Rule 1200 Health Risk Assessment

Facility Name:	Elkhorn Services, LLC
Facility ID:	APCD2025-SITE-04957
Application:	APCD2025-APP-008964 - 008969
Project Engineer:	Hawzhin S Muhamed
Modeler:	Bill Reeve
Toxics Risk Analyst:	Ben Wong
Date Submitted to Toxics:	2/25/2025
Date Completed by Toxics:	2/25/2026
HRA Tools Used:	Lakes-AERMOD (Version 24142)/HARP (v 22118)

The following estimated risks are valid only for the input data provided by the Project Engineer.

Estimated residential risk does not exceed the worker risk. Therefore, only worker risk is presented in the following results.

Estimated Risk Levels:

Maximum Individual Cancer Risk (Worker)	1.47 in one million
Chronic Noncancer Health Hazard Index (Worker)	= 1.13E-03
8-Hour Noncancer Health Hazard Index (Worker)	= No Health Data
Acute Health Hazard Index (*PMI)	= 6.46E-01

*Point of Maximum Impact

The proposed application is for 6 stationary diesel emergency engines. The CARB Air Toxics Control Measure (ATCM) limits non-emergency operations to 50 hours per year.

The estimated cancer risk for the application meets the Rule 1200 limit of 10 in one million (equipped with T-BACT) at 50 hours per year for each of the 6 engines; therefore, the project is within Rule 1200 thresholds.

Input Data Provided by Project Engineer:

Type of Source: 6 Identical Emergency Diesel IC Engine.
Controls Description: DPF

Worst-Case TAC Emissions Increase per Engine:

Toxic Air Contaminant	Hourly Emission Rate (lb/hr)	Annual Emission Rate (lb/yr)
DIESEL PARTICULATE*	N/A	1.97E+00
ACETALDEHYDE	5.65E-02	2.83E+00
ACROLEIN**	2.45E-03	1.22E-01
ARSENIC COMPOUNDS	1.16E-04	5.78E-03
BENZENE	1.35E-02	6.73E-01
BUTADIENE, 1,3-	1.57E-02	7.83E-01
CADMIUM AND COMPOUNDS	1.08E-04	5.42E-03
CHLOROBENZENE	1.44E-05	7.22E-04
CHROMIUM (HEXAVALENT)	7.22E-06	3.61E-04
COPPER AND COMPOUNDS	2.96E-04	1.48E-02
ETHYL BENZENE	7.87E-04	3.93E-02
FORMALDEHYDE	1.25E-01	6.23E+00
HEXANE-N	1.94E-03	9.71E-02
HYDROCHLORIC ACID	1.35E-02	6.73E-01
LEAD & COMPOUNDS	5.99E-04	3.00E-02
MANGANESE AND COMPOUNDS	2.24E-04	1.12E-02
MERCURY AND COMPOUNDS	1.44E-04	7.22E-03
NAPHTHALENE	1.42E-03	7.11E-02
NICKEL AND NICKEL COMPOUNDS	2.82E-04	1.41E-02
POLYCYCLIC AROM. HC (PAH) [Treat as B(a)P for HRA]	2.61E-03	1.31E-01
PROPYLENE	3.37E-02	1.69E+00
SELENIUM AND COMPOUNDS	1.59E-04	7.94E-03
TOLUENE	7.61E-03	3.80E-01
AMMONIA (only if SCR)	N/A	N/A
XYLENES	3.06E-03	1.53E-01

Source: Acute TACs – Ventura County, 5/17/01.

*Diesel particulate exhaust is a surrogate for all toxic air contaminant annual emissions from diesel-fueled engines when determining the potential cancer risk and noncancer chronic hazard index. Speciated toxic air contaminant hourly emissions are used when determining the potential noncancer acute hazard index.

**acrolein emissions are excluded from risk calculations

Process Data for Each Engine:

Operation Parameter	Value
Diesel particulate emission factor (g/hp-hr)	0.012
Engine horsepower (bhp)	1490
Fuel Consumption (gal/hr)	72.20
Annual hours of operation	50

Release Parameters for Each Engine:

Stack Height (ft)	18.7
Stack Diameter (ft)	1.33
Temperature (deg F)	890
Exhaust Flow Rate (acfm)	7540
Stack Orientation	Vertical (flapper)

Discussion

The HRA was conducted in accordance with EPA and OEHHA guidance and District standard procedures. 6 point sources were modeled with refined air dispersion modeling using EPA's AERMOD model, AERMET (Version 24142) processed Palomar 2019/2021 ustar updated meteorology data, AERMAP terrain processing, and urban dispersion coefficients. Building downwash effects were calculated using the EPA BPIP-Prime model. The receptor grid was sufficiently dense to identify maximum impacts.

An occupational Ground Level Concentration (GLC) adjustment factor was applied to calculate worker cancer risk assuming source emissions are released 8 hours per day and 5 days a week.

These risk results are based on the risk scenario calculations and health data at the time of the review, and should not be scaled with revised emissions rates without consulting with the Toxics Section.

HARP2 - HRACalc (dated 22118) 2/25/2026 12:03:15 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Worker
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 16
Total Exposure Duration: 25

Exposure Duration Bin Distribution
3rd Trimester Bin: 0
0<2 Years Bin: 0
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 25

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: True
Dermal: True
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors
NOTE: The worker adjustment factors below are only used for cancer assessments. However, the GLC adjustment factor is also applied to 8-hr noncancer chronic assessments.
Worker adjustments factors enabled: YES
GLC adjustment factor: 4.2
Exposure frequency: 250

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Warm

****
TIER 2 SETTINGS
Tier2 not used.

****

Calculating cancer risk
Cancer risk breakdown by pollutant and receptor saved to:
C:\Users\bwong\Desktop\INITIAL RISK\hra\WAF4.2_CancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\bwong\Desktop\INITIAL RISK\hra\WAF4.2_CancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to:
C:\Users\bwong\Desktop\INITIAL RISK\hra\WAF4.2_NCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\bwong\Desktop\INITIAL RISK\hra\WAF4.2_NCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to:
C:\Users\bwong\Desktop\INITIAL RISK\hra\WAF4.2_NCAcuteRisk.csv
Acute risk total by receptor saved to: C:\Users\bwong\Desktop\INITIAL RISK\hra\WAF4.2_NCAcuteRiskSumByRec.csv
HRA ran successfully

