

Rule 1200 Health Risk Assessment

Facility Name: RSF Old Course Rd, LLC
Facility ID: APCD2024-SITE-04672
Application: APCD2024-APP-008487
Project Engineer: Austin Stein
Modeler: Bill Reeve
Toxics Risk Analyst: Maria Galvez
Date Submitted to Toxics: 3/04/2025
Date Completed by Toxics: 3/24/2025
HRA Tools Used: Lakes-AERMOD (Version 24142)/HARP (v22118)

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

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

Estimated Risk Levels:

Maximum Individual Cancer Risk (Resident)	0.365 in one million
Chronic Noncancer Health Hazard Index (Resident)	= 9.82E-05
8-Hour Noncancer Health Hazard Index (Worker)	= NA*
Maximum Acute Health Hazard Index	= 0.19

*8-Hour Non-Cancer Health Hazard Index is only applicable when calculating worker risk

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

Input Data Provided by Project Engineer:

Type of Source: Emergency Diesel IC Engine.

Controls Description: Aftermarket DPF

Worst-Case TAC Emissions Increase:

Toxic Air Contaminant	Hourly Emission Rate (lb/hr)	Annual Emission Rate (lb/yr)
DIESEL PARTICULATE		1.21E+00
ACETALDEHYDE	2.69E-02	1.35E+00
ACROLEIN	1.17E-03	5.83E-02
ARSENIC COMPOUNDS	5.50E-05	2.75E-03
BENZENE	6.41E-03	3.20E-01
BUTADIENE, 1,3-	7.46E-03	3.73E-01
CADMIUM AND COMPOUNDS	5.16E-05	2.58E-03
CHLOROBENZENE	6.88E-06	3.44E-04
CHROMIUM (HEXAVALENT)	3.44E-06	1.72E-04
COPPER AND COMPOUNDS	1.41E-04	7.05E-03
ETHYL BENZENE	3.75E-04	1.87E-02
FORMALDEHYDE	5.94E-02	2.97E+00
HEXANE-N	9.25E-04	4.63E-02
HYDROCHLORIC ACID	6.41E-03	3.20E-01
LEAD & COMPOUNDS	2.86E-04	1.43E-02
MANGANESE AND COMPOUNDS	1.07E-04	5.33E-03
MERCURY AND COMPOUNDS	6.88E-05	3.44E-03
NAPHTHALENE	6.78E-04	3.39E-02
NICKEL AND NICKEL COMPOUNDS	1.34E-04	6.71E-03
POLYCYCLIC AROM. HC (PAH) [Treat as B(a)P for HRA]	1.25E-03	6.23E-02
PROPYLENE	1.61E-02	8.03E-01
SELENIUM AND COMPOUNDS	7.57E-05	3.78E-03
TOLUENE	3.63E-03	1.81E-01
XYLENES	1.46E-03	7.29E-02

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.

Process Data:

Operation Parameter	Value
Diesel particulate emission factor (g/hp-hr)	0.015
Engine horsepower (bhp)	755
Fuel Consumption (gal/hr)	34.40
Annual hours of operation	50

Release Parameters:

Exhaust Flow Rate, cfm:	3625
Exhaust Temperature, °F:	901
Stack Height above ground, ft:	9.8
Stack Diameter, ft:	0.67

Discussion

The HRA was conducted in accordance with EPA and OEHHA guidance and District standard procedures. A point source was modeled with refined air dispersion modeling using EPA's AERMOD model, AERMET (Version 24142) processed Kearny Villa Road 2020/2022 sigma theta updated meteorology data, AERMAP terrain processing, and rural dispersion coefficients. Building downwash effects were calculated using the EPA BPIP-Prime model. The receptor grid was sufficiently dense to identify maximum impacts.

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.

