ENGINEERING EVALUATION
AUTHORITY TO CONSTRUCT APPLICATION

Company: Monterey One Water

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Project Location: Portable Within M1W Service Area & Regional Wastewater & Reclamation Plant

Authority to Construct: APP-26-00011 – New 6-inch Pump: Isuzu #2 (New permit)
Renewal Date: May 3 (FAC-133)

SIC NO.: 4941 (Water Supply)
NAICS: 221320 (Sewage Treatment Facilities) Not Institutional/Residential/Commercial facility per EPA RICE guidance
SCC No: 20100202 (IC Engines, Electric Generation, Natural Gas, Reciprocating)

Engineer: Armando Jimenez
Evaluation Date: May 2026

I. **PROPOSAL:** PORTABLE DIESEL ENGINE POWERED EQUIPMENT:

Monterey One Water (M1W) has submitted a permit application for a new portable prime engine-pump set which is powered by a Tier 4 Final Isuzu diesel engine, model CP-4LE2X, rated at 61.7 horsepower (HP).

The application noted the new unit will operate within M1W's service area and at the Regional Treatment Plant (RTP) at 14811 Del Monte Blvd in Marina. The application information is as follows:

Application	Proposed New Equipment	Operating Locations
APP-26-00011	Portable prime engine-pump set powered by an Isuzu Tier 4 Final diesel engine rated at 61.7 HP	Portable within M1W's service area and RTP at 14811 Del Monte Blvd, Marina

The facility has provided the possible operating locations and the proposed hours of use at each of those locations as shown in Table 1.

Table 1. Possible operating locations 1,000 feet from K-12 school.

Station Name	Address	Annual Hours in Prime Mode (hr/yr)	Location within 1,000 feet of a school?
Castroville PS	Hwy 1, Castroville, CA	250	No
Fort Ord PS (FOPS)	Marina Dr, Marina, CA	500	No
Marina PS (MAPS)	Seaside Ct & Reservation Rd, Marina, CA	270	No
Monterey PS #6	Canyon Del Rey & Hwy 68, Monterey, CA	500	No

Station Name	Address	Annual Hours in Prime Mode (hr/yr)	Location within 1,000 feet of a school?
Monterey PS #7 (PS 7)	Reeside & Cannery Row, Monterey, CA	500	Yes
Monterey PS (MOPS)	1951 Del Monte Ave, Monterey, CA	500	No
Moss Landing PS (MLPS)	Moss Landing Rd, Moss Landing, CA	100	No
Pacific Grove PS # 12	Ocean View & 9th St, Pacific Grove, CA	250	No
Pacific Grove PS #13 (PS 13)	Ocean View & Fountain Ave, Pacific Grove, CA	250	No
Pacific Grove PS #15 (PS 15)	Ocean View & Coral St, Pacific Grove, CA	250	No

As noted in Table 1, station Monterey PS #7 is located within 1,000 feet of a school (kinder through grade 12), the Big Sur Charter School. In addition to this application, M1W has submitted applications for new portable diesel engine equipment. The applications are shown below:

Application	Old PTO	Proposed Equipment	Operating Locations
MOD-26-00003	GNR-0017433A Prime Tier 3 John Deere Sewer Pump	Portable prime engine-pump set powered by an Isuzu Tier 4 Final diesel engine rated at 61 HP	Regional Treatment Plant (RTP) at 14811 Del Monte Blvd, Marina
APP-26-00013	GNR-0018368 emergency engine-gen set powered by a Caterpillar Tier 1 diesel engine rated at 1,114 HP.	Yanmar HRVW 1250 portable prime engine-gen set powered by two (2) identical Volvo Penta Tier 4 Final diesel engines, each rated at 796 HP.	RTP & Various locations within M1W service area
APP-26-00014			

II. APPLICABLE RULES:

Rule 200: Permits Required
Rule 207: Review of New and Modified Stationary Sources
Rule 218: Title V Operating Permits
Rule 221: Federal Prevention of Significant Deterioration
Rule 222: Federal Minor New Source Review
Rule 300: District Fees
Rule 400: Visible Emissions
Rule 402: Nuisance
Rule 403: Particulate Matter
Rule 404: Sulfur Compounds & Nitrogen Oxides
Rule 412: Sulfur Content of Fuels
Rule 436: Title V: General Prohibitory Rule
Rule 1000: Toxic Air Contaminants
AB2588 Air Toxic “Hot Spots” Information & Assessment Act
Title 17 CCR Section §93116: ATCM for Diesel Particulate Matter From Portable Engines Rated at 50 Horsepower and Greater
CA Health & Safety Code, Section 42301.6 – Public Notice

III. EQUIPMENT DESCRIPTION:

APP-26-00011: PORTABLE PRIME INTERNAL COMBUSTION ENGINE-PUMP SET:
Isuzu Diesel Engine, Model CP-4LE2X, Engine #4LE2-126963, Rated At 46 Kilowatt (KW) Or 61.7 Horsepower (HP) @ 2400 RPM, EPA Family Name RSZXL02.2PXC, Model Year 2024 Tier 4 Final. Engine Equipped With The Following Emission Control Equipment: Electronic Direct Injection (DDI), Charge Air Cooler (CAC), Exhaust Gas Recirculation (EGR), Electronic Control Module (ECM), Turbocharger (TC), And Diesel Oxidation Catalyst (DOC). Engine Powering 6" Pump.

IV. EMISSIONS CALCULATIONS:

The Monterey Bay Air Resources District (MBARD) will estimate the emissions from the proposed new model year 2024 Isuzu diesel engine with EPA Family Name RSZXL02.2PXC based on the emission factors found on the EPA's nonroad compression ignition 2011-present spreadsheet. Copy of the spreadsheet can be found on the following link:
https://www.epa.gov/compliance-and-fuel-economy-data/annual-certification-data-vehicles-engines-and-equipment#Ct

Table 2 shows the emission factors for the proposed diesel Isuzu diesel engine.

Table 2. EPA certification data for EPA Family Name RSZXL02.2PXC.

Pollutant:	Emission factor (g/kw-hr)	Emission factor (g/hp-hr)
NO_x	3.57	2.662
VOC	0.02	0.015
CO[1]	0.01	0.007
SO_x[2]	-	4.57E-03
PM	0.02	0.0149

[1] The EPA certified emission factor for EPA Family Name RSZXL02.2PXC listed the CO emission factor as zero (0). MBARD will estimate CO emission based on conservative emission factor of 0.01 g/KW-hr.
[2] The emission of SO_x was provided and noted that it was based on ultra-low sulfur diesel with concentration of 15 ppm:

$$\frac{15 \times 10^{-6}\ lb\ S}{lb\ diesel} \times \frac{7.05\ lb\ diesel}{gal\ diesel} \times \frac{64\ lb\ SO_2}{lb\ mole\ S} \times \frac{lb\ mole\ S}{32\ lb\ S} = 2.12 \times 10^{-4} \frac{lb\ SO_2}{gal\ diesel}$$

$$SO_x = \frac{2.12x10^{-4}\ lbSO_2}{gal\ diesel} x \frac{2.93\ gal\ diesel}{hr} x \frac{454\ g}{lb} x \frac{1}{61.7\ hp} = \frac{4.57x10^{-3}\ g}{hp-hr}$$

The engine specifications are included in Table 3.

Table 3. Isuzu diesel engine CP-4LE2X specifications.

EPA Family Name	RSZXL02.2PXC
Maximum Fuel Consumption Rate (gph)[1]	2.93
Engine Horsepower (HP)	61.7
Exhaust Flowrate (cfm)	237
Exhaust Temperature (°F)	972
Exhaust Stack Height (ft.)	6.5
Exhaust Stack Diameter (in.)	1.56

Table 4 shows the potential to emit (PTE) emission from the proposed portable prime Isuzu engine.

Table 4. Prime diesel engine potential to emit emissions.

Pollutant:	Daily use (hrs)	Power (hp)	Emission factor (g/hp-hr)	Daily emissions (lb/day)	Annual emissions (ton/yr)[1]
NO_x	24	61.7	2.662	8.68	1.58
VOC	24	61.7	0.015	0.05	0.01
CO	24	61.7	0.007	0.02	0.00
SO_x	24	61.7	4.57E-03	0.01	0.00
PM	24	61.7	0.0149	0.05	0.01
				Total annual emissions:	1.60

[1] Annual emissions based upon 8,760 hours per year of prime use as proposed by permit application.

V. RULE COMPLIANCE:

The following MBARD rules apply to the operation as specified:

MBARD Rule 200 – Permits Required

The purpose of this Rule is to identify when MBARD permits are issued. The provisions of this Rule shall apply to any person who builds, erects, alters, or replaces any article, machine, equipment or other contrivance which may cause the issuance of air contaminants or the use of which may eliminate or reduce or control the issuance of air contaminants.

Pursuant to Section 3.1, person shall build, erect, alter, or replace any article, machine, equipment or other contrivance which may cause the issuance of air contaminants or the use of which may eliminate or reduce or control the issuance of air contaminants unless the facility owner or operator has obtained a separate written Authority to Construct for each permit unit from the Air Pollution Control Officer. An Authority to Construct shall remain in effect until the Permit to Operate the equipment for which the application was filed is granted or denied or the application is cancelled.

Exceptions to MBARD Rule 200 are identified in MBARD Rule 201.

MBARD Rule 207 – Review of New of Modified Sources (as adopted on 4/20/11)

This Rule provides for the review of new and modified stationary air pollution sources to meet requirements for the review of new and modified stationary sources (NSR) and for the Prevention of Significant Deterioration (PSD), under the provisions of the federal Clean Air Act; and requirements for NSR under the provisions of the California Clean Air Act. The intent of this Rule is to ensure that the most stringent requirements of these programs shall be applied.

This Rule shall apply to all new stationary sources and all modifications to existing stationary sources which, after construction or modification, emit or have the potential to emit any affected pollutants. Thus, the proposed project is subject to the requirements of Rule 207.

Federal Best Available Control Technology (BACT) Analysis:

Pursuant to Section 4.1.1, an applicant shall apply BACT to a new stationary source or modification of an existing source, which has the potential to emit greater than or equal to any one of the affected pollutant levels listed in Table 4.1.1 or a modification of an existing stationary source which has the potential to result in a new emissions increase, as defined in Section 2.37, occurring after October 20, 2010 for $PM_{2.5}$ or after August 19, 1983 for PM_{10} or after July 15, 1976 for any other affected pollutant.

Table 5 shows the emissions from the proposed prime engine-pump set at the Regional Treatment Plant, the facility-wide new emissions and the Federal BACT thresholds of Table 4.1.1.

Table 5. New emissions increases.

Permit No.:	NO_x (lb/day)	VOC (lb/day)	CO (lb/day)	SO_x (lb/day)	PM (lb/day)	PM_{10} (lb/day)	$PM_{2.5}$ (lb/day)
7945B Emer. Tier 0 diesel eng-gen - 449 HP[1,2,5] (1997)	221.5	3.8	60.0	0.12	18.0	17.28	~~16.87~~
11806A Emer. Tier 2 diesel eng-gen - 2,220 HP[1,2,5] (2003)	809.8	9.98	152.6	0.62	41.1	39.46	~~38.51~~
14883A Port. Emer. Tier 3 diesel eng-gen set - 98 HP[1,2] (2011)	10.67	0.57	4.61	0.02	0.67	0.64	0.63
16163A AST GDF[3] (1984)							
MOD-26-00003/GNR-0017433A Portable prime Isuzu diesel engine-pump set #1 - 61.7 HP[1,2] (2026)	8.68	0.05	0.02	0.01	0.05	0.05	0.05
GNR-0017895 Advanced water purification facility[4] (2019)							
GNR-0017896 Advanced water demonstration purification facility[4] (2019)							
GNR-0018026 Fume hood (1990)		1.10					
GNR-0018242 Emer. Tier 4F diesel eng-gen - 65 HP[1] (2016)	9.52	0.52	0.24	0.02	0.03	0.03	0.03
GNR-0018289/MOD-21-00054 Wastewater treat. & reclamation (1982)		78.19					
GNR-0018290 Port Tier 4F diesel eng-pump set - 61 HP[1] (2019)	4.29	0.02	0.11	0.01	0.02	0.02	0.02
GNR-0018362 Digester gas gen. set #1[1,5] (1984)	57.6	33.6	168	14.64	1.41	1.41	~~1.41~~
GNR-0018363 Digester gas gen. set #2[1,5] (1992)	57.6	33.6	168	14.64	1.41	1.41	~~1.41~~
GNR-0018364 Digester gas gen. set #3[1,5] (1992)	57.6	33.6	168	14.64	1.41	1.41	~~1.41~~
GNR-0018365 Dig. gas flare[1,5] (1987)	28.50	38.92	155.68	34.31	7.94	7.94	~~7.94~~
GNR-0018366 Boiler nat/digester gas 8.369MMBtu/hr[1,5,6] (1982)	19.7	1.1	16.5	0.1	1.5	~~1.5~~	~~1.5~~
GNR-0018367 Port. Tier 3 diesel eng-sludge lagoon barge low-use - 202 HP[1,2,5] (1995)	27.87	0.85	14.31	0.07	1.17	1.12	~~1.1~~
GNR-0018368 Port emer. Tier 1 diesel eng-gen - 1,114 HP (To be replaced by APP-26-00013 &							

Permit No.:	NO_x (lb/day)	VOC (lb/day)	CO (lb/day)	SO_x (lb/day)	PM (lb/day)	PM_{10} (lb/day)	$PM_{2.5}$ (lb/day)
APP-26-00014)							
PTO-23-00016 Port prime sewer pump rated @ 74 HP (2023)	4.99	0.26	0.73	0.01	0.01	0.01	0.01
APP-25-00014 Co-digestion food waste processing-carbon filters (2025)		8.38					
APP-25-00095 Emer. nat. gas gen. rated - 132 HP (2025)	1.26	0.21	1.47	0.02	0.30	0.29	0.29
APP-25-00105 Linear generator - 250 KW (2025)	0.48	0.66	1.39	0.03	0.13	0.13	0.13
APP-26-00011 Portable prime Isuzu diesel engine-pump set #2 - 61.7 HP[1,2] (2026)	8.68	0.05	0.02	0.01	0.05	0.05	0.05
APP-26-00013 Prime diesel engine-gen set #1 – 825 HP[1,2] (2026)	11.69	0.31	3.27	0.16	0.65	0.62	0.61
APP-26-00014 Prime diesel engine-gen set #2 – 825 HP[1,2] (2026)	11.69	0.31	3.27	0.16	0.65	0.62	0.61
Total:	1,352.12	246.08	918.22	79.59	76.50	72.49	2.43
Table 4.1.1 BACT threshold:	150	150	550	150	150	82	54.79

[1] PM_{10} and $PM_{2.5}$ fractions estimated using CARB's CEIDARS particulate matter size profile database (3/2017). For diesel IC engines: PM_{10} = 0.96 PM & $PM_{2.5}$ = 0.937 PM. For nat. gas boilers: PM_{10} = 1.0 PM & $PM_{2.5}$ = 1.0 PM. For gaseous material combustion (digester gas flare and engines): PM_{10} = 1.0 PM & $PM_{2.5}$ = 1.0 PM.

[2] SO_x emissions based upon low-sulfur diesel fuel of 15 ppm, or 2.5E-04 lb SO_x/gal of diesel, and the fuel consumption rate of each diesel engine. PTO 7945B max fuel consumption rate is 19.3 gal/hr. PTO 11806A max fuel consumption rate is103.6 gal/hr. PTO GNR-0018367 max fuel consumption rate is 12 gal/hr. Sample calculation for PTO GNR-0018367: [(12 gal/hr) (24 hr/day) (2.5E-04 lb SO_x/gal of diesel) = 0.07 lb SO_x/day].

[3] Pursuant to Rule 207, Section 1.3.1, gasoline storage and dispensing equipment subject to Rules 418 and Rule 1002 shall be exempt from the requirements of Rule 207. The gas station is subject to Rules 418 and 1002 and is exempt from Rule 207.

[4] The advanced water purification facilities are not a source of criteria pollutants. The facilities are permitted for use of ozone generators.

[5.] Equipment pre-dates NSR $PM_{2.5}$ applicability date of October 20, 2010.

[6.] Equipment pre-dates NSR PM_{10} applicability date of August 19, 1983.

Table 5 shows that the facility's new emission increases exceed the NO_x, VOC, and CO BACT thresholds of Rule 207, Table 4.1.1.

Per MBARD's policy, the South Coast Air Quality Management District's (SCAQMD) BACT Guidelines will be used. SCAQMD's "Part D: BACT Guidelines For Non-Major Polluting Facilities", the portable engine needs to meet Tier 4 Final limits. Also, SCAQMD BACT determination for application 594294 for a portable engine driving landfill refuse truck tipper rated at 123.4 HP (2/1/2019) required engine to meet Tier 4 Final Emission standards. Table 6 shows the SCAQMD BACT guidelines for portable engines rated at 50 ≤ HP < 75 and the EPA certified emissions for the Isuzu CP-4LE2X engine.

Table 6. SCAQMD BACT guidelines for portable engines rated 50 ≤ HP < 75.

Pollutant	SCAQMD BACT for portable engines rated 50 ≤ HP < 75 (g/hp-hr)	Isuzu CP-4LE2X certified emissions (g/hp-hr)	Compliance?
NO_x + NMHC	3.5	2.68	Yes
CO	3.7	0	Yes
PM	0.02	0.0149	Yes

California BACT analysis

Pursuant to Section 5.2, BACT shall be required for any new or modified permit unit with a potential to emit 25 pounds per day (lb/day) or more of VOCs or NO_x. Table 7 shows that the proposed project does not trigger the CA BACT thresholds of Section 5.2.

Table 7. California BACT determination.

