197	0.0134	0.1344	4.3000e-004	0.0493	3.1000e-004	0.0496	0.0131	2.9000e-004	0.0134		42.9001	42.9001	9.6000e-004		42.9241
<b>Total</b>	<b>0.0197</b>	<b>0.0134</b>	<b>0.1344</b>	<b>4.3000e-004</b>	<b>0.0493</b>	<b>3.1000e-004</b>	<b>0.0496</b>	<b>0.0131</b>	<b>2.9000e-004</b>	<b>0.0134</b>		<b>42.9001</b>	<b>42.9001</b>	<b>9.6000e-004</b>		<b>42.9241</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.5 Lake B - Realign ADV (4) - 2022**

**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					0.0955	0.0000	0.0955	0.0103	0.0000	0.0103			0.0000			0.0000
Off-Road	0.7909	6.1455	5.5306	0.0231		0.2176	0.2176		0.2002	0.2002	0.0000	2,239.2317	2,239.2317	0.7242		2,257.3370
<b>Total</b>	<b>0.7909</b>	<b>6.1455</b>	<b>5.5306</b>	<b>0.0231</b>	<b>0.0955</b>	<b>0.2176</b>	<b>0.3130</b>	<b>0.0103</b>	<b>0.2002</b>	<b>0.2105</b>	<b>0.0000</b>	<b>2,239.2317</b>	<b>2,239.2317</b>	<b>0.7242</b>		<b>2,257.3370</b>

**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	0.0197	0.0134	0.1344	4.3000e-004	0.0493	3.1000e-004	0.0496	0.0131	2.9000e-004	0.0134		42.9001	42.9001	9.6000e-004		42.9241
<b>Total</b>	<b>0.0197</b>	<b>0.0134</b>	<b>0.1344</b>	<b>4.3000e-004</b>	<b>0.0493</b>	<b>3.1000e-004</b>	<b>0.0496</b>	<b>0.0131</b>	<b>2.9000e-004</b>	<b>0.0134</b>		<b>42.9001</b>	<b>42.9001</b>	<b>9.6000e-004</b>		<b>42.9241</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.6 Lake B - Realign ADV (5) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4473	0.0000	2.4473	0.2643	0.0000	0.2643			0.0000			0.0000
Off-Road	1.9678	20.6435	12.6376	0.0386		0.7467	0.7467		0.6869	0.6869		3,732.097 3	3,732.097 3	1.2070		3,762.273 2
<b>Total</b>	<b>1.9678</b>	<b>20.6435</b>	<b>12.6376</b>	<b>0.0386</b>	<b>2.4473</b>	<b>0.7467</b>	<b>3.1940</b>	<b>0.2643</b>	<b>0.6869</b>	<b>0.9512</b>		<b>3,732.097 3</b>	<b>3,732.097 3</b>	<b>1.2070</b>		<b>3,762.273 2</b>

**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	0.0393	0.0268	0.2689	8.6000e-004	0.0986	6.2000e-004	0.0992	0.0262	5.7000e-004	0.0267		85.8001	85.8001	1.9200e-003		85.8481
<b>Total</b>	<b>0.0393</b>	<b>0.0268</b>	<b>0.2689</b>	<b>8.6000e-004</b>	<b>0.0986</b>	<b>6.2000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.7000e-004</b>	<b>0.0267</b>		<b>85.8001</b>	<b>85.8001</b>	<b>1.9200e-003</b>		<b>85.8481</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.6 Lake B - Realign ADV (5) - 2022**

**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					1.1013	0.0000	1.1013	0.1189	0.0000	0.1189			0.0000			0.0000
Off-Road	1.9678	20.6435	12.6376	0.0386		0.7467	0.7467		0.6869	0.6869	0.0000	3,732.097 3	3,732.097 3	1.2070		3,762.273 2
<b>Total</b>	<b>1.9678</b>	<b>20.6435</b>	<b>12.6376</b>	<b>0.0386</b>	<b>1.1013</b>	<b>0.7467</b>	<b>1.8480</b>	<b>0.1189</b>	<b>0.6869</b>	<b>0.8058</b>	<b>0.0000</b>	<b>3,732.097 3</b>	<b>3,732.097 3</b>	<b>1.2070</b>		<b>3,762.273 2</b>

**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	0.0393	0.0268	0.2689	8.6000e-004	0.0986	6.2000e-004	0.0992	0.0262	5.7000e-004	0.0267		85.8001	85.8001	1.9200e-003		85.8481
<b>Total</b>	<b>0.0393</b>	<b>0.0268</b>	<b>0.2689</b>	<b>8.6000e-004</b>	<b>0.0986</b>	<b>6.2000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.7000e-004</b>	<b>0.0267</b>		<b>85.8001</b>	<b>85.8001</b>	<b>1.9200e-003</b>		<b>85.8481</b>



Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.7 Lake B - ADV Berms - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3402	0.0000	6.3402	3.3446	0.0000	3.3446			0.0000			0.0000
Off-Road	2.9466	30.1924	21.4378	0.0543		1.1853	1.1853		1.0905	1.0905		5,254.9934	5,254.9934	1.6996		5,297.4827
<b>Total</b>	<b>2.9466</b>	<b>30.1924</b>	<b>21.4378</b>	<b>0.0543</b>	<b>6.3402</b>	<b>1.1853</b>	<b>7.5256</b>	<b>3.3446</b>	<b>1.0905</b>	<b>4.4351</b>		<b>5,254.9934</b>	<b>5,254.9934</b>	<b>1.6996</b>		<b>5,297.4827</b>

**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	0.0393	0.0268	0.2689	8.6000e-004	0.0986	6.2000e-004	0.0992	0.0262	5.7000e-004	0.0267		85.8001	85.8001	1.9200e-003		85.8481
<b>Total</b>	<b>0.0393</b>	<b>0.0268</b>	<b>0.2689</b>	<b>8.6000e-004</b>	<b>0.0986</b>	<b>6.2000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.7000e-004</b>	<b>0.0267</b>		<b>85.8001</b>	<b>85.8001</b>	<b>1.9200e-003</b>		<b>85.8481</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.7 Lake B - ADV Berms - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8531	0.0000	2.8531	1.5051	0.0000	1.5051			0.0000			0.0000
Off-Road	2.9466	30.1924	21.4378	0.0543		1.1853	1.1853		1.0905	1.0905	0.0000	5,254.9934	5,254.9934	1.6996		5,297.4827
<b>Total</b>	<b>2.9466</b>	<b>30.1924</b>	<b>21.4378</b>	<b>0.0543</b>	<b>2.8531</b>	<b>1.1853</b>	<b>4.0385</b>	<b>1.5051</b>	<b>1.0905</b>	<b>2.5956</b>	<b>0.0000</b>	<b>5,254.9934</b>	<b>5,254.9934</b>	<b>1.6996</b>		<b>5,297.4827</b>

**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	0.0393	0.0268	0.2689	8.6000e-004	0.0986	6.2000e-004	0.0992	0.0262	5.7000e-004	0.0267		85.8001	85.8001	1.9200e-003		85.8481
<b>Total</b>	<b>0.0393</b>	<b>0.0268</b>	<b>0.2689</b>	<b>8.6000e-004</b>	<b>0.0986</b>	<b>6.2000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>5.7000e-004</b>	<b>0.0267</b>		<b>85.8001</b>	<b>85.8001</b>	<b>1.9200e-003</b>		<b>85.8481</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.8 Lake B - Realignment ADV (6) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6300	5.3617	5.1365	0.0217		0.1885	0.1885		0.1734	0.1734		2,098.0229	2,098.0229	0.6785		2,114.9865
<b>Total</b>	<b>0.6300</b>	<b>5.3617</b>	<b>5.1365</b>	<b>0.0217</b>	<b>0.0000</b>	<b>0.1885</b>	<b>0.1885</b>	<b>0.0000</b>	<b>0.1734</b>	<b>0.1734</b>		<b>2,098.0229</b>	<b>2,098.0229</b>	<b>0.6785</b>		<b>2,114.9865</b>

**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	5.9800e-003	0.2026	0.0459	5.3000e-004	0.0136	3.9000e-004	0.0140	3.9000e-003	3.8000e-004	4.2800e-003		56.2618	56.2618	3.2000e-003		56.3418
Worker	0.0328	0.0224	0.2241	7.2000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		71.5001	71.5001	1.6000e-003		71.5401
<b>Total</b>	<b>0.0387</b>	<b>0.2250</b>	<b>0.2700</b>	<b>1.2500e-003</b>	<b>0.0957</b>	<b>9.1000e-004</b>	<b>0.0966</b>	<b>0.0257</b>	<b>8.6000e-004</b>	<b>0.0266</b>		<b>127.7619</b>	<b>127.7619</b>	<b>4.8000e-003</b>		<b>127.8819</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.8 Lake B - Realignment ADV (6) - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6300	5.3617	5.1365	0.0217		0.1885	0.1885		0.1734	0.1734	0.0000	2,098.0229	2,098.0229	0.6785		2,114.9865
<b>Total</b>	<b>0.6300</b>	<b>5.3617</b>	<b>5.1365</b>	<b>0.0217</b>	<b>0.0000</b>	<b>0.1885</b>	<b>0.1885</b>	<b>0.0000</b>	<b>0.1734</b>	<b>0.1734</b>	<b>0.0000</b>	<b>2,098.0229</b>	<b>2,098.0229</b>	<b>0.6785</b>		<b>2,114.9865</b>

**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	5.9800e-003	0.2026	0.0459	5.3000e-004	0.0136	3.9000e-004	0.0140	3.9000e-003	3.8000e-004	4.2800e-003		56.2618	56.2618	3.2000e-003		56.3418
Worker	0.0328	0.0224	0.2241	7.2000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		71.5001	71.5001	1.6000e-003		71.5401
<b>Total</b>	<b>0.0387</b>	<b>0.2250</b>	<b>0.2700</b>	<b>1.2500e-003</b>	<b>0.0957</b>	<b>9.1000e-004</b>	<b>0.0966</b>	<b>0.0257</b>	<b>8.6000e-004</b>	<b>0.0266</b>		<b>127.7619</b>	<b>127.7619</b>	<b>4.8000e-003</b>		<b>127.8819</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.9 Lake B - Realign ADV (7) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5311	4.0338	3.3755	0.0133		0.1467	0.1467		0.1350	0.1350		1,285.380 2	1,285.380 2	0.4157		1,295.773 2
<b>Total</b>	<b>0.5311</b>	<b>4.0338</b>	<b>3.3755</b>	<b>0.0133</b>	<b>0.0000</b>	<b>0.1467</b>	<b>0.1467</b>	<b>0.0000</b>	<b>0.1350</b>	<b>0.1350</b>		<b>1,285.380 2</b>	<b>1,285.380 2</b>	<b>0.4157</b>		<b>1,295.773 2</b>

**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	0.0328	0.0224	0.2241	7.2000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		71.5001	71.5001	1.6000e-003		71.5401
<b>Total</b>	<b>0.0328</b>	<b>0.0224</b>	<b>0.2241</b>	<b>7.2000e-004</b>	<b>0.0822</b>	<b>5.2000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.8000e-004</b>	<b>0.0223</b>		<b>71.5001</b>	<b>71.5001</b>	<b>1.6000e-003</b>		<b>71.5401</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.9 Lake B - Realign ADV (7) - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5311	4.0338	3.3755	0.0133		0.1467	0.1467		0.1350	0.1350	0.0000	1,285.380 2	1,285.380 2	0.4157		1,295.773 2
<b>Total</b>	<b>0.5311</b>	<b>4.0338</b>	<b>3.3755</b>	<b>0.0133</b>	<b>0.0000</b>	<b>0.1467</b>	<b>0.1467</b>	<b>0.0000</b>	<b>0.1350</b>	<b>0.1350</b>	<b>0.0000</b>	<b>1,285.380 2</b>	<b>1,285.380 2</b>	<b>0.4157</b>		<b>1,295.773 2</b>

**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	0.0328	0.0224	0.2241	7.2000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		71.5001	71.5001	1.6000e-003		71.5401
<b>Total</b>	<b>0.0328</b>	<b>0.0224</b>	<b>0.2241</b>	<b>7.2000e-004</b>	<b>0.0822</b>	<b>5.2000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.8000e-004</b>	<b>0.0223</b>		<b>71.5001</b>	<b>71.5001</b>	<b>1.6000e-003</b>		<b>71.5401</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.10 Lake B - Pedestrian and Bike Trail (1) - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2872	0.0000	6.2872	3.3389	0.0000	3.3389			0.0000			0.0000
Off-Road	3.3812	30.8233	29.5325	0.0754		1.2338	1.2338		1.1351	1.1351		7,294.3552	7,294.3552	2.3591		7,353.3338
<b>Total</b>	<b>3.3812</b>	<b>30.8233</b>	<b>29.5325</b>	<b>0.0754</b>	<b>6.2872</b>	<b>1.2338</b>	<b>7.5211</b>	<b>3.3389</b>	<b>1.1351</b>	<b>4.4740</b>		<b>7,294.3552</b>	<b>7,294.3552</b>	<b>2.3591</b>		<b>7,353.3338</b>

**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	0.0525	0.0290	0.3258	1.3100e-003	0.1889	9.6000e-004	0.1899	0.0501	8.8000e-004	0.0510		131.1901	131.1901	2.0200e-003		131.2406
<b>Total</b>	<b>0.0525</b>	<b>0.0290</b>	<b>0.3258</b>	<b>1.3100e-003</b>	<b>0.1889</b>	<b>9.6000e-004</b>	<b>0.1899</b>	<b>0.0501</b>	<b>8.8000e-004</b>	<b>0.0510</b>		<b>131.1901</b>	<b>131.1901</b>	<b>2.0200e-003</b>		<b>131.2406</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.10 Lake B - Pedestrian and Bike Trail (1) - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8293	0.0000	2.8293	1.5025	0.0000	1.5025			0.0000			0.0000
Off-Road	3.3812	30.8233	29.5325	0.0754		1.2338	1.2338		1.1351	1.1351	0.0000	7,294.355 2	7,294.355 2	2.3591		7,353.333 8
<b>Total</b>	<b>3.3812</b>	<b>30.8233</b>	<b>29.5325</b>	<b>0.0754</b>	<b>2.8293</b>	<b>1.2338</b>	<b>4.0631</b>	<b>1.5025</b>	<b>1.1351</b>	<b>2.6376</b>	<b>0.0000</b>	<b>7,294.355 2</b>	<b>7,294.355 2</b>	<b>2.3591</b>		<b>7,353.333 8</b>

**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	0.0525	0.0290	0.3258	1.3100e-003	0.1889	9.6000e-004	0.1899	0.0501	8.8000e-004	0.0510		131.1901	131.1901	2.0200e-003		131.2406
<b>Total</b>	<b>0.0525</b>	<b>0.0290</b>	<b>0.3258</b>	<b>1.3100e-003</b>	<b>0.1889</b>	<b>9.6000e-004</b>	<b>0.1899</b>	<b>0.0501</b>	<b>8.8000e-004</b>	<b>0.0510</b>		<b>131.1901</b>	<b>131.1901</b>	<b>2.0200e-003</b>		<b>131.2406</b>



Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.11 Lake B - Pedestrian and Bike Trail (2) - 2028**

**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					1.1401	0.0000	1.1401	0.1266	0.0000	0.1266			0.0000			0.0000
Off-Road	0.9039	8.4761	14.3986	0.0225		0.4134	0.4134		0.3803	0.3803		2,179.6260	2,179.6260	0.7049		2,197.2494
<b>Total</b>	<b>0.9039</b>	<b>8.4761</b>	<b>14.3986</b>	<b>0.0225</b>	<b>1.1401</b>	<b>0.4134</b>	<b>1.5535</b>	<b>0.1266</b>	<b>0.3803</b>	<b>0.5069</b>		<b>2,179.6260</b>	<b>2,179.6260</b>	<b>0.7049</b>		<b>2,197.2494</b>

**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	0.1721	8.2352	1.5169	0.0197	54.9308	5.9000e-003	54.9367	5.5350	5.6500e-003	5.5406		2,105.5417	2,105.5417	0.1774		2,109.9753
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	0.0457	0.0252	0.2833	1.1400e-003	0.1643	8.3000e-004	0.1651	0.0436	7.7000e-004	0.0444		114.0783	114.0783	1.7600e-003		114.1223
<b>Total</b>	<b>0.2178</b>	<b>8.2604</b>	<b>1.8002</b>	<b>0.0209</b>	<b>55.0951</b>	<b>6.7300e-003</b>	<b>55.1018</b>	<b>5.5785</b>	<b>6.4200e-003</b>	<b>5.5849</b>		<b>2,219.6200</b>	<b>2,219.6200</b>	<b>0.1791</b>		<b>2,224.0976</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.11 Lake B - Pedestrian and Bike Trail (2) - 2028**

**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					0.5130	0.0000	0.5130	0.0570	0.0000	0.0570			0.0000			0.0000
Off-Road	0.9039	8.4761	14.3986	0.0225		0.4134	0.4134		0.3803	0.3803	0.0000	2,179.6260	2,179.6260	0.7049		2,197.2494
<b>Total</b>	<b>0.9039</b>	<b>8.4761</b>	<b>14.3986</b>	<b>0.0225</b>	<b>0.5130</b>	<b>0.4134</b>	<b>0.9264</b>	<b>0.0570</b>	<b>0.3803</b>	<b>0.4372</b>	<b>0.0000</b>	<b>2,179.6260</b>	<b>2,179.6260</b>	<b>0.7049</b>		<b>2,197.2494</b>

**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	0.1721	8.2352	1.5169	0.0197	33.7485	5.9000e-003	33.7544	3.4167	5.6500e-003	3.4224		2,105.5417	2,105.5417	0.1774		2,109.9753
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	0.0457	0.0252	0.2833	1.1400e-003	0.1643	8.3000e-004	0.1651	0.0436	7.7000e-004	0.0444		114.0783	114.0783	1.7600e-003		114.1223
<b>Total</b>	<b>0.2178</b>	<b>8.2604</b>	<b>1.8002</b>	<b>0.0209</b>	<b>33.9128</b>	<b>6.7300e-003</b>	<b>33.9195</b>	<b>3.4603</b>	<b>6.4200e-003</b>	<b>3.4667</b>		<b>2,219.6200</b>	<b>2,219.6200</b>	<b>0.1791</b>		<b>2,224.0976</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.12 Lake B - Pedestrian and Bike Trail (3) - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4800	2.8804	3.2014	0.0133		0.1030	0.1030		0.0947	0.0947		1,286.0738	1,286.0738	0.4159		1,296.4724
<b>Total</b>	<b>0.4800</b>	<b>2.8804</b>	<b>3.2014</b>	<b>0.0133</b>	<b>0.0000</b>	<b>0.1030</b>	<b>0.1030</b>	<b>0.0000</b>	<b>0.0947</b>	<b>0.0947</b>		<b>1,286.0738</b>	<b>1,286.0738</b>	<b>0.4159</b>		<b>1,296.4724</b>

**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	0.0228	0.0126	0.1416	5.7000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.8000e-004	0.0222		57.0392	57.0392	8.8000e-004		57.0611
<b>Total</b>	<b>0.0228</b>	<b>0.0126</b>	<b>0.1416</b>	<b>5.7000e-004</b>	<b>0.0822</b>	<b>4.2000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>3.8000e-004</b>	<b>0.0222</b>		<b>57.0392</b>	<b>57.0392</b>	<b>8.8000e-004</b>		<b>57.0611</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.12 Lake B - Pedestrian and Bike Trail (3) - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4800	2.8804	3.2014	0.0133		0.1030	0.1030		0.0947	0.0947	0.0000	1,286.0738	1,286.0738	0.4159		1,296.4724
<b>Total</b>	<b>0.4800</b>	<b>2.8804</b>	<b>3.2014</b>	<b>0.0133</b>	<b>0.0000</b>	<b>0.1030</b>	<b>0.1030</b>	<b>0.0000</b>	<b>0.0947</b>	<b>0.0947</b>	<b>0.0000</b>	<b>1,286.0738</b>	<b>1,286.0738</b>	<b>0.4159</b>		<b>1,296.4724</b>

**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	0.0228	0.0126	0.1416	5.7000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.8000e-004	0.0222		57.0392	57.0392	8.8000e-004		57.0611
<b>Total</b>	<b>0.0228</b>	<b>0.0126</b>	<b>0.1416</b>	<b>5.7000e-004</b>	<b>0.0822</b>	<b>4.2000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>3.8000e-004</b>	<b>0.0222</b>		<b>57.0392</b>	<b>57.0392</b>	<b>8.8000e-004</b>		<b>57.0611</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.13 Lake B - Lake B to C Conduit - 2030**

**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					0.2121	0.0000	0.2121	0.0229	0.0000	0.0229			0.0000			0.0000
Off-Road	1.9503	4.4895	11.2159	0.0497		0.1530	0.1530		0.1530	0.1530		5,409.741 2	5,409.741 2	0.1727		5,414.057 7
<b>Total</b>	<b>1.9503</b>	<b>4.4895</b>	<b>11.2159</b>	<b>0.0497</b>	<b>0.2121</b>	<b>0.1530</b>	<b>0.3651</b>	<b>0.0229</b>	<b>0.1530</b>	<b>0.1759</b>		<b>5,409.741 2</b>	<b>5,409.741 2</b>	<b>0.1727</b>		<b>5,414.057 7</b>