*HARP - HRACalc v22118 3/24/2025 9:41:18 AM - Cancer Risk - Input File: D:\8487_RSf Old Course Rd\8487_HARP\resident_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE	CONC	RISK_SUM	INH_RISK	SCENARIO
1	Engine		9901	DieselExhF	0.000491	3.65E-07	3.65E-07	30YrCancerRMP_InhSoilDermMMilk_FAH16to70

*HARP - HRACalc v22118 3/24/2025 9:41:18 AM - Chronic Risk - Input File: D:\8487_RSf Old Course Rd\8487_HARP\resident_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE	CONC	RESP	SCENARIO
1	Engine		9901	DieselExhF	0.000491	9.82E-05	NonCancerChronicDerived_InhSoilDermMMilk

*HARP - HRACalc v22118 3/24/2025 9:41:18 AM - Acute Risk - Input File: D:\8487_RSf Old Course Rd\8487_HARP\resident_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE	CONC	EYE	SCENARIO
1	Engine		9901	DieselExhF		0	0.00E+00 NonCancerAcute
2	Engine		75070	Acetaldehy	3.14	6.68E-03	NonCancerAcute
3	Engine		107028	Acrolein	0.136	5.44E-02	NonCancerAcute
4	Engine		7440382	Arsenic	0.00642	0.00E+00	NonCancerAcute
5	Engine		71432	Benzene	0.748	0.00E+00	NonCancerAcute
6	Engine		106990	1,3-Butadi	0.871	0.00E+00	NonCancerAcute
7	Engine		7440439	Cadmium	0.00602	0.00E+00	NonCancerAcute
8	Engine		108907	Chloroben	0.000803	0.00E+00	NonCancerAcute
9	Engine		18540299	Cr(VI)	0.000401	0.00E+00	NonCancerAcute
10	Engine		7440508	Copper	0.0165	0.00E+00	NonCancerAcute
11	Engine		100414	Ethyl Benz	0.0437	0.00E+00	NonCancerAcute
12	Engine		50000	Formaldehy	6.93	1.26E-01	NonCancerAcute
13	Engine		110543	Hexane	0.108	0.00E+00	NonCancerAcute
14	Engine		7647010	HCl	0.748	3.56E-04	NonCancerAcute
15	Engine		7439921	Lead	0.0333	0.00E+00	NonCancerAcute
16	Engine		7439965	Manganes	0.0124	0.00E+00	NonCancerAcute
17	Engine		7439976	Mercury	0.00803	0.00E+00	NonCancerAcute
18	Engine		91203	Naphthale	0.0791	0.00E+00	NonCancerAcute
19	Engine		7440020	Nickel	0.0157	0.00E+00	NonCancerAcute
20	Engine		1151	PAHs-w/o	0.145	0.00E+00	NonCancerAcute
21	Engine		115071	Propylene	1.87	0.00E+00	NonCancerAcute
22	Engine		7782492	Selenium	0.00883	0.00E+00	NonCancerAcute
23	Engine		108883	Toluene	0.423	8.46E-05	NonCancerAcute
24	Engine		1330207	Xylenes	0.17	7.73E-06	NonCancerAcute
						1.88E-01	

PROJECT TITLE:
APP008487
Annual x/q

COMMENTS:

SOURCES:

1

RECEPTORS:

17917

OUTPUT TYPE:

Concentration

MAX:

54.1 ug/m^3

COMPANY NAME:

MODELER:

DATE:

3/24/2025

SCALE:

1:1,247

0 0.03 km

PROJECT NO.:



PROJECT TITLE:

APP008487

Hourly x/q

COMMENTS:

SOURCES:

1

RECEPTORS:

17917

OUTPUT TYPE:

Concentration

MAX:

926 ug/m^3

COMPANY NAME:

MODELER:

DATE:

3/24/2025

SCALE:

1:1,846

0

0.05 km

PROJECT NO.:



Facility Name: RSF Old Course Rd. LLC
Application Number: APCD2024-APP-008487
Site ID Number: APCD2024-SITE-04672
Equipment Address: 16202 Sunny Summit Drive, San Diego, CA 92127
Project Description: New emergency diesel engine