Pollutant	BACT threshold (lb/day)	Project emissions (lb/day)	BACT triggered?
NO_x	25	8.68	No
VOC	25	0.05	No

Federal Offset requirements

Pursuant to Rule 207, Section 4.2, Offsets are required for any new or modified source with net emissions increases equal to exceeding the thresholds of Table 4.2.2. Pursuant to Section 4.2.6, increases in emissions shall be determined in accordance with the calculation methods described in Subsections 2.36.1, 2.36.2, 2.36.3, Sections 7.3, 7.4, and 7.5 of this Rule.

Pursuant to Section 2.36.1, a net emissions increase is the sum of all increases in potential emissions of any given pollutant except $PM_{2.5}$ or PM_{10} from a new or modified stationary source occurring since July 15, 1976, minus reductions in emissions of that pollutant at the stationary source occurring since July 15, 1976. Pursuant to Section 2.36.3, the sum of all increases in potential emissions of PM_{10}, from a new or modified stationary source occurring since August 19, 1983, minus any reduction in emissions of PM_{10} at the stationary source occurring since August 19, 1983.

Table 8 shows the net emissions increases at the Regional Treatment Plant and the offset thresholds of Table 4.2.2.

Table 8. Net emissions increases at the proposed locations.

Permit/Application no.:	NO_x[1] (lb/day)	VOC (lb/day)	CO (lb/day)	SO_x (lb/day)	PM (lb/day)	PM_{10} (lb/day)
7945B Emer. ICE gen. rated @ 449 HP[2] (1997)						
11806A Emer. ICE gen. rated @ 2,220 HP[2] (2003)						
14883A Port. Emer. Gen. set rated at 98 HP[2] (2011)						
16163A AST GDF[3] (1984)						
MOD-26-00003/GNR-0017433A Portable prime Isuzu diesel engine-pump set #1 - 61.7 HP[4,5,6] (2026)	8.68	0.05	0.02	0.01	0.05	0.05
GNR-0017895 Advanced water purification facility[7] (2019)						

Permit/Application no.:	NO_x[1] (lb/day)	VOC (lb/day)	CO (lb/day)	SO_x (lb/day)	PM (lb/day)	PM_{10} (lb/day)
GNR-0017896 Advanced water demonstration purification facility[7] (2019)						
GNR-0018026 Fume hood[8] (1990)		1.1				
GNR-0018242 Emer. ICE gen. set rated @ 65 HP[2] (2016)						
GNR-0018289/MOD-21-00054 Wastewater treat. & reclamation (1982)[8,9]		78.19				
GNR-0018290 Portable low-use ICE engine- pump set rated @ 61 HP[4,5,6] (2019)	4.29	0.02	0.11	0.01	0.02	0.02
GNR-0018362 Digester gas gen. set #1[4,6] (1984)	**57.6**	33.6	168	14.64	1.41	1.41
GNR-0018363 Digester gas gen. set #2[4,6] (1992)	**57.6**	33.6	168	14.64	1.41	1.41
GNR-0018364 Digester gas gen. set #3[4,6] (1992)	**57.6**	33.6	168	14.64	1.41	1.41
GNR-0018365 Dig. gas flare[4,6] (1987)	**28.5**	38.92	155.68	34.31	7.94	7.94
GNR-0018366 Boiler nat. gas fired[4,6,10] (1982)	**19.7**	1.1	16.5	0.1	1.5	~~1.5~~
GNR-0018367 Port. sludge lagoon barge rated @ 202 HP[4,5,6] (1995)	27.87	0.85	14.31	0.07	1.17	1.12
GNR-0018368 Port emer. Tier 1 diesel eng-gen - 1,114 HP (To be replaced by APP-26-00013 & APP-26-00014)						
PTO-23-00016 Port prime sewer pump rated @ 74 HP[4,5,6] (2023)	4.99	0.26	0.73	0.01	0.01	0.01
APP-25-00014 Co-digestion food waste processing-carbon filters (2025)		8.38				
APP-25-00095 Emer. nat. gas gen. rated - 132 HP[2] (2025)						
APP-25-00105 Linear generator - 250 KW (2025)	0.48	0.66	1.39	0.03	0.13	0.13
APP-26-00011 Portable prime Isuzu diesel engine-pump set #2 - 61.7 HP[4,5,6] (2026)	8.68	0.05	0.02	0.01	0.05	0.05
APP-26-00013 Prime diesel engine-gen set #1 – 825 HP[4,5,6] (2026)	11.69	0.31	3.27	0.16	0.65	0.62
APP-26-00014 Prime diesel engine-gen set #2 – 825 HP[4,5,6] (2026)	11.69	0.31	3.27	0.16	0.65	0.62
Total:	299.37	231.00	699.30	78.79	16.40	14.79
Rule 207: Table 4.2.2 Offset Threshold:	150	150	550	150	150	82

[1] The facility is permitted with a daily NO_x emission limit of 221 pounds per day (40.33 tons per year) from sources subject to offset requirements. The facility has been subject to Offsets since the initial permitting of the facility. The sources highlighted

in **Bold** are the sources subject to the facility daily NO_x limit of 221 lbs/day. The facility must keep records to demonstrate the daily emissions from all the equipment, except for equipment subject to the offset exemptions of Rule 207, does not exceed 221 pounds per day.

[2] Pursuant to Rule 207, Section 1.3.3, the offset requirements of Sections 4.2 and 5.3 do not apply to emergency internal combustion engine that is either only used for emergency power when normal power line services fail, or are used only for the emergency pumping of water, and are operated less than 60 hours per year for testing and exercise.

[3] Pursuant to Rule 207, Section 1.3.1, gasoline storage and dispensing equipment subject to Rules 418 and Rule 1002 shall be exempt from the requirements of Rule 207. The gas station is subject to Rules 418 and 1002 and is exempt from Rule 207.

[4] PM_{10} and $PM_{2.5}$ fractions estimated using CARB's CEIDARS particulate matter size profile database (3/2017). For diesel IC engines: PM_{10} = 0.96 PM & $PM_{2.5}$ = 0.937 PM. For nat. gas boilers: PM_{10} = 1.0 PM & $PM_{2.5}$ = 1.0 PM. For gaseous material combustion (digester gas flare and engines): PM_{10} = 1.0 PM & $PM_{2.5}$ = 1.0 PM.

[5] SO_x emissions based upon low-sulfur diesel fuel of 15 ppm, or 2.5E-04 lb SO_x/gal of diesel, and the fuel consumption rate of each diesel engine. PTO 7945B max fuel consumption rate is 19.3 gal/hr. PTO 11806A max fuel consumption rate is 103.6 gal/hr. PTO GNR-0018367 max fuel consumption rate is 12 gal/hr. Sample calculation for PTO GNR-0018367: [(12 gal/hr) (24 hr/day) (2.5E-04 lb SO_x/gal of diesel) = 0.07 lb SO_x/day].

[6] The equipment is subject to facility-wide emissions limits for NO_x, VOC and CO. For NO_x, the facility-wide limit is 221 pounds per day. For CO, the facility-wide limit is 676.18 pounds per day. For VOC, the facility-wide emission limit is 220.98 pounds per day.

[7] The advanced water purification facilities are not a source of criteria pollutants. The facilities are permitted for the use of ozone generators.

[8] Prior to the issuance of ATC GNR-017527 for the modification of M1W's Wastewater Treatment & Reclamation Plant on March 2020, the emissions from the treatment plant were not estimated. Per California Health & Safety Code Section 42301.2, the use of new emission factors represented a change in technique to quantify the wastewater treatment plant emissions and emission offsets were not required. Accordingly, the baseline emissions as of March 2020 for VOC emissions equated to 221.71 pounds per day.

[9] The equipment is subject to facility-wide emissions limits for NO_x and CO. For NO_x, the facility-wide limit is 221 pounds per day. For CO, the facility-wide limit is 676.18 pounds per day.

[10] Pre-dates NSR PM_{10} applicability date of August 19, 1983.

Table 8 shows that the facility exceeds the Offset thresholds of Table 4.2.2 for NO_x, VOC and CO.

M1W is proposing to internally offset the emissions from the proposed project. The proposed portable Isuzu CP-4LE2X Tier 4 Final engine-pump set is a new source and will be subject to the facility daily NO_x emission limit of 221 pounds per day. MBARD is proposing to add the following permit condition.

- The total oxides of nitrogen emissions, as NO_2, from the equipment below operating at the Monterey One Water Regional Wastewater Treatment Plant shall not exceed 221 pounds per day; excluding emissions from units exempted from the Offset requirements of Rule 207. The NO_x emissions for this portable Isuzu CP-4LE2X Tier 4 Final engine-pump set under this permit shall be based on the engine's NO_x emissions factor of 2.662 grams per brake horse power-hour or 0.36 pounds per hour. [Basis: SIP Rule 207 Offsets]

    a) The Yanmar Portable Prime twin-pack diesel engine-generator set powered by the following two Tier 4 Final diesel engines:
        i. Volvo Penta Tier 4 Final diesel engine under Authority to Construct, APP-26-00013.
        ii. Volvo Penta Tier 4 Final diesel engine under Authority to Construct APP-26-00014.
    b) The natural gas/digester gas fired cogeneration engine sets #1, #2, & #3, under latest permit to operate GNR-0018362, GNR-0018363, and GNR-0018364, respectively.
    c) Digester waste gas candle stick flares under latest permit to operate GNR-0018365.
    d) The natural gas/digester gas fired boiler under latest permit to operate GNR-0018366.
    e) Portable sludge lagoon barge engine under latest permit to operate GNR-0018367.
    f) Portable prime pump under this permit, latest permit to operate GNR-0017433.
    g) Portable prime water pump under latest permit to operate GNR-0018290.

h) Portable prime sewer pump under latest permit to operate PTO-23-00016.
i) Portable prime pump under latest Authority to Construct APP-26-00011.

Since the facility has also exceeded the offset thresholds for VOC and CO, MBARD is proposing to add new permit conditions limiting the facility-wide emissions for VOC and CO. The facility has been subject to Offsets since the initial permitting of the facility. Table 9 shows the sources that were part of the original permitting process and were used to set the NO_x facility-wide limit of 221 pounds per day.

Table 9. Sources in original permitting process.

Permit/Application no.:	NO_x (lb/day)	VOC (lb/day)	CO (lb/day)	SO_x (lb/day)	PM (lb/day)	PM_{10} (lb/day)
GNR-0018362 Digester gas gen. set #1 (1984)	57.6	33.6	168	14.64	1.41	1.41
GNR-0018363 Digester gas gen. set #2 (1984)	57.6	33.6	168	14.64	1.41	1.41
GNR-0018364 Digester gas gen. set #3 (1984)	57.6	33.6	168	14.64	1.41	1.41
GNR-0018365 Dig. gas flare (1987)	28.5	38.92	155.68	34.31	7.94	7.94
GNR-0018366 Boiler nat. gas fired[1] (1982)	19.7	1.1	16.5	0.1	1.5	~~1.5~~
Total	221.00	140.82	676.18	78.33	13.67	12.17
Rule 207: Table 4.2.2 Offset Threshold:	150	150	550	150	150	82

[1] Pre-dates NSR PM_{10} applicability date of August 19, 1983.

The facility-wide emissions for VOC and CO will be based on the sources in the facility's original permitting process and shown in Table 9.

CO Facility-wide condition:
As shown in Table 9, the CO emissions exceeded the offset threshold of 550 pounds per day. MBARD proposes adding a facility-wide CO emissions limit of 676.18 pounds per day. The proposed condition is as follows:

- The total carbon monoxide (CO) emissions from the equipment below operating at the Monterey One Water Regional Wastewater Treatment Plant shall not exceed 676.18 pounds per day; excluding emissions from units exempted from the Offset requirements of Rule 207. The CO emissions for this portable Isuzu CP-4LE2X Tier 4 Final engine-pump set under this permit shall be based on the engine's CO emissions factor of 0.007 grams per brake horse power-hour or 9.51E-04 pounds per hour. [Basis: SIP Rule 207 Offsets]

  a) The Yanmar Portable Prime twin-pack diesel engine-generator set powered by the following two Tier 4 Final diesel engines:
     i. Volvo Penta Tier 4 Final diesel engine under Authority to Construct, APP-26-00013.
     ii. Volvo Penta Tier 4 Final diesel engine under Authority to Construct APP-26-00014.
  b) The natural gas/digester gas fired cogeneration engine sets #1, #2, & #3, under latest permit to operate GNR-0018362, GNR-0018363, and GNR-0018364, respectively.
  c) Digester waste gas candle stick flares under latest permit to operate GNR-0018365.

d) The natural gas/digester gas fired boiler under latest permit to operate GNR-0018366.
e) Portable sludge lagoon barge engine under latest permit to operate GNR-0018367.
f) Portable prime pump under this permit, latest permit to operate GNR-0017433.
g) Portable prime water pump under latest permit to operate GNR-0018290.
h) Portable prime sewer pump under latest permit to operate PTO-23-00016.
i) Portable prime pump under latest Authority to Construct APP-26-00011.

VOC Facility-wide condition:
As shown in Table 9, the VOC emissions did not exceed the offset threshold of 150 pounds per day. At the time of the original permitting process, the VOC emissions from the wastewater treatment plant were not estimated. Prior to the issuance of ATC GNR-017527 for the modification of M1W's Wastewater Treatment & Reclamation Plant on March 2020, the emissions from the treatment plant were not estimated. Table 10 shows the existing sources subject to offsets permitted prior to March 2020, which shows that the facility exceeds the VOC offset threshold of 150 pounds per day.

Table 10. Existing sources subject to offsets permitted prior to March 2020.

Permit No.:	VOC (lb/day)
GNR-0018289/MOD-21-00054 Wastewater treat. & reclamation (1982)[1]	78.19
GNR-0018362 Digester gas gen. set #1 (1984)	33.60
GNR-0018363 Digester gas gen. set #2 (1992)	33.60
GNR-0018364 Digester gas gen. set #3 (1992)	33.60
GNR-0018365 Dig. gas flare (1987)	38.92
GNR-0018366 Boiler nat. gas fired (1982)	1.10
GNR-0018026 Fume hood (1990)	1.10
GNR-0018367A Port. Tier 3 diesel eng-sludge lagoon barge low-use - 202 HP (1995)	0.85
GNR-0018290 Portable Tier 4F diesel engine-pump set - 61 HP (2019)	0.02
Total	220.98
Rule 207: Table 4.2.2 Offset Threshold:	150

[1] Prior to the issuance of ATC GNR-017527 for the modification of M1W's Wastewater Treatment & Reclamation Plant on March 2020, the emissions from the treatment plant were not estimated.

MBARD proposes adding a facility-wide VOC emission limit of 220.98 pounds per day. The proposed conditions is as follows:

- The total volatile organic compounds (VOC) emissions from the equipment below operating at the Monterey One Water Regional Wastewater Treatment Plant shall not exceed 220.98 pounds per day; excluding emissions from units exempted from the Offset requirements of Rule 207. The VOC emissions for this portable Isuzu CP-4LE2X Tier 4 Final engine-pump set under this permit shall be based on the engine's VOC emissions factor of 0.015 grams per brake horse power-hour or 2.03E-03 pounds per hour. [Basis: SIP Rule 207 Offsets]

    a) The Yanmar Portable Prime twin-pack diesel engine-generator set powered by the following two Tier 4 Final diesel engines:
        i. Volvo Penta Tier 4 Final diesel engine under Authority to Construct, APP-26-00013.
        ii. Volvo Penta Tier 4 Final diesel engine under Authority to Construct APP-26-00014.
    b) The natural gas/digester gas fired cogeneration engine sets #1, #2, & #3, under latest permit to operate GNR-0018362, GNR-0018363, and GNR-0018364, respectively.
    c) Digester waste gas candle stick flares under latest permit to operate GNR-0018365.
    d) The natural gas/digester gas fired boiler under latest permit to operate GNR-0018366.

e) Portable sludge lagoon barge engine under latest permit to operate GNR-0018367.
f) Portable prime pump under this permit, latest permit to operate GNR-0017433.
g) Portable prime water pump under latest permit to operate GNR-0018290.
h) Portable prime sewer pump under latest permit to operate PTO-23-00016.
i) Portable prime pump under latest Authority to Construct APP-26-00011.

M1W Contemporaneous Projects at the RTP Site

M1W has been issued for two projects that were subject to the offset requirements of Rule 207 and include ATC APP-25-00014 for the co-digestion project/food waste processing facility on August 4, 2025, and ATC APP-25-00105 for the prime natural gas linear generator on October 17, 2025. For both projects it was determined that the required offset thresholds were below MBARD's Policy for Rounding, dated April 18, 2017, which is to round up to the tenth place and to the nearest whole number. For informational purposes only, the PTE emission increases for the projects are presented below.

Table 11 shows the PTE emissions increases for the co-digestion project/food waste processing facility.

Table 11. Co-digestion project/food waste processing quarterly VOC emissions.

Pollutant	1st Qtr (ton/Qtr.)	2nd Qtr (ton/Qtr.)	3rd Qtr (ton/Qtr.)	4th Qtr (ton/Qtr.)
VOC	0.38	0.38	0.39	0.39

Table 12 shows the PTE emissions increases for the non-emergency natural gas linear generator on a quarterly basis.

Table 12. Non-emergency natural gas linear generator quarterly emissions.

Pollutant	1st Qtr (ton/Qtr.)	2nd Qtr (ton/Qtr.)	3rd Qtr (ton/Qtr.)	4th Qtr (ton/Qtr.)
NO_x	0.02	0.02	0.02	0.02
VOC	0.03	0.03	0.03	0.03
CO	0.06	0.06	0.06	0.06

Table 13 shows the contemporaneous emissions for the facility from the last five years, that include the natural gas linear generator and the co-digestion project/food waste processing facility.

Table 13. Contemporaneous emissions from natural gas linear generator + co-digestion project/food waste processing facility.

