



South Coast

**AQMD**

# Annual Emission Report

Reporting Year: **2015**

Print Date: **02/12/2016**

Facility Id: **49387**

Facility Name **UNIV CAL, RIVERSIDE**

Facility Type: **Schools and Educational Institutions**

## Criteria Pollutants Permitted Emissions Summary

	VOC (tons)	SPOG (tons)	NOx (tons)	NOx RECLAIM (tons)	SOx (tons)	SOx RECLAIM (tons)	CO (tons)	PM (tons)
External Combustion	0.86	0.00	2.18	0.00	0.22	0.00	13.12	1.19
Internal Combustion	0.19	0.00	2.36	0.00	0.00	0.00	0.51	0.17
Spray Coating/ Spray Booth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Use of Organics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Storage Tanks	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fugitive Components	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Process Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shutdown/Startup/Turnaround and Upsets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Permitted Emissions</b>	<b>1.15</b>	<b>0.00</b>	<b>4.54</b>	<b>0.00</b>	<b>0.22</b>	<b>0.00</b>	<b>13.63</b>	<b>1.36</b>



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## Criteria Pollutants Non-Permitted Emissions Summary

	VOC (tons)	SPOG (tons)	NOx (tons)	NOx RECLAIM (tons)	SOx (tons)	SOx RECLAIM (tons)	CO (tons)	PM (tons)
External Combustion	0.03	0.00	0.52	0.00	0.00	0.00	0.34	0.04
Internal Combustion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spray Coating/ Spray Booth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Use of Organics	0.41	0.03	0.00	0.00	0.00	0.00	0.00	0.00
Storage Tanks	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fugitive Components	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Process Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.94
Shutdown/Startup/Turnaround and Upsets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total Non-Permitted Emissions</b>	<b>0.44</b>	<b>0.03</b>	<b>0.52</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.34</b>	<b>3.98</b>



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## Toxic Air Contaminants (TAC) / Ozone Depleting Compounds (ODC) Emissions and Fees Summary

TAC Group	TAC / ODC	Annual Emissions (lbs)	Emissions Subject to Fee (lbs)	Fee Rates (\$/lbs)	Fee Due
32	Ammonia	5.81474e+3	5,815	0.03	174.45
1	Asbestos	1.61693e+0	2	6.02	12.04
2	Benzene	8.12890e+1	81	2.03	164.43
3	Beryllium	0.00000e+0	0	0.00	0.00
4	Butadiene [1,3]	2.28296e+0	2	6.02	12.04
5	Cadmium	3.39765e-2	0	6.02	0.00
6	Carbon tetrachloride	1.48145e+1	15	2.03	30.45
7	Chlorinated dioxins and dibenzofurans	0.00000e+0	0	0.00	0.00
8	1,4-Dioxane	1.86172e+1	19	0.45	8.55
9	Ethylene dibromide {1,2-Dibromoethane}	2.73916e+0	3	2.03	6.09
10	Ethylene dichloride {1,2-Dichloroethane}	1.13825e+1	11	2.03	22.33
11	Ethylene oxide	0.00000e+0	0	2.03	0.00
12	Formaldehyde	1.71449e+2	171	0.45	76.95
13	Chromium, hexavalent (and compounds)	1.00683e-3	0	8.02	0.00
14	Arsenic and Compounds (inorganic)	3.09394e-2	0	6.02	0.00
15	Lead compounds (inorganic)	1.24286e+0	1	2.03	2.03
16	Methylene chloride {Dichloromethane}	1.76955e+2	177	0.08	14.16
17	Nickel	1.82604e+0	2	4.00	8.00
18	Perchloroethylene (Tetrachloroethene)	7.42681e+0	7	0.45	3.15
19	PAHs [PAH, POM]	6.94628e+0	7	6.02	42.14
20	Trichloroethylene	1.48395e+1	0	0.16	0.00
21	Vinyl chloride	6.68000e-6	0	2.03	0.00
22	Fluorocarbons (chlorinated)	1.39316e+0	1	0.39	0.39
23	Methyl chloroform {1,1,1-Trichloroethane}	1.09188e+0	1	0.05	0.05
<b>Fees due total (\$)</b>					<b>577.25</b>



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## Other Toxic Air Contaminants (TAC) Emissions Summary Applicable to AB2588 Facility