Project Engineer: Austin Stein

Make: Cummins
Model: QSX15-G9
S/N: TBD
Fuel Type: Diesel
BHP Rating: 755
Model Year: 2021
Tier Level: 2
Engine Family Number: MCEXL015.AAJ
Device Driven: 500 kW standby generator
Emissions Controls: Aftermarket, CARB LEVEL 3 certified for relevant EPA family number, DPF/DOC - Johnson Matthey CRT

Based on Manufacturer Specs

NOx, g/BHP-hr: 4.21
CO, g/BHP-hr: 0.09
NMHC, g/BHP-hr: 0.02
PM10, g/BHP-hr: 0.015

5.64 g/kW-hr
0.12 g/kW-hr
0.03 g/kW-hr
0.02 g/kW-hr

Uncontrolled Emissions (From EPA Engine Family #)

5.64 g/kW-hr
0.60 g/kW-hr
0.1 g/kW-hr
0.13 g/kW-hr

Completion Check List

Item	Attached and Completed?	
	Yes	No
General Application	x	
Emergency Engine Supplemental Form	x	
Toxics Form	x	
Plot Plan(s)/Site Map(s) with required locations	x	
Engine Manufacturer Specs	x	
Engine Emissions Data	x	
Engine CARB/EPA Certification	x	
Control Equipment Specs (if applicable)	x	
BACT Analysis (if applicable)		

Control Efficiency of DPF/DOC (from manufacturer spec)

NOx: 0%
CO: 80%
NMHC: 70%
PM10: 85%

NOx, g/BHP-hr: + NMHC, g/BHP-hr: 4.23

Standards for New Stationary Emergency Diesel Fueled Engines		
Rule 69.4.1 Standards:	g/BHP-hr	Pass
NOx:	4.80	Yes
CO:	2.60	Yes
ATCM Standards:	g/BHP-hr	Pass
Nox + NMHC:	4.80	Yes
CO:	2.60	Yes
PM:	0.15	Yes
NSPS IIII:	g/BHP-hr	Pass
Nox + NMHC:	4.80	Yes
CO:	2.60	Yes
PM:	0.15	Yes

Fuel Usage, gal/hr: 34.4
Operating Schedule, hrs/day: 24
Operating Schedule, hrs/yr: 50

Exhaust Flow Rate, cfm: 3625
Exhaust Temperature, °F: 901
Stack Height above ground, ft: 9.8
Stack Diameter, ft: 0.7

Nearest School, ft: 320.00
Residential Receptor, m: 78.33
Occupational Receptor, m: 28.65
Acute Receptor, m: 28.65

Vertical Exhaust? (yes/no): yes
Flapper Valve? (flapper/raincap): Flapper

Plot Plan? (yes/no): yes
Flow Obstructions: no

AB3205? AB3205 is Required

Consult Toxics? Receptor Distances are more than 25 meters.

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

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

Facility Name: RSF Old Course Rd. LLC
Equipment Location: 16202 Sunny Summit Drive, San Diego, CA 92127

Project Description:

Control Equipment: None

Operating Schedule:

Hours per Day:

Days per Week:

Weeks per Year:

Days per Year:

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	☐ 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)	9.8		
Stack Diameter (or length x width) (ft)	0.67		
Exhaust Gas Temperature (°F) ¹	901		
Exhaust Gas Flow (ACFM)	3625		
Direction of Flow ²	vertical		
Flow Obstruction ³	no		
Distance to Nearest Property Line (+/- 10ft)	94.00		

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)			
Building Width (ft) (optional)			
Building Height above ground (ft)			

San Diego APCD Use Only

Additional Rule 1200 Submittal Information

Submittal Date:		Site ID:	APCD2024-SITE-04672
Project Engineer:	Austin Stein	Appl. Number(s):	APCD2024-APP-008487
Fees Collected:		PTO No. (if existing):	

