

Annual Emission Report

South Coast
AQMDAQMDReporting Year:2019Facility Id:17301Print Date:03/16/2020Facility NameORANGE COUNTY SANITATION DISTRICTVasteWater Treatment - MunicipalVasteWater Treatment - Municipal

StatusUpdate

Facility ID	17301
Facility Shutdown Date	N/A
Change of Ownership Date	N/A
Change in Equipment Location Date	N/A
Emissions are zero for this year's report, or emissions reduced by 50%	N/A
Exemption Request	N/A
Use of alternative Calculation methodology	N/A
Other	N/A
Refund Request	N/A



Annual Emission Report

AQMD

Reporting Year: 2019

Print Date:

03/16/2020

Facility Id: **17301**

Facility Name ORANGE COUNTY SANITATION DISTRICT

Facility Type: WasteWater Treatment - Municipal

External Combustion Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Fuel	Fuel Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	со	РМ
ES8	,	494460	P1	Boiler 10-100	Natural	0.010000	mmscf	EF	lbs/ mmscf	5.500000		8.940000	0.600000	4.950000	7.600000
		101100		MMBTU/HR	Gas			Emissions	lbs	0.06		0.09	0.01	0.05	0.08
ES10	6	494460	P1	Boiler 10-100	Digester Gas	14.81000		EF	lbs/ mmscf	5.900000		5.840000	3.450000	5.610000	3.190000
LOID	0	434400		MMBTU/HR	(Biogas)	0	mmsci	Emissions	lbs	87.38		86.49	51.09	83.08	47.24
ES10	0	429662	P1	Flare	Digester Gas	2.600000	mmccf	EF	lbs/ mmscf	7.200000		35.600000	0.008000	32.800000	3.900000
2310	5	429002	FI	Tiale	(Biogas)	2.000000	mmsci	Emissions	lbs	18.72		92.56	0.02	85.28	10.14

Total Emissions	lbs	106.15		179.14	51.12	168.41	57.46
Total Emissions	tons	0.05	0.00	0.09	0.03	0.08	0.03



Annual Emission Report

Reporting Year:

2019

Print Date:

03/16/2020

17301 Facility Id:

Facility Name ORANGE COUNTY SANITATION DISTRICT

Facility Type: WasteWater Treatment - Municipal

Internal Combustion Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Fuel	Fuel Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	со	РМ
ES95		546360	P1	Stationary I.C. Engines, 4 Stroke-Lean	Digester Gas	133.7300		EF	lbs/ mmscf	1.820000		5.640000	0.010000	1.100000	0.570000
2035		340300		Burn, with Catalyst	(Biogas)	00	mmsci	Emissions	lbs	243.39		754.24	1.34	147.10	76.23
ES96		E 40004	P1	Stationary I.C. Engines, 4 Stroke-Lean	Digester	272.4300	mmaaf	EF	lbs/ mmscf	2.360000		4.960000	0.012000	20.330000	0.430000
E290		546361	PI	Burn, with Catalyst	Gas (Biogas)	00	mmscf	Emissions	lbs	642.94		1,351.25	3.27	5,538.50	117.15
				Stationary I.C. Engines, 4	Digester	285.7300		EF	lbs/ mmscf	0.827000		13.130000	0.012000	18.730000	3.000000
ES97		546362	P1	Stroke-Lean Burn, with Catalyst	Gas (Biogas)	00		Emissions	lbs	236.30		3,751.63	3.43	5,351.72	857.19
ES98		133995	P1	Stationary I.C. Engines, 2	Distillate Fuel Oil	0.295000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
				Stroke-Lean Burn	No. 2 (Diesel)		5	Emissions	lbs	11.06		138.36	0.06	30.09	9.88
ES99		133994	P1	Stationary I.C. Engines, 2 Stroke-Lean	Distillate Fuel Oil No. 2	0.450000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
				Burn	(Diesel)			Emissions	lbs	16.88		211.05	0.09	45.90	15.08
ES100		134619	P1	Stationary I.C. Engines, 2	Distillate Fuel Oil	0.480000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
				Stroke-Lean Burn	No. 2 (Diesel)		5	Emissions	lbs	18.00		225.12	0.10	48.96	16.08
ES101		135464	P1	Stationary I.C. Engines, 2	Distillate Fuel Oil	0.585000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
				Stroke-Lean Burn	No. 2 (Diesel)			Emissions	lbs	21.94		274.37	0.12	59.67	19.60
ES102		428945	P1	Stationary I.C. Engines, 2	Distillate Fuel Oil	0.250000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
				Stroke-Lean Burn	No. 2 (Diesel)			Emissions	lbs	9.38		117.25	0.05	25.50	8.38