**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	3.7600e-003	0.1486	0.0326	5.0000e-004	0.0136	1.5000e-004	0.0137	3.9000e-003	1.5000e-004	4.0500e-003		52.6366	52.6366	2.3600e-003		52.6955
Worker	0.0359	0.0192	0.2242	9.7000e-004	0.1479	6.5000e-004	0.1485	0.0392	6.0000e-004	0.0398		97.1350	97.1350	1.3300e-003		97.1682
<b>Total</b>	<b>0.0396</b>	<b>0.1677</b>	<b>0.2568</b>	<b>1.4700e-003</b>	<b>0.1614</b>	<b>8.0000e-004</b>	<b>0.1622</b>	<b>0.0431</b>	<b>7.5000e-004</b>	<b>0.0439</b>		<b>149.7716</b>	<b>149.7716</b>	<b>3.6900e-003</b>		<b>149.8636</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.13 Lake B - Lake B to C Conduit - 2030**

**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					0.0955	0.0000	0.0955	0.0103	0.0000	0.0103			0.0000			0.0000
Off-Road	1.9503	4.4895	11.2159	0.0497		0.1530	0.1530		0.1530	0.1530	0.0000	5,409.741 2	5,409.741 2	0.1727		5,414.057 7
<b>Total</b>	<b>1.9503</b>	<b>4.4895</b>	<b>11.2159</b>	<b>0.0497</b>	<b>0.0955</b>	<b>0.1530</b>	<b>0.2484</b>	<b>0.0103</b>	<b>0.1530</b>	<b>0.1633</b>	<b>0.0000</b>	<b>5,409.741 2</b>	<b>5,409.741 2</b>	<b>0.1727</b>		<b>5,414.057 7</b>

**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	3.7600e-003	0.1486	0.0326	5.0000e-004	0.0136	1.5000e-004	0.0137	3.9000e-003	1.5000e-004	4.0500e-003		52.6366	52.6366	2.3600e-003		52.6955
Worker	0.0359	0.0192	0.2242	9.7000e-004	0.1479	6.5000e-004	0.1485	0.0392	6.0000e-004	0.0398		97.1350	97.1350	1.3300e-003		97.1682
<b>Total</b>	<b>0.0396</b>	<b>0.1677</b>	<b>0.2568</b>	<b>1.4700e-003</b>	<b>0.1614</b>	<b>8.0000e-004</b>	<b>0.1622</b>	<b>0.0431</b>	<b>7.5000e-004</b>	<b>0.0439</b>		<b>149.7716</b>	<b>149.7716</b>	<b>3.6900e-003</b>		<b>149.8636</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.14 Lake B - Overflow Outlet to ADV (1) - 2049**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3756	0.0000	6.3756	3.3484	0.0000	3.3484			0.0000			0.0000
Off-Road	2.4336	5.4036	12.8732	0.0588		0.2043	0.2043		0.2043	0.2043		6,476.1539	6,476.1539	0.2140		6,481.5038
<b>Total</b>	<b>2.4336</b>	<b>5.4036</b>	<b>12.8732</b>	<b>0.0588</b>	<b>6.3756</b>	<b>0.2043</b>	<b>6.5798</b>	<b>3.3484</b>	<b>0.2043</b>	<b>3.5527</b>		<b>6,476.1539</b>	<b>6,476.1539</b>	<b>0.2140</b>		<b>6,481.5038</b>

**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	0.0141	8.1300e-003	0.1040	6.5000e-004	0.1150	2.5000e-004	0.1153	0.0305	2.3000e-004	0.0307		64.8052	64.8052	4.9000e-004		64.8175
<b>Total</b>	<b>0.0141</b>	<b>8.1300e-003</b>	<b>0.1040</b>	<b>6.5000e-004</b>	<b>0.1150</b>	<b>2.5000e-004</b>	<b>0.1153</b>	<b>0.0305</b>	<b>2.3000e-004</b>	<b>0.0307</b>		<b>64.8052</b>	<b>64.8052</b>	<b>4.9000e-004</b>		<b>64.8175</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.14 Lake B - Overflow Outlet to ADV (1) - 2049**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8690	0.0000	2.8690	1.5068	0.0000	1.5068			0.0000			0.0000
Off-Road	2.4336	5.4036	12.8732	0.0588		0.2043	0.2043		0.2043	0.2043	0.0000	6,476.1539	6,476.1539	0.2140		6,481.5038
<b>Total</b>	<b>2.4336</b>	<b>5.4036</b>	<b>12.8732</b>	<b>0.0588</b>	<b>2.8690</b>	<b>0.2043</b>	<b>3.0733</b>	<b>1.5068</b>	<b>0.2043</b>	<b>1.7110</b>	<b>0.0000</b>	<b>6,476.1539</b>	<b>6,476.1539</b>	<b>0.2140</b>		<b>6,481.5038</b>

**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	0.0141	8.1300e-003	0.1040	6.5000e-004	0.1150	2.5000e-004	0.1153	0.0305	2.3000e-004	0.0307		64.8052	64.8052	4.9000e-004		64.8175
<b>Total</b>	<b>0.0141</b>	<b>8.1300e-003</b>	<b>0.1040</b>	<b>6.5000e-004</b>	<b>0.1150</b>	<b>2.5000e-004</b>	<b>0.1153</b>	<b>0.0305</b>	<b>2.3000e-004</b>	<b>0.0307</b>		<b>64.8052</b>	<b>64.8052</b>	<b>4.9000e-004</b>		<b>64.8175</b>



Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.15 Lake B - Overflow Outlet to ADV (2) - 2049**

**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					0.2325	0.0000	0.2325	0.0260	0.0000	0.0260			0.0000			0.0000
Off-Road	1.3753	2.1570	7.8022	0.0376		0.0815	0.0815		0.0815	0.0815		4,070.6108	4,070.6108	0.1209		4,073.6326
<b>Total</b>	<b>1.3753</b>	<b>2.1570</b>	<b>7.8022</b>	<b>0.0376</b>	<b>0.2325</b>	<b>0.0815</b>	<b>0.3140</b>	<b>0.0260</b>	<b>0.0815</b>	<b>0.1075</b>		<b>4,070.6108</b>	<b>4,070.6108</b>	<b>0.1209</b>		<b>4,073.6326</b>

**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	0.1373	4.0760	1.2147	0.0200	85.2351	7.0400e-003	85.2422	8.5879	6.7300e-003	8.5946		2,140.1793	2,140.1793	0.0974		2,142.6136
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	0.0121	6.9700e-003	0.0891	5.6000e-004	0.0986	2.1000e-004	0.0988	0.0262	1.9000e-004	0.0263		55.5473	55.5473	4.2000e-004		55.5579
<b>Total</b>	<b>0.1494</b>	<b>4.0830</b>	<b>1.3038</b>	<b>0.0206</b>	<b>85.3337</b>	<b>7.2500e-003</b>	<b>85.3410</b>	<b>8.6140</b>	<b>6.9200e-003</b>	<b>8.6209</b>		<b>2,195.7266</b>	<b>2,195.7266</b>	<b>0.0978</b>		<b>2,198.1714</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.15 Lake B - Overflow Outlet to ADV (2) - 2049**

**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					0.1046	0.0000	0.1046	0.0117	0.0000	0.0117			0.0000			0.0000
Off-Road	1.3753	2.1570	7.8022	0.0376		0.0815	0.0815		0.0815	0.0815	0.0000	4,070.6108	4,070.6108	0.1209		4,073.6326
<b>Total</b>	<b>1.3753</b>	<b>2.1570</b>	<b>7.8022</b>	<b>0.0376</b>	<b>0.1046</b>	<b>0.0815</b>	<b>0.1861</b>	<b>0.0117</b>	<b>0.0815</b>	<b>0.0932</b>	<b>0.0000</b>	<b>4,070.6108</b>	<b>4,070.6108</b>	<b>0.1209</b>		<b>4,073.6326</b>

**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	0.1373	4.0760	1.2147	0.0200	52.3660	7.0400e-003	52.3730	5.3010	6.7300e-003	5.3077		2,140.1793	2,140.1793	0.0974		2,142.6136
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	0.0121	6.9700e-003	0.0891	5.6000e-004	0.0986	2.1000e-004	0.0988	0.0262	1.9000e-004	0.0263		55.5473	55.5473	4.2000e-004		55.5579
<b>Total</b>	<b>0.1494</b>	<b>4.0830</b>	<b>1.3038</b>	<b>0.0206</b>	<b>52.4645</b>	<b>7.2500e-003</b>	<b>52.4718</b>	<b>5.3271</b>	<b>6.9200e-003</b>	<b>5.3340</b>		<b>2,195.7266</b>	<b>2,195.7266</b>	<b>0.0978</b>		<b>2,198.1714</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.16 Lake B - Sharks Fin Drainage Notch - 2049**

**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					0.2121	0.0000	0.2121	0.0229	0.0000	0.0229			0.0000			0.0000
Off-Road	3.8705	5.8211	21.0953	0.0957		0.2269	0.2269		0.2269	0.2269		10,871.1053	10,871.1053	0.3417		10,879.6471
<b>Total</b>	<b>3.8705</b>	<b>5.8211</b>	<b>21.0953</b>	<b>0.0957</b>	<b>0.2121</b>	<b>0.2269</b>	<b>0.4390</b>	<b>0.0229</b>	<b>0.2269</b>	<b>0.2498</b>		<b>10,871.1053</b>	<b>10,871.1053</b>	<b>0.3417</b>		<b>10,879.6471</b>

**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	0.0141	8.1300e-003	0.1040	6.5000e-004	0.1150	2.5000e-004	0.1153	0.0305	2.3000e-004	0.0307		64.8052	64.8052	4.9000e-004		64.8175
<b>Total</b>	<b>0.0141</b>	<b>8.1300e-003</b>	<b>0.1040</b>	<b>6.5000e-004</b>	<b>0.1150</b>	<b>2.5000e-004</b>	<b>0.1153</b>	<b>0.0305</b>	<b>2.3000e-004</b>	<b>0.0307</b>		<b>64.8052</b>	<b>64.8052</b>	<b>4.9000e-004</b>		<b>64.8175</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.16 Lake B - Sharks Fin Drainage Notch - 2049**

**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					0.0955	0.0000	0.0955	0.0103	0.0000	0.0103			0.0000			0.0000
Off-Road	3.8705	5.8211	21.0953	0.0957		0.2269	0.2269		0.2269	0.2269	0.0000	10,871.1053	10,871.1053	0.3417		10,879.6471
<b>Total</b>	<b>3.8705</b>	<b>5.8211</b>	<b>21.0953</b>	<b>0.0957</b>	<b>0.0955</b>	<b>0.2269</b>	<b>0.3224</b>	<b>0.0103</b>	<b>0.2269</b>	<b>0.2372</b>	<b>0.0000</b>	<b>10,871.1053</b>	<b>10,871.1053</b>	<b>0.3417</b>		<b>10,879.6471</b>

**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	0.0141	8.1300e-003	0.1040	6.5000e-004	0.1150	2.5000e-004	0.1153	0.0305	2.3000e-004	0.0307		64.8052	64.8052	4.9000e-004		64.8175
<b>Total</b>	<b>0.0141</b>	<b>8.1300e-003</b>	<b>0.1040</b>	<b>6.5000e-004</b>	<b>0.1150</b>	<b>2.5000e-004</b>	<b>0.1153</b>	<b>0.0305</b>	<b>2.3000e-004</b>	<b>0.0307</b>		<b>64.8052</b>	<b>64.8052</b>	<b>4.9000e-004</b>		<b>64.8175</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.17 Lake B - Revegetation - 2049**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5524	0.8259	2.9920	0.0135		0.0325	0.0325		0.0325	0.0325		1,538.7811	1,538.7811	0.0487		1,539.9996
<b>Total</b>	<b>0.5524</b>	<b>0.8259</b>	<b>2.9920</b>	<b>0.0135</b>	<b>0.0000</b>	<b>0.0325</b>	<b>0.0325</b>	<b>0.0000</b>	<b>0.0325</b>	<b>0.0325</b>		<b>1,538.7811</b>	<b>1,538.7811</b>	<b>0.0487</b>		<b>1,539.9996</b>

**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	0.0101	5.8000e-003	0.0743	4.6000e-004	0.0822	1.8000e-004	0.0823	0.0218	1.6000e-004	0.0220		46.2894	46.2894	3.5000e-004		46.2982
<b>Total</b>	<b>0.0101</b>	<b>5.8000e-003</b>	<b>0.0743</b>	<b>4.6000e-004</b>	<b>0.0822</b>	<b>1.8000e-004</b>	<b>0.0823</b>	<b>0.0218</b>	<b>1.6000e-004</b>	<b>0.0220</b>		<b>46.2894</b>	<b>46.2894</b>	<b>3.5000e-004</b>		<b>46.2982</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**3.17 Lake B - Revegetation - 2049**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5524	0.8259	2.9920	0.0135		0.0325	0.0325		0.0325	0.0325	0.0000	1,538.7811	1,538.7811	0.0487		1,539.9996
<b>Total</b>	<b>0.5524</b>	<b>0.8259</b>	<b>2.9920</b>	<b>0.0135</b>	<b>0.0000</b>	<b>0.0325</b>	<b>0.0325</b>	<b>0.0000</b>	<b>0.0325</b>	<b>0.0325</b>	<b>0.0000</b>	<b>1,538.7811</b>	<b>1,538.7811</b>	<b>0.0487</b>		<b>1,539.9996</b>

**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	0.0101	5.8000e-003	0.0743	4.6000e-004	0.0822	1.8000e-004	0.0823	0.0218	1.6000e-004	0.0220		46.2894	46.2894	3.5000e-004		46.2982
<b>Total</b>	<b>0.0101</b>	<b>5.8000e-003</b>	<b>0.0743</b>	<b>4.6000e-004</b>	<b>0.0822</b>	<b>1.8000e-004</b>	<b>0.0823</b>	<b>0.0218</b>	<b>1.6000e-004</b>	<b>0.0220</b>		<b>46.2894</b>	<b>46.2894</b>	<b>3.5000e-004</b>		<b>46.2982</b>

**4.0 Operational Detail - Mobile**

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Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.560518	0.034619	0.186702	0.100511	0.010696	0.005021	0.030533	0.061190	0.002486	0.001477	0.005168	0.000445	0.000633

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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



Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.9700e-003	2.9000e-004	0.0325	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0700	0.0700	1.8000e-004		0.0745
Unmitigated	2.9700e-003	2.9000e-004	0.0325	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0700	0.0700	1.8000e-004		0.0745

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	2.9700e-003	2.9000e-004	0.0325	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0700	0.0700	1.8000e-004		0.0745
<b>Total</b>	<b>2.9700e-003</b>	<b>2.9000e-004</b>	<b>0.0325</b>	<b>0.0000</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>0.0700</b>	<b>0.0700</b>	<b>1.8000e-004</b>		<b>0.0745</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					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	2.9700e-003	2.9000e-004	0.0325	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		0.0700	0.0700	1.8000e-004		0.0745
<b>Total</b>	<b>2.9700e-003</b>	<b>2.9000e-004</b>	<b>0.0325</b>	<b>0.0000</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>1.2000e-004</b>	<b>1.2000e-004</b>		<b>0.0700</b>	<b>0.0700</b>	<b>1.8000e-004</b>		<b>0.0745</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Winter

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**Eliot Quarry - Lake B Reclamation Activities**  
**Alameda County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	320.00	User Defined Unit	320.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	63
<b>Climate Zone</b>	4			<b>Operational Year</b>	2050
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

Project Characteristics - Lake B reclamation activity per Revised Reclamation Plan.

Land Use - Lake B area approximately 320 acres, bound by Vineyard Avenue to the south and Isabel Avenue to the east.

Construction Phase - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

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Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Grading - See CalEEMod modeling assumptions attachment.

Trips and VMT - See CalEEMod modeling assumptions attachment.

On-road Fugitive Dust - See CalEEMod modeling assumptions attachment.

Energy Use -

Construction Off-road Equipment Mitigation - Mitigation assumptions based on BAAQMD CEQA Guide BMPs for PM reduction.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

tblConstructionPhase	NumDays	620.00	5.00
tblConstructionPhase	NumDays	620.00	5.00
tblConstructionPhase	NumDays	620.00	3.00
tblConstructionPhase	NumDays	620.00	5.00
tblConstructionPhase	NumDays	620.00	5.00
tblConstructionPhase	NumDays	620.00	5.00
tblConstructionPhase	NumDays	620.00	80.00
tblConstructionPhase	NumDays	620.00	10.00
tblConstructionPhase	NumDays	620.00	13.00
tblConstructionPhase	NumDays	620.00	10.00
tblConstructionPhase	NumDays	620.00	20.00
tblConstructionPhase	NumDays	240.00	20.00
tblConstructionPhase	NumDays	240.00	10.00
tblConstructionPhase	NumDays	240.00	5.00
tblConstructionPhase	NumDays	240.00	20.00
tblConstructionPhase	NumDays	240.00	12.00
tblGrading	AcresOfGrading	0.00	5.00
tblGrading	AcresOfGrading	0.00	1.00
tblGrading	AcresOfGrading	0.00	1.00
tblGrading	AcresOfGrading	0.00	1.00
tblGrading	AcresOfGrading	0.00	1.00
tblGrading	AcresOfGrading	7.50	1.00
tblGrading	AcresOfGrading	360.00	110.00
tblGrading	AcresOfGrading	0.00	2.00
tblGrading	AcresOfGrading	19.50	30.00
tblGrading	AcresOfGrading	5.00	3.00
tblGrading	AcresOfGrading	50.00	5.00

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

tblGrading	MaterialImported	0.00	3,519.00
tblGrading	MaterialImported	0.00	900.00
tblLandUse	LotAcreage	0.00	320.00
tblOffRoadEquipment	HorsePower	367.00	407.00
tblOffRoadEquipment	HorsePower	367.00	570.00
tblOffRoadEquipment	HorsePower	367.00	407.00
tblOffRoadEquipment	HorsePower	97.00	276.00
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tblOffRoadEquipment	HorsePower	97.00	276.00
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tblOffRoadEquipment	HorsePower	158.00	396.00
tblOffRoadEquipment	HorsePower	158.00	303.00
tblOffRoadEquipment	HorsePower	402.00	511.00
tblOffRoadEquipment	HorsePower	158.00	396.00
tblOffRoadEquipment	HorsePower	158.00	396.00
tblOffRoadEquipment	HorsePower	158.00	396.00
tblOffRoadEquipment	HorsePower	158.00	396.00
tblOffRoadEquipment	HorsePower	158.00	303.00
tblOffRoadEquipment	HorsePower	187.00	238.00
tblOffRoadEquipment	HorsePower	187.00	238.00



Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

tblOffRoadEquipment	HorsePower	187.00	238.00
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tblOffRoadEquipment	HorsePower	247.00	600.00
tblOffRoadEquipment	HorsePower	247.00	600.00
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tblOffRoadEquipment	LoadFactor	0.38	0.38
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tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.36	0.36
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tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00





## Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
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tblOffRoadEquipment	UsageHours	8.00	0.00
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tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblTripsAndVMT	HaulingTripLength	20.00	4.00
tblTripsAndVMT	HaulingTripNumber	440.00	464.00
tblTripsAndVMT	HaulingTripNumber	113.00	144.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00
tblTripsAndVMT	WorkerTripNumber	13.00	18.00
tblTripsAndVMT	WorkerTripNumber	10.00	14.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

tblTripsAndVMT	WorkerTripNumber	15.00	14.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00
tblTripsAndVMT	WorkerTripNumber	10.00	14.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	13.00	12.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.4569	4.8851	3.0492	8.8600e-003	0.3612	0.1803	0.5415	0.1607	0.1659	0.3266	0.0000	778.2954	778.2954	0.2483	0.0000	784.5034
2028	0.0396	0.3650	0.3553	9.5000e-004	0.1821	0.0139	0.1960	0.0459	0.0128	0.0587	0.0000	83.6169	83.6169	0.0253	0.0000	84.2492
2030	3.9700e-003	9.3100e-003	0.0229	1.0000e-004	7.4000e-004	3.1000e-004	1.0400e-003	1.3000e-004	3.1000e-004	4.4000e-004	0.0000	10.0899	10.0899	3.2000e-004	0.0000	10.0979
2049	0.0186	0.0404	0.1028	5.1000e-004	0.1880	1.1800e-003	0.1892	0.0232	1.1800e-003	0.0244	0.0000	51.5657	51.5657	1.6700e-003	0.0000	51.6074
<b>Maximum</b>	<b>0.4569</b>	<b>4.8851</b>	<b>3.0492</b>	<b>8.8600e-003</b>	<b>0.3612</b>	<b>0.1803</b>	<b>0.5415</b>	<b>0.1607</b>	<b>0.1659</b>	<b>0.3266</b>	<b>0.0000</b>	<b>778.2954</b>	<b>778.2954</b>	<b>0.2483</b>	<b>0.0000</b>	<b>784.5034</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**2.1 Overall Construction**