FACILITY NAME: RSF Old Course Rd. LLC																	
Fuel Consumption (gal/hr): 34.40 Diesel Particulate Emission Factor (g/hp-hr): 0.014547 Brake Horsepower (hp): 755 Annual Hours of Operation (hrs): 50	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr style="background-color: yellow;"> <th colspan="2" style="text-align: center;">RISK ANALYST ONLY</th> </tr> <tr> <th colspan="2" style="text-align: center;">DISPERSION MODELING DATA</th> </tr> <tr> <td style="width: 50%;">Annual Receptor Type:</td> <td style="width: 50%;">Resident ▼</td> </tr> <tr> <td>ANNUAL DISPERSION FACTOR (µg/m3)/(g/s):</td> <td style="text-align: right;">28.2</td> </tr> <tr> <td>Distance (m):</td> <td></td> </tr> <tr> <td>Hourly Receptor Type:</td> <td>PMI ▼</td> </tr> <tr> <td>HOURLY DISPERSION FACTOR (µg/m3)/(g/s):</td> <td style="text-align: right;">926.0</td> </tr> <tr> <td>Distance (m):</td> <td></td> </tr> </table>	RISK ANALYST ONLY		DISPERSION MODELING DATA		Annual Receptor Type:	Resident ▼	ANNUAL DISPERSION FACTOR (µg/m3)/(g/s):	28.2	Distance (m):		Hourly Receptor Type:	PMI ▼	HOURLY DISPERSION FACTOR (µg/m3)/(g/s):	926.0	Distance (m):	
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FACILITY ID: APCD2024-SITE-04672 APPLICATION NO.: APCD2024-APP-008487 ENGINEER: Austin Stein																	

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/m ³	Annual GLC µg/m ³
DIESEL PARTICULATE			1.21E+00		1.74E-05		4.91E-04
ACETALDEHYDE	7.83E-01	2.69E-02	1.35E+00	3.39E-03		3.14E+00	
ACROLEIN*	3.39E-02	1.17E-03	5.83E-02	1.47E-04		1.36E-01	
ARSENIC COMPOUNDS	1.60E-03	5.50E-05	2.75E-03	6.94E-06		6.42E-03	
BENZENE	1.86E-01	6.41E-03	3.20E-01	8.07E-04		7.48E-01	
BUTADIENE, 1,3-	2.17E-01	7.46E-03	3.73E-01	9.41E-04		0.87097	
CADMIUM AND COMPOUNDS	1.50E-03	5.16E-05	2.58E-03	6.50E-06		6.02E-03	
CHLOROBENZENE	2.00E-04	6.88E-06	3.44E-04	8.67E-07		8.03E-04	
CHROMIUM (HEXAVALENT)	1.00E-04	3.44E-06	1.72E-04	4.33E-07		4.01E-04	
COPPER AND COMPOUNDS	4.10E-03	1.41E-04	7.05E-03	1.78E-05		1.65E-02	
ETHYL BENZENE	1.09E-02	3.75E-04	1.87E-02	4.72E-05		4.37E-02	
FORMALDEHYDE	1.73E+00	5.94E-02	2.97E+00	7.48E-03		6.93E+00	
HEXANE-N	2.69E-02	9.25E-04	4.63E-02	1.17E-04		1.08E-01	
HYDROCHLORIC ACID	1.86E-01	6.41E-03	3.20E-01	8.07E-04		7.48E-01	
LEAD & COMPOUNDS	8.30E-03	2.86E-04	1.43E-02	3.60E-05		3.33E-02	
MANGANESE AND COMPOUNDS	3.10E-03	1.07E-04	5.33E-03	1.34E-05		1.24E-02	
MERCURY AND COMPOUNDS (INORGANIC)	2.00E-03	6.88E-05	3.44E-03	8.67E-06		8.03E-03	
NAPHTHALENE	1.97E-02	6.78E-04	3.39E-02	8.54E-05		7.91E-02	
NICKEL AND NICKEL COMPOUNDS	3.90E-03	1.34E-04	6.71E-03	1.69E-05		1.57E-02	
POLYCYCLIC AROM. HC (PAH) [Treat as B(a)P for	3.62E-02	1.25E-03	6.23E-02	1.57E-04		1.45E-01	
PROPYLENE	4.67E-01	1.61E-02	8.03E-01	2.02E-03		1.87E+00	
SELENIUM AND COMPOUNDS	2.20E-03	7.57E-05	3.78E-03	9.54E-06		8.83E-03	
TOLUENE	1.05E-01	3.63E-03	1.81E-01	4.57E-04		4.23E-01	
XYLENES	4.24E-02	1.46E-03	7.29E-02	1.84E-04		1.70E-01	