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Fuel	Fuel Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	со	РМ
ES103		408166	P1	Stationary I.C. Engines, 2 Stroke-Lean	Distillate Fuel Oil No. 2	0.150000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
				Burn	(Diesel)			Emissions	lbs	5.63		70.35	0.03	15.30	5.03
ES104		06049A	P1	Turbines	Distillate Fuel Oil	3.590000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
					No. 2 (Diesel)		5	Emissions	lbs	134.63		1,683.71	0.75	366.18	120.27
ES105		06050A	P1	Turbines	Distillate Fuel Oil	0.000000	M gal	EF	lbs/ M gal	35.700000		469.000000	0.210000	102.000000	33.500000
					No. 2 (Diesel)		5	Emissions	lbs	0.00		0.00	0.00	0.00	0.00
			_	Stationary I.C. Engines, 4	Natural			EF	lbs/ mmscf	1.530000		22.610000	0.600000	31.420000	1.023000
ES111		546360	P1	Stroke-Lean Burn, with Catalyst	Gas	7.500000	mmscf	Emissions	lbs	11.48		169.58	4.50	235.65	7.67
				Stationary I.C. Engines, 4	Natural	13.08000		EF	lbs/ mmscf	1.530000		22.610000	0.600000	31.420000	1.023000
ES112		546361	P1	Stroke-Lean Burn, with Catalyst	Gas	0		Emissions	lbs	20.01		295.74	7.85	410.97	13.38
50446		540000	54	Stationary I.C. Engines, 4	Natural	14.42000		EF	lbs/ mmscf	1.530000		22.610000	0.600000	31.420000	1.023000
ES113		546362	P1	Stroke-Lean Burn, with Catalyst	Gas	0	mmscf	Emissions	lbs	22.06		326.04	8.65	453.08	14.75

Total Emissions	lbs	1,393.67		9,368.67	30.25	12,728.62	1,280.67
Total Emissions	tons	0.70	0.00	4.68	0.02	6.36	0.64



Annual Emission Report

AQMD

Reporting Year: 2019

Print Date:

03/16/2020

Facility Id: 17301

Facility Name ORANGE COUNTY SANITATION DISTRICT

Facility Type: WasteWater Treatment - Municipal

Spray Coating/Spray Booth Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Material Activity Code	Material Description	Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	со	РМ
ES88		13973X	P1	Spray Booth	Coating : Coating of Metal Parts and Products : HVLP	Misc.	23.50000	nal	EF	lbs/ gal	1.200000					1.050000
2000		100707		opidy bootin	Application : Air Dried - Repair / Touch Up	Mi50.	0	gal	Emissions	lbs	28.20					2.47

Total Emissions	lbs	28.20					2.47
Total Emissions	tons	0.01	0.00	0.00	0.00	0.00	0.00



Annual Emission Report

AQMD

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Facility Id: 17301

Facility Name ORANGE COUNTY SANITATION DISTRICT

Facility Type: WasteWater Treatment - Municipal

Other Use of Organics Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Material Activity Code	Material Description	Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	со	РМ
ES93			P1	Other evaporative	Others : Adhesive and Sealant Applications : Hand	Blue Glue	0.130000	nal	EF	lbs/ gal	4.300000					
2000				sources	Application : Multipurpose Construction Adhesives		0.100000	gai	Emissions	lbs	0.56					
ES94			P1	Coating (Flow / Dip / Roll / Hand	Coating : Coating of Metal Parts and Products : Hand	Enamel Application	22.25000	aol	EF	lbs/ gal	2.840000					
⊏394			F1	Application)	Application : Air Dried - Repair / Touch Up	Enamer Application	0	gal	Emissions	lbs	63.19					

Total Emissions	lbs	63.75					
Total Emissions	tons	0.03	0.00	0.00	0.00	0.00	0.00



Annual Emission Report

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03/16/2020

Facility Id: 17301

Facility Name ORANGE COUNTY SANITATION DISTRICT

Facility Type: WasteWater Treatment - Municipal

Storage Tanks Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Product	Throughput	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	со	РМ
ES91			P1	Storage tank and	Distillate fuel oil no.	1.500000	Mical	EF	lbs/ M gal	0.028000					
2001				Dispensing	2	1.00000	in gai	Emissions	lbs	0.04					

Total Emissions	lbs	0.04					
Total Emissions	tons	0.00	0.00	0.00	0.00	0.00	0.00



Annual Emission Report

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Reporting Year: 2019

Print Date:

03/16/2020

Facility Id: **17301**

Facility Name ORANGE COUNTY SANITATION DISTRICT

Facility Type: WasteWater Treatment - Municipal

Other Process Emissions Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Activity	Throughput	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	со	РМ	Permit Equipment Description
ES89		568969	P1	Abrasive Blasting/Finishing : Metal Part : Abrasive	45.60000	hour	EF	lbs/ hour						0.042000	
2000		000000		Metal Part : Abrasive Blasting : Other Material	0	lioui	Emissions	lbs						1.92	
ES90		520794	P1	Miscellaneous Operations and Services : POTW :	119.1000		EF	lbs/ MMgal/day	240.000000						
2000		Government : Entire Plant	00	ay	Emissions	lbs	28,584.00								