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.4569	4.8851	3.0492	8.8600e-003	0.1696	0.1803	0.3499	0.0742	0.1659	0.2401	0.0000	778.2945	778.2945	0.2483	0.0000	784.5024
2028	0.0396	0.3650	0.3553	9.5000e-004	0.1021	0.0139	0.1160	0.0230	0.0128	0.0358	0.0000	83.6168	83.6168	0.0253	0.0000	84.2491
2030	3.9700e-003	9.3100e-003	0.0229	1.0000e-004	5.0000e-004	3.1000e-004	8.1000e-004	1.0000e-004	3.1000e-004	4.1000e-004	0.0000	10.0899	10.0899	3.2000e-004	0.0000	10.0979
2049	0.0186	0.0404	0.1028	5.1000e-004	0.1142	1.1800e-003	0.1153	0.0136	1.1800e-003	0.0147	0.0000	51.5656	51.5656	1.6700e-003	0.0000	51.6073
<b>Maximum</b>	<b>0.4569</b>	<b>4.8851</b>	<b>3.0492</b>	<b>8.8600e-003</b>	<b>0.1696</b>	<b>0.1803</b>	<b>0.3499</b>	<b>0.0742</b>	<b>0.1659</b>	<b>0.2401</b>	<b>0.0000</b>	<b>778.2945</b>	<b>778.2945</b>	<b>0.2483</b>	<b>0.0000</b>	<b>784.5024</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>47.23</b>	<b>0.00</b>	<b>37.26</b>	<b>51.80</b>	<b>0.00</b>	<b>29.04</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
13	1-22-2022	4-21-2022	0.0402	0.0402
14	4-22-2022	7-21-2022	3.2200	3.2200
15	7-22-2022	10-21-2022	1.9218	1.9218
16	10-22-2022	1-21-2023	0.0115	0.0115
38	4-22-2028	7-21-2028	0.3632	0.3632
39	7-22-2028	10-21-2028	0.0158	0.0158
46	4-22-2030	7-21-2030	0.0142	0.0142
122	4-22-2049	7-21-2049	0.0520	0.0520



Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

		Highest	3.2200	3.2200
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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.7000e-004	3.0000e-005	2.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.7200e-003	5.7200e-003	1.0000e-005	0.0000	6.0900e-003
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
<b>Total</b>	<b>2.7000e-004</b>	<b>3.0000e-005</b>	<b>2.9200e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.7200e-003</b>	<b>5.7200e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>6.0900e-003</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**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	2.7000e-004	3.0000e-005	2.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.7200e-003	5.7200e-003	1.0000e-005	0.0000	6.0900e-003
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
<b>Total</b>	<b>2.7000e-004</b>	<b>3.0000e-005</b>	<b>2.9200e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.7200e-003</b>	<b>5.7200e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>6.0900e-003</b>

	ROG	NOx	CO	SO2	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**

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Lake B - Realign ADV (1)	Site Preparation	4/4/2022	4/29/2022	5	20	Install pumps for low flow diversion
2	Lake B - Realign ADV (2)	Grading	5/2/2022	5/6/2022	5	5	Repair breach at quarry ponds
3	Lake B - Realign ADV (3)	Grading	5/9/2022	8/26/2022	5	80	Backfill and rough grade new ADV channel
4	Lake B - Realign ADV (4)	Grading	8/29/2022	9/9/2022	5	10	Cut low flow
5	Lake B - Realign ADV (5)	Grading	8/29/2022	9/14/2022	5	13	Fine grade
6	Lake B - ADV Berms	Grading	8/29/2022	9/9/2022	5	10	Install berms along ADV
7	Lake B - Realign ADV (6)	Site Preparation	9/15/2022	10/12/2022	5	20	Landscaping and revegetation
8	Lake B - Realign ADV (7)	Site Preparation	10/13/2022	10/28/2022	5	12	Remove pumps
9	Lake B - Pedestrian and Bike Trail (1)	Grading	5/1/2028	5/26/2028	5	20	Grading and drainage improvements
10	Lake B - Pedestrian and Bike Trail (2)	Grading	5/27/2028	6/2/2028	5	5	Paving and striping
11	Lake B - Pedestrian and Bike Trail (3)	Site Preparation	10/1/2028	10/13/2028	5	10	Landscaping and revegetation
12	Lake B - Lake B to C Conduit	Grading	6/1/2030	6/6/2030	5	5	Install pipe conduit to Lake C
13	Lake B - Overflow Outlet to ADV (1)	Grading	5/3/2049	5/5/2049	5	3	Finegrade and build access ramp
14	Lake B - Overflow Outlet to ADV (2)	Grading	5/6/2049	5/12/2049	5	5	Place rip rap
15	Lake B - Sharks Fin Drainage Notch	Grading	5/13/2049	5/19/2049	5	5	Cut drainage notch and haul dirt
16	Lake B - Revegetation	Site Preparation	10/4/2049	10/8/2049	5	5	Revegetation of slopes and perimeter

**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; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Lake B - Pedestrian and Bike Trail (2)	Excavators	0	0.00	158	0.38
Lake B - Lake B to C Conduit	Excavators	1	8.00	396	0.38
Lake B - Overflow Outlet to ADV (1)	Excavators	1	8.00	396	0.38
Lake B - Overflow Outlet to ADV (2)	Excavators	1	8.00	396	0.38
Lake B - Sharks Fin Drainage Notch	Excavators	1	8.00	396	0.38
Lake B - Realign ADV (2)	Excavators	0	0.00	158	0.38
Lake B - Realign ADV (3)	Excavators	0	0.00	158	0.38
Lake B - Realign ADV (4)	Excavators	1	8.00	303	0.38
Lake B - Realign ADV (5)	Excavators	0	0.00	158	0.38
Lake B - ADV Berms	Excavators	0	0.00	158	0.38
Lake B - Pedestrian and Bike Trail (1)	Excavators	2	8.00	158	0.38
Lake B - Pedestrian and Bike Trail (2)	Graders	0	0.00	187	0.41
Lake B - Lake B to C Conduit	Graders	0	0.00	187	0.41
Lake B - Overflow Outlet to ADV (1)	Graders	0	0.00	187	0.41
Lake B - Overflow Outlet to ADV (2)	Graders	0	0.00	187	0.41
Lake B - Sharks Fin Drainage Notch	Graders	0	0.00	187	0.41
Lake B - Realign ADV (2)	Graders	1	8.00	238	0.41
Lake B - Realign ADV (3)	Graders	1	8.00	238	0.41
Lake B - Realign ADV (4)	Graders	0	0.00	187	0.41
Lake B - Realign ADV (5)	Graders	1	8.00	238	0.41
Lake B - ADV Berms	Graders	1	8.00	238	0.41
Lake B - Pedestrian and Bike Trail (1)	Graders	1	8.00	187	0.41
Lake B - Pedestrian and Bike Trail (2)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Lake B to C Conduit	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Overflow Outlet to ADV (1)	Rubber Tired Dozers	1	8.00	600	0.40
Lake B - Overflow Outlet to ADV (2)	Rubber Tired Dozers	0	0.00	247	0.40

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

Lake B - Sharks Fin Drainage Notch	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Realign ADV (2)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Realign ADV (3)	Rubber Tired Dozers	1	8.00	600	0.40
Lake B - Realign ADV (4)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Realign ADV (5)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - ADV Berms	Rubber Tired Dozers	1	8.00	303	0.40
Lake B - Pedestrian and Bike Trail (1)	Rubber Tired Dozers	1	8.00	247	0.40
Lake B - Realign ADV (1)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Pedestrian and Bike Trail (3)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Revegetation	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Realign ADV (6)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Realign ADV (7)	Rubber Tired Dozers	0	0.00	247	0.40
Lake B - Pedestrian and Bike Trail (2)	Scrapers	0	0.00	367	0.48
Lake B - Lake B to C Conduit	Scrapers	0	0.00	367	0.48
Lake B - Overflow Outlet to ADV (1)	Scrapers	0	0.00	367	0.48
Lake B - Overflow Outlet to ADV (2)	Scrapers	0	0.00	367	0.48
Lake B - Sharks Fin Drainage Notch	Scrapers	0	0.00	367	0.48
Lake B - Realign ADV (2)	Scrapers	1	8.00	407	0.48
Lake B - Realign ADV (3)	Scrapers	4	8.00	570	0.48
Lake B - Realign ADV (4)	Scrapers	0	0.00	367	0.48
Lake B - Realign ADV (5)	Scrapers	1	8.00	407	0.48
Lake B - ADV Berms	Scrapers	0	0.00	367	0.48
Lake B - Pedestrian and Bike Trail (1)	Scrapers	2	8.00	367	0.48
Lake B - Pedestrian and Bike Trail (2)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - Lake B to C Conduit	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake B - Overflow Outlet to ADV (1)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake B - Overflow Outlet to ADV (2)	Tractors/Loaders/Backhoes	1	8.00	276	0.37

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

Lake B - Sharks Fin Drainage Notch	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - Realign ADV (2)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - Realign ADV (3)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - Realign ADV (4)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - Realign ADV (5)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - ADV Berms	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake B - Pedestrian and Bike Trail (1)	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Lake B - Realign ADV (1)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake B - Pedestrian and Bike Trail (3)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - Revegetation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - Realign ADV (6)	Tractors/Loaders/Backhoes	1	8.00	276	0.37
Lake B - Realign ADV (7)	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Lake B - Realign ADV (1)	Excavators	1	8.00	396	0.38
Lake B - Realign ADV (2)	Rollers	1	8.00	248	0.38
Lake B - Realign ADV (2)	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Realign ADV (3)	Rubber Tired Dozers	1	8.00	303	0.40
Lake B - Realign ADV (3)	Rollers	1	8.00	405	0.38
Lake B - Realign ADV (3)	Off-Highway Trucks	3	8.00	402	0.38
Lake B - Realign ADV (4)	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Realign ADV (5)	Off-Highway Trucks	1	8.00	402	0.38
Lake B - ADV Berms	Rollers	1	8.00	405	0.38
Lake B - ADV Berms	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Realign ADV (6)	Excavators	1	8.00	396	0.38
Lake B - Realign ADV (7)	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Pedestrian and Bike Trail (1)	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Pedestrian and Bike Trail (2)	Pavers	2	8.00	130	0.42
Lake B - Pedestrian and Bike Trail (2)	Paving Equipment	2	8.00	132	0.36

## Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

Lake B - Pedestrian and Bike Trail (2)	Rollers	2	8.00	80	0.38
Lake B - Pedestrian and Bike Trail (3)	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Lake B to C Conduit	Excavators	1	8.00	303	0.38
Lake B - Lake B to C Conduit	Forklifts	1	8.00	89	0.20
Lake B - Lake B to C Conduit	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Overflow Outlet to ADV (1)	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Overflow Outlet to ADV (2)	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Sharks Fin Drainage Notch	Off-Highway Trucks	4	8.00	511	0.38
Lake B - Sharks Fin Drainage Notch	Off-Highway Trucks	1	8.00	402	0.38
Lake B - Revegetation	Off-Highway Trucks	1	8.00	402	0.38

**Trips and VMT**

## Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

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
Lake B - Realign ADV (1)	2	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Pedestrian and Bike Trail (2)	6	20.00	0.00	464.00	10.80	7.30	4.00	LD_Mix	HDT_Mix	HHDT
Lake B - Pedestrian and Bike Trail (3)	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Lake B to C Conduit	5	18.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Overflow Outlet to ADV (1)	4	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Overflow Outlet to ADV (2)	3	12.00	0.00	144.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Sharks Fin Drainage Notch	6	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Revegetation	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Realign ADV (2)	4	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Realign ADV (3)	11	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Realign ADV (4)	2	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Realign ADV (5)	3	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - ADV Berms	5	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Realign ADV (6)	2	10.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Realign ADV (7)	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Lake B - Pedestrian and Bike Trail (1)	9	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads



Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.2 Lake B - Realign ADV (1) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3000e-003	0.0536	0.0514	2.2000e-004		1.8900e-003	1.8900e-003		1.7300e-003	1.7300e-003	0.0000	19.0329	19.0329	6.1600e-003	0.0000	19.1868
<b>Total</b>	<b>6.3000e-003</b>	<b>0.0536</b>	<b>0.0514</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.8900e-003</b>	<b>1.8900e-003</b>	<b>0.0000</b>	<b>1.7300e-003</b>	<b>1.7300e-003</b>	<b>0.0000</b>	<b>19.0329</b>	<b>19.0329</b>	<b>6.1600e-003</b>	<b>0.0000</b>	<b>19.1868</b>

**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	6.0000e-005	2.0300e-003	4.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5188	0.5188	3.0000e-005	0.0000	0.5195
Worker	3.0000e-004	2.0000e-004	2.1800e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.6538	0.6538	1.0000e-005	0.0000	0.6541
<b>Total</b>	<b>3.6000e-004</b>	<b>2.2300e-003</b>	<b>2.6000e-003</b>	<b>2.0000e-005</b>	<b>9.2000e-004</b>	<b>1.0000e-005</b>	<b>9.4000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>1.1726</b>	<b>1.1726</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.1736</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.2 Lake B - Realign ADV (1) - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3000e-003	0.0536	0.0514	2.2000e-004		1.8900e-003	1.8900e-003		1.7300e-003	1.7300e-003	0.0000	19.0329	19.0329	6.1600e-003	0.0000	19.1868
<b>Total</b>	<b>6.3000e-003</b>	<b>0.0536</b>	<b>0.0514</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.8900e-003</b>	<b>1.8900e-003</b>	<b>0.0000</b>	<b>1.7300e-003</b>	<b>1.7300e-003</b>	<b>0.0000</b>	<b>19.0329</b>	<b>19.0329</b>	<b>6.1600e-003</b>	<b>0.0000</b>	<b>19.1868</b>

**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	6.0000e-005	2.0300e-003	4.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5188	0.5188	3.0000e-005	0.0000	0.5195
Worker	3.0000e-004	2.0000e-004	2.1800e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.6538	0.6538	1.0000e-005	0.0000	0.6541
<b>Total</b>	<b>3.6000e-004</b>	<b>2.2300e-003</b>	<b>2.6000e-003</b>	<b>2.0000e-005</b>	<b>9.2000e-004</b>	<b>1.0000e-005</b>	<b>9.4000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>1.1726</b>	<b>1.1726</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.1736</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.3 Lake B - Realign ADV (2) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3000e-004	0.0000	5.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.6800e-003	0.0607	0.0366	1.2000e-004		2.1800e-003	2.1800e-003		2.0100e-003	2.0100e-003	0.0000	10.2267	10.2267	3.3100e-003	0.0000	10.3094
<b>Total</b>	<b>5.6800e-003</b>	<b>0.0607</b>	<b>0.0366</b>	<b>1.2000e-004</b>	<b>5.3000e-004</b>	<b>2.1800e-003</b>	<b>2.7100e-003</b>	<b>6.0000e-005</b>	<b>2.0100e-003</b>	<b>2.0700e-003</b>	<b>0.0000</b>	<b>10.2267</b>	<b>10.2267</b>	<b>3.3100e-003</b>	<b>0.0000</b>	<b>10.3094</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	7.0000e-005	7.6000e-004	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.2288	0.2288	1.0000e-005	0.0000	0.2289
<b>Total</b>	<b>1.0000e-004</b>	<b>7.0000e-005</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2288</b>	<b>0.2288</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2289</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.3 Lake B - Realign ADV (2) - 2022**

**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					2.4000e-004	0.0000	2.4000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.6800e-003	0.0607	0.0366	1.2000e-004		2.1800e-003	2.1800e-003		2.0100e-003	2.0100e-003	0.0000	10.2267	10.2267	3.3100e-003	0.0000	10.3093
<b>Total</b>	<b>5.6800e-003</b>	<b>0.0607</b>	<b>0.0366</b>	<b>1.2000e-004</b>	<b>2.4000e-004</b>	<b>2.1800e-003</b>	<b>2.4200e-003</b>	<b>3.0000e-005</b>	<b>2.0100e-003</b>	<b>2.0400e-003</b>	<b>0.0000</b>	<b>10.2267</b>	<b>10.2267</b>	<b>3.3100e-003</b>	<b>0.0000</b>	<b>10.3093</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	7.0000e-005	7.6000e-004	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.2288	0.2288	1.0000e-005	0.0000	0.2289
<b>Total</b>	<b>1.0000e-004</b>	<b>7.0000e-005</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2288</b>	<b>0.2288</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2289</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.4 Lake B - Realign ADV (3) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2992	0.0000	0.2992	0.1387	0.0000	0.1387	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3992	4.3698	2.6372	7.4600e-003		0.1615	0.1615		0.1486	0.1486	0.0000	655.6196	655.6196	0.2120	0.0000	660.9206
<b>Total</b>	<b>0.3992</b>	<b>4.3698</b>	<b>2.6372</b>	<b>7.4600e-003</b>	<b>0.2992</b>	<b>0.1615</b>	<b>0.4607</b>	<b>0.1387</b>	<b>0.1486</b>	<b>0.2873</b>	<b>0.0000</b>	<b>655.6196</b>	<b>655.6196</b>	<b>0.2120</b>	<b>0.0000</b>	<b>660.9206</b>

**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	3.3200e-003	2.2800e-003	0.0244	8.0000e-005	8.8600e-003	6.0000e-005	8.9100e-003	2.3600e-003	5.0000e-005	2.4100e-003	0.0000	7.3220	7.3220	1.6000e-004	0.0000	7.3260
<b>Total</b>	<b>3.3200e-003</b>	<b>2.2800e-003</b>	<b>0.0244</b>	<b>8.0000e-005</b>	<b>8.8600e-003</b>	<b>6.0000e-005</b>	<b>8.9100e-003</b>	<b>2.3600e-003</b>	<b>5.0000e-005</b>	<b>2.4100e-003</b>	<b>0.0000</b>	<b>7.3220</b>	<b>7.3220</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>7.3260</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.4 Lake B - Realign ADV (3) - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1346	0.0000	0.1346	0.0624	0.0000	0.0624	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3992	4.3698	2.6372	7.4600e-003		0.1615	0.1615		0.1486	0.1486	0.0000	655.6188	655.6188	0.2120	0.0000	660.9199
<b>Total</b>	<b>0.3992</b>	<b>4.3698</b>	<b>2.6372</b>	<b>7.4600e-003</b>	<b>0.1346</b>	<b>0.1615</b>	<b>0.2961</b>	<b>0.0624</b>	<b>0.1486</b>	<b>0.2110</b>	<b>0.0000</b>	<b>655.6188</b>	<b>655.6188</b>	<b>0.2120</b>	<b>0.0000</b>	<b>660.9199</b>

**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	3.3200e-003	2.2800e-003	0.0244	8.0000e-005	8.8600e-003	6.0000e-005	8.9100e-003	2.3600e-003	5.0000e-005	2.4100e-003	0.0000	7.3220	7.3220	1.6000e-004	0.0000	7.3260
<b>Total</b>	<b>3.3200e-003</b>	<b>2.2800e-003</b>	<b>0.0244</b>	<b>8.0000e-005</b>	<b>8.8600e-003</b>	<b>6.0000e-005</b>	<b>8.9100e-003</b>	<b>2.3600e-003</b>	<b>5.0000e-005</b>	<b>2.4100e-003</b>	<b>0.0000</b>	<b>7.3220</b>	<b>7.3220</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>7.3260</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.5 Lake B - Realign ADV (4) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0600e-003	0.0000	1.0600e-003	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9500e-003	0.0307	0.0277	1.2000e-004		1.0900e-003	1.0900e-003		1.0000e-003	1.0000e-003	0.0000	10.1570	10.1570	3.2800e-003	0.0000	10.2391
<b>Total</b>	<b>3.9500e-003</b>	<b>0.0307</b>	<b>0.0277</b>	<b>1.2000e-004</b>	<b>1.0600e-003</b>	<b>1.0900e-003</b>	<b>2.1500e-003</b>	<b>1.1000e-004</b>	<b>1.0000e-003</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>10.1570</b>	<b>10.1570</b>	<b>3.2800e-003</b>	<b>0.0000</b>	<b>10.2391</b>

**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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
<b>Total</b>	<b>9.0000e-005</b>	<b>6.0000e-005</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.1961</b>	<b>0.1961</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1962</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.5 Lake B - Realign ADV (4) - 2022**

**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					4.8000e-004	0.0000	4.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9500e-003	0.0307	0.0277	1.2000e-004		1.0900e-003	1.0900e-003		1.0000e-003	1.0000e-003	0.0000	10.1570	10.1570	3.2800e-003	0.0000	10.2391
<b>Total</b>	<b>3.9500e-003</b>	<b>0.0307</b>	<b>0.0277</b>	<b>1.2000e-004</b>	<b>4.8000e-004</b>	<b>1.0900e-003</b>	<b>1.5700e-003</b>	<b>5.0000e-005</b>	<b>1.0000e-003</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>10.1570</b>	<b>10.1570</b>	<b>3.2800e-003</b>	<b>0.0000</b>	<b>10.2391</b>