*HARP - HRACalc v22118 2/25/2026 12:03:15 PM - **Cancer Risk** - Input File: C:\Users\bwong\Desktop\INITIAL RISK\hra\WAF4.2_HRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBREV	RISK_SUM	SCENARIO
5912	ALL		474946	3664783	0.005672	9901	DieselExhPM	1.47E-06	25YrCancerDerived_InhSoilDerm
5912	ALL		474946	3664783	0	75070	Acetaldehyde	0.00E+00	25YrCancerDerived_InhSoilDerm
5912	ALL		474946	3664783	0	7440382	Arsenic	0.00E+00	25YrCancerDerived_InhSoilDerm
5912	ALL		474946	3664783	0	71432	Benzene	0.00E+00	25YrCancerDerived_InhSoilDerm
5912	ALL		474946	3664783	0	106990	1,3-Butadiene	0.00E+00	25YrCancerDerived_InhSoilDerm
5912	ALL		474946	3664783	0	7440439	Cadmium	0.00E+00	25YrCancerDerived_InhSoilDerm
5912	ALL		474946	3664783	0	108907	Chlorobenzn	0.00E+00	25YrCancerDerived_InhSoilDerm
5912	ALL		474946	3664783	0	18540299	Cr(VI)	0.00E+00	25YrCancerDerived_InhSoilDerm
5912	ALL		474946	3664783	0	7440508	Copper	0.00E+00	25YrCancerDerived_InhSoilDerm
5912	ALL		474946	3664783	0	100414	Ethyl Benzene	0.00E+00	25YrCancerDerived_InhSoilDerm
5912	ALL		474946	3664783	0	50000	Formaldehyde	0.00E+00	25YrCancerDerived_InhSoilDerm
5912	ALL		474946	3664783	0	110543	Hexane	0.00E+00	25YrCancerDerived_InhSoilDerm
5912	ALL		474946	3664783	0	7647010	HCl	0.00E+00	25YrCancerDerived_InhSoilDerm
5912	ALL		474946	3664783	0	7439921	Lead	0.00E+00	25YrCancerDerived_InhSoilDerm
5912	ALL		474946	3664783	0	7439965	Manganese	0.00E+00	25YrCancerDerived_InhSoilDerm
5912	ALL		474946	3664783	0	7439976	Mercury	0.00E+00	25YrCancerDerived_InhSoilDerm
5912	ALL		474946	3664783	0	91203	Naphthalene	0.00E+00	25YrCancerDerived_InhSoilDerm
5912	ALL		474946	3664783	0	7440020	Nickel	0.00E+00	25YrCancerDerived_InhSoilDerm
5912	ALL		474946	3664783	0	1151	PAHs-w/o	0.00E+00	25YrCancerDerived_InhSoilDerm
5912	ALL		474946	3664783	0	115071	Propylene	0.00E+00	25YrCancerDerived_InhSoilDerm
5912	ALL		474946	3664783	0	7782492	Selenium	0.00E+00	25YrCancerDerived_InhSoilDerm
5912	ALL		474946	3664783	0	108883	Toluene	0.00E+00	25YrCancerDerived_InhSoilDerm
5912	ALL		474946	3664783	0	1330207	Xylenes	0.00E+00	25YrCancerDerived_InhSoilDerm
								1.47E-06	

*HARP - HRACalc v22118 2/25/2026 12:03:15 PM - **Chronic Risk** - Input File: C:\Users\bwong\Desktop\INITIAL RISK\hra\WAF4.2_HRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBREV	SCENARIO	RESP
5912	ALL		474946	3664783	0.005672	9901	DieselExhPM	NonCancerChronicDerived_InhSoilDerm	1.13E-03
5912	ALL		474946	3664783	0	75070	Acetaldehyde	NonCancerChronicDerived_InhSoilDerm	0.00E+00
5912	ALL		474946	3664783	0	7440382	Arsenic	NonCancerChronicDerived_InhSoilDerm	0.00E+00
5912	ALL		474946	3664783	0	71432	Benzene	NonCancerChronicDerived_InhSoilDerm	0.00E+00
5912	ALL		474946	3664783	0	106990	1,3-Butadiene	NonCancerChronicDerived_InhSoilDerm	0.00E+00
5912	ALL		474946	3664783	0	7440439	Cadmium	NonCancerChronicDerived_InhSoilDerm	0.00E+00
5912	ALL		474946	3664783	0	108907	Chlorobenzn	NonCancerChronicDerived_InhSoilDerm	0.00E+00
5912	ALL		474946	3664783	0	18540299	Cr(VI)	NonCancerChronicDerived_InhSoilDerm	0.00E+00
5912	ALL		474946	3664783	0	7440508	Copper	NonCancerChronicDerived_InhSoilDerm	0.00E+00
5912	ALL		474946	3664783	0	100414	Ethyl Benzene	NonCancerChronicDerived_InhSoilDerm	0.00E+00
5912	ALL		474946	3664783	0	50000	Formaldehyde	NonCancerChronicDerived_InhSoilDerm	0.00E+00
5912	ALL		474946	3664783	0	110543	Hexane	NonCancerChronicDerived_InhSoilDerm	0.00E+00
5912	ALL		474946	3664783	0	7647010	HCl	NonCancerChronicDerived_InhSoilDerm	0.00E+00
5912	ALL		474946	3664783	0	7439921	Lead	NonCancerChronicDerived_InhSoilDerm	0.00E+00
5912	ALL		474946	3664783	0	7439965	Manganese	NonCancerChronicDerived_InhSoilDerm	0.00E+00
5912	ALL		474946	3664783	0	7439976	Mercury	NonCancerChronicDerived_InhSoilDerm	0.00E+00
5912	ALL		474946	3664783	0	91203	Naphthalene	NonCancerChronicDerived_InhSoilDerm	0.00E+00
5912	ALL		474946	3664783	0	7440020	Nickel	NonCancerChronicDerived_InhSoilDerm	0.00E+00
5912	ALL		474946	3664783	0	1151	PAHs-w/o	NonCancerChronicDerived_InhSoilDerm	0.00E+00
5912	ALL		474946	3664783	0	115071	Propylene	NonCancerChronicDerived_InhSoilDerm	0.00E+00
5912	ALL		474946	3664783	0	7782492	Selenium	NonCancerChronicDerived_InhSoilDerm	0.00E+00
5912	ALL		474946	3664783	0	108883	Toluene	NonCancerChronicDerived_InhSoilDerm	0.00E+00
5912	ALL		474946	3664783	0	1330207	Xylenes	NonCancerChronicDerived_InhSoilDerm	0.00E+00
									1.13E-03