Pollutant	1st Qtr (ton/Qtr.)	2nd Qtr (ton/Qtr.)	3rd Qtr (ton/Qtr.)	4th Qtr (ton/Qtr.)
NO_x	0.02	0.02	0.02	0.02
VOC	0.41	0.41	0.42	0.42
CO	0.06	0.06	0.06	0.06

CA Offset requirements

Pursuant to Section 5.3.1, any new or modified stationary source with a potential to emit 137 pounds per day or more of VOCs or NO_x shall be required to provide offsets at the ratios specified in Section 4.3. Pursuant to Section 2.38, for the purpose of Part 5 of this Rule (California Clean Air Act), the applicability date shall be April 21, 1993. Table 14 shows the facility-wide potential emissions, the emissions from the proposed project, and the CA offset thresholds of Section 5.3.1.

Table 14. Facility-wide potential to emit emissions and CA offset determination.

Permit No.:	NO_x[1] (lb/day)	VOC (lb/day)
7945B Emer. Tier 0 diesel eng-gen - 449 HP[2] (1997)		

Permit No.:	NO_x[1] (lb/day)	VOC (lb/day)
11806A Emer. Tier 2 diesel eng-gen - 2,220 HP[2] (2003)		
14883A Port. Emer. Tier 3 diesel eng-gen set - 98 HP[2] (2011)		
16163A AST GDF[3] (1984)		
MOD-26-00003/GNR-0017433A Portable prime Isuzu diesel engine-pump set #1 - 61.7 HP (2026)	8.68	0.05
GNR-0017895 Advanced water purification facility[4] (2019)		
GNR-0017896 Advanced water demonstration purification facility[4] (2019)		
GNR-0018026 Fume hood[5] (1990)		
GNR-0018242 Emer. Tier 4F diesel eng-gen - 65 HP[2] (2016)		
GNR-0018289/MOD-21-00054 Wastewater treat. & reclamation[5] (1982)		
GNR-0018290 Port Tier 4F diesel eng-pump set - 61 HP (2019)	4.29	0.02
GNR-0018362 Digester gas gen. set #1[5] (1984)		
GNR-0018363 Digester gas gen. set #2[5] (1992)		
GNR-0018364 Digester gas gen. set #3[5] (1992)		
GNR-0018365 Dig. gas flare[5] (1987)		
GNR-0018366 Boiler nat/digester gas 8.369MMBtu/hr[5] (1982)		
GNR-0018367A Port. Tier 3 diesel eng-sludge lagoon barge low-use - 202 HP (1995)	27.87	0.85
GNR-0018368 Port emer. Tier 1 diesel eng-gen - 1,114 HP (To be replaced by APP-26-00013 & APP-26-00014)		
PTO-23-00016 Port prime Tier 4F diesel eng-sewer pump - 74 HP (2023)	4.99	0.26
APP-25-00014 Co-digestion food waste processing-carbon filters (2025)		8.38
APP-25-00095 Emer. nat. gas gen. rated - 132 HP[2] (2025)		
APP-25-00105 Linear generator - 250 KW (2025)	0.48	0.66
APP-26-00011 Portable prime Isuzu diesel engine-pump set #2 - 61.7 HP (2026)	8.68	0.05
APP-26-00013 Prime diesel engine-gen set #1 – 825 HP (2026)	11.69	0.31
APP-26-00014 Prime diesel engine-gen set #2 – 825 HP (2026)	11.69	0.31
Total	78.37	10.89
Section 5.3.1 Offset thresholds	137	137

[1] The facility is permitted with a daily NO_x emission limit of 221 pounds per day (40.33 tons per year) from sources subject to offset requirements. The facility has been subject to Offsets since the initial permitting of the facility. The sources highlighted in **Bold** are the sources subject to the facility daily NO_x limit of 221 lbs/day. The facility must keep records to demonstrate the daily emissions from all the equipment, except for equipment subject to the offset exemptions of Rule 207, does not exceed 221 pounds per day.

[2] Pursuant to Rule 207, Section 1.3.3, the offset requirements of Sections 4.2 and 5.3 do not apply to emergency internal combustion engine that is either only used for emergency power when normal power line services fail, or are used only for the emergency pumping of water, and are operated less than 60 hours per year for testing and exercise.

[3] Pursuant to Rule 207, Section 1.3.1, gasoline storage and dispensing equipment subject to Rules 418 and Rule 1002 shall be exempt from the requirements of Rule 207. The gas station is subject to Rules 418 and 1002 and is exempt from Rule 207.

[4] The advanced water purification facilities are not a source of criteria pollutants. The facilities are permitted for the use of ozone generators.

[5] Pursuant to Rule 207, Section 2.38, for the purposes of Part 5 of this rule, which includes CA Offset requirements, the applicability date shall be April 21, 1993. Thus, equipment installed prior to April 21, 1993, is excluded.

Table 14 shows that the facility-wide emissions do not exceed the CA offset threshold of Section 5.3.1.

Publication and Public Comment

MBARD is required, pursuant to Section 6.9, to publish in at least one newspaper of general circulation in MBARD's jurisdiction a notice stating the preliminary decision on a source's application for a modification where the offset thresholds of Section 4.2 or 5.3 are exceeded. MBARD will comply with the requirements

of Section 6.9 and issue the public notice in a local newspaper and will post the public notice on MBARD's webpage. The public notice will invite written public comment for a 30-day period following the date of publication.

MBARD Rule 207 – Review of New of Modified Sources (as adopted on 2/15/2017)
Note that MBARD has not received approval for the 2/15/2017 version of Rule 207 and MBARD is implementing Rule 207 as adopted on 4/20/2011. For informational purposes only, the Rule applicability of Rule 207 as adopted on 2/15/2017 is as follows:

The purpose of this Rule is to provide for the review of new and modified stationary air pollution sources to meet the New Source Review requirements under the provisions of the California Clean Air Act. This Rule provides mechanisms by which Authorities to Construct may be granted to such sources without interfering with the attainment or maintenance of California ambient air quality standards. Each project subject to New Source Review shall undergo a review under the federal requirements contained within Rule 220 and Rule 221, and a parallel review under the requirements of this Rule and the most stringent applicable provisions shall apply.

Rule 207 applies to all new stationary sources and all modifications to existing stationary sources, which after construction or modification, emit or have the potential to emit any affected pollutants. This project is subject to the requirements of this Rule.

Best Available Control Technology (BACT) requirements
Pursuant to Section 4.1.1, BACT shall be required for any new or modified permit unit with a potential to emit 25 pounds per day or more of VOCs or NO_x. As shown in Table 7 the portable prime Isuzu Tier 4 Final diesel engine does not exceed the BACT thresholds of Section 4.1.1.

Pursuant to Section 4.1.2, BACT shall be required for a new or modified stationary source which has the potential to emit greater than or equal to any pollutant levels listed in Table 4.1.1.

Table 15 shows the emissions from the new project, the facility-wide emissions and the BACT thresholds of Section 4.1.2, Table 4.1.1.

Table 15. Facility-wide emissions and BACT thresholds of Table 4.1.1.

Permit No.:	NO_x (lb/day)	VOC (lb/day)	CO (lb/day)	SO_x (lb/day)	PM (lb/day)	PM_{10} (lb/day)	$PM_{2.5}$ (lb/day)
7945B Emer. Tier 0 diesel eng-gen - 449 HP[1,2] (1997)	221.50	3.80	60.00	0.12	18.00	17.28	16.87
11806A Emer. Tier 2 diesel eng-gen - 2,220 HP[1,2] (2003)	809.80	9.98	152.60	0.62	41.10	39.46	38.51
14883A Port. Emer. Tier 3 diesel eng-gen set - 98 HP[1,2] (2011)	10.67	0.57	4.61	0.02	0.67	0.64	0.63
16163A AST GDF[3] (1984)							
MOD-26-00003/GNR-0017433A Portable prime diesel Isuzu engine-pump set #1 - 61.7 HP[1,2] (2026)	8.68	0.05	0.02	0.01	0.05	0.05	0.05

Permit No.:	NO_x (lb/day)	VOC (lb/day)	CO (lb/day)	SO_x (lb/day)	PM (lb/day)	PM_{10} (lb/day)	$PM_{2.5}$ (lb/day)
GNR-0017895 Advanced water purification facility[4]							
GNR-0017896 Advanced water demonstration purification facility[4]							
GNR-0018026 Fume hood (1990)		1.10					
GNR-0018242 Emer. Tier 4F diesel eng-gen - 65 HP[1] (2016)	9.52	0.52	0.24	0.02	0.03	0.03	0.03
GNR-0018289/MOD-21-00054 Wastewater treat. & reclamation (1982)		78.19					
GNR-0018290 Port Tier 4F diesel eng-pump set - 61 HP[1] (2019)	4.29	0.02	0.11	0.01	0.02	0.02	0.02
GNR-0018362 Digester gas gen. set #1[1] (1984)	57.60	33.60	168.00	14.64	1.41	1.41	1.41
GNR-0018363 Digester gas gen. set #2[1] (1992)	57.60	33.60	168.00	14.64	1.41	1.41	1.41
GNR-0018364 Digester gas gen. set #3[1] (1992)	57.60	33.60	168.00	14.64	1.41	1.41	1.41
GNR-0018365 Dig. gas flare[1] (1987)	28.50	38.92	155.68	34.31	7.94	7.94	7.94
GNR-0018366 Boiler nat/digester gas 8.369MMBtu/hr[1] (1982)	19.70	1.10	16.50	0.10	1.50	1.50	1.50
GNR-0018367 Port. sludge lagoon barge rated @ 202 HP[1,2] (1995)	27.87	0.85	14.31	0.07	1.17	1.12	1.10
GNR-0018368 Port emer. Tier 1 diesel eng-gen - 1,114 HP (To be replaced by APP-26-00013 & APP-26-00014)							
PTO-23-00016 Port prime Tier 4F diesel eng-sewer pump - 74 HP (2023)	4.99	0.26	0.73	0.01	0.01	0.01	0.01
APP-25-00014 Co-digestion food waste processing-carbon filters (2025)		8.38					
APP-25-00095 Emer. nat. gas gen. rated - 132 HP (2025)	1.26	0.21	1.47	0.02	0.30	0.29	0.29
APP-25-00105 Linear generator - 250 KW (2025)	0.48	0.66	1.39	0.03	0.13	0.13	0.13
APP-26-00011 Portable prime Isuzu diesel engine-pump set #2 - 61.7 HP[1,2] (2026)	8.68	0.05	0.02	0.01	0.05	0.05	0.05
APP-26-00013 Prime diesel engine-gen set #1 – 825 HP[1,2] (2026)	11.69	0.31	3.27	0.16	0.65	0.62	0.61
APP-26-00014 Prime diesel engine-gen set #2 – 825 HP[1,2] (2026)	11.69	0.31	3.27	0.16	0.65	0.62	0.61

Permit No.:	NO_x (lb/day)	VOC (lb/day)	CO (lb/day)	SO_x (lb/day)	PM (lb/day)	PM_{10} (lb/day)	$PM_{2.5}$ (lb/day)
Total:	1,352.12	246.08	918.22	79.59	76.50	73.99	72.58
Table 4.1.1 BACT threshold:	150	150	550	150	150	82	54.79

[1] PM_{10} and $PM_{2.5}$ fractions estimated using CARB's CEIDARS particulate matter size profile database (3/2017). For diesel IC engines: PM_{10} = 0.96 PM & $PM_{2.5}$ = 0.937 PM. For nat. gas boilers: PM_{10} = 1.0 PM & $PM_{2.5}$ = 1.0 PM. For gaseous material combustion (digester gas flare and engines): PM_{10} = 1.0 PM & $PM_{2.5}$ = 1.0 PM.

[2] SO_x emissions based upon low-sulfur diesel fuel of 15 ppm, or 2.5E-04 lb SO_x/gal of diesel, and the fuel consumption rate of each diesel engine. PTO 7945B max fuel consumption rate is 19.3 gal/hr. PTO 11806A max fuel consumption rate is103.6 gal/hr. PTO GNR-0018367 max fuel consumption rate is 12 gal/hr. Sample calculation for PTO GNR-0018367: [(12 gal/hr) (24 hr/day) (2.5E-04 lb SO_x/gal of diesel) = 0.07 lb SO_x/day].

[3] Pursuant to Rule 207, Section 1.3.1, gasoline storage and dispensing equipment subject to Rules 418 and Rule 1002 shall be exempt from the requirements of Rule 207. The gas station is subject to Rules 418 and 1002 and is exempt from Rule 207.

[4] The advanced water purification facilities are not a source of criteria pollutants. The facilities are permitted for the use of ozone generators.

Table 15 shows that the facility exceeds the BACT thresholds of Rule 207 for NO_x, VOC, CO, and $PM_{2.5}$. As shown in Table 6 above, the proposed model year 2024 Isuzu CP-4LE2X diesel engine meets SCAQMD's BACT guidelines for portable engines rated 50 ≤ HP < 75.

Offset requirements

Pursuant Section 4.2, Offsets are required for any new or modified source, which has the potential to emit greater than or equal to the thresholds of any affected polluted listed in Table 4.2.1.

Table 16 shows the emissions from the new project, the facility-wide emissions and the offset thresholds of Section 4.2, Table 4.2.1. The table shows that the proposed project does not exceed the Offset thresholds of Section 4.2, Table 4.2.1.

Table 16. Facility-wide emissions and offset analysis.

Permit/Application no.:	NO_x[1] (lb/day)	VOC (lb/day)	CO (lb/day)	SO_x (lb/day)	PM (lb/day)	PM_{10} (lb/day)
7945B Emer. Tier 0 diesel eng-gen - 449 HP[2] (1997)						
11806A Emer. Tier 2 diesel eng-gen - 2,220 HP[2] (2003)						
14883A Port. Emer. Tier 3 diesel eng-gen set - 98 HP[2] (2011)						
16163A AST GDF[3] (1984)						
MOD-26-00003/GNR-0017433A Portable prime Isuzu diesel engine-pump set #1 - 61.7 HP[4,5] (2026)	8.68	0.05	0.02	0.01	0.05	0.05
GNR-0017895 Advanced water purification facility[6]						
GNR-0017896 Advanced water demonstration purification facility[6]						
GNR-0018026 Fume hood (1990)		1.10				
GNR-0018242 Emer. Tier 4F diesel eng-gen - 65 HP[2] (2016)						

Permit/Application no.:	NO_x[1] (lb/day)	VOC (lb/day)	CO (lb/day)	SO_x (lb/day)	PM (lb/day)	PM_{10} (lb/day)
GNR-0018289/MOD-21-00054 Wastewater treat. & reclamation (1982)		78.19				
GNR-0018290 Port Tier 4F diesel eng-pump set - 61 HP[4,5] (2019)	4.29	0.02	0.11	0.01	0.02	0.02
GNR-0018362 Digester gas gen. set #1[4] (1984)	**57.60**	33.60	168.00	14.64	1.41	1.41
GNR-0018363 Digester gas gen. set #2[4] (1992)	**57.60**	33.60	168.00	14.64	1.41	1.41
GNR-0018364 Digester gas gen. set #3[4] (1992)	**57.60**	33.60	168.00	14.64	1.41	1.41
GNR-0018365 Dig. gas flare[4] (1987)	**28.50**	38.92	155.68	34.31	7.94	7.94
GNR-0018366 Boiler nat/digester gas 8.369MMBtu/hr[4,9] (1982)	**19.70**	1.10	16.50	0.10	1.50	1.50
GNR-0018367A Port. Tier 3 diesel eng-sludge lagoon barge low-use - 202 HP[4,5] (1995)	27.87	0.85	14.31	0.07	1.17	1.12
GNR-0018368 Port emer. Tier 1 diesel eng-gen - 1,114 HP (To be replaced by APP-26-00013 & APP-26-00014)						
PTO-23-00016 Port prime Tier 4F diesel eng-sewer pump - 74 HP (2023)	4.99	0.26	0.73	0.01	0.01	0.01
APP-25-00014 Co-digestion food waste processing-carbon filters (2025)		8.38				
APP-25-00095 Emer. nat. gas gen. rated - 132 HP[2] (2025)						
APP-25-00105 Linear generator - 250 KW (2025)	0.48	0.66	1.39	0.03	0.13	0.13
APP-26-00011 Portable prime Isuzu diesel engine-pump set #2 - 61.7 HP[4,5] (2026)	8.68	0.05	0.02	0.01	0.05	0.05
APP-26-00013 Prime diesel engine-gen set #1 – 825 HP[4,5] (2026)	11.69	0.31	3.27	0.16	0.65	0.62
APP-26-00014 Prime diesel engine-gen set #2 – 825 HP[4,5] (2026)	11.69	0.31	3.27	0.16	0.65	0.62
Total	299.37	231.00	699.30	78.79	16.40	16.29
Rule 207: Table 4.2.1 Offset Threshold:	137	137	550	150	150	82

[1] The facility is permitted with a daily NO_x emission limit of 221 pounds per day (40.33 tons per year) from sources subject to offset requirements. The facility has been subject to Offsets since the initial permitting of the facility. The sources highlighted in **Bold** are the sources subject to the facility daily NO_x limit of 221 lbs/day. The facility must keep records to demonstrate the daily emissions from all the equipment, except for equipment subject to the offset exemptions of Rule 207, does not exceed 221 pounds per day.

[2] Pursuant to Rule 207, Section 1.3.3, the offset requirements of Sections 4.2 and 5.3 do not apply to emergency internal combustion engine that is either only used for emergency power when normal power line services fail, or are used only for the emergency pumping of water, and are operated less than 60 hours per year for testing and exercise.

[3] Pursuant to Rule 207, Section 1.3.1, gasoline storage and dispensing equipment subject to Rules 418 and Rule 1002 shall be exempt from the requirements of Rule 207. The gas station is subject to Rules 418 and 1002 and is exempt from Rule 207.

[4] PM_{10} and $PM_{2.5}$ fractions estimated using CARB's CEIDARS particulate matter size profile database (3/2017). For diesel IC engines: PM_{10} = 0.96 PM & $PM_{2.5}$ = 0.937 PM. For nat. gas boilers: PM_{10} = 1.0 PM & $PM_{2.5}$ = 1.0 PM. For gaseous material combustion (digester gas flare and engines): PM_{10} = 1.0 PM & $PM_{2.5}$ = 1.0 PM.