**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	9.0000e-005	6.0000e-005	6.5000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1961	0.1961	0.0000	0.0000	0.1962
<b>Total</b>	<b>9.0000e-005</b>	<b>6.0000e-005</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.1961</b>	<b>0.1961</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1962</b>



Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.6 Lake B - Realign ADV (5) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0159	0.0000	0.0159	1.7200e-003	0.0000	1.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0128	0.1342	0.0821	2.5000e-004		4.8500e-003	4.8500e-003		4.4700e-003	4.4700e-003	0.0000	22.0071	22.0071	7.1200e-003	0.0000	22.1850
<b>Total</b>	<b>0.0128</b>	<b>0.1342</b>	<b>0.0821</b>	<b>2.5000e-004</b>	<b>0.0159</b>	<b>4.8500e-003</b>	<b>0.0208</b>	<b>1.7200e-003</b>	<b>4.4700e-003</b>	<b>6.1900e-003</b>	<b>0.0000</b>	<b>22.0071</b>	<b>22.0071</b>	<b>7.1200e-003</b>	<b>0.0000</b>	<b>22.1850</b>

**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	2.3000e-004	1.6000e-004	1.7000e-003	1.0000e-005	6.2000e-004	0.0000	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5099	0.5099	1.0000e-005	0.0000	0.5102
<b>Total</b>	<b>2.3000e-004</b>	<b>1.6000e-004</b>	<b>1.7000e-003</b>	<b>1.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>6.2000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.5099</b>	<b>0.5099</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.5102</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.6 Lake B - Realign ADV (5) - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.1600e-003	0.0000	7.1600e-003	7.7000e-004	0.0000	7.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0128	0.1342	0.0821	2.5000e-004		4.8500e-003	4.8500e-003		4.4700e-003	4.4700e-003	0.0000	22.0070	22.0070	7.1200e-003	0.0000	22.1850
<b>Total</b>	<b>0.0128</b>	<b>0.1342</b>	<b>0.0821</b>	<b>2.5000e-004</b>	<b>7.1600e-003</b>	<b>4.8500e-003</b>	<b>0.0120</b>	<b>7.7000e-004</b>	<b>4.4700e-003</b>	<b>5.2400e-003</b>	<b>0.0000</b>	<b>22.0070</b>	<b>22.0070</b>	<b>7.1200e-003</b>	<b>0.0000</b>	<b>22.1850</b>

**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	2.3000e-004	1.6000e-004	1.7000e-003	1.0000e-005	6.2000e-004	0.0000	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5099	0.5099	1.0000e-005	0.0000	0.5102
<b>Total</b>	<b>2.3000e-004</b>	<b>1.6000e-004</b>	<b>1.7000e-003</b>	<b>1.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>6.2000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.5099</b>	<b>0.5099</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.5102</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.7 Lake B - ADV Berms - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0317	0.0000	0.0317	0.0167	0.0000	0.0167	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.1510	0.1072	2.7000e-004	5.9300e-003	5.9300e-003		5.4500e-003	5.4500e-003		0.0000	23.8363	23.8363	7.7100e-003	0.0000	24.0290
<b>Total</b>	<b>0.0147</b>	<b>0.1510</b>	<b>0.1072</b>	<b>2.7000e-004</b>	<b>0.0317</b>	<b>5.9300e-003</b>	<b>0.0376</b>	<b>0.0167</b>	<b>5.4500e-003</b>	<b>0.0222</b>	<b>0.0000</b>	<b>23.8363</b>	<b>23.8363</b>	<b>7.7100e-003</b>	<b>0.0000</b>	<b>24.0290</b>

**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	1.8000e-004	1.2000e-004	1.3100e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3923	0.3923	1.0000e-005	0.0000	0.3925
<b>Total</b>	<b>1.8000e-004</b>	<b>1.2000e-004</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.8000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3923</b>	<b>0.3923</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3925</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.7 Lake B - ADV Berms - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0143	0.0000	0.0143	7.5300e-003	0.0000	7.5300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.1510	0.1072	2.7000e-004		5.9300e-003	5.9300e-003		5.4500e-003	5.4500e-003	0.0000	23.8362	23.8362	7.7100e-003	0.0000	24.0290
<b>Total</b>	<b>0.0147</b>	<b>0.1510</b>	<b>0.1072</b>	<b>2.7000e-004</b>	<b>0.0143</b>	<b>5.9300e-003</b>	<b>0.0202</b>	<b>7.5300e-003</b>	<b>5.4500e-003</b>	<b>0.0130</b>	<b>0.0000</b>	<b>23.8362</b>	<b>23.8362</b>	<b>7.7100e-003</b>	<b>0.0000</b>	<b>24.0290</b>

**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	1.8000e-004	1.2000e-004	1.3100e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3923	0.3923	1.0000e-005	0.0000	0.3925
<b>Total</b>	<b>1.8000e-004</b>	<b>1.2000e-004</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.8000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3923</b>	<b>0.3923</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3925</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.8 Lake B - Realign ADV (6) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3000e-003	0.0536	0.0514	2.2000e-004		1.8900e-003	1.8900e-003		1.7300e-003	1.7300e-003	0.0000	19.0329	19.0329	6.1600e-003	0.0000	19.1868
<b>Total</b>	<b>6.3000e-003</b>	<b>0.0536</b>	<b>0.0514</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.8900e-003</b>	<b>1.8900e-003</b>	<b>0.0000</b>	<b>1.7300e-003</b>	<b>1.7300e-003</b>	<b>0.0000</b>	<b>19.0329</b>	<b>19.0329</b>	<b>6.1600e-003</b>	<b>0.0000</b>	<b>19.1868</b>

**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	6.0000e-005	2.0300e-003	4.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5188	0.5188	3.0000e-005	0.0000	0.5195
Worker	3.0000e-004	2.0000e-004	2.1800e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.6538	0.6538	1.0000e-005	0.0000	0.6541
<b>Total</b>	<b>3.6000e-004</b>	<b>2.2300e-003</b>	<b>2.6000e-003</b>	<b>2.0000e-005</b>	<b>9.2000e-004</b>	<b>1.0000e-005</b>	<b>9.4000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>1.1726</b>	<b>1.1726</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.1736</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.8 Lake B - Realign ADV (6) - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3000e-003	0.0536	0.0514	2.2000e-004		1.8900e-003	1.8900e-003		1.7300e-003	1.7300e-003	0.0000	19.0329	19.0329	6.1600e-003	0.0000	19.1868
<b>Total</b>	<b>6.3000e-003</b>	<b>0.0536</b>	<b>0.0514</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.8900e-003</b>	<b>1.8900e-003</b>	<b>0.0000</b>	<b>1.7300e-003</b>	<b>1.7300e-003</b>	<b>0.0000</b>	<b>19.0329</b>	<b>19.0329</b>	<b>6.1600e-003</b>	<b>0.0000</b>	<b>19.1868</b>

**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	6.0000e-005	2.0300e-003	4.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5188	0.5188	3.0000e-005	0.0000	0.5195
Worker	3.0000e-004	2.0000e-004	2.1800e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	0.6538	0.6538	1.0000e-005	0.0000	0.6541
<b>Total</b>	<b>3.6000e-004</b>	<b>2.2300e-003</b>	<b>2.6000e-003</b>	<b>2.0000e-005</b>	<b>9.2000e-004</b>	<b>1.0000e-005</b>	<b>9.4000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>1.1726</b>	<b>1.1726</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.1736</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.9 Lake B - Realign ADV (7) - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1900e-003	0.0242	0.0203	8.0000e-005		8.8000e-004	8.8000e-004		8.1000e-004	8.1000e-004	0.0000	6.9965	6.9965	2.2600e-003	0.0000	7.0530
<b>Total</b>	<b>3.1900e-003</b>	<b>0.0242</b>	<b>0.0203</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.8000e-004</b>	<b>8.8000e-004</b>	<b>0.0000</b>	<b>8.1000e-004</b>	<b>8.1000e-004</b>	<b>0.0000</b>	<b>6.9965</b>	<b>6.9965</b>	<b>2.2600e-003</b>	<b>0.0000</b>	<b>7.0530</b>

**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	1.8000e-004	1.2000e-004	1.3100e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3923	0.3923	1.0000e-005	0.0000	0.3925
<b>Total</b>	<b>1.8000e-004</b>	<b>1.2000e-004</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.8000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3923</b>	<b>0.3923</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3925</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.9 Lake B - Realign ADV (7) - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1900e-003	0.0242	0.0203	8.0000e-005		8.8000e-004	8.8000e-004		8.1000e-004	8.1000e-004	0.0000	6.9965	6.9965	2.2600e-003	0.0000	7.0530
<b>Total</b>	<b>3.1900e-003</b>	<b>0.0242</b>	<b>0.0203</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.8000e-004</b>	<b>8.8000e-004</b>	<b>0.0000</b>	<b>8.1000e-004</b>	<b>8.1000e-004</b>	<b>0.0000</b>	<b>6.9965</b>	<b>6.9965</b>	<b>2.2600e-003</b>	<b>0.0000</b>	<b>7.0530</b>

**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	1.8000e-004	1.2000e-004	1.3100e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3923	0.3923	1.0000e-005	0.0000	0.3925
<b>Total</b>	<b>1.8000e-004</b>	<b>1.2000e-004</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.8000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3923</b>	<b>0.3923</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3925</b>



Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.10 Lake B - Pedestrian and Bike Trail (1) - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0629	0.0000	0.0629	0.0334	0.0000	0.0334	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0338	0.3082	0.2953	7.5000e-004		0.0123	0.0123		0.0114	0.0114	0.0000	66.1733	66.1733	0.0214	0.0000	66.7083
<b>Total</b>	<b>0.0338</b>	<b>0.3082</b>	<b>0.2953</b>	<b>7.5000e-004</b>	<b>0.0629</b>	<b>0.0123</b>	<b>0.0752</b>	<b>0.0334</b>	<b>0.0114</b>	<b>0.0447</b>	<b>0.0000</b>	<b>66.1733</b>	<b>66.1733</b>	<b>0.0214</b>	<b>0.0000</b>	<b>66.7083</b>

**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	4.7000e-004	2.6000e-004	3.1900e-003	1.0000e-005	1.8200e-003	1.0000e-005	1.8300e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.1995	1.1995	2.0000e-005	0.0000	1.2000
<b>Total</b>	<b>4.7000e-004</b>	<b>2.6000e-004</b>	<b>3.1900e-003</b>	<b>1.0000e-005</b>	<b>1.8200e-003</b>	<b>1.0000e-005</b>	<b>1.8300e-003</b>	<b>4.8000e-004</b>	<b>1.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.1995</b>	<b>1.1995</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.2000</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.10 Lake B - Pedestrian and Bike Trail (1) - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0283	0.0000	0.0283	0.0150	0.0000	0.0150	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0338	0.3082	0.2953	7.5000e-004		0.0123	0.0123		0.0114	0.0114	0.0000	66.1732	66.1732	0.0214	0.0000	66.7082
<b>Total</b>	<b>0.0338</b>	<b>0.3082</b>	<b>0.2953</b>	<b>7.5000e-004</b>	<b>0.0283</b>	<b>0.0123</b>	<b>0.0406</b>	<b>0.0150</b>	<b>0.0114</b>	<b>0.0264</b>	<b>0.0000</b>	<b>66.1732</b>	<b>66.1732</b>	<b>0.0214</b>	<b>0.0000</b>	<b>66.7082</b>

**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	4.7000e-004	2.6000e-004	3.1900e-003	1.0000e-005	1.8200e-003	1.0000e-005	1.8300e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.1995	1.1995	2.0000e-005	0.0000	1.2000
<b>Total</b>	<b>4.7000e-004</b>	<b>2.6000e-004</b>	<b>3.1900e-003</b>	<b>1.0000e-005</b>	<b>1.8200e-003</b>	<b>1.0000e-005</b>	<b>1.8300e-003</b>	<b>4.8000e-004</b>	<b>1.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.1995</b>	<b>1.1995</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.2000</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.11 Lake B - Pedestrian and Bike Trail (2) - 2028**

**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					2.8500e-003	0.0000	2.8500e-003	3.2000e-004	0.0000	3.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2600e-003	0.0212	0.0360	6.0000e-005		1.0300e-003	1.0300e-003		9.5000e-004	9.5000e-004	0.0000	4.9433	4.9433	1.6000e-003	0.0000	4.9833
<b>Total</b>	<b>2.2600e-003</b>	<b>0.0212</b>	<b>0.0360</b>	<b>6.0000e-005</b>	<b>2.8500e-003</b>	<b>1.0300e-003</b>	<b>3.8800e-003</b>	<b>3.2000e-004</b>	<b>9.5000e-004</b>	<b>1.2700e-003</b>	<b>0.0000</b>	<b>4.9433</b>	<b>4.9433</b>	<b>1.6000e-003</b>	<b>0.0000</b>	<b>4.9833</b>

**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	4.1000e-004	0.0208	3.4200e-003	5.0000e-005	0.1137	1.0000e-005	0.1137	0.0115	1.0000e-005	0.0115	0.0000	4.9458	4.9458	3.8000e-004	0.0000	4.9552
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	6.0000e-005	6.9000e-004	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2608	0.2608	0.0000	0.0000	0.2609
<b>Total</b>	<b>5.1000e-004</b>	<b>0.0209</b>	<b>4.1100e-003</b>	<b>5.0000e-005</b>	<b>0.1141</b>	<b>1.0000e-005</b>	<b>0.1141</b>	<b>0.0116</b>	<b>1.0000e-005</b>	<b>0.0116</b>	<b>0.0000</b>	<b>5.2065</b>	<b>5.2065</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>5.2161</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.11 Lake B - Pedestrian and Bike Trail (2) - 2028**

**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					1.2800e-003	0.0000	1.2800e-003	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2600e-003	0.0212	0.0360	6.0000e-005		1.0300e-003	1.0300e-003		9.5000e-004	9.5000e-004	0.0000	4.9433	4.9433	1.6000e-003	0.0000	4.9833
<b>Total</b>	<b>2.2600e-003</b>	<b>0.0212</b>	<b>0.0360</b>	<b>6.0000e-005</b>	<b>1.2800e-003</b>	<b>1.0300e-003</b>	<b>2.3100e-003</b>	<b>1.4000e-004</b>	<b>9.5000e-004</b>	<b>1.0900e-003</b>	<b>0.0000</b>	<b>4.9433</b>	<b>4.9433</b>	<b>1.6000e-003</b>	<b>0.0000</b>	<b>4.9833</b>

**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	4.1000e-004	0.0208	3.4200e-003	5.0000e-005	0.0699	1.0000e-005	0.0699	7.1000e-003	1.0000e-005	7.1100e-003	0.0000	4.9458	4.9458	3.8000e-004	0.0000	4.9552
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	6.0000e-005	6.9000e-004	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2608	0.2608	0.0000	0.0000	0.2609
<b>Total</b>	<b>5.1000e-004</b>	<b>0.0209</b>	<b>4.1100e-003</b>	<b>5.0000e-005</b>	<b>0.0703</b>	<b>1.0000e-005</b>	<b>0.0703</b>	<b>7.2100e-003</b>	<b>1.0000e-005</b>	<b>7.2200e-003</b>	<b>0.0000</b>	<b>5.2065</b>	<b>5.2065</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>5.2161</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.12 Lake B - Pedestrian and Bike Trail (3) - 2028**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4000e-003	0.0144	0.0160	7.0000e-005		5.1000e-004	5.1000e-004		4.7000e-004	4.7000e-004	0.0000	5.8335	5.8335	1.8900e-003	0.0000	5.8807
<b>Total</b>	<b>2.4000e-003</b>	<b>0.0144</b>	<b>0.0160</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>5.1000e-004</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>5.8335</b>	<b>5.8335</b>	<b>1.8900e-003</b>	<b>0.0000</b>	<b>5.8807</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	6.0000e-005	6.9000e-004	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2608	0.2608	0.0000	0.0000	0.2609
<b>Total</b>	<b>1.0000e-004</b>	<b>6.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.2608</b>	<b>0.2608</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.2609</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.12 Lake B - Pedestrian and Bike Trail (3) - 2028**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4000e-003	0.0144	0.0160	7.0000e-005		5.1000e-004	5.1000e-004		4.7000e-004	4.7000e-004	0.0000	5.8335	5.8335	1.8900e-003	0.0000	5.8807
<b>Total</b>	<b>2.4000e-003</b>	<b>0.0144</b>	<b>0.0160</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>5.1000e-004</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>5.8335</b>	<b>5.8335</b>	<b>1.8900e-003</b>	<b>0.0000</b>	<b>5.8807</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	6.0000e-005	6.9000e-004	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2608	0.2608	0.0000	0.0000	0.2609
<b>Total</b>	<b>1.0000e-004</b>	<b>6.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.2608</b>	<b>0.2608</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.2609</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.13 Lake B - Lake B to C Conduit - 2030**

**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					4.2000e-004	0.0000	4.2000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9000e-003	8.9800e-003	0.0224	1.0000e-004		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	9.8153	9.8153	3.1000e-004	0.0000	9.8231
<b>Total</b>	<b>3.9000e-003</b>	<b>8.9800e-003</b>	<b>0.0224</b>	<b>1.0000e-004</b>	<b>4.2000e-004</b>	<b>3.1000e-004</b>	<b>7.3000e-004</b>	<b>5.0000e-005</b>	<b>3.1000e-004</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>9.8153</b>	<b>9.8153</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>9.8231</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	3.0000e-004	6.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0970	0.0970	0.0000	0.0000	0.0971
Worker	6.0000e-005	3.0000e-005	4.4000e-004	0.0000	2.8000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.1776	0.1776	0.0000	0.0000	0.1777
<b>Total</b>	<b>7.0000e-005</b>	<b>3.3000e-004</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.2746</b>	<b>0.2746</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.2748</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.13 Lake B - Lake B to C Conduit - 2030**

**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					1.9000e-004	0.0000	1.9000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9000e-003	8.9800e-003	0.0224	1.0000e-004		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	9.8153	9.8153	3.1000e-004	0.0000	9.8231
<b>Total</b>	<b>3.9000e-003</b>	<b>8.9800e-003</b>	<b>0.0224</b>	<b>1.0000e-004</b>	<b>1.9000e-004</b>	<b>3.1000e-004</b>	<b>5.0000e-004</b>	<b>2.0000e-005</b>	<b>3.1000e-004</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>9.8153</b>	<b>9.8153</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>9.8231</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	3.0000e-004	6.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0970	0.0970	0.0000	0.0000	0.0971
Worker	6.0000e-005	3.0000e-005	4.4000e-004	0.0000	2.8000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.1776	0.1776	0.0000	0.0000	0.1777
<b>Total</b>	<b>7.0000e-005</b>	<b>3.3000e-004</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.2746</b>	<b>0.2746</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.2748</b>



Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.14 Lake B - Overflow Outlet to ADV (1) - 2049**

**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					9.5600e-003	0.0000	9.5600e-003	5.0200e-003	0.0000	5.0200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6500e-003	8.1100e-003	0.0193	9.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	8.8126	8.8126	2.9000e-004	0.0000	8.8199
<b>Total</b>	<b>3.6500e-003</b>	<b>8.1100e-003</b>	<b>0.0193</b>	<b>9.0000e-005</b>	<b>9.5600e-003</b>	<b>3.1000e-004</b>	<b>9.8700e-003</b>	<b>5.0200e-003</b>	<b>3.1000e-004</b>	<b>5.3300e-003</b>	<b>0.0000</b>	<b>8.8126</b>	<b>8.8126</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>8.8199</b>

**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	2.0000e-005	1.0000e-005	1.5000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0889	0.0889	0.0000	0.0000	0.0889
<b>Total</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0889</b>	<b>0.0889</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0889</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.14 Lake B - Overflow Outlet to ADV (1) - 2049**

**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					4.3000e-003	0.0000	4.3000e-003	2.2600e-003	0.0000	2.2600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6500e-003	8.1100e-003	0.0193	9.0000e-005		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	8.8126	8.8126	2.9000e-004	0.0000	8.8199
<b>Total</b>	<b>3.6500e-003</b>	<b>8.1100e-003</b>	<b>0.0193</b>	<b>9.0000e-005</b>	<b>4.3000e-003</b>	<b>3.1000e-004</b>	<b>4.6100e-003</b>	<b>2.2600e-003</b>	<b>3.1000e-004</b>	<b>2.5700e-003</b>	<b>0.0000</b>	<b>8.8126</b>	<b>8.8126</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>8.8199</b>

**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	2.0000e-005	1.0000e-005	1.5000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0889	0.0889	0.0000	0.0000	0.0889
<b>Total</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0889</b>	<b>0.0889</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0889</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.15 Lake B - Overflow Outlet to ADV (2) - 2049**