TAC Group	TAC / ODC	Annual Emissions (lbs)
24	1,1,1,2-Tetrachloroethane	2.44664e+0
25	1,1,1,2-Trichloroethane {Vinyl trichloride}	1.42700e-5
26	1,2,4-Trimethylbenzene	6.41000e-6
27	1,2-Dichloropropane {Propylene dichloride}	1.20700e-5
28	1,3-Dichloropropene	1.18400e-5
29	Acetaldehyde	9.68127e+0
30	Acrolein	1.52622e+0
31	Acrylonitrile	1.21320e-1
33	Carbonyl sulfide	0.00000e+0
34	Chlorine	1.61153e+0
35	Chloroform	1.85516e+2
36	Copper	9.30138e+0
37	Crystalline silica	5.06309e+0
38	Di(2-ethylhexyl) phthalate {DEHP}	1.48732e+1
39	Dimethyl phthalate	0.00000e+0
40	Ethyl benzene	6.57478e+0
41	Glycol ethers and their acetates	2.68353e+1
42	Hexachlorobenzene	1.45180e+0
43	Hexachlorocyclohexanes	5.93120e-1
44	Hexane	1.56024e+2
45	Hydrazine	1.71263e+0
46	Hydrochloric acid	6.20224e+2
47	Hydrogen sulfide	1.18624e+0
48	Isocyanates and diisocyanates	5.49984e-1
49	Manganese	7.73290e-1
50	Mercury and mercury compounds	4.92666e+1

TAC Group	TAC / ODC	Annual Emissions (lbs)
51	Methanol	1.12200e-3
52	Methyl chloride {Chloromethane}	0.00000e+0
53	Methyl ethyl ketone {2-Butanone}	0.00000e+0
54	Methyl isobutyl ketone {Hexone}	1.01639e+1
55	Methyl tert-butyl ether	2.09708e+1
56	PCBs (Polychlorinated biphenyls) [POM]	0.00000e+0
57	p-Dichlorobenzene {1,4-Dichlorobenzene}	3.61601e+0
58	Pentachlorophenol	0.00000e+0
59	Phosphorus	1.14782e+0
60	Phosphorous compounds	1.04401e+2
61	POMS and PAH-derivatives	2.23768e-2
62	Propylene oxide	2.46954e+0
63	Quinoline	0.00000e+0
64	Selenium and compounds	3.67915e-1
65	Sodium hydroxide	1.95371e+2
66	Styrene	1.05900e-5
67	Sulfuric acid and oleum	1.03924e+3
68	Toluene	1.07333e+2
69	Urethane {Ethyl carbamate}	6.67260e-2
70	Xylenes	7.08589e+0
71	Chlorodifluoromethane {Freon 22}	6.78691e+1
72	Diesel exhaust particulates	0.00000e+0
73	Hydrogen fluoride (hydrofluoric acid)	1.56288e+2



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## Total Emissions and Fees

Submittal Date: No later than March 01 2016	Total Permitted Emissions (tons)	Total Non-Permitted Emissions (tons)	Total RECLAIM Emissions (tons)	Total Emission (tons)	Total Emissions/ Subject To Fee (tons)	Emissions Fees Due
Organic Gasses	1.15	0.44		1.59	0.00	\$0.00
Specific Organics	0.00	0.03		0.03	0.00	\$0.00
Nitrogen Oxides	4.54	0.52	0.00	5.06	5.00	\$674.00
Sulfur Oxides	0.22	0.00	0.00	0.22	0.00	\$0.00
Carbon Monoxide	13.63	0.34		13.97	0.00	\$0.00
Particulate Matter	1.36	3.98		5.34	5.00	\$880.96
1. TOTAL EMISSION FEES FOR ALL CRITERIA POLLUTANTS						\$1,554.96
2. TOXIC AIR CONTAMINANTS/ OZONE DEPLETER FEES (Total amount from Form TACS or DC)						\$577.25
3. TOTAL FEES DUE						\$2,132.21
4. INSTALLMENTS PAID FOR 2015 - (if any) -- All Criteria Pollutants						\$0.00
5. INSTALLMENTS PAID FOR 2015 - (if any) -- Toxic Air Contaminants/Ozone Depleters						\$0.00
6. BALANCE DUE (Line 3 - Line 4 - Line 5)						\$2,132.21
7. LATE PAYMENT SURCHARGE						\$0.00
<b>8. AMOUNT DUE</b>						<b>\$2,132.21</b>