HARP2 - HRACalc (dated 22118) 3/24/2025 9:41:18 AM - Output Log

GLCs loaded successfully

Pollutants loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident

Scenario: All

Calculation Method: Derived

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25

Total Exposure Duration: 30

Exposure Duration Bin Distribution

3rd Trimester Bin: 0.25

0<2 Years Bin: 2

2<9 Years Bin: 0

2<16 Years Bin: 14

16<30 Years Bin: 14

16 to 70 Years Bin: 0

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: True

Water: False

Fish: False

Homegrown crops: False

Beef: False

Dairy: False

Pig: False

Chicken: False

Egg: False

INHALATION

Daily breathing rate: RMP

****Worker Adjustment Factors****

Worker adjustment factors enabled: NO

Fraction at time at home

3rd Trimester to 16 years: OFF

16 years to 70 years: ON

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 saved to: D:\8487_RSf Old Course Rd\8487_HARP\resident_CancerRisk.csv

Calculating chronic risk

Chronic risk saved to: D:\8487_RSf Old Course

Rd\8487_HARP\resident_NCChronicRisk.csv

Calculating acute risk

Acute risk saved to: D:\8487_RSf Old Course Rd\8487_HARP\resident_NCAcuteRisk.csv

HRA ran successfully

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** 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	487021.6	3653774.0	155.5	2.99	755.93	52.23	0.20	YES	NO	NO	

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** 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 RURAL Dispersion Only.
 - * CCVR_Sub - Meteorological data includes CCVR substitutions

- * TEMP_Sub - Meteorological data includes TEMP substitutions
- * 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: 1 Source(s); 1 Source Group(s); and 17917 Receptor(s)

with: 1 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) = 132.00 ; 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 = 5.5 MB of RAM.

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

```

**Detailed Error/Message File:      8487_RSF_Old_Course.err
**File for Summary of Results:      8487_RSF_Old_Course.sum

```

[illegible]

```
*** MODELOPTs:      RegDFAULT  CONC  ELEV  RURAL  SigA Data
```

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

[illegible]