[5] SO_x emissions based upon low-sulfur diesel fuel of 15 ppm, or 2.5E-04 lb SO_x/gal of diesel, and the fuel consumption rate of each diesel engine. PTO 7945B max fuel consumption rate is 19.3 gal/hr. PTO 11806A max fuel consumption rate is 103.6 gal/hr. PTO GNR-0018367 max fuel consumption rate is 12 gal/hr. Sample calculation for PTO GNR-0018367: [(12 gal/hr) (24 hr/day) (2.5E-04 lb SO_x/gal of diesel) = 0.07 lb SO_x/day].

[6] The advanced water purification facilities are not a source of criteria pollutants. The facilities are permitted for the use of ozone generators.

Table 16 shows that the facility net emissions increases exceed the Offset thresholds for NO_x, VOC and CO of Section 4.2, Table 4.2.1. The facility is proposing to internally offset the project.

As pointed out, the Rule as amended on 2/15/2017 has not been approved and the version as adopted on 4/20/2011 will be implemented.

MBARD Rule 218 – Title V: Federal Operating Permits

This is the implementing regulation by which the District issues the federal Operating Permits. Pursuant to the applicability Section 1.2, the provisions of the Rule apply to:

- Any facility that is a major source; or
- Any acid rain source, as defined by Title IV of the Act; or
- Any solid waste incinerator that must comply with Section 129(e) of the Act; or
- Any other stationary source or category of sources deemed to require a Federal Operating Permit (FOP) by the United States EPA.

Section 2.18.1 defines a major source as a stationary source or any group of stationary sources as defined above, that directly emits, or has the potential to emit, 100 tons per year or more of any air pollutant except greenhouse gases. The fugitive emissions of a stationary source shall not be considered in determining whether it is a major stationary source for the purpose of Section 302(j) of the Act unless the source belongs to one of the stationary source categories listed in 40 CFR 70.2 "Definitions – Major Source (2)(i-xxvi).

The facility has been issued a Title V permit, TV-122, at the regional wastewater treatment plant.

MBARD Rule 221 – Federal Prevention of Significant Deterioration

The federal Prevention of Significant Deterioration (PSD) program is a construction permitting program for new major stationary sources and major modifications to existing major stationary sources located in areas classified as attainment or in areas that are unclassifiable for any criteria air pollutant. This Rule provides for the review of new and modified major stationary sources to meet requirements for PSD, under the provisions of the federal Clean Air Act. The purpose of this Rule is to incorporate the federal PSD rule requirements into MBARD's Rules and Regulations through incorporating the federal requirements by reference.

This Rule shall apply to any source and owner or operator of any source subject to any requirements under Title 40 Code of Federal Regulations, Part 52, Section 21 (40 CFR 52.21), as incorporated into this Rule.

The proposed project does not meet the definition of a new major stationary source, or a major modification to an existing stationary source. Since the Prevention of Significant Deterioration (PSD) program only applies to new major stationary sources, or major modifications to stationary sources, this project is not subject to MBARD Rule 221.

MBARD Rule 222 – Minor New Source Review
This Rule provides for the review of new and modified stationary air pollution sources to meet the requirements for the review of such sources, under the new source review (NSR) provisions of the federal Clean Air Act. This Rule provides mechanisms by which Authorities to Construct may be granted to such sources without interfering with the attainment or maintenance of ambient air quality standards.

This Rule shall apply to any new or modified stationary source that emits an air pollutant (or its precursors) subject to any National Ambient Air Quality Standard (NAAQS).

Compliance with the New Source Review (NSR) provisions of the California Clean Air Act, as defined in MBARD Rule 207, ensures compliance with MBARD Rule 222, Federal Minor NSR.

MBARD Rule 300 – District Fees
This Rule shall apply to all owners and operators of stationary sources which are required by MBARD Rule 200 *Permits Required* to obtain an Authority to Construct or Permit to Operate; and to requesters of MBARD services, materials, or equipment.

According to MBARD Fee Determination Protocol, affirmed by the Board on 6/16/04, and revised on 8/26/19, the billable emissions shall be based on the 75% of the potential to emit for equipment listed on the permit unless operation is restricted by permit conditions. Table 17 shows the billable emissions from the proposed Isuzu CP-4LE2X diesel engine with a corresponding fee code of 503.

Table 17. PTE emissions for the Isuzu CP-4LE2X diesel engine.

Pollutant	Yearly emissions[1] (ton/yr)
NO_x	1.58
VOC	0.01
CO	0.00
SO_x	0.00
PM	0.01
PTE Total:	1.60
75% PTE:	1.20

[1] Annual emissions based upon proposed operating schedule 8,760 hours per year.

MBARD Rule 400 – Visible Emissions:
The purpose of this Rule is to provide limits for the visible emissions from sources within MBARD. The provisions of this Rule shall apply to all sources of air pollutant emissions in MBARD.

According to MBARD Rule 400 Section 3.1, no air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark or darker than Ringelmann 1, or equivalent 20% opacity. This requirement will be included as a permit condition.

MBARD Rule 402 – Nuisance:
The purpose of this Rule is to provide an explicit prohibition against sources creating public nuisances while operating within MBARD. The provisions of this Rule shall apply to all sources of air pollutant emissions within the Air District.

According to MBARD Rule 402, Part 3, no person shall discharge from any source whatsoever such quantities of air contaminants or other materials which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public; or which endanger the comfort, repose, health, or

safety of any such persons or the public; or which cause, or have a natural tendency to cause, injury or damage to business or property. This requirement will be included as a permit condition.

MBARD Rule 403 – Particulate Matter:
The purpose of this Rule is to provide particulate matter emission limits for sources operating within MBARD. The provisions of this Rule shall apply to any source discharging particulate matter while operating within the Air District.

Pursuant to Section 3.1, a person shall not discharge from any source whatsoever particulate matter in excess of 0.15 grains/ft^3.

Compliance is assured by the exhaust grain loading calculation from the Santa Barbara County APCD Piston IC Engine Technical Reference Document, equation A3, as follows:

$$E_C = EF_{PM} * CF1 * 1/F_D * 1/BSFC * 1/EAC * 1/CF2 * 10^6$$

$$EC = (0.0149\ g/hp\text{-}hr) * (7{,}000\ gr/lb) * (MMBtu/9{,}220\ ft^3) * (hp\text{-}hr/7{,}500\ Btu) * (lb/454\ g) * (10^6\ Btu/MMBtu) = 0.0033\ gr/ft^3$$

where:
EC = exhaust grain loading (gr/dscf).
EF_{PM} = Tier 4 Final particulate matter emission factor (0.0149 g/hp-hr).
F_D = F-factor exhaust volume at 0% O_2 and TSTD (9, 220 ft^3/MMBTU @ 68ºF).
BSFC = engine brake-specific fuel consumption - HHV based (7,500 Btu/bhp-hr - Turbocharged).
EAC = excess air correction (assume 0% O_2).
CF1 = grains to pound conversion factor (7000 gr/lb).
CF2 = grams to pound conversion factor (454 g/lb).
2. The formula is referenced from the "Santa Barbara County APCD Piston IC Engine Technical Reference Document."
https://www.ourair.org/wp-content/uploads/sbcapcdicerefdoc.pdf

MBARD Rule 404 – Sulfur Compounds & Nitrogen Oxides
The purpose of this Rule is to provide limits for the emissions of sulfur compounds, nitrogen oxides and nitrogen dioxide from sources within MBARD. The provisions of this Rule shall apply to sources of sulfur compounds, nitrogen oxides, and nitrogen dioxide subject to MBARD Rule 200 *Permits Required*.

Pursuant to Section 1.3.2, any source subject to an emission limit imposed by the BACT requirements of Section 4.1 or 5.2 of MBARD Rule 207 shall not be subject to Section 3.1 of this Rule for the same pollutant. As noted above, the project is subject and will meet the Rule 207 BACT requirements.

MBARD Rule 412 – Sulfur Content of Fuels:
The purpose of this Rule is to limit emissions of sulfur oxides from combustion sources within MBARD. The provisions of this Rule shall apply to all combustion sources operated within the Air District unless exempted pursuant to Section 1.3 of this Rule.

According to MBARD Rule 412 Part 3, no liquid fuel shall be burned unless the sulfur content is less than 0.5 percent by weight. Pursuant to MBARD Rule 1010, the diesel-fueled engine must only use CARB diesel fuel and will ensure compliance with the sulfur content of this Section.

MBARD Rule 436 – Title V: General Prohibitory Rule

The purpose of this Rule is to provide federally enforceable potential to emit limitations limiting emissions below the thresholds requiring federal Title V operating permits under Rule 218.

Pursuant to Section 1.3.1.3, any stationary source with a valid federal operating permit is exempt from the requirements of this Rule. As stated above, the facility is operating under a Title V permit and is exempt from the requirements of this Rule.

Rule 1000 – Toxic Air Contaminants:

This Rule applies to any new or modified stationary sources for which an Authority to Construct or a Permit to Operate is required pursuant to MBARD Regulation II - Permits, and which has the potential to emit into the atmosphere any TAC. Whenever a potential TAC may be subject to more than one MBARD Rule, or to more than one requirement in this rule, the requirement resulting in the least hazard to the public, as determined by the Air Pollution Control Officer, shall apply.

MBARD Rule 1000 Part 3 requires new or modified sources of toxic air contaminants (TAC) and carcinogenic toxic air contaminants (CATC) to meet the following:

- 3.1.1 The acute hazard index for any target organ or organ system due to TAC emissions from the new or modified permit unit shall not exceed 1.0 at any receptor location;
- 3.1.2 The chronic hazard index for any target organ or organ system due to TAC emissions from the new or modified permit unit shall not exceed 1.0 at any receptor location;
- 3.1.3 The cancer risk due to TAC emissions from the new or modified permit unit shall not exceed 10 in one million at any receptor location.

Pursuant to Section 1.3 of this Rule, the provisions of this Rule shall not apply to any Source Category that has an existing State ATCM. Since the proposed diesel-powered engine pump set is subject to the ATCM for Portable Compression Ignition Engines, the project is exempt from Rule 1000.

AB2588 Air Toxic "Hot Spots" Information & Assessment Act

Diesel PM is considered a toxic air contaminant (TAC). Due to the toxicity nature of diesel PM, the diesel engine will be subject to the requirements of AB2588, Air Toxic "Hots Spots" Information and Assessment Act of 1987. Thus, a prioritization assessment was conducted for informational purposes. The prioritization score was conducted using SJVAPCD's Prioritization Calculator (12/1/22), which was updated to include the latest risk assessment health values from the Consolidated Table of Office of Environmental Health Hazard Assessment (OEHHA) and CARB Approved Risk Assessment Health version 25268 (9/25/2025).

Table 18 shows the prioritization scores, which include acute, chronic, and cancer scores at various receptor distances since the proposed unit is a portable engine that can be used at multiple locations.

Table 18. Prioritization scores for each possible receptor-distance.

Receptor proximity & proximity factor	Cancer Score	Chronic Score	Acute Score
0 < R < 100 (1.000)	4.05E+01	6.00E-02	-
100 ≤ R < 250 (0.250)	1.01E+01	1.50E-02	-
250 ≤ R < 500 (0.040)	1.62E+00	2.40E-03	-
500 ≤ R < 1000 (0.011)	4.45E-01	6.60E-04	-
1000 ≤ R < 1500 (0.003)	1.21E-01	1.80E-04	-
1500 ≤ R < 2000 (0.002)	8.09E-02	1.20E-04	-

Title 17 CCR Section §93116: ATCM for Diesel Particulate Matter From Portable Engines Rated at 50 Horsepower and Greater
The portable diesel engine is subject to the requirements of this rule.

Diesel Fuel Requirement of Section §93116.3(a)
Pursuant to Section §93116.3(a), diesel-fueled portable engines must only use CARB diesel fuel, alternative diesel fuel that has been verified by CARB, or CARB diesel fuel utilizing fuel additives that have been verified by CARB.

Diesel PM Standards of Section §93116.3(b)
Pursuant to Section §93116.3(b)(1), starting January 1, 2010, all portable diesel-fueled engines must be certified to meet a federal or California standard for newly manufactured engines pursuant to 40 CFR Part 89, Part 86, or the equivalent categories in Title 13 of CCR. The portable diesel engine is a certified Tier 4 Final unit.

Section §93116.3(b)(3) sets date lines for when portable engines can be designated low-use or emergency-use for Tier 1 and Tier 2 engines only and does not affect this Tier 4 final portable engine.

Fleet Requirements of Section §93116.3(c)
Section §93116.3(c)(1) sets date lines for removing Tier 1, Tier 2 and Tier 3 diesel engines from operation. Tier 3 engines build on or after 1/1/2009 for large fleets need to be removed from operation by 1/1/2027. For the purposes of this ATCM, a large fleet has a total maximum horsepower over 750 bhp for all portable engines under common ownership and control of a fleet on June 30, 2019, per Section §93116(a)(17)(A). M1W is considered a large fleet since it operated a portable engine rated at 1,114 HP under PTO 10986 as of June 30, 2019. The proposed Model Year 2024 Tier 4 Final engine does not need to be removed from service.

Section §93116.3(c)(2) sets the fleet PM standards for facilities that elected to meet the fleet standards of this ATCM. M1W did not elect to meet the fleet PM standards of this Section.

Prohibition of Sale of Section §93116.3(e)
This section does not have prohibition of sale requirements for Tier 4 Final engines.

Disclosure of Applicability of Section §93116.3(f)
Pursuant to Section 93116.3(f), the facility must provide the following disclosure in writing when selling this engine as part of the sales transaction: "When operated in California, any portable diesel engine may be subject to the California Air Resources Board Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated At 50 Horsepower And Greater. It therefore could be subject to retrofit or accelerated turnover requirements to reduce emissions of air pollutants. For more information, please visit the California Air Resources Board website at http://www.arb.ca.gov/portable/portable.htm."

Fleet Recordkeeping and Reporting Requirements of Section §93116.4
Pursuant to Section 93116.4(b)(2), the engine is also required to install and maintain a non-resettable hour-meter.

The permit will be conditioned to meet the requirements of this ATCM.

It is noted that this ATCM for portable diesel engines does not list requirements for diesel engines at or near schools like those included in the ATCM for stationary diesel engines.

Health & Safety Code (H&SC) Section 42301.6 – Public Notification Requirements:
Pursuant to Section §42301.6(a), prior to approving an application for a permit to construct or modify a source that emits hazardous air emissions, and that source is located within 1,000 feet from the outer boundary of a school site, the air pollution control officer shall prepare a public notice in which the proposed project or modification for which the application for a permit is made is fully described. The notice may be prepared whether or not the material is or would be subject to subdivision (a) of Section 25536, if the air pollution control officer determines and the administering agency concurs that hazardous air emissions of the material may result from an air release, as defined by Section 44303. The notice may be combined with any other notice on the project or permit that is required by law.

MBARD protocol adopted by the board on 11/14/01 specifies the risk thresholds for public notification. If the carcinogenic risk is in excess of 1 in a million or non-carcinogenic risk is at or above the applicable Reference Exposure Levels, MBARD will do the Public Notice.

Table 1 above shows that there is one (1) possible operating locations that are located within 1,000 feet of a school. The locations is as follows:

- Monterey PS #7 (PS 7)
    - UTM NAD83 Zone 10 Coordinates: 598689.56 m E & 4052255.71 m N

The facility has provided a health risk assessment (HRA) for the portable Tier 4 Final diesel fueled Isuzu 61.7 HP 6" pump. Attachment 1 includes a copy of the HRA.

The HRA used the California Air Pollution Control Officers Association (CAPCOA) Diesel Internal Combustion Engine (DICE) Risk Tool to determine the residential and worker cancer risk for each location listed in Table 1. The stack parameters (stack height, stack diameter, exhaust flow rate, & exhaust temperature) used in the DICE Risk Tool are shown in Table 3. In addition, the following parameters was selected/used in the DICE Risk Tool:

- Weather data: Monterey Airport Station KMRY (2015-2016, 2018-2019, 2021), processed with AERMET (version 19191). Data can be found on following webpage: https://ww2.arb.ca.gov/resources/documents/harp-aermod-meteorological-files.
- Base elevation: 50.3 meters (Monterey Air Port).
- Dispersion Coefficients: Rural.
- Building downwash: No.
- Engine load factor: 100%.
- Resident distance: 150 meters for PS #7
- Worker distance: 47 meters for PS #7
- Receptor Grid: Default Grid Spacing.
- Risk Setting: District Defaults.

Table 19 show the DICE HRA results for nearest residential receptor at a distance of 150 meters from Monterey PS #7.

Table 19. DICE HRA results - resident.

Location	Hours per year	Cancer risk (in a million)	Chronic Hazard Index	Acute
Monterey PS #7	500	0.7	1.67E-04	-

Table 20 show the DICE HRA results for nearest worker receptor at a distance of 40 meters from Monterey PS #7.

Table 20. DICE HRA results - worker.

Location	Hours per year	Cancer risk (in a million)	Chronic Hazard Index	Acute
Monterey PS #7	500	0.1	3.59E-04	-

As shown in Table 19 and Table 20, the cancer risk is less than 1 in a million and the chronic hazard index is less than 1.0.

The facility has requested a 500 hour per year operating limit at Monterey PS #7. Accordingly, M1W is not subject to the CA H&SC public notification requirements at this time.

VI. CONCLUSIONS:

The equipment has the capability to comply with all applicable MBARD rules and regulations.