*HARP - HRACalc v22118 2/25/2026 12:03:15 PM - **Acute Risk** - Input File: C:\Users\bwong\Desktop\INITIAL RISK\hra\WAF4.2_HRAInput.hra

REC	GRP	NETID	X	Y	CONC	POLID	POLABBREV	SCENARIO	EYE
5617	ALL		474916	3664863	0	9901	DieselExhPM	NonCancerAcute	0.00E+00
5617	ALL		474916	3664863	15.25507	75070	Acetaldehyde	NonCancerAcute	3.25E-02
5617	ALL		474916	3664863	0.031173	7440382	Arsenic	NonCancerAcute	0.00E+00
5617	ALL		474916	3664863	3.629654	71432	Benzene	NonCancerAcute	0.00E+00
5617	ALL		474916	3664863	4.227777	106990	1,3-Butadiene	NonCancerAcute	0.00E+00
5617	ALL		474916	3664863	0.029224	7440439	Cadmium	NonCancerAcute	0.00E+00
5617	ALL		474916	3664863	0.003897	108907	Chlorobenzn	NonCancerAcute	0.00E+00
5617	ALL		474916	3664863	0.001948	18540299	Cr(VI)	NonCancerAcute	0.00E+00
5617	ALL		474916	3664863	0.07988	7440508	Copper	NonCancerAcute	0.00E+00
5617	ALL		474916	3664863	0.212363	100414	Ethyl Benzene	NonCancerAcute	0.00E+00
5617	ALL		474916	3664863	33.62934	50000	Formaldehyde	NonCancerAcute	6.11E-01
5617	ALL		474916	3664863	0.524089	110543	Hexane	NonCancerAcute	0.00E+00
5617	ALL		474916	3664863	3.629654	7647010	HCl	NonCancerAcute	1.73E-03
5617	ALL		474916	3664863	0.161708	7439921	Lead	NonCancerAcute	0.00E+00
5617	ALL		474916	3664863	0.060397	7439965	Manganese	NonCancerAcute	0.00E+00
5617	ALL		474916	3664863	0.038966	7439976	Mercury	NonCancerAcute	0.00E+00
5617	ALL		474916	3664863	0.383812	91203	Naphthalene	NonCancerAcute	0.00E+00
5617	ALL		474916	3664863	0.075983	7440020	Nickel	NonCancerAcute	0.00E+00
5617	ALL		474916	3664863	0.705279	1151	PAHs-w/o	NonCancerAcute	0.00E+00
5617	ALL		474916	3664863	9.09849	115071	Propylene	NonCancerAcute	0.00E+00
5617	ALL		474916	3664863	0.042862	7782492	Selenium	NonCancerAcute	0.00E+00
5617	ALL		474916	3664863	2.053492	108883	Toluene	NonCancerAcute	4.11E-04
5617	ALL		474916	3664863	0.826073	1330207	Xylenes	NonCancerAcute	3.75E-05
									6.46E-01

FACILITY NAME: Elkhorn Services, LLC

Fuel Consumption (gal/hr):	72.20
Diesel Particulate Emission Factor (g/hp-hr):	0.012
Brake Horsepower (hp):	1490
Annual Hours of Operation (hrs):	50
FACILITY ID:	APCD2025-SITE-04957
APPLICATION NO.:	APCD2025-APP-008964
ENGINEER:	**Hawzhin Muhamed**

RISK ANALYST ONLY

DISPERSION MODELING DATA

Annual Receptor Type: Resident

ANNUAL DISPERSION FACTOR (µg/m3)/(g/s):

Distance (m):

Hourly Receptor Type: PMI

HOURLY DISPERSION FACTOR (µg/m3)/(g/s):

Distance (m):

CHEMICAL NAME	Emission Factor lb/1000 gal	Acute Emission Rate lb/hr	Annual Emission Rate lb/yr	Acute Emissions Rate g/s	Annual Emission Rate g/s	Hourly GLC µg/m³	Annual GLC µg/m³
DIESEL PARTICULATE			1.97E+00		2.83E-05		
ACETALDEHYDE	7.83E-01	5.65E-02	2.83E+00	7.12E-03			
ACROLEIN*	3.39E-02	2.45E-03	1.22E-01	3.08E-04			
ARSENIC COMPOUNDS	1.60E-03	1.16E-04	5.78E-03	1.46E-05			
BENZENE	1.86E-01	1.35E-02	6.73E-01	1.69E-03			
BUTADIENE, 1,3-	2.17E-01	1.57E-02	7.83E-01	1.97E-03			
CADMIUM AND COMPOUNDS	1.50E-03	1.08E-04	5.42E-03	1.36E-05			
CHLOROBENZENE	2.00E-04	1.44E-05	7.22E-04	1.82E-06			
CHROMIUM (HEXAVALENT)	1.00E-04	7.22E-06	3.61E-04	9.10E-07			
COPPER AND COMPOUNDS	4.10E-03	2.96E-04	1.48E-02	3.73E-05			
ETHYL BENZENE	1.09E-02	7.87E-04	3.93E-02	9.92E-05			
FORMALDEHYDE	1.73E+00	1.25E-01	6.23E+00	1.57E-02			
HEXANE-N	2.69E-02	1.94E-03	9.71E-02	2.45E-04			
HYDROCHLORIC ACID	1.86E-01	1.35E-02	6.73E-01	1.69E-03			
LEAD & COMPOUNDS	8.30E-03	5.99E-04	3.00E-02	7.55E-05			
MANGANESE AND COMPOUNDS	3.10E-03	2.24E-04	1.12E-02	2.82E-05			
MERCURY AND COMPOUNDS (INORGANIC)	2.00E-03	1.44E-04	7.22E-03	1.82E-05			
NAPHTHALENE	1.97E-02	1.42E-03	7.11E-02	1.79E-04			
NICKEL AND NICKEL COMPOUNDS	3.90E-03	2.82E-04	1.41E-02	3.55E-05			
POLYCYCLIC AROM. HC (PAH) [Treat as B(a)P for I	3.62E-02	2.61E-03	1.31E-01	3.29E-04			
PROPYLENE	4.67E-01	3.37E-02	1.69E+00	4.25E-03			
SELENIUM AND COMPOUNDS	2.20E-03	1.59E-04	7.94E-03	2.00E-05			
TOLUENE	1.05E-01	7.61E-03	3.80E-01	9.59E-04			
AMMONIA (only if SCR)	N/A						
XYLENES	4.24E-02	3.06E-03	1.53E-01	3.86E-04			