**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					5.8000e-004	0.0000	5.8000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4400e-003	5.3900e-003	0.0195	9.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	9.2320	9.2320	2.7000e-004	0.0000	9.2388
<b>Total</b>	<b>3.4400e-003</b>	<b>5.3900e-003</b>	<b>0.0195</b>	<b>9.0000e-005</b>	<b>5.8000e-004</b>	<b>2.0000e-004</b>	<b>7.8000e-004</b>	<b>6.0000e-005</b>	<b>2.0000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>9.2320</b>	<b>9.2320</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>9.2388</b>

**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	3.4000e-004	0.0102	2.9300e-003	5.0000e-005	0.1765	2.0000e-005	0.1765	0.0178	2.0000e-005	0.0178	0.0000	4.9061	4.9061	2.1000e-004	0.0000	4.9115
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	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1270	0.1270	0.0000	0.0000	0.1270
<b>Total</b>	<b>3.7000e-004</b>	<b>0.0102</b>	<b>3.1500e-003</b>	<b>5.0000e-005</b>	<b>0.1767</b>	<b>2.0000e-005</b>	<b>0.1767</b>	<b>0.0179</b>	<b>2.0000e-005</b>	<b>0.0179</b>	<b>0.0000</b>	<b>5.0331</b>	<b>5.0331</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>5.0385</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.15 Lake B - Overflow Outlet to ADV (2) - 2049**

**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					2.6000e-004	0.0000	2.6000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4400e-003	5.3900e-003	0.0195	9.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	9.2320	9.2320	2.7000e-004	0.0000	9.2388
<b>Total</b>	<b>3.4400e-003</b>	<b>5.3900e-003</b>	<b>0.0195</b>	<b>9.0000e-005</b>	<b>2.6000e-004</b>	<b>2.0000e-004</b>	<b>4.6000e-004</b>	<b>3.0000e-005</b>	<b>2.0000e-004</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>9.2320</b>	<b>9.2320</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>9.2388</b>

**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	3.4000e-004	0.0102	2.9300e-003	5.0000e-005	0.1085	2.0000e-005	0.1085	0.0110	2.0000e-005	0.0110	0.0000	4.9061	4.9061	2.1000e-004	0.0000	4.9115
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	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1270	0.1270	0.0000	0.0000	0.1270
<b>Total</b>	<b>3.7000e-004</b>	<b>0.0102</b>	<b>3.1500e-003</b>	<b>5.0000e-005</b>	<b>0.1087</b>	<b>2.0000e-005</b>	<b>0.1087</b>	<b>0.0111</b>	<b>2.0000e-005</b>	<b>0.0111</b>	<b>0.0000</b>	<b>5.0331</b>	<b>5.0331</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>5.0385</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.16 Lake B - Sharks Fin Drainage Notch - 2049**

**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					5.3000e-004	0.0000	5.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6800e-003	0.0146	0.0527	2.4000e-004		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	24.6553	24.6553	7.7000e-004	0.0000	24.6746
<b>Total</b>	<b>9.6800e-003</b>	<b>0.0146</b>	<b>0.0527</b>	<b>2.4000e-004</b>	<b>5.3000e-004</b>	<b>5.7000e-004</b>	<b>1.1000e-003</b>	<b>6.0000e-005</b>	<b>5.7000e-004</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>24.6553</b>	<b>24.6553</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>24.6746</b>

**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	3.0000e-005	2.0000e-005	2.6000e-004	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1482	0.1482	0.0000	0.0000	0.1482
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.1482</b>	<b>0.1482</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1482</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.16 Lake B - Sharks Fin Drainage Notch - 2049**

**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					2.4000e-004	0.0000	2.4000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6800e-003	0.0146	0.0527	2.4000e-004		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	24.6552	24.6552	7.7000e-004	0.0000	24.6746
<b>Total</b>	<b>9.6800e-003</b>	<b>0.0146</b>	<b>0.0527</b>	<b>2.4000e-004</b>	<b>2.4000e-004</b>	<b>5.7000e-004</b>	<b>8.1000e-004</b>	<b>3.0000e-005</b>	<b>5.7000e-004</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>24.6552</b>	<b>24.6552</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>24.6746</b>

**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	3.0000e-005	2.0000e-005	2.6000e-004	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1482	0.1482	0.0000	0.0000	0.1482
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.1482</b>	<b>0.1482</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1482</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.17 Lake B - Revegetation - 2049**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3800e-003	2.0600e-003	7.4800e-003	3.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	3.4899	3.4899	1.1000e-004	0.0000	3.4927
<b>Total</b>	<b>1.3800e-003</b>	<b>2.0600e-003</b>	<b>7.4800e-003</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>3.4899</b>	<b>3.4899</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>3.4927</b>

**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	2.0000e-005	1.0000e-005	1.8000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1058	0.1058	0.0000	0.0000	0.1058
<b>Total</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.1058</b>	<b>0.1058</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1058</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**3.17 Lake B - Revegetation - 2049**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3800e-003	2.0600e-003	7.4800e-003	3.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	3.4899	3.4899	1.1000e-004	0.0000	3.4927
<b>Total</b>	<b>1.3800e-003</b>	<b>2.0600e-003</b>	<b>7.4800e-003</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>3.4899</b>	<b>3.4899</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>3.4927</b>

**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	2.0000e-005	1.0000e-005	1.8000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1058	0.1058	0.0000	0.0000	0.1058
<b>Total</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.1058</b>	<b>0.1058</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1058</b>

**4.0 Operational Detail - Mobile**



Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**4.1 Mitigation Measures Mobile**

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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.560518	0.034619	0.186702	0.100511	0.010696	0.005021	0.030533	0.061190	0.002486	0.001477	0.005168	0.000445	0.000633

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	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	0.0000



Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.7000e-004	3.0000e-005	2.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.7200e-003	5.7200e-003	1.0000e-005	0.0000	6.0900e-003
Unmitigated	2.7000e-004	3.0000e-005	2.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.7200e-003	5.7200e-003	1.0000e-005	0.0000	6.0900e-003

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	2.7000e-004	3.0000e-005	2.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.7200e-003	5.7200e-003	1.0000e-005	0.0000	6.0900e-003
<b>Total</b>	<b>2.7000e-004</b>	<b>3.0000e-005</b>	<b>2.9200e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.7200e-003</b>	<b>5.7200e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>6.0900e-003</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					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	2.7000e-004	3.0000e-005	2.9200e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.7200e-003	5.7200e-003	1.0000e-005	0.0000	6.0900e-003
<b>Total</b>	<b>2.7000e-004</b>	<b>3.0000e-005</b>	<b>2.9200e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.7200e-003</b>	<b>5.7200e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>6.0900e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

	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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**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



Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Eliot Quarry - Lake B Reclamation Activities - Alameda County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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**APPENDIX C: PROPOSED PROJECT**

**C-4. Lake B Reclamation Activity - Arroyo Move Pumps**

**1. ARROYO LOW FLOW DIVERSION AND QUARRY POND DEWATERING PUMPS (YEAR 2022)**

**Description:**

Criteria pollutant emissions from Arroyo del Valle low flow diversion and quarry pond dewatering. Pumps (2) assumed to be used for the realignment of the Arroyo del Valle and dewatering are Power Prime Model DV200c pumps as widely used in the Rain-for-Rent fleet, which are 5,000 gpm pumps equipped with John Deere Power Systems 200 horsepower Tier 4 interim engines. Emissions factors assumptions for these engines are as reported on the California Air Resources Board (CARB) engine certificate (Executive Order U-R-004-0464) dated November 20, 2012. The assumed load factor of 0.31 represents the CARB portable equipment inventory average load factor as reported in *2017 Diesel-Fueled Portable Equipment Emissions Inventory - Technical Documentation* (CARB, March 2017).

**Pump Assumptions and Conversion Factors:**

Pump	HP	Hrs/Day	Days
1. Arroyo low flow diversion	200	24	180
2. Quarry pond dewatering	200	24	90

**Notes:**

Pumps will operate 24 hours per day for duration of flow diversion (6 months) and dewatering (3 months).  
 HP = horsepower; kWh = kilowatt-hour

**Conversion Factor (HP to kW)**

1 HP =	0.7457 kW
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**Conversion Factor (g to lb)**

1 g =	0.0022 lb
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**Emissions Factors and Emissions:**

Pump	Load Factor <sup>1</sup>	Daily kWh	Total kWh	Emission Factors (g/kWh) <sup>2</sup>			Max Daily Emissions (lbs/day)			Total Emissions (tons)		
				NOx	CO	PM	NOx	CO	PM	NOx	CO	PM
1. Arroyo low flow diversion	0.31	3,579.4	644,284.8	3.3	0.6	0.12	8.06	1.46	0.29	0.73	0.13	0.03
2. Quarry pond dewatering	0.31	3,579.4	322,142.4	3.3	0.6	0.12	8.06	1.46	0.29	0.36	0.07	0.01
<b>Totals:</b>							<b>16.11</b>	<b>2.93</b>	<b>0.59</b>	<b>1.09</b>	<b>0.20</b>	<b>0.04</b>

**Notes:**

1. Load factor as reported in *2017 Diesel-Fueled Portable Equipment Emissions Inventory - Technical Documentation* (CARB, March 2017).
  2. Emissions factors as reported on the California Air Resources Board (CARB) engine certificate (Executive Order U-R-004-0464), November 20, 2012.
- kWh = kilowatt-hour  
 NO<sub>x</sub> = oxides of nitrogen; CO = carbon monoxide; PM = particulate matter



Eliot Quarry - North Area Reclamation Activities - Alameda County, Summer

**Eliot Quarry - North Area Reclamation Activities**  
**Alameda County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	350.00	User Defined Unit	350.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	63
<b>Climate Zone</b>	4			<b>Operational Year</b>	2050
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Eliot Quarry - North Area Reclamation Activities - Alameda County, Summer

Project Characteristics - North Area reclamation activity per Revised Reclamation Plan.

Land Use - North Areas approximately 350 acres, bound by Stanley Boulevard to the north.

Construction Phase - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Trips and VMT - See CalEEMod modeling assumptions attachment.

Demolition - See CalEEMod modeling assumptions attachment.

Grading - See CalEEMod modeling assumptions attachment.

Energy Use -

Construction Off-road Equipment Mitigation - Mitigation assumptions based on BAAQMD CEQA Guide BMPs for PM reduction.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	400.00	60.00
tblConstructionPhase	NumDays	620.00	10.00
tblConstructionPhase	NumDays	620.00	20.00
tblConstructionPhase	NumDays	620.00	10.00
tblConstructionPhase	NumDays	240.00	5.00
tblConstructionPhase	NumDays	240.00	15.00
tblGrading	AcresOfGrading	25.00	120.00
tblGrading	AcresOfGrading	50.00	135.00
tblGrading	AcresOfGrading	25.00	8.00
tblLandUse	LotAcreage	0.00	350.00

## Eliot Quarry - North Area Reclamation Activities - Alameda County, Summer

tblOffRoadEquipment	HorsePower	158.00	396.00
tblOffRoadEquipment	HorsePower	402.00	511.00
tblOffRoadEquipment	HorsePower	97.00	276.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblTripsAndVMT	HaulingTripNumber	99.00	100.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	3.00	6.00
tblTripsAndVMT	WorkerTripNumber	43.00	36.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00

## 2.0 Emissions Summary

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Eliot Quarry - North Area Reclamation Activities - Alameda County, Summer

**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	3.2500e-003	3.2000e-004	0.0355	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0766	0.0766	2.0000e-004		0.0815
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
<b>Total</b>	<b>3.2500e-003</b>	<b>3.2000e-004</b>	<b>0.0355</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>1.3000e-004</b>		<b>0.0766</b>	<b>0.0766</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.0815</b>

**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	3.2500e-003	3.2000e-004	0.0355	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0766	0.0766	2.0000e-004		0.0815
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
<b>Total</b>	<b>3.2500e-003</b>	<b>3.2000e-004</b>	<b>0.0355</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>1.3000e-004</b>		<b>0.0766</b>	<b>0.0766</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.0815</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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	North Area - Soil Cap on Main Silt Pond	Grading	9/2/2030	9/13/2030	5	10	Add soil cap to main silt pond prior to reveg
2	North Area - Revegetate Main Silt Pond	Site Preparation	10/1/2030	10/7/2030	5	5	Revegetation
3	North Area - Removal of Processing Plants	Demolition	5/3/2049	7/23/2049	5	60	Disassemble and remove Ag RMg AC plantsg
4	North Area - Grade Plant and Lake J Areas	Grading	7/26/2049	8/20/2049	5	20	Contour grading and resoiling
5	North Area - Retention Ponds	Grading	8/23/2049	9/3/2049	5	10	Install 3 retention ponds
6	North Area - Revegetation	Site Preparation	10/4/2049	10/22/2049	5	15	Revegetation

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; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
North Area - Soil Cap on Main Silt Pond	Excavators	2	8.00	158	0.38
North Area - Soil Cap on Main Silt Pond	Graders	1	8.00	187	0.41
North Area - Soil Cap on Main Silt Pond	Off-Highway Trucks	2	8.00	511	0.38

Eliot Quarry - North Area Reclamation Activities - Alameda County, Summer

North Area - Soil Cap on Main Silt Pond	Off-Highway Trucks	1	8.00	402	0.38
North Area - Soil Cap on Main Silt Pond	Rubber Tired Dozers	1	8.00	247	0.40
North Area - Soil Cap on Main Silt Pond	Scrapers	2	8.00	367	0.48
North Area - Soil Cap on Main Silt Pond	Tractors/Loaders/Backhoes	2	8.00	97	0.37
North Area - Revegetate Main Silt Pond	Off-Highway Trucks	1	8.00	402	0.38
North Area - Revegetate Main Silt Pond	Rubber Tired Dozers	0	0.00	247	0.40
North Area - Revegetate Main Silt Pond	Tractors/Loaders/Backhoes	0	0.00	97	0.37
North Area - Removal of Processing Plants	Concrete/Industrial Saws	3	8.00	81	0.73
North Area - Removal of Processing Plants	Cranes	1	8.00	231	0.29
North Area - Removal of Processing Plants	Excavators	3	8.00	396	0.38
North Area - Removal of Processing Plants	Forklifts	1	8.00	89	0.20
North Area - Removal of Processing Plants	Generator Sets	3	8.00	84	0.74
North Area - Removal of Processing Plants	Off-Highway Trucks	1	8.00	402	0.38
North Area - Removal of Processing Plants	Rubber Tired Dozers	0	0.00	247	0.40
North Area - Removal of Processing Plants	Tractors/Loaders/Backhoes	2	8.00	276	0.37
North Area - Removal of Processing Plants	Welders	3	8.00	46	0.45
North Area - Grade Plant and Lake J Areas	Excavators	2	8.00	158	0.38
North Area - Grade Plant and Lake J Areas	Graders	1	8.00	187	0.41
North Area - Grade Plant and Lake J Areas	Off-Highway Trucks	1	8.00	402	0.38
North Area - Grade Plant and Lake J Areas	Rubber Tired Dozers	1	8.00	247	0.40
North Area - Grade Plant and Lake J Areas	Scrapers	2	8.00	367	0.48
North Area - Grade Plant and Lake J Areas	Tractors/Loaders/Backhoes	2	8.00	97	0.37
North Area - Retention Ponds	Excavators	2	8.00	158	0.38
North Area - Retention Ponds	Graders	1	8.00	187	0.41

Eliot Quarry - North Area Reclamation Activities - Alameda County, Summer

North Area - Retention Ponds	Off-Highway Trucks	1	8.00	402	0.38
North Area - Retention Ponds	Rubber Tired Dozers	1	8.00	247	0.40
North Area - Retention Ponds	Scrapers	2	8.00	367	0.48
North Area - Retention Ponds	Tractors/Loaders/Backhoes	2	8.00	97	0.37
North Area - Revegetation	Off-Highway Trucks	1	8.00	402	0.38
North Area - Revegetation	Rubber Tired Dozers	0	0.00	247	0.40
North Area - Revegetation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

**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
North Area - Soil Cap on Main Silt Pond	11	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
North Area - Revegetate Main Silt	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
North Area - Removal of Processing Plants	17	36.00	6.00	100.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
North Area - Grade Plant and Lake 1 Area	9	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
North Area - Retention Ponds	9	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
North Area - Revegetation	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Eliot Quarry - North Area Reclamation Activities - Alameda County, Summer

**3.2 North Area - Soil Cap on Main Silt Pond - 2030**

**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					18.7481	0.0000	18.7481	4.6843	0.0000	4.6843			0.0000			0.0000
Off-Road	5.3490	18.2514	33.5601	0.1177		0.6502	0.6502		0.6502	0.6502		12,636.79 69	12,636.79 69	0.4728		12,648.61 79
<b>Total</b>	<b>5.3490</b>	<b>18.2514</b>	<b>33.5601</b>	<b>0.1177</b>	<b>18.7481</b>	<b>0.6502</b>	<b>19.3983</b>	<b>4.6843</b>	<b>0.6502</b>	<b>5.3345</b>		<b>12,636.79 69</b>	<b>12,636.79 69</b>	<b>0.4728</b>		<b>12,648.61 79</b>

**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	0.0522	0.0241	0.3808	1.6500e-003	0.2300	1.0200e-003	0.2310	0.0610	9.3000e-004	0.0619		164.2194	164.2194	2.2600e-003		164.2758
<b>Total</b>	<b>0.0522</b>	<b>0.0241</b>	<b>0.3808</b>	<b>1.6500e-003</b>	<b>0.2300</b>	<b>1.0200e-003</b>	<b>0.2310</b>	<b>0.0610</b>	<b>9.3000e-004</b>	<b>0.0619</b>		<b>164.2194</b>	<b>164.2194</b>	<b>2.2600e-003</b>		<b>164.2758</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Summer

**3.2 North Area - Soil Cap on Main Silt Pond - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4366	0.0000	8.4366	2.1080	0.0000	2.1080			0.0000			0.0000
Off-Road	5.3490	18.2514	33.5601	0.1177		0.6502	0.6502		0.6502	0.6502	0.0000	12,636.79 69	12,636.79 69	0.4728		12,648.61 79
<b>Total</b>	<b>5.3490</b>	<b>18.2514</b>	<b>33.5601</b>	<b>0.1177</b>	<b>8.4366</b>	<b>0.6502</b>	<b>9.0868</b>	<b>2.1080</b>	<b>0.6502</b>	<b>2.7581</b>	<b>0.0000</b>	<b>12,636.79 69</b>	<b>12,636.79 69</b>	<b>0.4728</b>		<b>12,648.61 79</b>

**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	0.0522	0.0241	0.3808	1.6500e-003	0.2300	1.0200e-003	0.2310	0.0610	9.3000e-004	0.0619		164.2194	164.2194	2.2600e-003		164.2758
<b>Total</b>	<b>0.0522</b>	<b>0.0241</b>	<b>0.3808</b>	<b>1.6500e-003</b>	<b>0.2300</b>	<b>1.0200e-003</b>	<b>0.2310</b>	<b>0.0610</b>	<b>9.3000e-004</b>	<b>0.0619</b>		<b>164.2194</b>	<b>164.2194</b>	<b>2.2600e-003</b>		<b>164.2758</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Summer

**3.3 North Area - Revegetate Main Silt Pond - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5820	1.2340	2.9744	0.0135		0.0458	0.0458		0.0458	0.0458		1,531.1255	1,531.1255	0.0512		1,532.4053
<b>Total</b>	<b>0.5820</b>	<b>1.2340</b>	<b>2.9744</b>	<b>0.0135</b>	<b>0.0000</b>	<b>0.0458</b>	<b>0.0458</b>	<b>0.0000</b>	<b>0.0458</b>	<b>0.0458</b>		<b>1,531.1255</b>	<b>1,531.1255</b>	<b>0.0512</b>		<b>1,532.4053</b>

**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	0.0112	5.1600e-003	0.0816	3.5000e-004	0.0493	2.2000e-004	0.0495	0.0131	2.0000e-004	0.0133		35.1899	35.1899	4.8000e-004		35.2020
<b>Total</b>	<b>0.0112</b>	<b>5.1600e-003</b>	<b>0.0816</b>	<b>3.5000e-004</b>	<b>0.0493</b>	<b>2.2000e-004</b>	<b>0.0495</b>	<b>0.0131</b>	<b>2.0000e-004</b>	<b>0.0133</b>		<b>35.1899</b>	<b>35.1899</b>	<b>4.8000e-004</b>		<b>35.2020</b>



Eliot Quarry - North Area Reclamation Activities - Alameda County, Summer

**3.3 North Area - Revegetate Main Silt Pond - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5820	1.2340	2.9744	0.0135		0.0458	0.0458		0.0458	0.0458	0.0000	1,531.1255	1,531.1255	0.0512		1,532.4053
<b>Total</b>	<b>0.5820</b>	<b>1.2340</b>	<b>2.9744</b>	<b>0.0135</b>	<b>0.0000</b>	<b>0.0458</b>	<b>0.0458</b>	<b>0.0000</b>	<b>0.0458</b>	<b>0.0458</b>	<b>0.0000</b>	<b>1,531.1255</b>	<b>1,531.1255</b>	<b>0.0512</b>		<b>1,532.4053</b>