VII. RECOMMENDATIONS:

Issue the Authorities to Construct with the following additional conditions:

1. No later than twenty-four (24) hours prior to start-up of the equipment, Monterey One Water must notify the Monterey Bay Air Resources District (MBARD) and arrange for an inspection of the equipment during normal operation to verify compliance with MBARD Rules and Regulations. [Basis: MBARD Rule 207]

2. The annual hours of operation and diesel fuel usage shall be reported to MBARD, upon request. [Basis: MBARD Rule 207]

3. The engine shall be in compliance with the emission standards, as specified in the California Air Resources Board (CARB) Airborne Toxic Control Measure (ATCM) For Diesel Particulate Matter From Portable Engines Rated At 50 Horsepower And Greater. [Basis: 17 CCR Section §93116]

4. The total oxides of nitrogen emissions, as NO_2, from the equipment below operating at the Monterey One Water Regional Wastewater Treatment Plant shall not exceed 221 pounds per day; excluding emissions from units exempted from the Offset requirements of Rule 207. The NO_x emissions for this portable Isuzu CP-4LE2X Tier 4 Final engine-pump set under this permit shall be based on the engine's NO_x emissions factor of 2.662 grams per brake horse power-hour or 0.36 pounds per hour. [Basis: SIP Rule 207]

    a) The Yanmar Portable Prime twin-pack diesel engine-generator set powered by the following two Tier 4 Final diesel engines:
        i. Volvo Penta Tier 4 Final diesel engine under Authority to Construct, APP-26-00013.
        ii. Volvo Penta Tier 4 Final diesel engine under Authority to Construct APP-26-00014.
    b) The natural gas/digester gas fired cogeneration engine sets #1, #2, & #3, under latest permit to operate GNR-0018362, GNR-0018363, and GNR-0018364, respectively.
    c) Digester waste gas candle stick flares under latest permit to operate GNR-0018365.
    d) The natural gas/digester gas fired boiler under latest permit to operate GNR-0018366.

e) Portable sludge lagoon barge engine under latest permit to operate GNR-0018367.
f) Portable prime pump under this permit, latest permit to operate GNR-0017433.
g) Portable prime water pump under latest permit to operate GNR-0018290.
h) Portable prime sewer pump under latest permit to operate PTO-23-00016.
i) Portable prime pump under latest Authority to Construct APP-26-00011.

5. The total carbon monoxide (CO) emissions from the equipment below operating at the Monterey One Water Regional Wastewater Treatment Plant shall not exceed 676.18 pounds per day; excluding emissions from units exempted from the Offset requirements of Rule 207. The CO emissions for this portable Isuzu CP-4LE2X Tier 4 Final engine-pump set under this permit shall be based on the engine's CO emissions factor of 0.007 grams per brake horse power-hour or 9.51E-04 pounds per hour. [Basis: SIP Rule 207 Offsets]

a) The Yanmar Portable Prime twin-pack diesel engine-generator set powered by the following two Tier 4 Final diesel engines:
    i. Volvo Penta Tier 4 Final diesel engine under Authority to Construct, APP-26-00013.
    ii. Volvo Penta Tier 4 Final diesel engine under Authority to Construct APP-26-00014.
b) The natural gas/digester gas fired cogeneration engine sets #1, #2, & #3, under latest permit to operate GNR-0018362, GNR-0018363, and GNR-0018364, respectively.
c) Digester waste gas candle stick flares under latest permit to operate GNR-0018365.
d) The natural gas/digester gas fired boiler under latest permit to operate GNR-0018366.
e) Portable sludge lagoon barge engine under latest permit to operate GNR-0018367.
f) Portable prime pump under this permit, latest permit to operate GNR-0017433.
g) Portable prime water pump under latest permit to operate GNR-0018290.
h) Portable prime sewer pump under latest permit to operate PTO-23-00016.
i) Portable prime pump under latest Authority to Construct APP-26-00011.

6. The total volatile organic compounds (VOC) emissions from the equipment below operating at the Monterey One Water Regional Wastewater Treatment Plant shall not exceed 220.98 pounds per day; excluding emissions from units exempted from the Offset requirements of Rule 207. The VOC emissions for this portable Isuzu CP-4LE2X Tier 4 Final engine-pump set under this permit shall be based on the engine's VOC emissions factor of 0.015 grams per brake horse power-hour or 2.03E-03 pounds per hour. [Basis: SIP Rule 207 Offsets]

a) The Yanmar Portable Prime twin-pack diesel engine-generator set powered by the following two Tier 4 Final diesel engines:
    i. Volvo Penta Tier 4 Final diesel engine under Authority to Construct, APP-26-00013.
    ii. Volvo Penta Tier 4 Final diesel engine under Authority to Construct APP-26-00014.
b) The natural gas/digester gas fired cogeneration engine sets #1, #2, & #3, under latest permit to operate GNR-0018362, GNR-0018363, and GNR-0018364, respectively.
c) Digester waste gas candle stick flares under latest permit to operate GNR-0018365.
d) The natural gas/digester gas fired boiler under latest permit to operate GNR-0018366.
e) Portable sludge lagoon barge engine under latest permit to operate GNR-0018367.
f) Portable prime pump under this permit, latest permit to operate GNR-0017433.
g) Portable prime water pump under latest permit to operate GNR-0018290.
h) Portable prime sewer pump under latest permit to operate PTO-23-00016.
i) Portable prime pump under latest Authority to Construct APP-26-00011.

7. Monterey One Water shall keep daily records and prepare a monthly summary to record the following process parameters. [Basis: MBARD Rule 207]

   a) Date of operation;
   b) Operating location;
   c) Start and finish engine hour meter readings;
   d) Hours of operation (hours/day);
   e) Maintenance and testing hours of operation;
   f) Total combined monthly engine hours of operation (hours/month); and,
   g) Total combined monthly engine diesel fuel usage (gallons/month). If no fuel records are available, fuel usage can be based on the engine's maximum fuel usage rate of 2.93 gallons per hour.

   If the operating location is within 1,000 feet from the outer boundary of a school site, kindergarten through grade 12, the log shall also include the following information:

   h) Name of school; and,
   i) School address.

   Records shall be retained for at least five (5) years and made available to MBARD staff upon request. The requested records must be provided to MBARD within ten business days of the request.

8. The engine shall be equipped with a non-resettable meter which registers the total hours operated, and shall be maintained in good working condition. [Basis: MBARD Rule 207]

9. The engine and control devices must be installed and configured according to the manufacturer's emission-related written instructions. [Basis: MBARD Rule 207]

10. The engine and control devices shall be operated and maintained in accordance with the manufacturer's emission-related written instructions. Maintenance records shall be retained with other required engine operational data as specified in Condition 7. [Basis: MBARD Rule 207]

11. Operation of the engine and emission control devices that is not in accordance with the manufacturer's emission-related written instructions, or changes in the manufacturer's emission-related settings constitutes a modification of the permit and requires MBARD approval. [Basis: MBARD Rule 207]

12. The engine shall not reside or operate at a single site within a facility greater than 12 consecutive months, excluding storage periods. [Basis: Title 17 CCR 93116.2]

13. Upon sale of this engine, Monterey One Water must provide the following disclosure in writing to the buyer as part of the sales transaction: "When operated in California, any portable diesel engine may be subject to the California Air Resources Board Airborne Toxic Control Measure for Diesel Particulate Matter From Portable Engines Rated At 50 Horsepower And Greater. Therefore, it could be subject to retrofit or accelerated turnover requirements to reduce emissions of air pollutants. For more information, please visit the California Air Resources Board website at http://www.arb.ca.gov/portable/portable.htm." [Basis: MBARD-only, Title 17 CCR 93116.3(f), Non-Federally Enforceable]

14. The diesel fuel consumed shall meet California Air Resources Board (CARB) specifications, or the alternative diesel fuel specifications as defined in the Portable ATCM for engines rated at 50 horsepower and greater. [Basis: Title 17 CCR 93116.3(a)]

15. If the cumulative annual operating hours exceed 500 hours per year at the Monterey Pump Station PS #7 located at Reeside & Cannery Row in Monterey, which is located within 1,000 feet from the outer boundary of the Big Sur Charter School, Monterey One Water must notify MBARD and comply with Health and Safety Code Sections 42301.6 through 42301.9, which include public notice requirements. [Basis: HSC § 42301.6-42301.9]

16. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark or darker than Ringelmann 1, or equivalent 20% opacity. [Basis: MBARD Rule 400]

17. No emissions shall constitute a public nuisance. [Basis: MBARD Rule 402]

Attachment 1

Health Risk Assessment for the Portable Tier 4 Final Diesel Fueled Isuzu 61.7 HP 6” Pump
(Provided by Monterey One Water)

ATMOSPHERIC DYNAMICS, INC
Meteorological & Air Quality Modeling

Memorandum

To: Sarah Stevens, M1W
From: Greg Darvin: Atmospheric Dynamics, Inc.
Date: April 27, 2026

Subject: HRA for the 6" Field Pump

Health Risk Assessment

Pursuant to MBARD Rule 1000, section 3.1, a Health Risk Assessment (HRA) is required for any new or modified source which emits toxic air contaminants. The Tier IV diesel fueled Isuzu 61.7 BHP 6" pump will operate at the following 10 locations in both prime and emergency modes:

Station Name	Address
Castroville PS (CAPS)	Hwy 1, Castroville, CA
Fort Ord PS (FOPS)	Marina Dr, Marina, CA
Marina PS (MAPS)	Seaside Ct & Reservation Rd, Marina, CA
Monterey PS #6	Canyon Del Rey & Hwy 68, Monterey, CA
Monterey PS #7 (PS 7)	Reeside & Cannery Row, Monterey, CA
Monterey PS (MOPS)	1951 Del Monte Ave, Monterey, CA
Moss Landing PS (MLPS)	Moss Landing Rd, Moss Landing, CA
Pacific Grove PS # 12	Ocean View & 9th St, Pacific Grove, CA
Pacific Grove PS #13 (PS 13)	Ocean View & Fountain Ave, Pacific Grove, CA
Pacific Grove PS #15 (PS 15)	Ocean View & Coral St, Pacific Grove, CA

To determine the maximum carcinogenic risk at the proposed Prime use sites, a health risk assessment was prepared using the Diesel Internal Combustion Engine (DICE version 23312) risk tool. This screening model utilizes site specific meteorology, polar receptor grids, the AERMOD dispersion model and the Hotspots Analysis and Reporting Program 2 (HARP2) risk model. Five years of hourly meteorology from Monterey Airport (2015-2016, 2017-2019, 2020), processed with AERMET (version 19191) were input into DICE along with the stack parameters, site specific hours of operation, and distances to the nearest sensitive (residential) and worker receptors. AERMOD, which is included in the DICE model, calculates ambient concentrations in areas of flat terrain. AERMOD assesses these impacts for all meteorological

conditions, including those that would limit the amount of final plume rise. Plume impaction on elevated terrain, such as on the slope of a nearby hill, can cause high ground level concentrations, especially under stable atmospheric conditions. Due to the relatively flat nature of the project terrain area at all locations, including the surrounding properties, plume impaction effects would not be expected to occur.

Exposure durations were based on 30 years for sensitive receptors and 25 years for worker receptors.

Model options refer to user selections that account for conditions specific to the area being modeled or to the emissions source that needs to be examined. AERMOD supplies recommended defaults for the user based on the model options. This analysis was conducted using AERMOD in the regulatory default mode, which includes the following additional modeling control options:

- adjusting stack heights for stack-tip downwash,
- employing the USEPA-recommended calms processing routine, and
- employing the USEPA-recommended missing data processing routine.

Stack parameters (e.g., stack height, exit temperature, stack diameter, and stack exit velocity) were based on the parameters given by the engine manufacturer and are presented in Table 1. Stack locations for the proposed sources were matched to show their actual location based on location data provided by M1W.

For each of the 10 locations where the source would operate in prime mode, the minimum distances to the nearest residential and worker receptors were input into the DICE model. Inputs also included the emission factor of DPM at 0.0149 g/bhp-hr, the horsepower and the number of hours of prime operation for each site. The DICE model also generates a 10-meter spaced polar grid from which the point of maximum impact (PMI) can be determined.

Table 1
Isuzu Stack Parameters

Exhaust Height (ft.)	**6.5**
Exhaust Diameter (in.)	**1.56**
Exhaust Flow Rate (acfm)	**237.0**
Exit Velocity (ft/s)	**297.59**
Exhaust Temperature (ºF)	**972.0**

Calculated Cancer Risk Results

Cancer risk is the probability or chance of contracting cancer over a period of time normally defined as either 30 years depending on the project type and agency risk procedures. Carcinogens are not assumed to have a threshold below which there would be no human health impact. In other words, any exposure to a carcinogen is assumed to have some probability of causing cancer; the lower the exposure, the lower the cancer risk (i.e., a linear, no-threshold model). Under various state and local regulations, an incremental cancer risk greater than 10-in-one million due to a project is considered to be a significant impact on public health. For example, the 10-in-one-million risk level is used by the Air Toxics Hot Spots (AB 2588) program and California's Proposition 65 as the public notification level for air toxic emissions from existing sources.

The excess lifetime cancer risk associated with operational concentrations in air estimated for the proposed non-emergency prime operation at all 10 locations will be below the one in a million risk threshold, based on limiting the operating hours to less than or equal to the listed annual hours per year in Table 2. Table 2 also presents the maximum cancer risk associated with the operation of the engines in prime mode at each of the listed locations. The PMI results were used for the residential cancer risks if the PMI were as distances greater than the closest location(s) of the nearest sensitive receptors. There are schools within 1,000 feet of two of the site locations as identified in Table 2. Outputs from the DICE model and source locations in USGS NAD83, Zone 10 coordinates are included in Attachment 1.

Table 2
Risk Results by Location and Hours of Operation

Location	Annual Hours in Prime Mode	Residential Cancer Risk	Worker Cancer Risk
Castroville PS (CAPS)	250	2.0×10^{-7}	1.0×10^{-7}
Fort Ord PS (FOPS)	500	8.0×10^{-7}	1.0×10^{-7}
Marina PS (MAPS)	270	9.0×10^{-7}	1.0×10^{-7}
Monterey PS #6	500	1.0×10^{-7}	1.0×10^{-7}
Monterey PS #7 (PS 7)*	500	7.0×10^{-7}	1.0×10^{-7}
Monterey PS (MOPS)	500	7.0×10^{-7}	1.0×10^{-7}
Moss Landing PS (MLPS)	100	9.0×10^{-7}	1.0×10^{-7}
Pacific Grove PS # 12*	250	9.0×10^{-7}	1.0×10^{-7}

Pacific Grove PS #13 (PS 13)	250	6.0×10^{-7}	1.0×10^{-7}
Pacific Grove PS #15 (PS 15)	250	8.0 x 10-7	0
Notes: *** School located within 1,000 feet of source.**			

Attachment 1
Risk Support Data

Station	Address	m # of Prime Hours	Source Coordinates	Source Coordinates	Res Receptor	Worker Receptor	PMI	Residential	Worker	PMI
		6-inch (Field)	UTM NAD83, Zone 10	UTM NAD83, Zone 10	Distance (meters)	Distance (meters)	Distance (meters)	Risk in a million	Risk in a million	Risk in a million
		Modeled	x (meters)	y (meters)						
Castroville PS (CAPS)	Hwy 1, Castroville, CA	250	610054.84	4069940.53	242	212	40	0.2	0.1	0.8
Fort Ord PS (FOPS)	Marina Dr, Marina, CA	500	606476.35	4059957.26	120	170	40	0.8	0.1	1.7
Marina PS (MAPS)	Seaside Ct & Reservation Rd, Marina, CA	270	606925.35	4061318.35	21	110	40	1.1	0.1	1.7
Monterey PS #6	Canyon Del Rey & Hwy 68, Monterey, CA	500	604891.47	4049080.49	794	53	40	0.1	0.1	1.7
Monterey PS #7 (PS 7)	Reeside & Cannery Row, Monterey, CA	500	598689.56	4052255.71	150	47	40	0.7	0.1	1.7
Monterey PS (MOPS)	1951 Del Monte Ave, Monterey, CA	500	600848.96	4051321.25	166	215	40	0.7	0.1	1.7
Moss Landing PS (MLPS)	Moss Landing Rd, Moss Landing, CA	100	608302.47	4073023.77	110	37	40	0.9	0.1	1.7
Pacific Grove PS # 12	Ocean View & 9th St, Pacific Grove, CA	250	597399.24	4053475.37	21	161	40	0.6	0.1	0.8
Pacific Grove PS #13 (PS 13)	Ocean View & Fountain Ave, Pacific Grove, CA	250	597035.60	4053620.43	21	85	40	0.6	0.1	0.8
Pacific Grove PS #15 (PS 15)	Ocean View & Coral St, Pacific Grove, CA	250	596054.44	4054943.18	31	555	40	0.8	0	0.8

Castroville PS Non-Vehicular Diesel Engine Risk Screening Tool Results

Table 1. Results Summary						
Receptor	Cancer		Chronic		Acute	
	Risk (in a million)	Receptor Distance (m)	Hazard Index (HI)	Receptor Distance (m)	Hazard Index (HI)	Receptor Distance (m)
Resident (MEIR)	0.2	242	0	242	-	-
Worker (MEIW)	0	212	0	212	-	-
Maximum (PMI)	0.8	40	0	40	-	-

Table 2. Inputs			
Project Information			
Project Name:	M1W		
Agency Jurisdiction:	Monterey Bay Air Resources District		
Project Output Directory:	G:\Projects\M1W\6 inch pump		
Date Assessment Conducted:	4/25/2026 12:52:00 PM		
Inventory Year:	2026		
Tool Version:	23312		
Meteorological Data			
Surface Met Data File (*.SFC):	G:\Projects\M1W\1200kW Gen\Modeling\KMRY.SFC		
Profile Met Data File (*.PFL):	G:\Projects\M1W\1200kW Gen\Modeling\KMRY.PFL		
Base Elevation (m):	50.3		
Dispersion Coefficients:	Rural		
Building Downwash:	No		
Engine Information			
Engine Horsepower:	61.7		
Engine Load Factor (%):	100		
Engine Annual Usage:	250	hours	
Diesel PM10 Emission Factor:	0.0149	g/bhp-hr	
Diesel PM10 Emissions (lb/yr):	0.5056315		
Stack Height (m):	1.98		
Stack Diameter (m):	0.0396		
Stack Temperature (K):	795.37		
Stack Exit Velocity (m/s):	90.7025		
Risk Settings			
Use District Defaults:	Yes		
Flagpole Receptor Height (m):	0		
Deposition Rate (g/s):	NA		
Receptor Type:	Resident	Worker	
Exposure Duration (yrs):	30	25	
Intake Rate Percentile:	OEHHA Derived	OEHHA Derived	
Time Away from Home <16:	No	-	
Time Away from Home =>16:	No	-	
Use 8-Hour Breathing Rate:	No	No	
Enabled Pathways:	Inhalation Only	Inhalation Only	