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,

[illegible]

```
*** MODELOPTs:      RegDFAULT  CONC  ELEV  RURAL  SigA Data
```

*** 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

Year: 2020

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
20	01	01	1	01	-10.8	0.101	-9.000	-9.000	-999.	77.	8.6	0.04	1.12	1.00	2.82	57.	10.0	283.1	10.0			
20	01	01	1	02	-6.6	0.081	-9.000	-9.000	-999.	56.	7.2	0.06	1.12	1.00	2.06	73.	10.0	282.6	10.0			
20	01	01	1	03	-7.6	0.085	-9.000	-9.000	-999.	60.	7.2	0.04	1.12	1.00	2.37	54.	10.0	283.5	10.0			
20	01	01	1	04	-6.0	0.075	-9.000	-9.000	-999.	50.	6.4	0.04	1.12	1.00	2.10	59.	10.0	283.0	10.0			
20	01	01	1	05	-9.1	0.095	-9.000	-9.000	-999.	70.	8.5	0.06	1.12	1.00	2.41	63.	10.0	282.4	10.0			
20	01	01	1	06	-6.1	0.078	-9.000	-9.000	-999.	52.	6.9	0.06	1.12	1.00	1.97	64.	10.0	282.6	10.0			
20	01	01	1	07	-5.8	0.076	-9.000	-9.000	-999.	50.	6.7	0.06	1.12	1.00	1.92	70.	10.0	282.5	10.0			
20	01	01	1	08	-1.9	0.049	-9.000	-9.000	-999.	26.	5.6	0.10	1.12	0.50	1.12	129.	10.0	282.4	10.0			
20	01	01	1	09	35.0	0.125	0.383	0.005	58.	106.	-5.0	0.09	1.12	0.30	1.03	112.	10.0	286.4	10.0			
20	01	01	1	10	86.9	0.261	0.897	0.005	297.	321.	-18.4	0.10	1.12	0.23	2.46	148.	10.0	289.0	10.0			
20	01	01	1	11	122.3	0.218	1.240	0.005	558.	246.	-7.6	0.07	1.12	0.21	2.01	225.	10.0	290.5	10.0			
20	01	01	1	12	139.1	0.279	1.433	0.005	756.	353.	-13.9	0.07	1.12	0.20	2.77	211.	10.0	291.3	10.0			
20	01	01	1	13	136.5	0.296	1.559	0.005	991.	386.	-16.9	0.07	1.12	0.20	3.00	210.	10.0	291.2	10.0			
20	01	01	1	14	114.7	0.311	1.526	0.005	1105.	417.	-23.4	0.07	1.12	0.21	3.26	234.	10.0	290.8	10.0			
20	01	01	1	15	75.0	0.316	1.351	0.005	1173.	425.	-37.3	0.07	1.12	0.24	3.44	227.	10.0	290.3	10.0			
20	01	01	1	16	20.5	0.251	0.881	0.005	1189.	304.	-68.8	0.05	1.12	0.33	3.08	244.	10.0	289.4	10.0			
20	01	01	1	17	-5.7	0.078	-9.000	-9.000	-999.	92.	7.5	0.07	1.12	0.61	1.92	236.	10.0	288.2	10.0			
20	01	01	1	18	-7.6	0.092	-9.000	-9.000	-999.	67.	9.1	0.15	1.12	1.00	1.92	193.	10.0	287.3	10.0			
20	01	01	1	19	-5.9	0.080	-9.000	-9.000	-999.	54.	7.7	0.10	1.12	1.00	1.83	140.	10.0	286.6	10.0			
20	01	01	1	20	-2.6	0.053	-9.000	-9.000	-999.	29.	5.1	0.10	1.12	1.00	1.21	144.	10.0	286.2	10.0			
20	01	01	1	21	-2.5	0.051	-9.000	-9.000	-999.	28.	4.7	0.09	1.12	1.00	1.21	99.	10.0	285.3	10.0			
20	01	01	1	22	-4.1	0.065	-9.000	-9.000	-999.	40.	5.9	0.06	1.12	1.00	1.65	76.	10.0	284.8	10.			

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
20	01	01	01	10.0	1	57.	2.82	283.2	6.0	-99.00	0.29

F indicates top of profile (=1) or below (=0)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** 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	

ALL	1ST HIGHEST VALUE IS	54.12396	AT (	486952.50,	3653714.50,	156.58,	161.24,	0.00)	DC		
	2ND HIGHEST VALUE IS	53.32629	AT (	486937.50,	3653714.50,	156.96,	161.24,	0.00)	DC		
	3RD HIGHEST VALUE IS	50.78598	AT (	486967.50,	3653714.50,	156.15,	161.15,	0.00)	DC		
	4TH HIGHEST VALUE IS	49.92773	AT (	486922.50,	3653729.50,	160.51,	160.51,	0.00)	DC		
	5TH HIGHEST VALUE IS	49.17130	AT (	486937.50,	3653729.50,	160.61,	160.61,	0.00)	DC		
	6TH HIGHEST VALUE IS	47.89283	AT (	486952.50,	3653729.50,	160.33,	160.33,	0.00)	DC		
	7TH HIGHEST VALUE IS	47.17050	AT (	486922.50,	3653714.50,	157.13,	161.43,	0.00)	DC		
	8TH HIGHEST VALUE IS	43.78999	AT (	486907.50,	3653729.50,	160.10,	160.10,	0.00)	DC		
	9TH HIGHEST VALUE IS	42.84523	AT (	487022.96,	3653757.41,	155.13,	156.75,	0.00)	DC		
	10TH HIGHEST VALUE IS	41.57109	AT (	486982.50,	3653714.50,	155.66,	161.05,	0.00)	DC		