PROJECT TITLE:

MEIW Cancer Risk (e-06)

COMMENTS:	SOURCES: **6**	COMPANY NAME:	
	RECEPTORS: **34425**	MODELER:	
	OUTPUT TYPE: **Concentration**	SCALE: 1:1,876 0 0.05 km	
	MAX: **1.47 ug/m^3**	DATE: **2/25/2026**	PROJECT NO.:

PROJECT TITLE:

MEIW Chronic Risk

COMMENTS:	SOURCES: **6**	COMPANY NAME:	
	RECEPTORS: **34425**	MODELER:	
	OUTPUT TYPE: **Concentration**	SCALE: 1:1,912 0 0.05 km	
	MAX: **1.1E-03 ug/m^3**	DATE: **2/25/2026**	PROJECT NO.:

PROJECT TITLE:

PMI Acute Risk

COMMENTS:	SOURCES: **6**	COMPANY NAME:	
	RECEPTORS: **34425**	MODELER:	
	OUTPUT TYPE: **Concentration**	SCALE: 1:1,876 0 0.05 km	
	MAX: **0.646 ug/m^3**	DATE: **2/25/2026**	PROJECT NO.:

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK1	0	0.10000E+01	474852.4	3664760.0	81.7	5.70	749.82	27.57	0.41	YES	YES	NO	
STCK2	0	0.10000E+01	474857.0	3664760.0	81.8	5.70	749.82	27.57	0.41	YES	YES	NO	
STCK3	0	0.10000E+01	474861.5	3664760.0	82.0	5.70	749.82	27.57	0.41	YES	YES	NO	
STCK4	0	0.10000E+01	474866.7	3664760.0	82.1	5.70	749.82	27.57	0.41	YES	YES	NO	
STCK5	0	0.10000E+01	474871.0	3664759.8	82.3	5.70	749.82	27.57	0.41	YES	YES	NO	
STCK6	0	0.10000E+01	474874.9	3664759.8	82.4	5.70	749.82	27.57	0.41	YES	YES	NO	