Table 3. DPM Concentration and Risk by Receptor Distance							
Receptor Distance (m)	DPM Concentration ($\mu g/m^3$)	Resident			Worker		
		Cancer Risk (in a million)	Chronic HI	Acute HI	Cancer Risk (in a million)	Chronic HI	Acute HI
10	4.28457E-05	0	0	-	0	0	-
20	0.000574265	0.5	0	-	0	0	-
30	0.0009046127	0.8	0	-	0.1	0	-
40	0.0009408318	0.8	0	-	0.1	0	-
50	0.0008755822	0.8	0	-	0.1	0	-
60	0.0007870062	0.7	0	-	0.1	0	-
70	0.0006993026	0.6	0	-	0.1	0	-
80	0.0006229671	0.6	0	-	0	0	-
90	0.0005564697	0.5	0	-	0	0	-
100	0.0005085326	0.4	0	-	0	0	-
110	0.0004918796	0.4	0	-	0	0	-
120	0.0004736557	0.4	0	-	0	0	-
130	0.000454785	0.4	0	-	0	0	-
140	0.0004358212	0.4	0	-	0	0	-
150	0.0004171821	0.4	0	-	0	0	-
160	0.0003991274	0.4	0	-	0	0	-
170	0.0003818249	0.3	0	-	0	0	-
180	0.0003653141	0.3	0	-	0	0	-
190	0.000349642	0.3	0	-	0	0	-
200	0.0003347871	0.3	0	-	0	0	-
210	0.0003207298	0.3	0	-	0	0	-
220	0.0003074473	0.3	0	-	0	0	-
230	0.0002949159	0.3	0	-	0	0	-
240	0.0002830885	0.3	0	-	0	0	-
250	0.0002719219	0.2	0	-	0	0	-
260	0.000261378	0.2	0	-	0	0	-
270	0.0002514165	0.2	0	-	0	0	-
280	0.0002419998	0.2	0	-	0	0	-
290	0.0002330942	0.2	0	-	0	0	-
300	0.0002246631	0.2	0	-	0	0	-
350	0.0001886336	0.2	0	-	0	0	-
400	0.0001607564	0.1	0	-	0	0	-
450	0.0001388012	0.1	0	-	0	0	-
500	0.0001212049	0.1	0	-	0	0	-
600	9.505498E-05	0.1	0	-	0	0	-
700	7.68303E-05	0.1	0	-	0	0	-
800	6.359013E-05	0.1	0	-	0	0	-
900	5.364474E-05	0	0	-	0	0	-
1000	4.596784E-05	0	0	-	0	0	-
1150	3.73404E-05	0	0	-	0	0	-
1300	3.103824E-05	0	0	-	0	0	-
1450	2.62802E-05	0	0	-	0	0	-
1600	2.259044E-05	0	0	-	0	0	-
1750	1.966517E-05	0	0	-	0	0	-
1900	1.730222E-05	0	0	-	0	0	-
2050	1.536312E-05	0	0	-	0	0	-
2250	1.327159E-05	0	0	-	0	0	-
2450	1.160129E-05	0	0	-	0	0	-
2650	1.024363E-05	0	0	-	0	0	-
2850	9.123431E-06	0	0	-	0	0	-
3050	8.187153E-06	0	0	-	0	0	-
3250	7.395528E-06	0	0	-	0	0	-
3450	6.719611E-06	0	0	-	0	0	-
3650	6.13722E-06	0	0	-	0	0	-
3850	5.631482E-06	0	0	-	0	0	-

Fort Ord PS Non-Vehicular Diesel Engine Risk Screening Tool Results

Table 1. Results Summary						
Receptor	Cancer		Chronic		Acute	
	Risk (in a million)	Receptor Distance (m)	Hazard Index (HI)	Receptor Distance (m)	Hazard Index (HI)	Receptor Distance (m)
Resident (MEIR)	0.8	120	0	120	-	-
Worker (MEIW)	0.1	170	0	170	-	-
Maximum (PMI)	1.7	40	0	40	-	-

Table 2. Inputs			
Project Information			
Project Name:	M1W		
Agency Jurisdiction:	Monterey Bay Air Resources District		
Project Output Directory:	G:\Projects\M1W\6 inch pump		
Date Assessment Conducted:	4/25/2026 12:58:49 PM		
Inventory Year:	2026		
Tool Version:	23312		
Meteorological Data			
Surface Met Data File (*.SFC):	G:\Projects\M1W\1200kW Gen\Modeling\KMRY.SFC		
Profile Met Data File (*.PFL):	G:\Projects\M1W\1200kW Gen\Modeling\KMRY.PFL		
Base Elevation (m):	50.3		
Dispersion Coefficients:	Rural		
Building Downwash:	No		
Engine Information			
Engine Horsepower:	61.7		
Engine Load Factor (%):	100		
Engine Annual Usage:	500	hours	
Diesel PM10 Emission Factor:	0.0149	g/bhp-hr	
Diesel PM10 Emissions (lb/yr):	1.011263		
Stack Height (m):	1.98		
Stack Diameter (m):	0.0396		
Stack Temperature (K):	795.37		
Stack Exit Velocity (m/s):	90.7025		
Risk Settings			
Use District Defaults:	Yes		
Flagpole Receptor Height (m):	0		
Deposition Rate (g/s):	NA		
Receptor Type:	Resident	Worker	
Exposure Duration (yrs):	30	25	
Intake Rate Percentile:	OEHHA Derived	OEHHA Derived	
Time Away from Home <16:	No	-	
Time Away from Home =>16:	No	-	
Use 8-Hour Breathing Rate:	No	No	
Enabled Pathways:	Inhalation Only	Inhalation Only	

Table 3. DPM Concentration and Risk by Receptor Distance							
Receptor Distance (m)	DPM Concentration ($\mu g/m^3$)	Resident			Worker		
		Cancer Risk (in a million)	Chronic HI	Acute HI	Cancer Risk (in a million)	Chronic HI	Acute HI
10	8.56914E-05	0.1	0	-	0	0	-
20	0.00114853	1	0	-	0.1	0	-
30	0.001809225	1.6	0	-	0.1	0	-
40	0.001881664	1.7	0	-	0.1	0	-
50	0.001751164	1.5	0	-	0.1	0	-
60	0.001574012	1.4	0	-	0.1	0	-
70	0.001398605	1.2	0	-	0.1	0	-
80	0.001245934	1.1	0	-	0.1	0	-
90	0.001112939	1	0	-	0.1	0	-
100	0.001017065	0.9	0	-	0.1	0	-
110	0.0009837593	0.9	0	-	0.1	0	-
120	0.0009473115	0.8	0	-	0.1	0	-
130	0.0009095699	0.8	0	-	0.1	0	-
140	0.0008716424	0.8	0	-	0.1	0	-
150	0.0008343642	0.7	0	-	0.1	0	-
160	0.0007982549	0.7	0	-	0.1	0	-
170	0.0007636498	0.7	0	-	0.1	0	-
180	0.0007306282	0.6	0	-	0.1	0	-
190	0.0006992839	0.6	0	-	0.1	0	-
200	0.0006695741	0.6	0	-	0.1	0	-
210	0.0006414596	0.6	0	-	0.1	0	-
220	0.0006148946	0.5	0	-	0	0	-
230	0.0005898317	0.5	0	-	0	0	-
240	0.0005661771	0.5	0	-	0	0	-
250	0.0005438438	0.5	0	-	0	0	-
260	0.0005227559	0.5	0	-	0	0	-
270	0.000502833	0.4	0	-	0	0	-
280	0.0004839995	0.4	0	-	0	0	-
290	0.0004661884	0.4	0	-	0	0	-
300	0.0004493263	0.4	0	-	0	0	-
350	0.0003772672	0.3	0	-	0	0	-
400	0.0003215129	0.3	0	-	0	0	-
450	0.0002776023	0.2	0	-	0	0	-
500	0.0002424099	0.2	0	-	0	0	-
600	0.00019011	0.2	0	-	0	0	-
700	0.0001536606	0.1	0	-	0	0	-
800	0.0001271803	0.1	0	-	0	0	-
900	0.0001072895	0.1	0	-	0	0	-
1000	9.193568E-05	0.1	0	-	0	0	-
1150	7.46808E-05	0.1	0	-	0	0	-
1300	6.207648E-05	0.1	0	-	0	0	-
1450	5.25604E-05	0	0	-	0	0	-
1600	4.518087E-05	0	0	-	0	0	-
1750	3.933034E-05	0	0	-	0	0	-
1900	3.460444E-05	0	0	-	0	0	-
2050	3.072624E-05	0	0	-	0	0	-
2250	2.654318E-05	0	0	-	0	0	-
2450	2.320257E-05	0	0	-	0	0	-
2650	2.048726E-05	0	0	-	0	0	-
2850	1.824686E-05	0	0	-	0	0	-
3050	1.637431E-05	0	0	-	0	0	-
3250	1.479106E-05	0	0	-	0	0	-
3450	1.343922E-05	0	0	-	0	0	-
3650	1.227444E-05	0	0	-	0	0	-
3850	1.126296E-05	0	0	-	0	0	-

Marina PS Non-Vehicular Diesel Engine Risk Screening Tool Results

Table 1. Results Summary						
Receptor	Cancer		Chronic		Acute	
	Risk (in a million)	Receptor Distance (m)	Hazard Index (HI)	Receptor Distance (m)	Hazard Index (HI)	Receptor Distance (m)
Resident (MEIR)	0.6	21	0	21	-	-
Worker (MEIW)	0	110	0	110	-	-
Maximum (PMI)	0.9	40	0	40	-	-

Table 2. Inputs			
Project Information			
Project Name:	M1W		
Agency Jurisdiction:	Monterey Bay Air Resources District		
Project Output Directory:	G:\Projects\M1W\6 inch pump		
Date Assessment Conducted:	4/27/2026 9:37:22 AM		
Inventory Year:	2026		
Tool Version:	23312		
Meteorological Data			
Surface Met Data File (*.SFC):	G:\Projects\M1W\1200kW Gen\Modeling\KMRY.SFC		
Profile Met Data File (*.PFL):	G:\Projects\M1W\1200kW Gen\Modeling\KMRY.PFL		
Base Elevation (m):	50.3		
Dispersion Coefficients:	Rural		
Building Downwash:	No		
Engine Information			
Engine Horsepower:	61.7		
Engine Load Factor (%):	100		
Engine Annual Usage:	270	hours	
Diesel PM10 Emission Factor:	0.0149	g/bhp-hr	
Diesel PM10 Emissions (lb/yr):	0.54608202		
Stack Height (m):	1.98		
Stack Diameter (m):	0.0396		
Stack Temperature (K):	795.37		
Stack Exit Velocity (m/s):	90.7025		
Risk Settings			
Use District Defaults:	Yes		
Flagpole Receptor Height (m):	0		
Deposition Rate (g/s):	NA		
Receptor Type:	Resident	Worker	
Exposure Duration (yrs):	30	25	
Intake Rate Percentile:	OEHHA Derived	OEHHA Derived	
Time Away from Home <16:	No	-	
Time Away from Home =>16:	No	-	
Use 8-Hour Breathing Rate:	No	No	
Enabled Pathways:	Inhalation Only	Inhalation Only	

Table 3. DPM Concentration and Risk by Receptor Distance							
Receptor Distance (m)	DPM Concentration ($\mu g/m^3$)	Resident			Worker		
		Cancer Risk (in a million)	Chronic HI	Acute HI	Cancer Risk (in a million)	Chronic HI	Acute HI
10	4.627336E-05	0	0	-	0	0	-
20	0.0006202062	0.5	0	-	0	0	-
30	0.0009769817	0.9	0	-	0.1	0	-
40	0.001016098	0.9	0	-	0.1	0	-
50	0.0009456288	0.8	0	-	0.1	0	-
60	0.0008499667	0.8	0	-	0.1	0	-
70	0.0007552468	0.7	0	-	0.1	0	-
80	0.0006728044	0.6	0	-	0.1	0	-
90	0.0006009872	0.5	0	-	0	0	-
100	0.0005492152	0.5	0	-	0	0	-
110	0.0005312301	0.5	0	-	0	0	-
120	0.0005115482	0.5	0	-	0	0	-
130	0.0004911678	0.4	0	-	0	0	-
140	0.0004706869	0.4	0	-	0	0	-
150	0.0004505566	0.4	0	-	0	0	-
160	0.0004310576	0.4	0	-	0	0	-
170	0.0004123709	0.4	0	-	0	0	-
180	0.0003945392	0.3	0	-	0	0	-
190	0.0003776133	0.3	0	-	0	0	-
200	0.00036157	0.3	0	-	0	0	-
210	0.0003463882	0.3	0	-	0	0	-
220	0.0003320431	0.3	0	-	0	0	-
230	0.0003185091	0.3	0	-	0	0	-
240	0.0003057356	0.3	0	-	0	0	-
250	0.0002936757	0.3	0	-	0	0	-
260	0.0002822882	0.2	0	-	0	0	-
270	0.0002715298	0.2	0	-	0	0	-
280	0.0002613598	0.2	0	-	0	0	-
290	0.0002517417	0.2	0	-	0	0	-
300	0.0002426362	0.2	0	-	0	0	-
350	0.0002037243	0.2	0	-	0	0	-
400	0.0001736169	0.2	0	-	0	0	-
450	0.0001499053	0.1	0	-	0	0	-
500	0.0001309013	0.1	0	-	0	0	-
600	0.0001026594	0.1	0	-	0	0	-
700	8.297672E-05	0.1	0	-	0	0	-
800	6.867733E-05	0.1	0	-	0	0	-
900	5.793633E-05	0.1	0	-	0	0	-
1000	4.964527E-05	0	0	-	0	0	-
1150	4.032764E-05	0	0	-	0	0	-
1300	3.35213E-05	0	0	-	0	0	-
1450	2.838262E-05	0	0	-	0	0	-
1600	2.439767E-05	0	0	-	0	0	-
1750	2.123838E-05	0	0	-	0	0	-
1900	1.86864E-05	0	0	-	0	0	-
2050	1.659217E-05	0	0	-	0	0	-
2250	1.433332E-05	0	0	-	0	0	-
2450	1.252939E-05	0	0	-	0	0	-
2650	1.106312E-05	0	0	-	0	0	-
2850	9.853306E-06	0	0	-	0	0	-
3050	8.842126E-06	0	0	-	0	0	-
3250	7.987171E-06	0	0	-	0	0	-
3450	7.25718E-06	0	0	-	0	0	-
3650	6.628197E-06	0	0	-	0	0	-
3850	6.082E-06	0	0	-	0	0	-

PG PS#13 Non-Vehicular Diesel Engine Risk Screening Tool Results

Table 1. Results Summary						
Receptor	Cancer		Chronic		Acute	
	Risk (in a million)	Receptor Distance (m)	Hazard Index (HI)	Receptor Distance (m)	Hazard Index (HI)	Receptor Distance (m)
Resident (MEIR)	0.6	21	0	21	-	-
Worker (MEIW)	0	85	0	85	-	-
Maximum (PMI)	0.8	40	0	40	-	-

Table 2. Inputs			
Project Information			
Project Name:	M1W		
Agency Jurisdiction:	Monterey Bay Air Resources District		
Project Output Directory:	G:\Projects\M1W\6 inch pump		
Date Assessment Conducted:	4/25/2026 12:17:57 PM		
Inventory Year:	2026		
Tool Version:	23312		
Meteorological Data			
Surface Met Data File (*.SFC):	G:\Projects\M1W\1200kW Gen\Modeling\KMRY.SFC		
Profile Met Data File (*.PFL):	G:\Projects\M1W\1200kW Gen\Modeling\KMRY.PFL		
Base Elevation (m):	50.3		
Dispersion Coefficients:	Rural		
Building Downwash:	No		
Engine Information			
Engine Horsepower:	61.7		
Engine Load Factor (%):	100		
Engine Annual Usage:	250	hours	
Diesel PM10 Emission Factor:	0.0149	g/bhp-hr	
Diesel PM10 Emissions (lb/yr):	0.5056315		
Stack Height (m):	1.98		
Stack Diameter (m):	0.0396		
Stack Temperature (K):	795.37		
Stack Exit Velocity (m/s):	90.7025		
Risk Settings			
Use District Defaults:	Yes		
Flagpole Receptor Height (m):	0		
Deposition Rate (g/s):	NA		
Receptor Type:	Resident	Worker	
Exposure Duration (yrs):	30	25	
Intake Rate Percentile:	OEHHA Derived	OEHHA Derived	
Time Away from Home <16:	No	-	
Time Away from Home =>16:	No	-	
Use 8-Hour Breathing Rate:	No	No	
Enabled Pathways:	Inhalation Only	Inhalation Only	