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

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** 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

ALL HIGH 1ST HIGH VALUE IS 926.00711 ON 21010502: AT (486967.50, 3653714.50, 156.15, 161.15, 0.00) DC

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

*** AERMOD - VERSION 24142 ***
 *** D:\Modeling Projects\8487_RSf_Old_Course\8487_RSf_Old_Course.isc

*** AERMET - VERSION 24142 ***

03/20/25
 16:27:46
 PAGE 6

*** MODELOPTs: RegDFAULT CONC ELEV RURAL SigA Data

*** 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

1415 Informational Message(s)

A Total of

26304 Hours Were Processed

A Total of

654 Calm Hours Identified

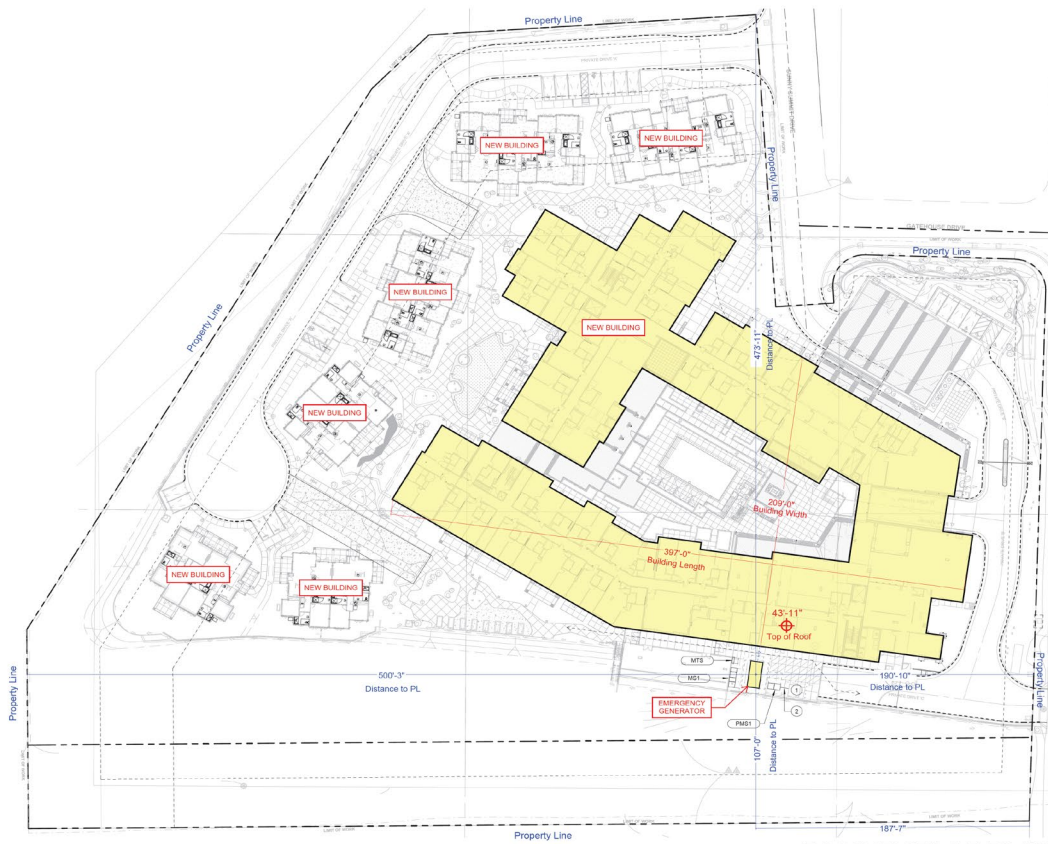
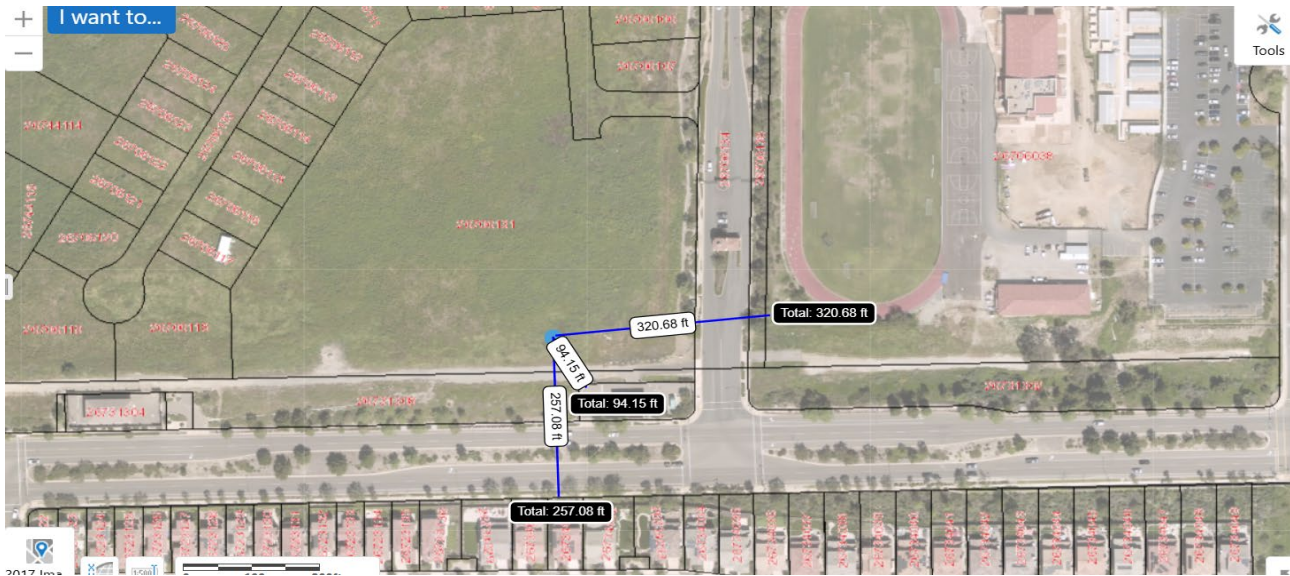
A Total of