**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	0.0112	5.1600e-003	0.0816	3.5000e-004	0.0493	2.2000e-004	0.0495	0.0131	2.0000e-004	0.0133		35.1899	35.1899	4.8000e-004		35.2020
<b>Total</b>	<b>0.0112</b>	<b>5.1600e-003</b>	<b>0.0816</b>	<b>3.5000e-004</b>	<b>0.0493</b>	<b>2.2000e-004</b>	<b>0.0495</b>	<b>0.0131</b>	<b>2.0000e-004</b>	<b>0.0133</b>		<b>35.1899</b>	<b>35.1899</b>	<b>4.8000e-004</b>		<b>35.2020</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Summer

**3.4 North Area - Removal of Processing Plants - 2049**

**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					0.3567	0.0000	0.3567	0.0540	0.0000	0.0540			0.0000			0.0000
Off-Road	4.5725	17.6300	44.5375	0.1300		0.2765	0.2765		0.2765	0.2765		13,222.4465	13,222.4465	0.4009		13,232.4683
<b>Total</b>	<b>4.5725</b>	<b>17.6300</b>	<b>44.5375</b>	<b>0.1300</b>	<b>0.3567</b>	<b>0.2765</b>	<b>0.6331</b>	<b>0.0540</b>	<b>0.2765</b>	<b>0.3305</b>		<b>13,222.4465</b>	<b>13,222.4465</b>	<b>0.4009</b>		<b>13,232.4683</b>

**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	7.7300e-003	0.2329	0.0662	1.1800e-003	0.0292	4.1000e-004	0.0296	8.0100e-003	3.9000e-004	8.4000e-003		126.1526	126.1526	5.3200e-003		126.2857
Vendor	0.0101	0.4335	0.0784	1.5200e-003	0.0407	4.2000e-004	0.0411	0.0117	4.0000e-004	0.0121		160.8770	160.8770	6.3800e-003		161.0364
Worker	0.0326	0.0169	0.3021	1.8100e-003	0.2957	6.3000e-004	0.2964	0.0784	5.8000e-004	0.0790		181.2372	181.2372	1.4300e-003		181.2730
<b>Total</b>	<b>0.0504</b>	<b>0.6833</b>	<b>0.4467</b>	<b>4.5100e-003</b>	<b>0.3656</b>	<b>1.4600e-003</b>	<b>0.3671</b>	<b>0.0982</b>	<b>1.3700e-003</b>	<b>0.0995</b>		<b>468.2668</b>	<b>468.2668</b>	<b>0.0131</b>		<b>468.5951</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Summer

**3.4 North Area - Removal of Processing Plants - 2049**

**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					0.1605	0.0000	0.1605	0.0243	0.0000	0.0243			0.0000			0.0000
Off-Road	4.5725	17.6300	44.5375	0.1300		0.2765	0.2765		0.2765	0.2765	0.0000	13,222.4464	13,222.4464	0.4009		13,232.4683
<b>Total</b>	<b>4.5725</b>	<b>17.6300</b>	<b>44.5375</b>	<b>0.1300</b>	<b>0.1605</b>	<b>0.2765</b>	<b>0.4370</b>	<b>0.0243</b>	<b>0.2765</b>	<b>0.3008</b>	<b>0.0000</b>	<b>13,222.4464</b>	<b>13,222.4464</b>	<b>0.4009</b>		<b>13,232.4683</b>

**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	7.7300e-003	0.2329	0.0662	1.1800e-003	0.0292	4.1000e-004	0.0296	8.0100e-003	3.9000e-004	8.4000e-003		126.1526	126.1526	5.3200e-003		126.2857
Vendor	0.0101	0.4335	0.0784	1.5200e-003	0.0407	4.2000e-004	0.0411	0.0117	4.0000e-004	0.0121		160.8770	160.8770	6.3800e-003		161.0364
Worker	0.0326	0.0169	0.3021	1.8100e-003	0.2957	6.3000e-004	0.2964	0.0784	5.8000e-004	0.0790		181.2372	181.2372	1.4300e-003		181.2730
<b>Total</b>	<b>0.0504</b>	<b>0.6833</b>	<b>0.4467</b>	<b>4.5100e-003</b>	<b>0.3656</b>	<b>1.4600e-003</b>	<b>0.3671</b>	<b>0.0982</b>	<b>1.3700e-003</b>	<b>0.0995</b>		<b>468.2668</b>	<b>468.2668</b>	<b>0.0131</b>		<b>468.5951</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Summer

**3.5 North Area - Grade Plant and Lake J Areas - 2049**

**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					13.1805	0.0000	13.1805	4.0832	0.0000	4.0832			0.0000			0.0000
Off-Road	3.2737	8.2102	25.2893	0.0834		0.2574	0.2574		0.2574	0.2574		8,744.234 1	8,744.234 1	0.2855		8,751.372 2
<b>Total</b>	<b>3.2737</b>	<b>8.2102</b>	<b>25.2893</b>	<b>0.0834</b>	<b>13.1805</b>	<b>0.2574</b>	<b>13.4378</b>	<b>4.0832</b>	<b>0.2574</b>	<b>4.3405</b>		<b>8,744.234 1</b>	<b>8,744.234 1</b>	<b>0.2855</b>		<b>8,751.372 2</b>

**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	0.0208	0.0108	0.1930	1.1600e-003	0.1889	4.0000e-004	0.1893	0.0501	3.7000e-004	0.0505		115.7904	115.7904	9.1000e-004		115.8133
<b>Total</b>	<b>0.0208</b>	<b>0.0108</b>	<b>0.1930</b>	<b>1.1600e-003</b>	<b>0.1889</b>	<b>4.0000e-004</b>	<b>0.1893</b>	<b>0.0501</b>	<b>3.7000e-004</b>	<b>0.0505</b>		<b>115.7904</b>	<b>115.7904</b>	<b>9.1000e-004</b>		<b>115.8133</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Summer

**3.5 North Area - Grade Plant and Lake J Areas - 2049**

**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					5.9312	0.0000	5.9312	1.8374	0.0000	1.8374			0.0000			0.0000
Off-Road	3.2737	8.2102	25.2893	0.0834		0.2574	0.2574		0.2574	0.2574	0.0000	8,744.2340	8,744.2340	0.2855		8,751.3721
<b>Total</b>	<b>3.2737</b>	<b>8.2102</b>	<b>25.2893</b>	<b>0.0834</b>	<b>5.9312</b>	<b>0.2574</b>	<b>6.1886</b>	<b>1.8374</b>	<b>0.2574</b>	<b>2.0948</b>	<b>0.0000</b>	<b>8,744.2340</b>	<b>8,744.2340</b>	<b>0.2855</b>		<b>8,751.3721</b>

**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	0.0208	0.0108	0.1930	1.1600e-003	0.1889	4.0000e-004	0.1893	0.0501	3.7000e-004	0.0505		115.7904	115.7904	9.1000e-004		115.8133
<b>Total</b>	<b>0.0208</b>	<b>0.0108</b>	<b>0.1930</b>	<b>1.1600e-003</b>	<b>0.1889</b>	<b>4.0000e-004</b>	<b>0.1893</b>	<b>0.0501</b>	<b>3.7000e-004</b>	<b>0.0505</b>		<b>115.7904</b>	<b>115.7904</b>	<b>9.1000e-004</b>		<b>115.8133</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Summer

**3.6 North Area - Retention Ponds - 2049**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.8705	0.0000	6.8705	3.4018	0.0000	3.4018			0.0000			0.0000
Off-Road	3.2737	8.2102	25.2893	0.0834		0.2574	0.2574		0.2574	0.2574		8,744.234 1	8,744.234 1	0.2855		8,751.372 2
<b>Total</b>	<b>3.2737</b>	<b>8.2102</b>	<b>25.2893</b>	<b>0.0834</b>	<b>6.8705</b>	<b>0.2574</b>	<b>7.1278</b>	<b>3.4018</b>	<b>0.2574</b>	<b>3.6592</b>		<b>8,744.234 1</b>	<b>8,744.234 1</b>	<b>0.2855</b>		<b>8,751.372 2</b>

**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	0.0208	0.0108	0.1930	1.1600e-003	0.1889	4.0000e-004	0.1893	0.0501	3.7000e-004	0.0505		115.7904	115.7904	9.1000e-004		115.8133
<b>Total</b>	<b>0.0208</b>	<b>0.0108</b>	<b>0.1930</b>	<b>1.1600e-003</b>	<b>0.1889</b>	<b>4.0000e-004</b>	<b>0.1893</b>	<b>0.0501</b>	<b>3.7000e-004</b>	<b>0.0505</b>		<b>115.7904</b>	<b>115.7904</b>	<b>9.1000e-004</b>		<b>115.8133</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Summer

**3.6 North Area - Retention Ponds - 2049**

**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					3.0917	0.0000	3.0917	1.5308	0.0000	1.5308			0.0000			0.0000
Off-Road	3.2737	8.2102	25.2893	0.0834		0.2574	0.2574		0.2574	0.2574	0.0000	8,744.2340	8,744.2340	0.2855		8,751.3721
<b>Total</b>	<b>3.2737</b>	<b>8.2102</b>	<b>25.2893</b>	<b>0.0834</b>	<b>3.0917</b>	<b>0.2574</b>	<b>3.3491</b>	<b>1.5308</b>	<b>0.2574</b>	<b>1.7882</b>	<b>0.0000</b>	<b>8,744.2340</b>	<b>8,744.2340</b>	<b>0.2855</b>		<b>8,751.3721</b>

**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	0.0208	0.0108	0.1930	1.1600e-003	0.1889	4.0000e-004	0.1893	0.0501	3.7000e-004	0.0505		115.7904	115.7904	9.1000e-004		115.8133
<b>Total</b>	<b>0.0208</b>	<b>0.0108</b>	<b>0.1930</b>	<b>1.1600e-003</b>	<b>0.1889</b>	<b>4.0000e-004</b>	<b>0.1893</b>	<b>0.0501</b>	<b>3.7000e-004</b>	<b>0.0505</b>		<b>115.7904</b>	<b>115.7904</b>	<b>9.1000e-004</b>		<b>115.8133</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Summer

**3.7 North Area - Revegetation - 2049**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5496	0.8217	2.9771	0.0135		0.0323	0.0323		0.0323	0.0323		1,531.1255	1,531.1255	0.0485		1,532.3379
<b>Total</b>	<b>0.5496</b>	<b>0.8217</b>	<b>2.9771</b>	<b>0.0135</b>	<b>0.0000</b>	<b>0.0323</b>	<b>0.0323</b>	<b>0.0000</b>	<b>0.0323</b>	<b>0.0323</b>		<b>1,531.1255</b>	<b>1,531.1255</b>	<b>0.0485</b>		<b>1,532.3379</b>

**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	9.0500e-003	4.7000e-003	0.0839	5.0000e-004	0.0822	1.8000e-004	0.0823	0.0218	1.6000e-004	0.0220		50.3437	50.3437	4.0000e-004		50.3536
<b>Total</b>	<b>9.0500e-003</b>	<b>4.7000e-003</b>	<b>0.0839</b>	<b>5.0000e-004</b>	<b>0.0822</b>	<b>1.8000e-004</b>	<b>0.0823</b>	<b>0.0218</b>	<b>1.6000e-004</b>	<b>0.0220</b>		<b>50.3437</b>	<b>50.3437</b>	<b>4.0000e-004</b>		<b>50.3536</b>



Eliot Quarry - North Area Reclamation Activities - Alameda County, Summer

**3.7 North Area - Revegetation - 2049**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5496	0.8217	2.9771	0.0135		0.0323	0.0323		0.0323	0.0323	0.0000	1,531.1255	1,531.1255	0.0485		1,532.3379
<b>Total</b>	<b>0.5496</b>	<b>0.8217</b>	<b>2.9771</b>	<b>0.0135</b>	<b>0.0000</b>	<b>0.0323</b>	<b>0.0323</b>	<b>0.0000</b>	<b>0.0323</b>	<b>0.0323</b>	<b>0.0000</b>	<b>1,531.1255</b>	<b>1,531.1255</b>	<b>0.0485</b>		<b>1,532.3379</b>

**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	9.0500e-003	4.7000e-003	0.0839	5.0000e-004	0.0822	1.8000e-004	0.0823	0.0218	1.6000e-004	0.0220		50.3437	50.3437	4.0000e-004		50.3536
<b>Total</b>	<b>9.0500e-003</b>	<b>4.7000e-003</b>	<b>0.0839</b>	<b>5.0000e-004</b>	<b>0.0822</b>	<b>1.8000e-004</b>	<b>0.0823</b>	<b>0.0218</b>	<b>1.6000e-004</b>	<b>0.0220</b>		<b>50.3437</b>	<b>50.3437</b>	<b>4.0000e-004</b>		<b>50.3536</b>

**4.0 Operational Detail - Mobile**

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Eliot Quarry - North Area Reclamation Activities - Alameda County, Summer

**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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.560518	0.034619	0.186702	0.100511	0.010696	0.005021	0.030533	0.061190	0.002486	0.001477	0.005168	0.000445	0.000633

Eliot Quarry - North Area Reclamation Activities - Alameda County, Summer

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

Eliot Quarry - North Area Reclamation Activities - Alameda County, Summer

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Eliot Quarry - North Area Reclamation Activities - Alameda County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.2500e-003	3.2000e-004	0.0355	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0766	0.0766	2.0000e-004		0.0815
Unmitigated	3.2500e-003	3.2000e-004	0.0355	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0766	0.0766	2.0000e-004		0.0815

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	3.2500e-003	3.2000e-004	0.0355	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0766	0.0766	2.0000e-004		0.0815
<b>Total</b>	<b>3.2500e-003</b>	<b>3.2000e-004</b>	<b>0.0355</b>	<b>0.0000</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>		<b>0.0766</b>	<b>0.0766</b>	<b>2.0000e-004</b>		<b>0.0815</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Summer

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					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	3.2500e-003	3.2000e-004	0.0355	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0766	0.0766	2.0000e-004		0.0815
<b>Total</b>	<b>3.2500e-003</b>	<b>3.2000e-004</b>	<b>0.0355</b>	<b>0.0000</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>		<b>0.0766</b>	<b>0.0766</b>	<b>2.0000e-004</b>		<b>0.0815</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

Eliot Quarry - North Area Reclamation Activities - Alameda County, Summer

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Eliot Quarry - North Area Reclamation Activities - Alameda County, Winter

**Eliot Quarry - North Area Reclamation Activities**  
**Alameda County, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	350.00	User Defined Unit	350.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	63
<b>Climate Zone</b>	4			<b>Operational Year</b>	2050
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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



Eliot Quarry - North Area Reclamation Activities - Alameda County, Winter

Project Characteristics - North Area reclamation activity per Revised Reclamation Plan.

Land Use - North Areas approximately 350 acres, bound by Stanley Boulevard to the north.

Construction Phase - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Trips and VMT - See CalEEMod modeling assumptions attachment.

Demolition - See CalEEMod modeling assumptions attachment.

Grading - See CalEEMod modeling assumptions attachment.

Energy Use -

Construction Off-road Equipment Mitigation - Mitigation assumptions based on BAAQMD CEQA Guide BMPs for PM reduction.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	400.00	60.00
tblConstructionPhase	NumDays	620.00	10.00
tblConstructionPhase	NumDays	620.00	20.00
tblConstructionPhase	NumDays	620.00	10.00
tblConstructionPhase	NumDays	240.00	5.00
tblConstructionPhase	NumDays	240.00	15.00
tblGrading	AcresOfGrading	25.00	120.00
tblGrading	AcresOfGrading	50.00	135.00
tblGrading	AcresOfGrading	25.00	8.00
tblLandUse	LotAcreage	0.00	350.00

## Eliot Quarry - North Area Reclamation Activities - Alameda County, Winter

tblOffRoadEquipment	HorsePower	158.00	396.00
tblOffRoadEquipment	HorsePower	402.00	511.00
tblOffRoadEquipment	HorsePower	97.00	276.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblTripsAndVMT	HaulingTripNumber	99.00	100.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	3.00	6.00
tblTripsAndVMT	WorkerTripNumber	43.00	36.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00

## 2.0 Emissions Summary

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Eliot Quarry - North Area Reclamation Activities - Alameda County, Winter

**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	3.2500e-003	3.2000e-004	0.0355	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0766	0.0766	2.0000e-004		0.0815
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
<b>Total</b>	<b>3.2500e-003</b>	<b>3.2000e-004</b>	<b>0.0355</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>1.3000e-004</b>		<b>0.0766</b>	<b>0.0766</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.0815</b>

**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	3.2500e-003	3.2000e-004	0.0355	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0766	0.0766	2.0000e-004		0.0815
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
<b>Total</b>	<b>3.2500e-003</b>	<b>3.2000e-004</b>	<b>0.0355</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>1.3000e-004</b>		<b>0.0766</b>	<b>0.0766</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.0815</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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	North Area - Soil Cap on Main Silt Pond	Grading	9/2/2030	9/13/2030	5	10	Add soil cap to main silt pond prior to reveg
2	North Area - Revegetate Main Silt Pond	Site Preparation	10/1/2030	10/7/2030	5	5	Revegetation
3	North Area - Removal of Processing Plants	Demolition	5/3/2049	7/23/2049	5	60	Disassemble and remove Ag RMg AC plantsg
4	North Area - Grade Plant and Lake J Areas	Grading	7/26/2049	8/20/2049	5	20	Contour grading and resoiling
5	North Area - Retention Ponds	Grading	8/23/2049	9/3/2049	5	10	Install 3 retention ponds
6	North Area - Revegetation	Site Preparation	10/4/2049	10/22/2049	5	15	Revegetation

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; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
North Area - Soil Cap on Main Silt Pond	Excavators	2	8.00	158	0.38
North Area - Soil Cap on Main Silt Pond	Graders	1	8.00	187	0.41
North Area - Soil Cap on Main Silt Pond	Off-Highway Trucks	2	8.00	511	0.38

Eliot Quarry - North Area Reclamation Activities - Alameda County, Winter

North Area - Soil Cap on Main Silt Pond	Off-Highway Trucks	1	8.00	402	0.38
North Area - Soil Cap on Main Silt Pond	Rubber Tired Dozers	1	8.00	247	0.40
North Area - Soil Cap on Main Silt Pond	Scrapers	2	8.00	367	0.48
North Area - Soil Cap on Main Silt Pond	Tractors/Loaders/Backhoes	2	8.00	97	0.37
North Area - Revegetate Main Silt Pond	Off-Highway Trucks	1	8.00	402	0.38
North Area - Revegetate Main Silt Pond	Rubber Tired Dozers	0	0.00	247	0.40
North Area - Revegetate Main Silt Pond	Tractors/Loaders/Backhoes	0	0.00	97	0.37
North Area - Removal of Processing Plants	Concrete/Industrial Saws	3	8.00	81	0.73
North Area - Removal of Processing Plants	Cranes	1	8.00	231	0.29
North Area - Removal of Processing Plants	Excavators	3	8.00	396	0.38
North Area - Removal of Processing Plants	Forklifts	1	8.00	89	0.20
North Area - Removal of Processing Plants	Generator Sets	3	8.00	84	0.74
North Area - Removal of Processing Plants	Off-Highway Trucks	1	8.00	402	0.38
North Area - Removal of Processing Plants	Rubber Tired Dozers	0	0.00	247	0.40
North Area - Removal of Processing Plants	Tractors/Loaders/Backhoes	2	8.00	276	0.37
North Area - Removal of Processing Plants	Welders	3	8.00	46	0.45
North Area - Grade Plant and Lake J Areas	Excavators	2	8.00	158	0.38
North Area - Grade Plant and Lake J Areas	Graders	1	8.00	187	0.41
North Area - Grade Plant and Lake J Areas	Off-Highway Trucks	1	8.00	402	0.38
North Area - Grade Plant and Lake J Areas	Rubber Tired Dozers	1	8.00	247	0.40
North Area - Grade Plant and Lake J Areas	Scrapers	2	8.00	367	0.48
North Area - Grade Plant and Lake J Areas	Tractors/Loaders/Backhoes	2	8.00	97	0.37
North Area - Retention Ponds	Excavators	2	8.00	158	0.38
North Area - Retention Ponds	Graders	1	8.00	187	0.41

Eliot Quarry - North Area Reclamation Activities - Alameda County, Winter

North Area - Retention Ponds	Off-Highway Trucks	1	8.00	402	0.38
North Area - Retention Ponds	Rubber Tired Dozers	1	8.00	247	0.40
North Area - Retention Ponds	Scrapers	2	8.00	367	0.48
North Area - Retention Ponds	Tractors/Loaders/Backhoes	2	8.00	97	0.37
North Area - Revegetation	Off-Highway Trucks	1	8.00	402	0.38
North Area - Revegetation	Rubber Tired Dozers	0	0.00	247	0.40
North Area - Revegetation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

**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
North Area - Soil Cap on Main Silt Pond	11	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
North Area - Revegetate Main Silt	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
North Area - Removal of Processing Plants	17	36.00	6.00	100.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
North Area - Grade Plant and Lake 1 Area	9	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
North Area - Retention Ponds	9	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
North Area - Revegetation	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Eliot Quarry - North Area Reclamation Activities - Alameda County, Winter