Table 3. DPM Concentration and Risk by Receptor Distance							
Receptor Distance (m)	DPM Concentration ($\mu g/m^3$)	Resident			Worker		
		Cancer Risk (in a million)	Chronic HI	Acute HI	Cancer Risk (in a million)	Chronic HI	Acute HI
10	4.28457E-05	0	0	-	0	0	-
20	0.000574265	0.5	0	-	0	0	-
30	0.0009046127	0.8	0	-	0.1	0	-
40	0.0009408318	0.8	0	-	0.1	0	-
50	0.0008755822	0.8	0	-	0.1	0	-
60	0.0007870062	0.7	0	-	0.1	0	-
70	0.0006993026	0.6	0	-	0.1	0	-
80	0.0006229671	0.6	0	-	0	0	-
90	0.0005564697	0.5	0	-	0	0	-
100	0.0005085326	0.4	0	-	0	0	-
110	0.0004918796	0.4	0	-	0	0	-
120	0.0004736557	0.4	0	-	0	0	-
130	0.000454785	0.4	0	-	0	0	-
140	0.0004358212	0.4	0	-	0	0	-
150	0.0004171821	0.4	0	-	0	0	-
160	0.0003991274	0.4	0	-	0	0	-
170	0.0003818249	0.3	0	-	0	0	-
180	0.0003653141	0.3	0	-	0	0	-
190	0.000349642	0.3	0	-	0	0	-
200	0.0003347871	0.3	0	-	0	0	-
210	0.0003207298	0.3	0	-	0	0	-
220	0.0003074473	0.3	0	-	0	0	-
230	0.0002949159	0.3	0	-	0	0	-
240	0.0002830885	0.3	0	-	0	0	-
250	0.0002719219	0.2	0	-	0	0	-
260	0.000261378	0.2	0	-	0	0	-
270	0.0002514165	0.2	0	-	0	0	-
280	0.0002419998	0.2	0	-	0	0	-
290	0.0002330942	0.2	0	-	0	0	-
300	0.0002246631	0.2	0	-	0	0	-
350	0.0001886336	0.2	0	-	0	0	-
400	0.0001607564	0.1	0	-	0	0	-
450	0.0001388012	0.1	0	-	0	0	-
500	0.0001212049	0.1	0	-	0	0	-
600	9.505498E-05	0.1	0	-	0	0	-
700	7.68303E-05	0.1	0	-	0	0	-
800	6.359013E-05	0.1	0	-	0	0	-
900	5.364474E-05	0	0	-	0	0	-
1000	4.596784E-05	0	0	-	0	0	-
1150	3.73404E-05	0	0	-	0	0	-
1300	3.103824E-05	0	0	-	0	0	-
1450	2.62802E-05	0	0	-	0	0	-
1600	2.259044E-05	0	0	-	0	0	-
1750	1.966517E-05	0	0	-	0	0	-
1900	1.730222E-05	0	0	-	0	0	-
2050	1.536312E-05	0	0	-	0	0	-
2250	1.327159E-05	0	0	-	0	0	-
2450	1.160129E-05	0	0	-	0	0	-
2650	1.024363E-05	0	0	-	0	0	-
2850	9.123431E-06	0	0	-	0	0	-
3050	8.187153E-06	0	0	-	0	0	-
3250	7.395528E-06	0	0	-	0	0	-
3450	6.719611E-06	0	0	-	0	0	-
3650	6.13722E-06	0	0	-	0	0	-
3850	5.631482E-06	0	0	-	0	0	-

Moss Landing PS Non-Vehicular Diesel Engine Risk Screening Tool Results

Table 1. Results Summary						
Receptor	Cancer		Chronic		Acute	
	Risk (in a million)	Receptor Distance (m)	Hazard Index (HI)	Receptor Distance (m)	Hazard Index (HI)	Receptor Distance (m)
Resident (MEIR)	0.9	110	0	110	-	-
Worker (MEIW)	0.1	37	0	37	-	-
Maximum (PMI)	1.7	37	0	37	-	-

Table 2. Inputs		
Project Information		
Project Name:	M1W	
Agency Jurisdiction:	Monterey Bay Air Resources District	
Project Output Directory:	G:\Projects\M1W\6 inch pump	
Date Assessment Conducted:	4/25/2026 1:51:05 PM	
Inventory Year:	2026	
Tool Version:	23312	
Meteorological Data		
Surface Met Data File (*.SFC):	G:\Projects\M1W\1200kW Gen\Modeling\KMRY.SFC	
Profile Met Data File (*.PFL):	G:\Projects\M1W\1200kW Gen\Modeling\KMRY.PFL	
Base Elevation (m):	50.3	
Dispersion Coefficients:	Rural	
Building Downwash:	No	
Engine Information		
Engine Horsepower:	61.7	
Engine Load Factor (%):	100	
Engine Annual Usage:	500	hours
Diesel PM10 Emission Factor:	0.0149	g/bhp-hr
Diesel PM10 Emissions (lb/yr):	1.011263	
Stack Height (m):	1.98	
Stack Diameter (m):	0.0396	
Stack Temperature (K):	795.37	
Stack Exit Velocity (m/s):	90.7025	
Risk Settings		
Use District Defaults:	Yes	
Flagpole Receptor Height (m):	0	
Deposition Rate (g/s):	NA	
Receptor Type:	Resident	Worker
Exposure Duration (yrs):	30	25
Intake Rate Percentile:	OEHHA Derived	OEHHA Derived
Time Away from Home <16:	No	-
Time Away from Home =>16:	No	-
Use 8-Hour Breathing Rate:	No	No
Enabled Pathways:	Inhalation Only	Inhalation Only

Table 3. DPM Concentration and Risk by Receptor Distance							
Receptor Distance (m)	DPM Concentration ($\mu g/m^3$)	Resident			Worker		
		Cancer Risk (in a million)	Chronic HI	Acute HI	Cancer Risk (in a million)	Chronic HI	Acute HI
10	8.56914E-05	0.1	0	-	0	0	-
20	0.00114853	1	0	-	0.1	0	-
30	0.001809225	1.6	0	-	0.1	0	-
40	0.001881664	1.7	0	-	0.1	0	-
50	0.001751164	1.5	0	-	0.1	0	-
60	0.001574012	1.4	0	-	0.1	0	-
70	0.001398605	1.2	0	-	0.1	0	-
80	0.001245934	1.1	0	-	0.1	0	-
90	0.001112939	1	0	-	0.1	0	-
100	0.001017065	0.9	0	-	0.1	0	-
110	0.0009837593	0.9	0	-	0.1	0	-
120	0.0009473115	0.8	0	-	0.1	0	-
130	0.0009095699	0.8	0	-	0.1	0	-
140	0.0008716424	0.8	0	-	0.1	0	-
150	0.0008343642	0.7	0	-	0.1	0	-
160	0.0007982549	0.7	0	-	0.1	0	-
170	0.0007636498	0.7	0	-	0.1	0	-
180	0.0007306282	0.6	0	-	0.1	0	-
190	0.0006992839	0.6	0	-	0.1	0	-
200	0.0006695741	0.6	0	-	0.1	0	-
210	0.0006414596	0.6	0	-	0.1	0	-
220	0.0006148946	0.5	0	-	0	0	-
230	0.0005898317	0.5	0	-	0	0	-
240	0.0005661771	0.5	0	-	0	0	-
250	0.0005438438	0.5	0	-	0	0	-
260	0.0005227559	0.5	0	-	0	0	-
270	0.000502833	0.4	0	-	0	0	-
280	0.0004839995	0.4	0	-	0	0	-
290	0.0004661884	0.4	0	-	0	0	-
300	0.0004493263	0.4	0	-	0	0	-
350	0.0003772672	0.3	0	-	0	0	-
400	0.0003215129	0.3	0	-	0	0	-
450	0.0002776023	0.2	0	-	0	0	-
500	0.0002424099	0.2	0	-	0	0	-
600	0.00019011	0.2	0	-	0	0	-
700	0.0001536606	0.1	0	-	0	0	-
800	0.0001271803	0.1	0	-	0	0	-
900	0.0001072895	0.1	0	-	0	0	-
1000	9.193568E-05	0.1	0	-	0	0	-
1150	7.46808E-05	0.1	0	-	0	0	-
1300	6.207648E-05	0.1	0	-	0	0	-
1450	5.25604E-05	0	0	-	0	0	-
1600	4.518087E-05	0	0	-	0	0	-
1750	3.933034E-05	0	0	-	0	0	-
1900	3.460444E-05	0	0	-	0	0	-
2050	3.072624E-05	0	0	-	0	0	-
2250	2.654318E-05	0	0	-	0	0	-
2450	2.320257E-05	0	0	-	0	0	-
2650	2.048726E-05	0	0	-	0	0	-
2850	1.824686E-05	0	0	-	0	0	-
3050	1.637431E-05	0	0	-	0	0	-
3250	1.479106E-05	0	0	-	0	0	-
3450	1.343922E-05	0	0	-	0	0	-
3650	1.227444E-05	0	0	-	0	0	-
3850	1.126296E-05	0	0	-	0	0	-

Monterey PS#6 Non-Vehicular Diesel Engine Risk Screening Tool Results

Table 1. Results Summary						
Receptor	Cancer		Chronic		Acute	
	Risk (in a million)	Receptor Distance (m)	Hazard Index (HI)	Receptor Distance (m)	Hazard Index (HI)	Receptor Distance (m)
Resident (MEIR)	0.1	794	0	794	-	-
Worker (MEIW)	0.1	53	0	53	-	-
Maximum (PMI)	1.7	40	0	40	-	-

Table 2. Inputs			
Project Information			
Project Name:	M1W		
Agency Jurisdiction:	Monterey Bay Air Resources District		
Project Output Directory:	G:\Projects\M1W\6 inch pump		
Date Assessment Conducted:	4/25/2026 1:36:17 PM		
Inventory Year:	2026		
Tool Version:	23312		
Meteorological Data			
Surface Met Data File (*.SFC):	G:\Projects\M1W\1200kW Gen\Modeling\KMRY.SFC		
Profile Met Data File (*.PFL):	G:\Projects\M1W\1200kW Gen\Modeling\KMRY.PFL		
Base Elevation (m):	50.3		
Dispersion Coefficients:	Rural		
Building Downwash:	No		
Engine Information			
Engine Horsepower:	61.7		
Engine Load Factor (%):	100		
Engine Annual Usage:	500	hours	
Diesel PM10 Emission Factor:	0.0149	g/bhp-hr	
Diesel PM10 Emissions (lb/yr):	1.011263		
Stack Height (m):	1.98		
Stack Diameter (m):	0.0396		
Stack Temperature (K):	795.37		
Stack Exit Velocity (m/s):	90.7025		
Risk Settings			
Use District Defaults:	Yes		
Flagpole Receptor Height (m):	0		
Deposition Rate (g/s):	NA		
Receptor Type:	Resident	Worker	
Exposure Duration (yrs):	30	25	
Intake Rate Percentile:	OEHHA Derived	OEHHA Derived	
Time Away from Home <16:	No	-	
Time Away from Home =>16:	No	-	
Use 8-Hour Breathing Rate:	No	No	
Enabled Pathways:	Inhalation Only	Inhalation Only	

Table 3. DPM Concentration and Risk by Receptor Distance							
Receptor Distance (m)	DPM Concentration ($\mu g/m^3$)	Resident			Worker		
		Cancer Risk (in a million)	Chronic HI	Acute HI	Cancer Risk (in a million)	Chronic HI	Acute HI
10	8.56914E-05	0.1	0	-	0	0	-
20	0.00114853	1	0	-	0.1	0	-
30	0.001809225	1.6	0	-	0.1	0	-
40	0.001881664	1.7	0	-	0.1	0	-
50	0.001751164	1.5	0	-	0.1	0	-
60	0.001574012	1.4	0	-	0.1	0	-
70	0.001398605	1.2	0	-	0.1	0	-
80	0.001245934	1.1	0	-	0.1	0	-
90	0.001112939	1	0	-	0.1	0	-
100	0.001017065	0.9	0	-	0.1	0	-
110	0.0009837593	0.9	0	-	0.1	0	-
120	0.0009473115	0.8	0	-	0.1	0	-
130	0.0009095699	0.8	0	-	0.1	0	-
140	0.0008716424	0.8	0	-	0.1	0	-
150	0.0008343642	0.7	0	-	0.1	0	-
160	0.0007982549	0.7	0	-	0.1	0	-
170	0.0007636498	0.7	0	-	0.1	0	-
180	0.0007306282	0.6	0	-	0.1	0	-
190	0.0006992839	0.6	0	-	0.1	0	-
200	0.0006695741	0.6	0	-	0.1	0	-
210	0.0006414596	0.6	0	-	0.1	0	-
220	0.0006148946	0.5	0	-	0	0	-
230	0.0005898317	0.5	0	-	0	0	-
240	0.0005661771	0.5	0	-	0	0	-
250	0.0005438438	0.5	0	-	0	0	-
260	0.0005227559	0.5	0	-	0	0	-
270	0.000502833	0.4	0	-	0	0	-
280	0.0004839995	0.4	0	-	0	0	-
290	0.0004661884	0.4	0	-	0	0	-
300	0.0004493263	0.4	0	-	0	0	-
350	0.0003772672	0.3	0	-	0	0	-
400	0.0003215129	0.3	0	-	0	0	-
450	0.0002776023	0.2	0	-	0	0	-
500	0.0002424099	0.2	0	-	0	0	-
600	0.00019011	0.2	0	-	0	0	-
700	0.0001536606	0.1	0	-	0	0	-
800	0.0001271803	0.1	0	-	0	0	-
900	0.0001072895	0.1	0	-	0	0	-
1000	9.193568E-05	0.1	0	-	0	0	-
1150	7.46808E-05	0.1	0	-	0	0	-
1300	6.207648E-05	0.1	0	-	0	0	-
1450	5.25604E-05	0	0	-	0	0	-
1600	4.518087E-05	0	0	-	0	0	-
1750	3.933034E-05	0	0	-	0	0	-
1900	3.460444E-05	0	0	-	0	0	-
2050	3.072624E-05	0	0	-	0	0	-
2250	2.654318E-05	0	0	-	0	0	-
2450	2.320257E-05	0	0	-	0	0	-
2650	2.048726E-05	0	0	-	0	0	-
2850	1.824686E-05	0	0	-	0	0	-
3050	1.637431E-05	0	0	-	0	0	-
3250	1.479106E-05	0	0	-	0	0	-
3450	1.343922E-05	0	0	-	0	0	-
3650	1.227444E-05	0	0	-	0	0	-
3850	1.126296E-05	0	0	-	0	0	-

Monterey PS#7 Non-Vehicular Diesel Engine Risk Screening Tool Results

Table 1. Results Summary						
Receptor	Cancer		Chronic		Acute	
	Risk (in a million)	Receptor Distance (m)	Hazard Index (HI)	Receptor Distance (m)	Hazard Index (HI)	Receptor Distance (m)
Resident (MEIR)	0.7	150	0	150	-	-
Worker (MEIW)	0.1	47	0	47	-	-
Maximum (PMI)	1.7	40	0	40	-	-

Table 2. Inputs			
Project Information			
Project Name:	M1W		
Agency Jurisdiction:	Monterey Bay Air Resources District		
Project Output Directory:	G:\Projects\M1W\6 inch pump		
Date Assessment Conducted:	4/25/2026 1:41:27 PM		
Inventory Year:	2026		
Tool Version:	23312		
Meteorological Data			
Surface Met Data File (*.SFC):	G:\Projects\M1W\1200kW Gen\Modeling\KMRY.SFC		
Profile Met Data File (*.PFL):	G:\Projects\M1W\1200kW Gen\Modeling\KMRY.PFL		
Base Elevation (m):	50.3		
Dispersion Coefficients:	Rural		
Building Downwash:	No		
Engine Information			
Engine Horsepower:	61.7		
Engine Load Factor (%):	100		
Engine Annual Usage:	500	hours	
Diesel PM10 Emission Factor:	0.0149	g/bhp-hr	
Diesel PM10 Emissions (lb/yr):	1.011263		
Stack Height (m):	1.98		
Stack Diameter (m):	0.0396		
Stack Temperature (K):	795.37		
Stack Exit Velocity (m/s):	90.7025		
Risk Settings			
Use District Defaults:	Yes		
Flagpole Receptor Height (m):	0		
Deposition Rate (g/s):	NA		
Receptor Type:	Resident	Worker	
Exposure Duration (yrs):	30	25	
Intake Rate Percentile:	OEHHA Derived	OEHHA Derived	
Time Away from Home <16:	No	-	
Time Away from Home =>16:	No	-	
Use 8-Hour Breathing Rate:	No	No	
Enabled Pathways:	Inhalation Only	Inhalation Only	

Table 3. DPM Concentration and Risk by Receptor Distance							
Receptor Distance (m)	DPM Concentration ($\mu g/m^3$)	Resident			Worker		
		Cancer Risk (in a million)	Chronic HI	Acute HI	Cancer Risk (in a million)	Chronic HI	Acute HI
10	8.56914E-05	0.1	0	-	0	0	-
20	0.00114853	1	0	-	0.1	0	-
30	0.001809225	1.6	0	-	0.1	0	-
40	0.001881664	1.7	0	-	0.1	0	-
50	0.001751164	1.5	0	-	0.1	0	-
60	0.001574012	1.4	0	-	0.1	0	-
70	0.001398605	1.2	0	-	0.1	0	-
80	0.001245934	1.1	0	-	0.1	0	-
90	0.001112939	1	0	-	0.1	0	-
100	0.001017065	0.9	0	-	0.1	0	-
110	0.0009837593	0.9	0	-	0.1	0	-
120	0.0009473115	0.8	0	-	0.1	0	-
130	0.0009095699	0.8	0	-	0.1	0	-
140	0.0008716424	0.8	0	-	0.1	0	-
150	0.0008343642	0.7	0	-	0.1	0	-
160	0.0007982549	0.7	0	-	0.1	0	-
170	0.0007636498	0.7	0	-	0.1	0	-
180	0.0007306282	0.6	0	-	0.1	0	-
190	0.0006992839	0.6	0	-	0.1	0	-
200	0.0006695741	0.6	0	-	0.1	0	-
210	0.0006414596	0.6	0	-	0.1	0	-
220	0.0006148946	0.5	0	-	0	0	-
230	0.0005898317	0.5	0	-	0	0	-
240	0.0005661771	0.5	0	-	0	0	-
250	0.0005438438	0.5	0	-	0	0	-
260	0.0005227559	0.5	0	-	0	0	-
270	0.000502833	0.4	0	-	0	0	-
280	0.0004839995	0.4	0	-	0	0	-
290	0.0004661884	0.4	0	-	0	0	-
300	0.0004493263	0.4	0	-	0	0	-
350	0.0003772672	0.3	0	-	0	0	-
400	0.0003215129	0.3	0	-	0	0	-
450	0.0002776023	0.2	0	-	0	0	-
500	0.0002424099	0.2	0	-	0	0	-
600	0.00019011	0.2	0	-	0	0	-
700	0.0001536606	0.1	0	-	0	0	-
800	0.0001271803	0.1	0	-	0	0	-
900	0.0001072895	0.1	0	-	0	0	-
1000	9.193568E-05	0.1	0	-	0	0	-
1150	7.46808E-05	0.1	0	-	0	0	-
1300	6.207648E-05	0.1	0	-	0	0	-
1450	5.25604E-05	0	0	-	0	0	-
1600	4.518087E-05	0	0	-	0	0	-
1750	3.933034E-05	0	0	-	0	0	-
1900	3.460444E-05	0	0	-	0	0	-
2050	3.072624E-05	0	0	-	0	0	-
2250	2.654318E-05	0	0	-	0	0	-
2450	2.320257E-05	0	0	-	0	0	-
2650	2.048726E-05	0	0	-	0	0	-
2850	1.824686E-05	0	0	-	0	0	-
3050	1.637431E-05	0	0	-	0	0	-
3250	1.479106E-05	0	0	-	0	0	-
3450	1.343922E-05	0	0	-	0	0	-
3650	1.227444E-05	0	0	-	0	0	-
3850	1.126296E-05	0	0	-	0	0	-