761 Missing Hours Identified (2.89 Percent)

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

***** WARNING MESSAGES *****

SO W320	37	PPARM: Input Parameter May Be Out-of-Range for Parameter	VS
MX W403	99	PFLCNV: Turbulence data is being used w/o ADJ_U* option	SigA Data



16202 SUNNY SUMMIT DRIVE, SAN DIEGO, CA 92127

FACILITY PLOT PLAN SCALE 1" = 30'-0"

Galvez, Maria

From: Stein, Austin C
Sent: Tuesday, March 4, 2025 9:11 AM
To: Reeve, Bill; Nguyen, Tony
Cc: Canter, Adam; Horres, Nicholas; Herzig, Joe
Subject: 8487_RSFS Old Course Road - HRA Request

Hello,

Here is an HRA request.

This engine has an aftermarket DPF, certified CARB level 3 for the EPA engine family corresponding to this model year. This engine will be built on the same property and close to a new building. This new building's dimensions can be seen roughly in plans on the calculations sheet. The height of the building looks to be 44 ft. If more information is needed to model this, please let me know.

Please have the modeler post the results in  [8487_RSFS Old Course Rd](#)

Thank you so much,



San Diego County
**Air Pollution
Control District**

% · fltv #Q nv; #un4iv- 2#
%fl#vME}}· tE;# E; #E }P; tvnnf#
Qa;#D vntE# E·; #vME}}· tE;# E; #E }D vlij#
'~'', #E jL #fE"nPl #Qa;#D vntE# % #E''~'~'#
☎ #"-D,E"Ð-,"~#
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