**3.2 North Area - Soil Cap on Main Silt Pond - 2030**

**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					18.7481	0.0000	18.7481	4.6843	0.0000	4.6843			0.0000			0.0000
Off-Road	5.3490	18.2514	33.5601	0.1177		0.6502	0.6502		0.6502	0.6502		12,636.79 69	12,636.79 69	0.4728		12,648.61 79
<b>Total</b>	<b>5.3490</b>	<b>18.2514</b>	<b>33.5601</b>	<b>0.1177</b>	<b>18.7481</b>	<b>0.6502</b>	<b>19.3983</b>	<b>4.6843</b>	<b>0.6502</b>	<b>5.3345</b>		<b>12,636.79 69</b>	<b>12,636.79 69</b>	<b>0.4728</b>		<b>12,648.61 79</b>

**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	0.0558	0.0298	0.3488	1.5100e-003	0.2300	1.0200e-003	0.2310	0.0610	9.3000e-004	0.0619		151.0989	151.0989	2.0600e-003		151.1505
<b>Total</b>	<b>0.0558</b>	<b>0.0298</b>	<b>0.3488</b>	<b>1.5100e-003</b>	<b>0.2300</b>	<b>1.0200e-003</b>	<b>0.2310</b>	<b>0.0610</b>	<b>9.3000e-004</b>	<b>0.0619</b>		<b>151.0989</b>	<b>151.0989</b>	<b>2.0600e-003</b>		<b>151.1505</b>



Eliot Quarry - North Area Reclamation Activities - Alameda County, Winter

**3.2 North Area - Soil Cap on Main Silt Pond - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4366	0.0000	8.4366	2.1080	0.0000	2.1080			0.0000			0.0000
Off-Road	5.3490	18.2514	33.5601	0.1177		0.6502	0.6502		0.6502	0.6502	0.0000	12,636.79 69	12,636.79 69	0.4728		12,648.61 79
<b>Total</b>	<b>5.3490</b>	<b>18.2514</b>	<b>33.5601</b>	<b>0.1177</b>	<b>8.4366</b>	<b>0.6502</b>	<b>9.0868</b>	<b>2.1080</b>	<b>0.6502</b>	<b>2.7581</b>	<b>0.0000</b>	<b>12,636.79 69</b>	<b>12,636.79 69</b>	<b>0.4728</b>		<b>12,648.61 79</b>

**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	0.0558	0.0298	0.3488	1.5100e-003	0.2300	1.0200e-003	0.2310	0.0610	9.3000e-004	0.0619		151.0989	151.0989	2.0600e-003		151.1505
<b>Total</b>	<b>0.0558</b>	<b>0.0298</b>	<b>0.3488</b>	<b>1.5100e-003</b>	<b>0.2300</b>	<b>1.0200e-003</b>	<b>0.2310</b>	<b>0.0610</b>	<b>9.3000e-004</b>	<b>0.0619</b>		<b>151.0989</b>	<b>151.0989</b>	<b>2.0600e-003</b>		<b>151.1505</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Winter

**3.3 North Area - Revegetate Main Silt Pond - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5820	1.2340	2.9744	0.0135		0.0458	0.0458		0.0458	0.0458		1,531.1255	1,531.1255	0.0512		1,532.4053
<b>Total</b>	<b>0.5820</b>	<b>1.2340</b>	<b>2.9744</b>	<b>0.0135</b>	<b>0.0000</b>	<b>0.0458</b>	<b>0.0458</b>	<b>0.0000</b>	<b>0.0458</b>	<b>0.0458</b>		<b>1,531.1255</b>	<b>1,531.1255</b>	<b>0.0512</b>		<b>1,532.4053</b>

**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	0.0120	6.3900e-003	0.0747	3.2000e-004	0.0493	2.2000e-004	0.0495	0.0131	2.0000e-004	0.0133		32.3783	32.3783	4.4000e-004		32.3894
<b>Total</b>	<b>0.0120</b>	<b>6.3900e-003</b>	<b>0.0747</b>	<b>3.2000e-004</b>	<b>0.0493</b>	<b>2.2000e-004</b>	<b>0.0495</b>	<b>0.0131</b>	<b>2.0000e-004</b>	<b>0.0133</b>		<b>32.3783</b>	<b>32.3783</b>	<b>4.4000e-004</b>		<b>32.3894</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Winter

**3.3 North Area - Revegetate Main Silt Pond - 2030**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5820	1.2340	2.9744	0.0135		0.0458	0.0458		0.0458	0.0458	0.0000	1,531.1255	1,531.1255	0.0512		1,532.4053
<b>Total</b>	<b>0.5820</b>	<b>1.2340</b>	<b>2.9744</b>	<b>0.0135</b>	<b>0.0000</b>	<b>0.0458</b>	<b>0.0458</b>	<b>0.0000</b>	<b>0.0458</b>	<b>0.0458</b>	<b>0.0000</b>	<b>1,531.1255</b>	<b>1,531.1255</b>	<b>0.0512</b>		<b>1,532.4053</b>

**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	0.0120	6.3900e-003	0.0747	3.2000e-004	0.0493	2.2000e-004	0.0495	0.0131	2.0000e-004	0.0133		32.3783	32.3783	4.4000e-004		32.3894
<b>Total</b>	<b>0.0120</b>	<b>6.3900e-003</b>	<b>0.0747</b>	<b>3.2000e-004</b>	<b>0.0493</b>	<b>2.2000e-004</b>	<b>0.0495</b>	<b>0.0131</b>	<b>2.0000e-004</b>	<b>0.0133</b>		<b>32.3783</b>	<b>32.3783</b>	<b>4.4000e-004</b>		<b>32.3894</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Winter

**3.4 North Area - Removal of Processing Plants - 2049**

**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					0.3567	0.0000	0.3567	0.0540	0.0000	0.0540			0.0000			0.0000
Off-Road	4.5725	17.6300	44.5375	0.1300		0.2765	0.2765		0.2765	0.2765		13,222.4465	13,222.4465	0.4009		13,232.4683
<b>Total</b>	<b>4.5725</b>	<b>17.6300</b>	<b>44.5375</b>	<b>0.1300</b>	<b>0.3567</b>	<b>0.2765</b>	<b>0.6331</b>	<b>0.0540</b>	<b>0.2765</b>	<b>0.3305</b>		<b>13,222.4465</b>	<b>13,222.4465</b>	<b>0.4009</b>		<b>13,232.4683</b>

**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	7.9400e-003	0.2359	0.0703	1.1600e-003	0.0292	4.1000e-004	0.0296	8.0100e-003	3.9000e-004	8.4000e-003		123.8530	123.8530	5.6300e-003		123.9938
Vendor	0.0106	0.4343	0.0895	1.4800e-003	0.0407	4.2000e-004	0.0411	0.0117	4.0000e-004	0.0121		156.5734	156.5734	6.9800e-003		156.7478
Worker	0.0364	0.0209	0.2673	1.6700e-003	0.2957	6.3000e-004	0.2964	0.0784	5.8000e-004	0.0790		166.6419	166.6419	1.2700e-003		166.6736
<b>Total</b>	<b>0.0549</b>	<b>0.6911</b>	<b>0.4271</b>	<b>4.3100e-003</b>	<b>0.3656</b>	<b>1.4600e-003</b>	<b>0.3671</b>	<b>0.0982</b>	<b>1.3700e-003</b>	<b>0.0995</b>		<b>447.0682</b>	<b>447.0682</b>	<b>0.0139</b>		<b>447.4153</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Winter

**3.4 North Area - Removal of Processing Plants - 2049**

**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					0.1605	0.0000	0.1605	0.0243	0.0000	0.0243			0.0000			0.0000
Off-Road	4.5725	17.6300	44.5375	0.1300		0.2765	0.2765		0.2765	0.2765	0.0000	13,222.44 64	13,222.44 64	0.4009		13,232.46 83
<b>Total</b>	<b>4.5725</b>	<b>17.6300</b>	<b>44.5375</b>	<b>0.1300</b>	<b>0.1605</b>	<b>0.2765</b>	<b>0.4370</b>	<b>0.0243</b>	<b>0.2765</b>	<b>0.3008</b>	<b>0.0000</b>	<b>13,222.44 64</b>	<b>13,222.44 64</b>	<b>0.4009</b>		<b>13,232.46 83</b>

**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	7.9400e-003	0.2359	0.0703	1.1600e-003	0.0292	4.1000e-004	0.0296	8.0100e-003	3.9000e-004	8.4000e-003		123.8530	123.8530	5.6300e-003		123.9938
Vendor	0.0106	0.4343	0.0895	1.4800e-003	0.0407	4.2000e-004	0.0411	0.0117	4.0000e-004	0.0121		156.5734	156.5734	6.9800e-003		156.7478
Worker	0.0364	0.0209	0.2673	1.6700e-003	0.2957	6.3000e-004	0.2964	0.0784	5.8000e-004	0.0790		166.6419	166.6419	1.2700e-003		166.6736
<b>Total</b>	<b>0.0549</b>	<b>0.6911</b>	<b>0.4271</b>	<b>4.3100e-003</b>	<b>0.3656</b>	<b>1.4600e-003</b>	<b>0.3671</b>	<b>0.0982</b>	<b>1.3700e-003</b>	<b>0.0995</b>		<b>447.0682</b>	<b>447.0682</b>	<b>0.0139</b>		<b>447.4153</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Winter

**3.5 North Area - Grade Plant and Lake J Areas - 2049**

**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					13.1805	0.0000	13.1805	4.0832	0.0000	4.0832			0.0000			0.0000
Off-Road	3.2737	8.2102	25.2893	0.0834		0.2574	0.2574		0.2574	0.2574		8,744.234 1	8,744.234 1	0.2855		8,751.372 2
<b>Total</b>	<b>3.2737</b>	<b>8.2102</b>	<b>25.2893</b>	<b>0.0834</b>	<b>13.1805</b>	<b>0.2574</b>	<b>13.4378</b>	<b>4.0832</b>	<b>0.2574</b>	<b>4.3405</b>		<b>8,744.234 1</b>	<b>8,744.234 1</b>	<b>0.2855</b>		<b>8,751.372 2</b>

**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	0.0232	0.0134	0.1708	1.0700e-003	0.1889	4.0000e-004	0.1893	0.0501	3.7000e-004	0.0505		106.4656	106.4656	8.1000e-004		106.4859
<b>Total</b>	<b>0.0232</b>	<b>0.0134</b>	<b>0.1708</b>	<b>1.0700e-003</b>	<b>0.1889</b>	<b>4.0000e-004</b>	<b>0.1893</b>	<b>0.0501</b>	<b>3.7000e-004</b>	<b>0.0505</b>		<b>106.4656</b>	<b>106.4656</b>	<b>8.1000e-004</b>		<b>106.4859</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Winter

**3.5 North Area - Grade Plant and Lake J Areas - 2049**

**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					5.9312	0.0000	5.9312	1.8374	0.0000	1.8374			0.0000			0.0000
Off-Road	3.2737	8.2102	25.2893	0.0834		0.2574	0.2574		0.2574	0.2574	0.0000	8,744.2340	8,744.2340	0.2855		8,751.3721
<b>Total</b>	<b>3.2737</b>	<b>8.2102</b>	<b>25.2893</b>	<b>0.0834</b>	<b>5.9312</b>	<b>0.2574</b>	<b>6.1886</b>	<b>1.8374</b>	<b>0.2574</b>	<b>2.0948</b>	<b>0.0000</b>	<b>8,744.2340</b>	<b>8,744.2340</b>	<b>0.2855</b>		<b>8,751.3721</b>

**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	0.0232	0.0134	0.1708	1.0700e-003	0.1889	4.0000e-004	0.1893	0.0501	3.7000e-004	0.0505		106.4656	106.4656	8.1000e-004		106.4859
<b>Total</b>	<b>0.0232</b>	<b>0.0134</b>	<b>0.1708</b>	<b>1.0700e-003</b>	<b>0.1889</b>	<b>4.0000e-004</b>	<b>0.1893</b>	<b>0.0501</b>	<b>3.7000e-004</b>	<b>0.0505</b>		<b>106.4656</b>	<b>106.4656</b>	<b>8.1000e-004</b>		<b>106.4859</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Winter

**3.6 North Area - Retention Ponds - 2049**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.8705	0.0000	6.8705	3.4018	0.0000	3.4018			0.0000			0.0000
Off-Road	3.2737	8.2102	25.2893	0.0834		0.2574	0.2574		0.2574	0.2574		8,744.234 1	8,744.234 1	0.2855		8,751.372 2
<b>Total</b>	<b>3.2737</b>	<b>8.2102</b>	<b>25.2893</b>	<b>0.0834</b>	<b>6.8705</b>	<b>0.2574</b>	<b>7.1278</b>	<b>3.4018</b>	<b>0.2574</b>	<b>3.6592</b>		<b>8,744.234 1</b>	<b>8,744.234 1</b>	<b>0.2855</b>		<b>8,751.372 2</b>

**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	0.0232	0.0134	0.1708	1.0700e-003	0.1889	4.0000e-004	0.1893	0.0501	3.7000e-004	0.0505		106.4656	106.4656	8.1000e-004		106.4859
<b>Total</b>	<b>0.0232</b>	<b>0.0134</b>	<b>0.1708</b>	<b>1.0700e-003</b>	<b>0.1889</b>	<b>4.0000e-004</b>	<b>0.1893</b>	<b>0.0501</b>	<b>3.7000e-004</b>	<b>0.0505</b>		<b>106.4656</b>	<b>106.4656</b>	<b>8.1000e-004</b>		<b>106.4859</b>



Eliot Quarry - North Area Reclamation Activities - Alameda County, Winter

**3.6 North Area - Retention Ponds - 2049**

**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					3.0917	0.0000	3.0917	1.5308	0.0000	1.5308			0.0000			0.0000
Off-Road	3.2737	8.2102	25.2893	0.0834		0.2574	0.2574		0.2574	0.2574	0.0000	8,744.2340	8,744.2340	0.2855		8,751.3721
<b>Total</b>	<b>3.2737</b>	<b>8.2102</b>	<b>25.2893</b>	<b>0.0834</b>	<b>3.0917</b>	<b>0.2574</b>	<b>3.3491</b>	<b>1.5308</b>	<b>0.2574</b>	<b>1.7882</b>	<b>0.0000</b>	<b>8,744.2340</b>	<b>8,744.2340</b>	<b>0.2855</b>		<b>8,751.3721</b>

**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	0.0232	0.0134	0.1708	1.0700e-003	0.1889	4.0000e-004	0.1893	0.0501	3.7000e-004	0.0505		106.4656	106.4656	8.1000e-004		106.4859
<b>Total</b>	<b>0.0232</b>	<b>0.0134</b>	<b>0.1708</b>	<b>1.0700e-003</b>	<b>0.1889</b>	<b>4.0000e-004</b>	<b>0.1893</b>	<b>0.0501</b>	<b>3.7000e-004</b>	<b>0.0505</b>		<b>106.4656</b>	<b>106.4656</b>	<b>8.1000e-004</b>		<b>106.4859</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Winter

**3.7 North Area - Revegetation - 2049**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5496	0.8217	2.9771	0.0135		0.0323	0.0323		0.0323	0.0323		1,531.1255	1,531.1255	0.0485		1,532.3379
<b>Total</b>	<b>0.5496</b>	<b>0.8217</b>	<b>2.9771</b>	<b>0.0135</b>	<b>0.0000</b>	<b>0.0323</b>	<b>0.0323</b>	<b>0.0000</b>	<b>0.0323</b>	<b>0.0323</b>		<b>1,531.1255</b>	<b>1,531.1255</b>	<b>0.0485</b>		<b>1,532.3379</b>

**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	0.0101	5.8000e-003	0.0743	4.6000e-004	0.0822	1.8000e-004	0.0823	0.0218	1.6000e-004	0.0220		46.2894	46.2894	3.5000e-004		46.2982
<b>Total</b>	<b>0.0101</b>	<b>5.8000e-003</b>	<b>0.0743</b>	<b>4.6000e-004</b>	<b>0.0822</b>	<b>1.8000e-004</b>	<b>0.0823</b>	<b>0.0218</b>	<b>1.6000e-004</b>	<b>0.0220</b>		<b>46.2894</b>	<b>46.2894</b>	<b>3.5000e-004</b>		<b>46.2982</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Winter

**3.7 North Area - Revegetation - 2049**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.5496	0.8217	2.9771	0.0135		0.0323	0.0323		0.0323	0.0323	0.0000	1,531.1255	1,531.1255	0.0485		1,532.3379
<b>Total</b>	<b>0.5496</b>	<b>0.8217</b>	<b>2.9771</b>	<b>0.0135</b>	<b>0.0000</b>	<b>0.0323</b>	<b>0.0323</b>	<b>0.0000</b>	<b>0.0323</b>	<b>0.0323</b>	<b>0.0000</b>	<b>1,531.1255</b>	<b>1,531.1255</b>	<b>0.0485</b>		<b>1,532.3379</b>

**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	0.0101	5.8000e-003	0.0743	4.6000e-004	0.0822	1.8000e-004	0.0823	0.0218	1.6000e-004	0.0220		46.2894	46.2894	3.5000e-004		46.2982
<b>Total</b>	<b>0.0101</b>	<b>5.8000e-003</b>	<b>0.0743</b>	<b>4.6000e-004</b>	<b>0.0822</b>	<b>1.8000e-004</b>	<b>0.0823</b>	<b>0.0218</b>	<b>1.6000e-004</b>	<b>0.0220</b>		<b>46.2894</b>	<b>46.2894</b>	<b>3.5000e-004</b>		<b>46.2982</b>

**4.0 Operational Detail - Mobile**

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Eliot Quarry - North Area Reclamation Activities - Alameda County, Winter

**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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.560518	0.034619	0.186702	0.100511	0.010696	0.005021	0.030533	0.061190	0.002486	0.001477	0.005168	0.000445	0.000633

Eliot Quarry - North Area Reclamation Activities - Alameda County, Winter

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

Eliot Quarry - North Area Reclamation Activities - Alameda County, Winter

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Eliot Quarry - North Area Reclamation Activities - Alameda County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.2500e-003	3.2000e-004	0.0355	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0766	0.0766	2.0000e-004		0.0815
Unmitigated	3.2500e-003	3.2000e-004	0.0355	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0766	0.0766	2.0000e-004		0.0815

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	3.2500e-003	3.2000e-004	0.0355	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0766	0.0766	2.0000e-004		0.0815
<b>Total</b>	<b>3.2500e-003</b>	<b>3.2000e-004</b>	<b>0.0355</b>	<b>0.0000</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>		<b>0.0766</b>	<b>0.0766</b>	<b>2.0000e-004</b>		<b>0.0815</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Winter

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					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	3.2500e-003	3.2000e-004	0.0355	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0766	0.0766	2.0000e-004		0.0815
<b>Total</b>	<b>3.2500e-003</b>	<b>3.2000e-004</b>	<b>0.0355</b>	<b>0.0000</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>		<b>0.0766</b>	<b>0.0766</b>	<b>2.0000e-004</b>		<b>0.0815</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators



Eliot Quarry - North Area Reclamation Activities - Alameda County, Winter

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

**Eliot Quarry - North Area Reclamation Activities  
Alameda County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	350.00	User Defined Unit	350.00	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	63
<b>Climate Zone</b>	4			<b>Operational Year</b>	2050
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	641.35	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

Project Characteristics - North Area reclamation activity per Revised Reclamation Plan.

Land Use - North Areas approximately 350 acres, bound by Stanley Boulevard to the north.

Construction Phase - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Off-road Equipment - See CalEEMod modeling assumptions attachment.

Trips and VMT - See CalEEMod modeling assumptions attachment.

Demolition - See CalEEMod modeling assumptions attachment.

Grading - See CalEEMod modeling assumptions attachment.