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY ***

** Model Options Selected:
* Model Uses Regulatory DEFAULT Options
* Model Is Setup For Calculation of Average CONCentration Values.
* NO GAS DEPOSITION Data Provided.
* NO PARTICLE DEPOSITION Data Provided.
* Model Uses NO DRY DEPLETION. DDPLETE = F
* Model Uses NO WET DEPLETION. WETDPLT = F
* Stack-tip Downwash.
* Model Accounts for ELEVated Terrain Effects.
* Use Calms Processing Routine.
* Use Missing Data Processing Routine.
* No Exponential Decay.
* Model Uses URBAN Dispersion Algorithm for the SBL for 6 Source(s),

```
       for Total of    1 Urban Area(s):
  Urban Population =    383008.0 ;  Urban Roughness Length =  1.000 m
     * Urban Roughness Length of 1.0 Meter Used.
     * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
     * CCVR_Sub - Meteorological data includes CCVR substitutions
     * TEMP_Sub - Meteorological data includes TEMP substitutions
     * NOTURBST - Meteorological data Ignore turbulence - stable hours
     * Model Assumes No FLAGPOLE Receptor Heights.
     * The User Specified a Pollutant Type of: OTHER

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

**This Run Includes:      6 Source(s);       7 Source Group(s); and   34425 Receptor(s)

               with:      6 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:      0 VOLUME source(s)
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                and:      0 SWPOINT source(s)


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

**The AERMET Input Meteorological Data Version Date:  24142

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

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

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =   100.00 ; Decay Coef. =   0.000   ; Rot. Angle =   0.0
                 Emission Units = GRAMS/SEC   ; Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =   16.5 MB of RAM.

**Input Runstream File: aermod.inp
**Output Print File: aermod.out

**Detailed Error/Message File: 8964_8969_Elkhorn.err
**File for Summary of Results: 8964_8969_Elkhorn.sum

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

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

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

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

1.54,   3.09,   5.14,   8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

Surface file: C:\Users\breeve\OneDrive - County of San Diego\Meteorology Documents\AERMET File Met Version: 24142
Profile file: C:\Users\breeve\OneDrive - County of San Diego\Meteorology Documents\AERMET File
Surface format: FREE
Profile format: FREE
Surface station no.: 3177 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN
Year: 2019 Year: 2019

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
19	01	01	1	01	-7.7	0.111	-9.000	-9.000	-999.	89.	16.0	0.05	0.59	1.00	1.57	25.	7.9	280.3	2.0
19	01	01	1	02	-9.9	0.126	-9.000	-9.000	-999.	108.	18.1	0.04	0.59	1.00	1.79	35.	7.9	279.8	2.0
19	01	01	1	03	-17.8	0.177	-9.000	-9.000	-999.	178.	34.4	0.04	0.59	1.00	2.45	31.	7.9	279.2	2.0
19	01	01	1	04	-9.7	0.125	-9.000	-9.000	-999.	106.	17.8	0.04	0.59	1.00	1.77	41.	7.9	278.1	2.0
19	01	01	1	05	-15.0	0.156	-9.000	-9.000	-999.	148.	26.8	0.04	0.59	1.00	2.18	30.	7.9	279.2	2.0
19	01	01	1	06	-14.3	0.153	-9.000	-9.000	-999.	143.	25.7	0.05	0.59	1.00	2.10	24.	7.9	278.8	2.0
19	01	01	1	07	-15.7	0.161	-9.000	-9.000	-999.	154.	28.4	0.05	0.59	1.00	2.20	6.	7.9	279.8	2.0
19	01	01	1	08	-17.4	0.253	-9.000	-9.000	-999.	305.	83.4	0.04	0.59	0.50	3.42	40.	7.9	280.9	2.0
19	01	01	1	09	23.3	0.220	0.443	0.005	134.	247.	-40.9	0.04	0.59	0.29	2.61	41.	7.9	283.1	2.0
19	01	01	1	10	59.8	0.240	0.721	0.005	225.	283.	-20.9	0.05	0.59	0.22	2.67	7.	7.9	284.8	2.0
19	01	01	1	11	84.9	0.240	1.082	0.005	536.	281.	-14.5	0.05	0.59	0.20	2.57	17.	7.9	286.4	2.0
19	01	01	1	12	96.9	0.246	1.299	0.005	814.	292.	-13.7	0.05	0.59	0.19	2.62	2.	7.9	287.0	2.0
19	01	01	1	13	95.3	0.301	1.341	0.005	908.	396.	-25.6	0.05	0.59	0.19	3.35	353.	7.9	287.5	2.0
19	01	01	1	14	80.5	0.261	1.301	0.005	982.	320.	-19.8	0.05	0.59	0.20	2.88	7.	7.9	288.8	2.0
19	01	01	1	15	52.7	0.247	1.146	0.005	1027.	294.	-25.5	0.03	0.59	0.23	3.07	64.	7.9	288.8	2.0
19	01	01	1	16	13.9	0.315	0.738	0.005	1035.	424.	-201.4	0.03	0.59	0.32	4.29	87.	7.9	287.0	2.0
19	01	01	1	17	-26.3	0.294	-9.000	-9.000	-999.	384.	95.4	0.05	0.59	0.60	3.93	114.	7.9	285.3	2.0
19	01	01	1	18	-7.3	0.108	-9.000	-9.000	-999.	125.	15.5	0.05	0.59	1.00	1.53	116.	7.9	283.8	2.0
19	01	01	1	19	-7.7	0.111	-9.000	-9.000	-999.	89.	15.9	0.05	0.59	1.00	1.57	98.	7.9	282.0	2.0
19	01	01	1	20	-3.9	0.078	-9.000	-9.000	-999.	53.	11.2	0.05	0.59	1.00	1.11	98.	7.9	279.8	2.0
19	01	01	1	21	-6.4	0.101	-9.000	-9.000	-999.	77.	14.3	0.05	0.59	1.00	1.43	25.	7.9	279.8	2.0
19	01	01	1	22	-8.3	0.115	-9.000	-9.000	-999.	93.	16.3	0.04	0.59	1.00	1.64	39.	7.9	279.2	2.0
19	01	01	1	23	-17.8	0.176	-9.000	-9.000	-999.	177.	34.1	0.04	0.59	1.00	2.44	49.	7.9	279.2	2.0

```
 19 01 01   1 24  -26.3  0.262 -9.000 -9.000 -999.  321.     75.4  0.03   0.59   1.00    3.83   69.    7.9  280.3    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 19 01 01 01    7.9 1   25.    1.57   280.4   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 24142  ***   *** D:\Modeling Projects\8964_8969_Elkhorn\8964_8969_Elkhorn.isc         ***        02/25/26
 *** AERMET - VERSION  24142 ***   ***                                                                   ***       09:28:33
                                                                                                                  PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                     *** THE SUMMARY OF MAXIMUM PERIOD ( 26304 HRS) RESULTS ***


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

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

STCK1     1ST HIGHEST VALUE IS      32.18442 AT (  474946.00,  3664783.00,    92.85,    92.85,    0.00)  DC
          2ND HIGHEST VALUE IS      31.90047 AT (  474956.00,  3664803.00,    92.82,    92.82,    0.00)  DC
          3RD HIGHEST VALUE IS      31.11857 AT (  474956.00,  3664793.00,    93.06,    93.06,    0.00)  DC
          4TH HIGHEST VALUE IS      30.53111 AT (  474946.00,  3664793.00,    92.76,    92.76,    0.00)  DC
          5TH HIGHEST VALUE IS      29.98022 AT (  474956.00,  3664813.00,    92.66,    92.66,    0.00)  DC
          6TH HIGHEST VALUE IS      29.68098 AT (  474936.00,  3664773.00,    92.74,    93.79,    0.00)  DC
          7TH HIGHEST VALUE IS      28.90553 AT (  474912.25,  3664844.75,    81.53,    93.89,    0.00)  DC
          8TH HIGHEST VALUE IS      27.80382 AT (  474946.00,  3664803.00,    92.65,    92.65,    0.00)  DC
          9TH HIGHEST VALUE IS      26.32133 AT (  474956.00,  3664783.00,    93.25,    93.25,    0.00)  DC
         10TH HIGHEST VALUE IS      26.24328 AT (  474921.82,  3664806.42,    89.00,    93.85,    0.00)  DC

STCK2     1ST HIGHEST VALUE IS      32.97104 AT (  474946.00,  3664783.00,    92.85,    92.85,    0.00)  DC
          2ND HIGHEST VALUE IS      32.01082 AT (  474956.00,  3664803.00,    92.82,    92.82,    0.00)  DC
          3RD HIGHEST VALUE IS      31.22049 AT (  474956.00,  3664793.00,    93.06,    93.06,    0.00)  DC
          4TH HIGHEST VALUE IS      30.66261 AT (  474946.00,  3664793.00,    92.76,    92.76,    0.00)  DC
          5TH HIGHEST VALUE IS      30.49596 AT (  474936.00,  3664773.00,    92.74,    93.79,    0.00)  DC
          6TH HIGHEST VALUE IS      30.29043 AT (  474956.00,  3664813.00,    92.66,    92.66,    0.00)  DC
```