Monterey MOPS Non-Vehicular Diesel Engine Risk Screening Tool Results

Table 1. Results Summary						
Receptor	Cancer		Chronic		Acute	
	Risk (in a million)	Receptor Distance (m)	Hazard Index (HI)	Receptor Distance (m)	Hazard Index (HI)	Receptor Distance (m)
Resident (MEIR)	0.7	166	0	166	-	-
Worker (MEIW)	0	215	0	215	-	-
Maximum (PMI)	1.7	40	0	40	-	-

Table 2. Inputs			
Project Information			
Project Name:	M1W		
Agency Jurisdiction:	Monterey Bay Air Resources District		
Project Output Directory:	G:\Projects\M1W\6 inch pump		
Date Assessment Conducted:	4/25/2026 1:46:19 PM		
Inventory Year:	2026		
Tool Version:	23312		
Meteorological Data			
Surface Met Data File (*.SFC):	G:\Projects\M1W\1200kW Gen\Modeling\KMRY.SFC		
Profile Met Data File (*.PFL):	G:\Projects\M1W\1200kW Gen\Modeling\KMRY.PFL		
Base Elevation (m):	50.3		
Dispersion Coefficients:	Rural		
Building Downwash:	No		
Engine Information			
Engine Horsepower:	61.7		
Engine Load Factor (%):	100		
Engine Annual Usage:	500	hours	
Diesel PM10 Emission Factor:	0.0149	g/bhp-hr	
Diesel PM10 Emissions (lb/yr):	1.011263		
Stack Height (m):	1.98		
Stack Diameter (m):	0.0396		
Stack Temperature (K):	795.37		
Stack Exit Velocity (m/s):	90.7025		
Risk Settings			
Use District Defaults:	Yes		
Flagpole Receptor Height (m):	0		
Deposition Rate (g/s):	NA		
Receptor Type:	Resident	Worker	
Exposure Duration (yrs):	30	25	
Intake Rate Percentile:	OEHHA Derived	OEHHA Derived	
Time Away from Home <16:	No	-	
Time Away from Home =>16:	No	-	
Use 8-Hour Breathing Rate:	No	No	
Enabled Pathways:	Inhalation Only	Inhalation Only	

Table 3. DPM Concentration and Risk by Receptor Distance							
Receptor Distance (m)	DPM Concentration ($\mu g/m^3$)	Resident			Worker		
		Cancer Risk (in a million)	Chronic HI	Acute HI	Cancer Risk (in a million)	Chronic HI	Acute HI
10	8.56914E-05	0.1	0	-	0	0	-
20	0.00114853	1	0	-	0.1	0	-
30	0.001809225	1.6	0	-	0.1	0	-
40	0.001881664	1.7	0	-	0.1	0	-
50	0.001751164	1.5	0	-	0.1	0	-
60	0.001574012	1.4	0	-	0.1	0	-
70	0.001398605	1.2	0	-	0.1	0	-
80	0.001245934	1.1	0	-	0.1	0	-
90	0.001112939	1	0	-	0.1	0	-
100	0.001017065	0.9	0	-	0.1	0	-
110	0.0009837593	0.9	0	-	0.1	0	-
120	0.0009473115	0.8	0	-	0.1	0	-
130	0.0009095699	0.8	0	-	0.1	0	-
140	0.0008716424	0.8	0	-	0.1	0	-
150	0.0008343642	0.7	0	-	0.1	0	-
160	0.0007982549	0.7	0	-	0.1	0	-
170	0.0007636498	0.7	0	-	0.1	0	-
180	0.0007306282	0.6	0	-	0.1	0	-
190	0.0006992839	0.6	0	-	0.1	0	-
200	0.0006695741	0.6	0	-	0.1	0	-
210	0.0006414596	0.6	0	-	0.1	0	-
220	0.0006148946	0.5	0	-	0	0	-
230	0.0005898317	0.5	0	-	0	0	-
240	0.0005661771	0.5	0	-	0	0	-
250	0.0005438438	0.5	0	-	0	0	-
260	0.0005227559	0.5	0	-	0	0	-
270	0.000502833	0.4	0	-	0	0	-
280	0.0004839995	0.4	0	-	0	0	-
290	0.0004661884	0.4	0	-	0	0	-
300	0.0004493263	0.4	0	-	0	0	-
350	0.0003772672	0.3	0	-	0	0	-
400	0.0003215129	0.3	0	-	0	0	-
450	0.0002776023	0.2	0	-	0	0	-
500	0.0002424099	0.2	0	-	0	0	-
600	0.00019011	0.2	0	-	0	0	-
700	0.0001536606	0.1	0	-	0	0	-
800	0.0001271803	0.1	0	-	0	0	-
900	0.0001072895	0.1	0	-	0	0	-
1000	9.193568E-05	0.1	0	-	0	0	-
1150	7.46808E-05	0.1	0	-	0	0	-
1300	6.207648E-05	0.1	0	-	0	0	-
1450	5.25604E-05	0	0	-	0	0	-
1600	4.518087E-05	0	0	-	0	0	-
1750	3.933034E-05	0	0	-	0	0	-
1900	3.460444E-05	0	0	-	0	0	-
2050	3.072624E-05	0	0	-	0	0	-
2250	2.654318E-05	0	0	-	0	0	-
2450	2.320257E-05	0	0	-	0	0	-
2650	2.048726E-05	0	0	-	0	0	-
2850	1.824686E-05	0	0	-	0	0	-
3050	1.637431E-05	0	0	-	0	0	-
3250	1.479106E-05	0	0	-	0	0	-
3450	1.343922E-05	0	0	-	0	0	-
3650	1.227444E-05	0	0	-	0	0	-
3850	1.126296E-05	0	0	-	0	0	-

PG PS#12 Non-Vehicular Diesel Engine Risk Screening Tool Results

Table 1. Results Summary						
Receptor	Cancer		Chronic		Acute	
	Risk (in a million)	Receptor Distance (m)	Hazard Index (HI)	Receptor Distance (m)	Hazard Index (HI)	Receptor Distance (m)
Resident (MEIR)	0.6	21	0	21	-	-
Worker (MEIW)	0	161	0	161	-	-
Maximum (PMI)	0.8	40	0	40	-	-

Table 2. Inputs			
Project Information			
Project Name:	M1W		
Agency Jurisdiction:	Monterey Bay Air Resources District		
Project Output Directory:	G:\Projects\M1W\6 inch pump		
Date Assessment Conducted:	4/25/2026 12:25:45 PM		
Inventory Year:	2026		
Tool Version:	23312		
Meteorological Data			
Surface Met Data File (*.SFC):	G:\Projects\M1W\1200kW Gen\Modeling\KMRY.SFC		
Profile Met Data File (*.PFL):	G:\Projects\M1W\1200kW Gen\Modeling\KMRY.PFL		
Base Elevation (m):	50.3		
Dispersion Coefficients:	Rural		
Building Downwash:	No		
Engine Information			
Engine Horsepower:	61.7		
Engine Load Factor (%):	100		
Engine Annual Usage:	250	hours	
Diesel PM10 Emission Factor:	0.0149	g/bhp-hr	
Diesel PM10 Emissions (lb/yr):	0.5056315		
Stack Height (m):	1.98		
Stack Diameter (m):	0.0396		
Stack Temperature (K):	795.37		
Stack Exit Velocity (m/s):	90.7025		
Risk Settings			
Use District Defaults:	Yes		
Flagpole Receptor Height (m):	0		
Deposition Rate (g/s):	NA		
Receptor Type:	Resident	Worker	
Exposure Duration (yrs):	30	25	
Intake Rate Percentile:	OEHHA Derived	OEHHA Derived	
Time Away from Home <16:	No	-	
Time Away from Home =>16:	No	-	
Use 8-Hour Breathing Rate:	No	No	
Enabled Pathways:	Inhalation Only	Inhalation Only	

Table 3. DPM Concentration and Risk by Receptor Distance							
Receptor Distance (m)	DPM Concentration ($\mu g/m^3$)	Resident			Worker		
		Cancer Risk (in a million)	Chronic HI	Acute HI	Cancer Risk (in a million)	Chronic HI	Acute HI
10	4.28457E-05	0	0	-	0	0	-
20	0.000574265	0.5	0	-	0	0	-
30	0.0009046127	0.8	0	-	0.1	0	-
40	0.0009408318	0.8	0	-	0.1	0	-
50	0.0008755822	0.8	0	-	0.1	0	-
60	0.0007870062	0.7	0	-	0.1	0	-
70	0.0006993026	0.6	0	-	0.1	0	-
80	0.0006229671	0.6	0	-	0	0	-
90	0.0005564697	0.5	0	-	0	0	-
100	0.0005085326	0.4	0	-	0	0	-
110	0.0004918796	0.4	0	-	0	0	-
120	0.0004736557	0.4	0	-	0	0	-
130	0.000454785	0.4	0	-	0	0	-
140	0.0004358212	0.4	0	-	0	0	-
150	0.0004171821	0.4	0	-	0	0	-
160	0.0003991274	0.4	0	-	0	0	-
170	0.0003818249	0.3	0	-	0	0	-
180	0.0003653141	0.3	0	-	0	0	-
190	0.000349642	0.3	0	-	0	0	-
200	0.0003347871	0.3	0	-	0	0	-
210	0.0003207298	0.3	0	-	0	0	-
220	0.0003074473	0.3	0	-	0	0	-
230	0.0002949159	0.3	0	-	0	0	-
240	0.0002830885	0.3	0	-	0	0	-
250	0.0002719219	0.2	0	-	0	0	-
260	0.000261378	0.2	0	-	0	0	-
270	0.0002514165	0.2	0	-	0	0	-
280	0.0002419998	0.2	0	-	0	0	-
290	0.0002330942	0.2	0	-	0	0	-
300	0.0002246631	0.2	0	-	0	0	-
350	0.0001886336	0.2	0	-	0	0	-
400	0.0001607564	0.1	0	-	0	0	-
450	0.0001388012	0.1	0	-	0	0	-
500	0.0001212049	0.1	0	-	0	0	-
600	9.505498E-05	0.1	0	-	0	0	-
700	7.68303E-05	0.1	0	-	0	0	-
800	6.359013E-05	0.1	0	-	0	0	-
900	5.364474E-05	0	0	-	0	0	-
1000	4.596784E-05	0	0	-	0	0	-
1150	3.73404E-05	0	0	-	0	0	-
1300	3.103824E-05	0	0	-	0	0	-
1450	2.62802E-05	0	0	-	0	0	-
1600	2.259044E-05	0	0	-	0	0	-
1750	1.966517E-05	0	0	-	0	0	-
1900	1.730222E-05	0	0	-	0	0	-
2050	1.536312E-05	0	0	-	0	0	-
2250	1.327159E-05	0	0	-	0	0	-
2450	1.160129E-05	0	0	-	0	0	-
2650	1.024363E-05	0	0	-	0	0	-
2850	9.123431E-06	0	0	-	0	0	-
3050	8.187153E-06	0	0	-	0	0	-
3250	7.395528E-06	0	0	-	0	0	-
3450	6.719611E-06	0	0	-	0	0	-
3650	6.13722E-06	0	0	-	0	0	-
3850	5.631482E-06	0	0	-	0	0	-

PS PS #15 Non-Vehicular Diesel Engine Risk Screening Tool Results

Table 1. Results Summary						
Receptor	Cancer		Chronic		Acute	
	Risk (in a million)	Receptor Distance (m)	Hazard Index (HI)	Receptor Distance (m)	Hazard Index (HI)	Receptor Distance (m)
Resident (MEIR)	0.8	31	0	31	-	-
Worker (MEIW)	0	555	0	555	-	-
Maximum (PMI)	0.8	40	0	40	-	-

Table 2. Inputs			
Project Information			
Project Name:	M1W		
Agency Jurisdiction:	Monterey Bay Air Resources District		
Project Output Directory:	G:\Projects\M1W\6 inch pump		
Date Assessment Conducted:	4/27/2026 2:32:46 PM		
Inventory Year:	2026		
Tool Version:	23312		
Meteorological Data			
Surface Met Data File (*.SFC):	G:\Projects\M1W\1200kW Gen\Modeling\KMRY.SFC		
Profile Met Data File (*.PFL):	G:\Projects\M1W\1200kW Gen\Modeling\KMRY.PFL		
Base Elevation (m):	50.3		
Dispersion Coefficients:	Rural		
Building Downwash:	No		
Engine Information			
Engine Horsepower:	61.7		
Engine Load Factor (%):	100		
Engine Annual Usage:	250	hours	
Diesel PM10 Emission Factor:	0.0149	g/bhp-hr	
Diesel PM10 Emissions (lb/yr):	0.5056315		
Stack Height (m):	1.98		
Stack Diameter (m):	0.0396		
Stack Temperature (K):	795.37		
Stack Exit Velocity (m/s):	90.7025		
Risk Settings			
Use District Defaults:	Yes		
Flagpole Receptor Height (m):	0		
Deposition Rate (g/s):	NA		
Receptor Type:	Resident	Worker	
Exposure Duration (yrs):	30	25	
Intake Rate Percentile:	OEHHA Derived	OEHHA Derived	
Time Away from Home <16:	No	-	
Time Away from Home =>16:	No	-	
Use 8-Hour Breathing Rate:	No	No	
Enabled Pathways:	Inhalation Only	Inhalation Only	

Table 3. DPM Concentration and Risk by Receptor Distance							
Receptor Distance (m)	DPM Concentration ($\mu g/m^3$)	Resident			Worker		
		Cancer Risk (in a million)	Chronic HI	Acute HI	Cancer Risk (in a million)	Chronic HI	Acute HI
10	4.28457E-05	0	0	-	0	0	-
20	0.000574265	0.5	0	-	0	0	-
30	0.0009046127	0.8	0	-	0.1	0	-
40	0.0009408318	0.8	0	-	0.1	0	-
50	0.0008755822	0.8	0	-	0.1	0	-
60	0.0007870062	0.7	0	-	0.1	0	-
70	0.0006993026	0.6	0	-	0.1	0	-
80	0.0006229671	0.6	0	-	0	0	-
90	0.0005564697	0.5	0	-	0	0	-
100	0.0005085326	0.4	0	-	0	0	-
110	0.0004918796	0.4	0	-	0	0	-
120	0.0004736557	0.4	0	-	0	0	-
130	0.000454785	0.4	0	-	0	0	-
140	0.0004358212	0.4	0	-	0	0	-
150	0.0004171821	0.4	0	-	0	0	-
160	0.0003991274	0.4	0	-	0	0	-
170	0.0003818249	0.3	0	-	0	0	-
180	0.0003653141	0.3	0	-	0	0	-
190	0.000349642	0.3	0	-	0	0	-
200	0.0003347871	0.3	0	-	0	0	-
210	0.0003207298	0.3	0	-	0	0	-
220	0.0003074473	0.3	0	-	0	0	-
230	0.0002949159	0.3	0	-	0	0	-
240	0.0002830885	0.3	0	-	0	0	-
250	0.0002719219	0.2	0	-	0	0	-
260	0.000261378	0.2	0	-	0	0	-
270	0.0002514165	0.2	0	-	0	0	-
280	0.0002419998	0.2	0	-	0	0	-
290	0.0002330942	0.2	0	-	0	0	-
300	0.0002246631	0.2	0	-	0	0	-
350	0.0001886336	0.2	0	-	0	0	-
400	0.0001607564	0.1	0	-	0	0	-
450	0.0001388012	0.1	0	-	0	0	-
500	0.0001212049	0.1	0	-	0	0	-
600	9.505498E-05	0.1	0	-	0	0	-
700	7.68303E-05	0.1	0	-	0	0	-
800	6.359013E-05	0.1	0	-	0	0	-
900	5.364474E-05	0	0	-	0	0	-
1000	4.596784E-05	0	0	-	0	0	-
1150	3.73404E-05	0	0	-	0	0	-
1300	3.103824E-05	0	0	-	0	0	-
1450	2.62802E-05	0	0	-	0	0	-
1600	2.259044E-05	0	0	-	0	0	-
1750	1.966517E-05	0	0	-	0	0	-
1900	1.730222E-05	0	0	-	0	0	-
2050	1.536312E-05	0	0	-	0	0	-
2250	1.327159E-05	0	0	-	0	0	-
2450	1.160129E-05	0	0	-	0	0	-
2650	1.024363E-05	0	0	-	0	0	-
2850	9.123431E-06	0	0	-	0	0	-
3050	8.187153E-06	0	0	-	0	0	-
3250	7.395528E-06	0	0	-	0	0	-
3450	6.719611E-06	0	0	-	0	0	-
3650	6.13722E-06	0	0	-	0	0	-
3850	5.631482E-06	0	0	-	0	0	-