Energy Use -

Construction Off-road Equipment Mitigation - Mitigation assumptions based on BAAQMD CEQA Guide BMPs for PM reduction.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	400.00	60.00
tblConstructionPhase	NumDays	620.00	10.00
tblConstructionPhase	NumDays	620.00	20.00
tblConstructionPhase	NumDays	620.00	10.00
tblConstructionPhase	NumDays	240.00	5.00
tblConstructionPhase	NumDays	240.00	15.00
tblGrading	AcresOfGrading	25.00	120.00
tblGrading	AcresOfGrading	50.00	135.00
tblGrading	AcresOfGrading	25.00	8.00
tblLandUse	LotAcreage	0.00	350.00

## Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

tblOffRoadEquipment	HorsePower	158.00	396.00
tblOffRoadEquipment	HorsePower	402.00	511.00
tblOffRoadEquipment	HorsePower	97.00	276.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblTripsAndVMT	HaulingTripNumber	99.00	100.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	3.00	6.00
tblTripsAndVMT	WorkerTripNumber	43.00	36.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00

## 2.0 Emissions Summary

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Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
47	7-22-2030	10-21-2030	0.1061	0.1061
122	4-22-2049	7-21-2049	0.6553	0.6553
123	7-22-2049	9-30-2049	0.1727	0.1727
		Highest	0.6553	0.6553

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.9000e-004	3.0000e-005	3.2000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.2500e-003	6.2500e-003	2.0000e-005	0.0000	6.6600e-003
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
<b>Total</b>	<b>2.9000e-004</b>	<b>3.0000e-005</b>	<b>3.2000e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>6.2500e-003</b>	<b>6.2500e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>6.6600e-003</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

**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	2.9000e-004	3.0000e-005	3.2000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.2500e-003	6.2500e-003	2.0000e-005	0.0000	6.6600e-003
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
<b>Total</b>	<b>2.9000e-004</b>	<b>3.0000e-005</b>	<b>3.2000e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>6.2500e-003</b>	<b>6.2500e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>6.6600e-003</b>

	ROG	NOx	CO	SO2	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**

Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	North Area - Soil Cap on Main Silt Pond	Grading	9/2/2030	9/13/2030	5	10	Add soil cap to main silt pond prior to reveg
2	North Area - Revegetate Main Silt Pond	Site Preparation	10/1/2030	10/7/2030	5	5	Revegetation
3	North Area - Removal of Processing Plants	Demolition	5/3/2049	7/23/2049	5	60	Disassemble and remove Ag RMg AC plantsg
4	North Area - Grade Plant and Lake J Areas	Grading	7/26/2049	8/20/2049	5	20	Contour grading and resoiling
5	North Area - Retention Ponds	Grading	8/23/2049	9/3/2049	5	10	Install 3 retention ponds
6	North Area - Revegetation	Site Preparation	10/4/2049	10/22/2049	5	15	Revegetation

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; Striped Parking Area: 0 (Architectural Coating – sqft)

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
North Area - Soil Cap on Main Silt Pond	Excavators	2	8.00	158	0.38
North Area - Soil Cap on Main Silt Pond	Graders	1	8.00	187	0.41
North Area - Soil Cap on Main Silt Pond	Off-Highway Trucks	2	8.00	511	0.38
North Area - Soil Cap on Main Silt Pond	Off-Highway Trucks	1	8.00	402	0.38
North Area - Soil Cap on Main Silt Pond	Rubber Tired Dozers	1	8.00	247	0.40
North Area - Soil Cap on Main Silt Pond	Scrapers	2	8.00	367	0.48
North Area - Soil Cap on Main Silt Pond	Tractors/Loaders/Backhoes	2	8.00	97	0.37
North Area - Revegetate Main Silt Pond	Off-Highway Trucks	1	8.00	402	0.38
North Area - Revegetate Main Silt Pond	Rubber Tired Dozers	0	0.00	247	0.40
North Area - Revegetate Main Silt Pond	Tractors/Loaders/Backhoes	0	0.00	97	0.37



Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

North Area - Removal of Processing Plants	Concrete/Industrial Saws	3	8.00	81	0.73
North Area - Removal of Processing Plants	Cranes	1	8.00	231	0.29
North Area - Removal of Processing Plants	Excavators	3	8.00	396	0.38
North Area - Removal of Processing Plants	Forklifts	1	8.00	89	0.20
North Area - Removal of Processing Plants	Generator Sets	3	8.00	84	0.74
North Area - Removal of Processing Plants	Off-Highway Trucks	1	8.00	402	0.38
North Area - Removal of Processing Plants	Rubber Tired Dozers	0	0.00	247	0.40
North Area - Removal of Processing Plants	Tractors/Loaders/Backhoes	2	8.00	276	0.37
North Area - Removal of Processing Plants	Welders	3	8.00	46	0.45
North Area - Grade Plant and Lake J Areas	Excavators	2	8.00	158	0.38
North Area - Grade Plant and Lake J Areas	Graders	1	8.00	187	0.41
North Area - Grade Plant and Lake J Areas	Off-Highway Trucks	1	8.00	402	0.38
North Area - Grade Plant and Lake J Areas	Rubber Tired Dozers	1	8.00	247	0.40
North Area - Grade Plant and Lake J Areas	Scrapers	2	8.00	367	0.48
North Area - Grade Plant and Lake J Areas	Tractors/Loaders/Backhoes	2	8.00	97	0.37
North Area - Retention Ponds	Excavators	2	8.00	158	0.38
North Area - Retention Ponds	Graders	1	8.00	187	0.41
North Area - Retention Ponds	Off-Highway Trucks	1	8.00	402	0.38
North Area - Retention Ponds	Rubber Tired Dozers	1	8.00	247	0.40
North Area - Retention Ponds	Scrapers	2	8.00	367	0.48
North Area - Retention Ponds	Tractors/Loaders/Backhoes	2	8.00	97	0.37
North Area - Revegetation	Off-Highway Trucks	1	8.00	402	0.38
North Area - Revegetation	Rubber Tired Dozers	0	0.00	247	0.40
North Area - Revegetation	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

**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
North Area - Soil Cap on Main Silt Pond	11	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
North Area - Revegetate Main Silt Pond	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
North Area - Removal of Processing Plants	17	36.00	6.00	100.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
North Area - Grade Plant and Lake 1 Area	9	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
North Area - Retention Ponds	9	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
North Area - Revegetation	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 North Area - Soil Cap on Main Silt Pond - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0937	0.0000	0.0937	0.0234	0.0000	0.0234	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0267	0.0913	0.1678	5.9000e-004		3.2500e-003	3.2500e-003		3.2500e-003	3.2500e-003	0.0000	57.3196	57.3196	2.1400e-003	0.0000	57.3732
<b>Total</b>	<b>0.0267</b>	<b>0.0913</b>	<b>0.1678</b>	<b>5.9000e-004</b>	<b>0.0937</b>	<b>3.2500e-003</b>	<b>0.0970</b>	<b>0.0234</b>	<b>3.2500e-003</b>	<b>0.0267</b>	<b>0.0000</b>	<b>57.3196</b>	<b>57.3196</b>	<b>2.1400e-003</b>	<b>0.0000</b>	<b>57.3732</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

**3.2 North Area - Soil Cap on Main Silt Pond - 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	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	2.5000e-004	1.4000e-004	1.7100e-003	1.0000e-005	1.1100e-003	1.0000e-005	1.1100e-003	2.9000e-004	0.0000	3.0000e-004	0.0000	0.6908	0.6908	1.0000e-005	0.0000	0.6910
<b>Total</b>	<b>2.5000e-004</b>	<b>1.4000e-004</b>	<b>1.7100e-003</b>	<b>1.0000e-005</b>	<b>1.1100e-003</b>	<b>1.0000e-005</b>	<b>1.1100e-003</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.6908</b>	<b>0.6908</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.6910</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0422	0.0000	0.0422	0.0105	0.0000	0.0105	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0267	0.0913	0.1678	5.9000e-004		3.2500e-003	3.2500e-003		3.2500e-003	3.2500e-003	0.0000	57.3195	57.3195	2.1400e-003	0.0000	57.3731
<b>Total</b>	<b>0.0267</b>	<b>0.0913</b>	<b>0.1678</b>	<b>5.9000e-004</b>	<b>0.0422</b>	<b>3.2500e-003</b>	<b>0.0454</b>	<b>0.0105</b>	<b>3.2500e-003</b>	<b>0.0138</b>	<b>0.0000</b>	<b>57.3195</b>	<b>57.3195</b>	<b>2.1400e-003</b>	<b>0.0000</b>	<b>57.3731</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

**3.2 North Area - Soil Cap on Main Silt Pond - 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	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	2.5000e-004	1.4000e-004	1.7100e-003	1.0000e-005	1.1100e-003	1.0000e-005	1.1100e-003	2.9000e-004	0.0000	3.0000e-004	0.0000	0.6908	0.6908	1.0000e-005	0.0000	0.6910
<b>Total</b>	<b>2.5000e-004</b>	<b>1.4000e-004</b>	<b>1.7100e-003</b>	<b>1.0000e-005</b>	<b>1.1100e-003</b>	<b>1.0000e-005</b>	<b>1.1100e-003</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>0.6908</b>	<b>0.6908</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.6910</b>

**3.3 North Area - Revegetate Main Silt Pond - 2030**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	3.0800e-003	7.4400e-003	3.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	3.4725	3.4725	1.2000e-004	0.0000	3.4754
<b>Total</b>	<b>1.4500e-003</b>	<b>3.0800e-003</b>	<b>7.4400e-003</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>3.4725</b>	<b>3.4725</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>3.4754</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

**3.3 North Area - Revegetate Main Silt Pond - 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	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	3.0000e-005	1.0000e-005	1.8000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0740	0.0740	0.0000	0.0000	0.0740
<b>Total</b>	<b>3.0000e-005</b>	<b>1.0000e-005</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0740</b>	<b>0.0740</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0740</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	3.0800e-003	7.4400e-003	3.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	3.4725	3.4725	1.2000e-004	0.0000	3.4754
<b>Total</b>	<b>1.4500e-003</b>	<b>3.0800e-003</b>	<b>7.4400e-003</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>3.4725</b>	<b>3.4725</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>3.4754</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

**3.3 North Area - Revegetate Main Silt Pond - 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	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	3.0000e-005	1.0000e-005	1.8000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0740	0.0740	0.0000	0.0000	0.0740
<b>Total</b>	<b>3.0000e-005</b>	<b>1.0000e-005</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0740</b>	<b>0.0740</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0740</b>

**3.4 North Area - Removal of Processing Plants - 2049**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0107	0.0000	0.0107	1.6200e-003	0.0000	1.6200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1372	0.5289	1.3361	3.9000e-003		8.2900e-003	8.2900e-003		8.2900e-003	8.2900e-003	0.0000	359.8561	359.8561	0.0109	0.0000	360.1288
<b>Total</b>	<b>0.1372</b>	<b>0.5289</b>	<b>1.3361</b>	<b>3.9000e-003</b>	<b>0.0107</b>	<b>8.2900e-003</b>	<b>0.0190</b>	<b>1.6200e-003</b>	<b>8.2900e-003</b>	<b>9.9100e-003</b>	<b>0.0000</b>	<b>359.8561</b>	<b>359.8561</b>	<b>0.0109</b>	<b>0.0000</b>	<b>360.1288</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

**3.4 North Area - Removal of Processing Plants - 2049**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.3000e-004	7.0800e-003	2.0400e-003	4.0000e-005	8.5000e-004	1.0000e-005	8.6000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	3.4070	3.4070	1.5000e-004	0.0000	3.4107
Vendor	3.1000e-004	0.0131	2.5100e-003	5.0000e-005	1.1800e-003	1.0000e-005	1.2000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	4.3291	4.3291	1.8000e-004	0.0000	4.3337
Worker	9.6000e-004	5.7000e-004	7.9500e-003	5.0000e-005	8.5400e-003	2.0000e-005	8.5600e-003	2.2700e-003	2.0000e-005	2.2900e-003	0.0000	4.5714	4.5714	4.0000e-005	0.0000	4.5722
<b>Total</b>	<b>1.5000e-003</b>	<b>0.0207</b>	<b>0.0125</b>	<b>1.4000e-004</b>	<b>0.0106</b>	<b>4.0000e-005</b>	<b>0.0106</b>	<b>2.8400e-003</b>	<b>4.0000e-005</b>	<b>2.8800e-003</b>	<b>0.0000</b>	<b>12.3075</b>	<b>12.3075</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>12.3166</b>

**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					4.8100e-003	0.0000	4.8100e-003	7.3000e-004	0.0000	7.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1372	0.5289	1.3361	3.9000e-003		8.2900e-003	8.2900e-003		8.2900e-003	8.2900e-003	0.0000	359.8556	359.8556	0.0109	0.0000	360.1284
<b>Total</b>	<b>0.1372</b>	<b>0.5289</b>	<b>1.3361</b>	<b>3.9000e-003</b>	<b>4.8100e-003</b>	<b>8.2900e-003</b>	<b>0.0131</b>	<b>7.3000e-004</b>	<b>8.2900e-003</b>	<b>9.0200e-003</b>	<b>0.0000</b>	<b>359.8556</b>	<b>359.8556</b>	<b>0.0109</b>	<b>0.0000</b>	<b>360.1284</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

**3.4 North Area - Removal of Processing Plants - 2049**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.3000e-004	7.0800e-003	2.0400e-003	4.0000e-005	8.5000e-004	1.0000e-005	8.6000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	3.4070	3.4070	1.5000e-004	0.0000	3.4107
Vendor	3.1000e-004	0.0131	2.5100e-003	5.0000e-005	1.1800e-003	1.0000e-005	1.2000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	4.3291	4.3291	1.8000e-004	0.0000	4.3337
Worker	9.6000e-004	5.7000e-004	7.9500e-003	5.0000e-005	8.5400e-003	2.0000e-005	8.5600e-003	2.2700e-003	2.0000e-005	2.2900e-003	0.0000	4.5714	4.5714	4.0000e-005	0.0000	4.5722
<b>Total</b>	<b>1.5000e-003</b>	<b>0.0207</b>	<b>0.0125</b>	<b>1.4000e-004</b>	<b>0.0106</b>	<b>4.0000e-005</b>	<b>0.0106</b>	<b>2.8400e-003</b>	<b>4.0000e-005</b>	<b>2.8800e-003</b>	<b>0.0000</b>	<b>12.3075</b>	<b>12.3075</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>12.3166</b>

**3.5 North Area - Grade Plant and Lake J Areas - 2049**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1318	0.0000	0.1318	0.0408	0.0000	0.0408	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0327	0.0821	0.2529	8.3000e-004		2.5700e-003	2.5700e-003		2.5700e-003	2.5700e-003	0.0000	79.3264	79.3264	2.5900e-003	0.0000	79.3911
<b>Total</b>	<b>0.0327</b>	<b>0.0821</b>	<b>0.2529</b>	<b>8.3000e-004</b>	<b>0.1318</b>	<b>2.5700e-003</b>	<b>0.1344</b>	<b>0.0408</b>	<b>2.5700e-003</b>	<b>0.0434</b>	<b>0.0000</b>	<b>79.3264</b>	<b>79.3264</b>	<b>2.5900e-003</b>	<b>0.0000</b>	<b>79.3911</b>



Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

**3.5 North Area - Grade Plant and Lake J Areas - 2049**

**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	2.0000e-004	1.2000e-004	1.6900e-003	1.0000e-005	1.8200e-003	0.0000	1.8200e-003	4.8000e-004	0.0000	4.9000e-004	0.0000	0.9735	0.9735	1.0000e-005	0.0000	0.9737
<b>Total</b>	<b>2.0000e-004</b>	<b>1.2000e-004</b>	<b>1.6900e-003</b>	<b>1.0000e-005</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>1.8200e-003</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>0.9735</b>	<b>0.9735</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.9737</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0593	0.0000	0.0593	0.0184	0.0000	0.0184	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0327	0.0821	0.2529	8.3000e-004		2.5700e-003	2.5700e-003		2.5700e-003	2.5700e-003	0.0000	79.3263	79.3263	2.5900e-003	0.0000	79.3910
<b>Total</b>	<b>0.0327</b>	<b>0.0821</b>	<b>0.2529</b>	<b>8.3000e-004</b>	<b>0.0593</b>	<b>2.5700e-003</b>	<b>0.0619</b>	<b>0.0184</b>	<b>2.5700e-003</b>	<b>0.0209</b>	<b>0.0000</b>	<b>79.3263</b>	<b>79.3263</b>	<b>2.5900e-003</b>	<b>0.0000</b>	<b>79.3910</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

**3.5 North Area - Grade Plant and Lake J Areas - 2049**

**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	2.0000e-004	1.2000e-004	1.6900e-003	1.0000e-005	1.8200e-003	0.0000	1.8200e-003	4.8000e-004	0.0000	4.9000e-004	0.0000	0.9735	0.9735	1.0000e-005	0.0000	0.9737
<b>Total</b>	<b>2.0000e-004</b>	<b>1.2000e-004</b>	<b>1.6900e-003</b>	<b>1.0000e-005</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>1.8200e-003</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>0.9735</b>	<b>0.9735</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.9737</b>

**3.6 North Area - Retention Ponds - 2049**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0344	0.0000	0.0344	0.0170	0.0000	0.0170	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0164	0.0411	0.1265	4.2000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	39.6632	39.6632	1.3000e-003	0.0000	39.6956
<b>Total</b>	<b>0.0164</b>	<b>0.0411</b>	<b>0.1265</b>	<b>4.2000e-004</b>	<b>0.0344</b>	<b>1.2900e-003</b>	<b>0.0356</b>	<b>0.0170</b>	<b>1.2900e-003</b>	<b>0.0183</b>	<b>0.0000</b>	<b>39.6632</b>	<b>39.6632</b>	<b>1.3000e-003</b>	<b>0.0000</b>	<b>39.6956</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

**3.6 North Area - Retention Ponds - 2049**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	6.0000e-005	8.5000e-004	1.0000e-005	9.1000e-004	0.0000	9.1000e-004	2.4000e-004	0.0000	2.4000e-004	0.0000	0.4868	0.4868	0.0000	0.0000	0.4869
<b>Total</b>	<b>1.0000e-004</b>	<b>6.0000e-005</b>	<b>8.5000e-004</b>	<b>1.0000e-005</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>9.1000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.4868</b>	<b>0.4868</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.4869</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0155	0.0000	0.0155	7.6500e-003	0.0000	7.6500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0164	0.0411	0.1265	4.2000e-004		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	39.6631	39.6631	1.3000e-003	0.0000	39.6955
<b>Total</b>	<b>0.0164</b>	<b>0.0411</b>	<b>0.1265</b>	<b>4.2000e-004</b>	<b>0.0155</b>	<b>1.2900e-003</b>	<b>0.0168</b>	<b>7.6500e-003</b>	<b>1.2900e-003</b>	<b>8.9400e-003</b>	<b>0.0000</b>	<b>39.6631</b>	<b>39.6631</b>	<b>1.3000e-003</b>	<b>0.0000</b>	<b>39.6955</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

**3.6 North Area - Retention Ponds - 2049**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	6.0000e-005	8.5000e-004	1.0000e-005	9.1000e-004	0.0000	9.1000e-004	2.4000e-004	0.0000	2.4000e-004	0.0000	0.4868	0.4868	0.0000	0.0000	0.4869
<b>Total</b>	<b>1.0000e-004</b>	<b>6.0000e-005</b>	<b>8.5000e-004</b>	<b>1.0000e-005</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>9.1000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.4868</b>	<b>0.4868</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.4869</b>

**3.7 North Area - Revegetation - 2049**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1200e-003	6.1600e-003	0.0223	1.0000e-004		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	10.4176	10.4176	3.3000e-004	0.0000	10.4259
<b>Total</b>	<b>4.1200e-003</b>	<b>6.1600e-003</b>	<b>0.0223</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>10.4176</b>	<b>10.4176</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>10.4259</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

**3.7 North Area - Revegetation - 2049**

**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	7.0000e-005	4.0000e-005	5.5000e-004	0.0000	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.3175	0.3175	0.0000	0.0000	0.3175
<b>Total</b>	<b>7.0000e-005</b>	<b>4.0000e-005</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>5.9000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.3175</b>	<b>0.3175</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.3175</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1200e-003	6.1600e-003	0.0223	1.0000e-004		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	10.4176	10.4176	3.3000e-004	0.0000	10.4258
<b>Total</b>	<b>4.1200e-003</b>	<b>6.1600e-003</b>	<b>0.0223</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>10.4176</b>	<b>10.4176</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>10.4258</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

**3.7 North Area - Revegetation - 2049**

**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	7.0000e-005	4.0000e-005	5.5000e-004	0.0000	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.3175	0.3175	0.0000	0.0000	0.3175
<b>Total</b>	<b>7.0000e-005</b>	<b>4.0000e-005</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>5.9000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.3175</b>	<b>0.3175</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.3175</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Industrial	0.560518	0.034619	0.186702	0.100511	0.010696	0.005021	0.030533	0.061190	0.002486	0.001477	0.005168	0.000445	0.000633

5.0 Energy Detail

Historical Energy Use: N





Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

**5.2 Energy by Land Use - Natural Gas**

**Mitigated**

	Natural Gas 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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.9000e-004	3.0000e-005	3.2000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.2500e-003	6.2500e-003	2.0000e-005	0.0000	6.6600e-003
Unmitigated	2.9000e-004	3.0000e-005	3.2000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.2500e-003	6.2500e-003	2.0000e-005	0.0000	6.6600e-003

Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

**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	2.9000e-004	3.0000e-005	3.2000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.2500e-003	6.2500e-003	2.0000e-005	0.0000	6.6600e-003
<b>Total</b>	<b>2.9000e-004</b>	<b>3.0000e-005</b>	<b>3.2000e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>6.2500e-003</b>	<b>6.2500e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>6.6600e-003</b>

**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	2.9000e-004	3.0000e-005	3.2000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.2500e-003	6.2500e-003	2.0000e-005	0.0000	6.6600e-003
<b>Total</b>	<b>2.9000e-004</b>	<b>3.0000e-005</b>	<b>3.2000e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>6.2500e-003</b>	<b>6.2500e-003</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>6.6600e-003</b>

**7.0 Water Detail**

Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**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

Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Eliot Quarry - North Area Reclamation Activities - Alameda County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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