```
          7TH HIGHEST VALUE IS      29.41864 AT (  474912.25,  3664844.75,    81.53,    93.89,    0.00)  DC
          8TH HIGHEST VALUE IS      27.89944 AT (  474946.00,  3664803.00,    92.65,    92.65,    0.00)  DC
          9TH HIGHEST VALUE IS      26.85562 AT (  474921.71,  3664763.23,    90.03,    93.85,    0.00)  DC
         10TH HIGHEST VALUE IS      26.69364 AT (  474926.00,  3664763.00,    91.88,    93.12,    0.00)  DC

STCK3     1ST HIGHEST VALUE IS      33.45123 AT (  474946.00,  3664783.00,    92.85,    92.85,    0.00)  DC
          2ND HIGHEST VALUE IS      32.16461 AT (  474956.00,  3664803.00,    92.82,    92.82,    0.00)  DC
          3RD HIGHEST VALUE IS      31.47638 AT (  474956.00,  3664793.00,    93.06,    93.06,    0.00)  DC
          4TH HIGHEST VALUE IS      31.39640 AT (  474936.00,  3664773.00,    92.74,    93.79,    0.00)  DC
          5TH HIGHEST VALUE IS      30.88290 AT (  474946.00,  3664793.00,    92.76,    92.76,    0.00)  DC
          6TH HIGHEST VALUE IS      30.05168 AT (  474956.00,  3664813.00,    92.66,    92.66,    0.00)  DC
          7TH HIGHEST VALUE IS      29.55989 AT (  474912.25,  3664844.75,    81.53,    93.89,    0.00)  DC
          8TH HIGHEST VALUE IS      28.01588 AT (  474946.00,  3664803.00,    92.65,    92.65,    0.00)  DC
          9TH HIGHEST VALUE IS      27.72261 AT (  474926.00,  3664763.00,    91.88,    93.12,    0.00)  DC
         10TH HIGHEST VALUE IS      27.68008 AT (  474921.71,  3664763.23,    90.03,    93.85,    0.00)  DC

STCK4     1ST HIGHEST VALUE IS      33.84340 AT (  474946.00,  3664783.00,    92.85,    92.85,    0.00)  DC
          2ND HIGHEST VALUE IS      32.76311 AT (  474936.00,  3664773.00,    92.74,    93.79,    0.00)  DC
          3RD HIGHEST VALUE IS      32.19794 AT (  474956.00,  3664803.00,    92.82,    92.82,    0.00)  DC
          4TH HIGHEST VALUE IS      31.67886 AT (  474956.00,  3664793.00,    93.06,    93.06,    0.00)  DC
          5TH HIGHEST VALUE IS      30.99834 AT (  474946.00,  3664793.00,    92.76,    92.76,    0.00)  DC
          6TH HIGHEST VALUE IS      30.01911 AT (  474956.00,  3664813.00,    92.66,    92.66,    0.00)  DC
          7TH HIGHEST VALUE IS      29.41997 AT (  474912.25,  3664844.75,    81.53,    93.89,    0.00)  DC
          8TH HIGHEST VALUE IS      28.80516 AT (  474926.00,  3664763.00,    91.88,    93.12,    0.00)  DC
          9TH HIGHEST VALUE IS      28.72137 AT (  474921.71,  3664763.23,    90.03,    93.85,    0.00)  DC
         10TH HIGHEST VALUE IS      27.97427 AT (  474946.00,  3664803.00,    92.65,    92.65,    0.00)  DC
```


 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE SUMMARY OF MAXIMUM PERIOD (26304 HRS) RESULTS ***

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

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

STCK5	1ST HIGHEST VALUE IS	33.88845	AT (	474946.00,	3664783.00,	92.85,	92.85,	0.00)	DC
	2ND HIGHEST VALUE IS	33.17989	AT (	474936.00,	3664773.00,	92.74,	93.79,	0.00)	DC
	3RD HIGHEST VALUE IS	32.01318	AT (	474956.00,	3664803.00,	92.82,	92.82,	0.00)	DC
	4TH HIGHEST VALUE IS	31.69409	AT (	474956.00,	3664793.00,	93.06,	93.06,	0.00)	DC
	5TH HIGHEST VALUE IS	30.87338	AT (	474946.00,	3664793.00,	92.76,	92.76,	0.00)	DC
	6TH HIGHEST VALUE IS	29.74941	AT (	474956.00,	3664813.00,	92.66,	92.66,	0.00)	DC
	7TH HIGHEST VALUE IS	29.39936	AT (	474926.00,	3664763.00,	91.88,	93.12,	0.00)	DC
	8TH HIGHEST VALUE IS	28.92718	AT (	474921.71,	3664763.23,	90.03,	93.85,	0.00)	DC
	9TH HIGHEST VALUE IS	28.62493	AT (	474912.25,	3664844.75,	81.53,	93.89,	0.00)	DC
	10TH HIGHEST VALUE IS	28.28305	AT (	474946.00,	3664773.00,	93.61,	93.61,	0.00)	DC
STCK6	1ST HIGHEST VALUE IS	33.94039	AT (	474946.00,	3664783.00,	92.85,	92.85,	0.00)	DC
	2ND HIGHEST VALUE IS	33.67219	AT (	474936.00,	3664773.00,	92.74,	93.79,	0.00)	DC
	3RD HIGHEST VALUE IS	32.16824	AT (	474956.00,	3664803.00,	92.82,	92.82,	0.00)	DC
	4TH HIGHEST VALUE IS	31.66698	AT (	474956.00,	3664793.00,	93.06,	93.06,	0.00)	DC
	5TH HIGHEST VALUE IS	30.51502	AT (	474946.00,	3664793.00,	92.76,	92.76,	0.00)	DC
	6TH HIGHEST VALUE IS	29.88171	AT (	474926.00,	3664763.00,	91.88,	93.12,	0.00)	DC
	7TH HIGHEST VALUE IS	29.38470	AT (	474956.00,	3664813.00,	92.66,	92.66,	0.00)	DC
	8TH HIGHEST VALUE IS	29.21696	AT (	474946.00,	3664773.00,	93.61,	93.61,	0.00)	DC
	9TH HIGHEST VALUE IS	28.49374	AT (	474921.71,	3664763.23,	90.03,	93.85,	0.00)	DC
	10TH HIGHEST VALUE IS	28.45092	AT (	474956.00,	3664783.00,	93.25,	93.25,	0.00)	DC
ALL	1ST HIGHEST VALUE IS	200.27894	AT (	474946.00,	3664783.00,	92.85,	92.85,	0.00)	DC
	2ND HIGHEST VALUE IS	192.45526	AT (	474956.00,	3664803.00,	92.82,	92.82,	0.00)	DC
	3RD HIGHEST VALUE IS	191.18854	AT (	474936.00,	3664773.00,	92.74,	93.79,	0.00)	DC
	4TH HIGHEST VALUE IS	188.85538	AT (	474956.00,	3664793.00,	93.06,	93.06,	0.00)	DC
	5TH HIGHEST VALUE IS	184.46336	AT (	474946.00,	3664793.00,	92.76,	92.76,	0.00)	DC
	6TH HIGHEST VALUE IS	179.47556	AT (	474956.00,	3664813.00,	92.66,	92.66,	0.00)	DC
	7TH HIGHEST VALUE IS	173.91991	AT (	474912.25,	3664844.75,	81.53,	93.89,	0.00)	DC
	8TH HIGHEST VALUE IS	167.78442	AT (	474926.00,	3664763.00,	91.88,	93.12,	0.00)	DC
	9TH HIGHEST VALUE IS	165.51182	AT (	474921.71,	3664763.23,	90.03,	93.85,	0.00)	DC
	10TH HIGHEST VALUE IS	164.84841	AT (	474946.00,	3664803.00,	92.65,	92.65,	0.00)	DC

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

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

GROUP ID		AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
STCK1	HIGH 1ST HIGH VALUE IS	334.29083	ON 19092319:	AT (474886.00, 3664873.00, 78.64, 93.89, 0.00)	DC	
STCK2	HIGH 1ST HIGH VALUE IS	341.01802	ON 19042319:	AT (474886.00, 3664873.00, 78.64, 93.89, 0.00)	DC	
STCK3	HIGH 1ST HIGH VALUE IS	345.54935	ON 21041224:	AT (474856.00, 3664863.00, 78.53, 93.89, 0.00)	DC	
STCK4	HIGH 1ST HIGH VALUE IS	375.88331	ON 19091522:	AT (474916.00, 3664863.00, 81.07, 93.89, 0.00)	DC	
STCK5	HIGH 1ST HIGH VALUE IS	404.38757	ON 19091522:	AT (474916.00, 3664863.00, 81.07, 93.89, 0.00)	DC	
STCK6	HIGH 1ST HIGH VALUE IS	414.90889	ON 19091522:	AT (474916.00, 3664863.00, 81.07, 93.89, 0.00)	DC	
ALL	HIGH 1ST HIGH VALUE IS	1999.99743	ON 19092420:	AT (474856.00, 3664863.00, 78.53, 93.89, 0.00)	DC	

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

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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

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

A Total of            0 Fatal Error Message(s)
A Total of            2 Warning Message(s)
A Total of         1273 Informational Message(s)

A Total of        26304 Hours Were Processed

A Total of          701 Calm Hours Identified

A Total of          571 Missing Hours Identified (  2.17 Percent)


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


   ********   WARNING MESSAGES   ********
ME W186     292       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used           0.50
ME W187     292       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

Facility Name:	Elkhorn Services, LLC					
Application Number:	APCD2025-APP-008964	008965	008966	008967	008968 008969 6 engines	
Site ID Number:	APCD2025-SITE-04957					
Equipment Address:	2293 Cosmos Court		2293 Cosmos Court, Carlsbad, California 92011			
	Carlsbad, California 92011					
Contact Name:	Bill Winchester					
Contact Title:	Principal Scientist					
Contact Affiliation:	Elkhorn Services, LLC					
Contact Number:	(909) 226-1108					
Contact E-Mail:	bwinchester@montrose-env.com					
Project Engineer:	Hawzhin Muhamed					
Make:	Cummins, Inc	6 identical engines				
Model:	QST30-G5 NR2					
S/N:	TBD					
Fuel Type:	Diesel					
BHP Rating:	1490				backpressure 27 inches of water	
Model Year:	2024					
Tier Level:	2					
Engine Family Number:	RCEXL030.AAD				NOx, g/BHP-hr: + NMHC, g/BHP-hr:	3.93
Device Driven:	1000 kW					
Control	DPF JM, Oxidation Catalyst		MODEL#: JM-CRT(+)-8-N-CS-BITO-16/16-RT			
NOx, g/BHP-hr:	3.90	5.23	g/kW-hr			
CO, g/BHP-hr:	0.10	0.13	g/kW-hr	DPF 80% Reduction		
NMHC, g/BHP-hr:	0.03	0.04	g/kW-hr	DPF 70% Reduction		
PM10, g/BHP-hr:	0.012	0.02	g/kW-hr	DPF 85% Reduction		
NH3 Slip from SCR (yes/no)	no	0	ppm (default 10 ppm if applicable)			
Fuel Usage, gal/hr:	72.2					
Operating Schedule, hrs/day:	3					
Operating Schedule, hrs/yr:	50					
Exhaust Flow Rate, cfm:	7540					
Exhaust Temperature, °F:	890					
Stack Height above ground, ft:	18.71					
Stack Diameter, ft:	1.33					
Nearest School, ft:	936				School Notification	
Residential Receptor, m:	262.13	860	ft		Aspirations School of Learning	
Occupational Receptor, m:	25.00	80	ft			
Acute Receptor, m:	25.00	80	ft			
Vertical Exhaust? (yes/no):	yes					
Flapper Valve? (flapper/raincap):	Flapper					
Plot Plan? (yes/no):	yes					
Flow Obstructions:	no					

San Diego Air Pollution Control District
Supplemental Application Information
Rule 1200 Toxics Evaluation

(ALL REQUESTED INFORMATION IS IMPORTANT - PLEASE FILL BLUE CELLS)

Facility Name: Elkhorn Services, LLC
Equipment Location: #REF!

Project Description: Emergency Diesel Engine
Control Equipment: None
Operating Schedule: Hours per Day: 24 Weeks per Year: 50
Days per Week: 7 Days per Year: 50

RELEASE POINT DATA

How are the emissions from this project released into the outdoor air? (Check all that apply)

Point Source	Non-Point Source		
☑ Exhaust Stack or Duct	☐ Passive Ventilation	☐ Released through windows and/or roll-up doors	☐ Fugitive Emissions

Point Source

Parameter	Point Source #1	Point Source #2	Point Source #3
Height of release above ground (ft)	18.7	#REF!	
Stack Diameter (or length x width) (ft)	1.33	#REF!	
Exhaust Gas Temperature (°F)[1]	890	#REF!	
Exhaust Gas Flow (ACFM)	7540	#REF!	
Direction of Flow[2]	vertical	#REF!	
Flow Obstruction[3]	no	#REF!	
Distance to Nearest Property Line (+/- 10ft)	80.00	#REF!	

[1] Use "70 °F" or "Ambient" if unknown
[2] if "other" describe:
[3] if "other" describe:

AERIAL MAP AND FACILITY PLOT PLAN must be attached and labeled with **Release Point(s) and Building(s)**
(includes facility and neighboring buildings within 5x the release height of a point source(s)).

Parameter	Building A	Building B	Building C
Point Source(s)			
Point Source Location			
Building Length (ft) (optional)	220		
Building Width (ft) (optional)	220		
Building Height above ground (ft)	32		

San Diego APCD Use Only

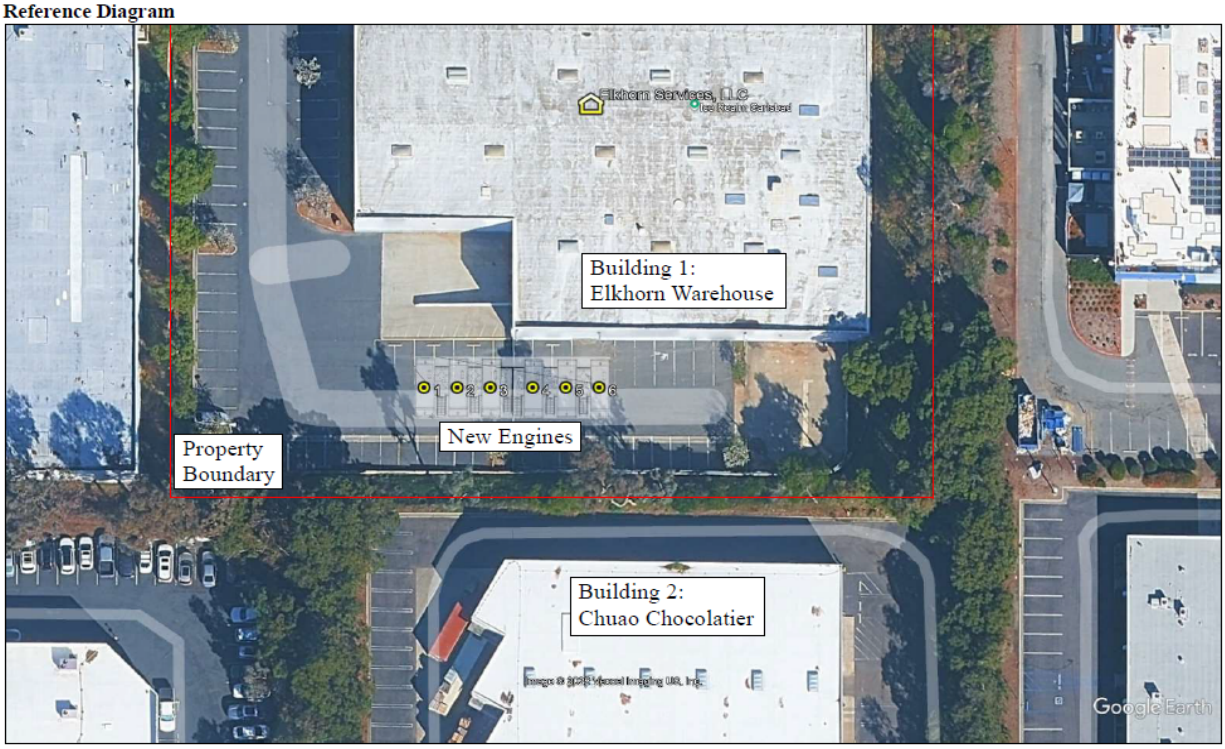
Additional Rule 1200 Submittal Information

Submittal Date:		Site ID:	APCD2025-SITE-04957
Project Engineer:	Hawzhin Muhamed	Appl. Number(s):	APCD2025-APP-008964
Fees Collected:		PTO No. (if existing):	


Palomar Airport Rd
Gateway Rd
Arrowtown Garden Rd
Alicante Rd
Alverton Dr
El Camino Real
El Camino Real
Elkhorn Services, LLC
Nearest K-12 School (864 feet)
Nearest Off-Site Worker Receptor (47 feet)
Nearest Residential Receptor (1,250 feet)
Palmas Dr


Facility Boundary
Elkhorn Services, LLC
Proposed New Engines
1
2
3
4
5
6
Image © 2025 Vexcel Imaging US, Inc.
Google Earth

Reference Diagram



Engine Stack Location Information

Exhaust Stack Name	Zone	Easting	Northing
Engine 1	11 S	474853.03	3664758.41
Engine 2	11 S	474857.41	3664758.40
Engine 3	11 S	474861.74	3664758.39
Engine 4	11 S	474867.32	3664758.38
Engine 5	11 S	474871.67	3664758.37
Engine 6	11 S	474876.05	3664758.35