Total Emissions	lbs	28,584.00					1.92	
Total Emissions	tons	14.29	0.00	0.00	0.00	0.00	0.00	



Annual Emission Report

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2019

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17301 Facility Id:

Facility Name **ORANGE COUNTY SANITATION DISTRICT**

Facility Type: WasteWater Treatment - Municipal

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	0.05	0.00	0.09	0.00	0.03	0.00	0.08	0.03
Internal Combustion	0.70	0.00	4.68	0.00	0.02	0.00	6.36	0.64
Spray Coating/ Spray Booth	0.01	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	0.00	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	14.29	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
Total Permitted Emissions	15.05	0.00	4.77	0.00	0.05	0.00	6.44	0.67



Annual Emission Report

Reporting Year:

2019

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17301 Facility Id:

Facility Name **ORANGE COUNTY SANITATION DISTRICT**

Facility Type: WasteWater Treatment - Municipal

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.03	0.00	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	0.00
Shutdown/Startup/Turnaround and Upsets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Non-Permitted Emissions	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00



Annual Emission Report

2019 Reporting Year:

17301 Facility Id:

Print Date:

03/16/2020

ORANGE COUNTY SANITATION DISTRICT Facility Name

Facility Type: WasteWater Treatment - Municipal

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

For detailed TAC Records please see related "AER TAC Report" Excel file



Annual Emission Report

Reporting Year:

2019

17301 Facility Id:

Print Date:

03/16/2020

ORANGE COUNTY SANITATION DISTRICT Facility Name

Facility Type: WasteWater Treatment - Municipal

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

For detailed TAC Records please see related "AER TAC Report" Excel file



AQMD

Annual Emission Report

Reporting Year:

2019

03/16/2020

Facility Id: 17301 Print Date: **ORANGE COUNTY SANITATION DISTRICT** Facility Name Facility Type: WasteWater Treatment - Municipal

Total Emissions and Fees

Submittal Date: No later than March 24 2020	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	15.05	0.03		15.08	15.00	\$7,764.60
Specific Organics	0.00	0.00		0.00	0.00	\$0.00
Nitrogen Oxides	4.77	0.00	0.00	4.77	5.00	\$757.10
Sulfur Oxides	0.05	0.00	0.00	0.05	0.00	\$0.00
Carbon Monoxide	6.44	0.00		6.44	0.00	\$0.00
Particulate Matter	0.67	0.00		0.67	0.00	\$0.00
1. TOTAL EMISSION F	EES FOR ALL CRIT	ERIA POLLUTANT	S			\$8,521.70
2. TOXIC AIR CONTAM	1INANTS/ OZONE D	EPLETER FEES (1	Fotal amount from	Form TACS or DC)	\$4,265.23
Facility Flat Fee:		TAC Fees Brea	akdown		\$78.03	
CPWE Emission Fees:					\$1375.00	
Ammonia & Depleting C	ompounds (ODC) F	ees:			\$418.90	
Per Device Fees (total d	,				\$2393.30	
					\$4265.23	
_						
3. TOTAL FEES DUE						\$12,786.93
4. INSTALLMENTS PAI	D FOR 2019 - (if any	/) All Criteria Poll	utants			\$5,290.57
5. INSTALLMENTS PAI	D FOR 2019 - (if an	/) Toxic Air Conta	iminants/Ozone [Depleters		\$1,166.46
6. BALANCE DUE (Line	e 3 - Line 4 - Line 5)					\$6,329.90
7. LATE PAYMENT SU	RCHARGE					\$0.00
8. AMOUNT DUE						\$6,329.90



AQMD

Annual Emission Report

Reporting Year: 2019

03/16/2020

Facility Id:17301Print Date:Facility NameORANGE COUNTY SANITATION DISTRICTFacility Type:WasteWater Treatment - Municipal

Electronic Certification Sheet

Information

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ode:221320AB2588 Receptor DistanceFiling Period:YesWorker (ft): 682M:NoResidential(ft): 1332operating Status:Operatingd As Small Business:NoOperating HoursBrief Description of OperationOperating Hours24ek:7ear:52Mailing InformationFacility Name:COUNTY SANITATION DISTRICT	
M: No Residential(ft): 1332 uperating Status: Operating d As Small Business: No Operating Hours Brief Description of Operation vy; 24 ek: 7 ear: 52 ent Location Address Mailing Information ame: Facility Name:	
A As Small Business: No Brief Description of Operation Operating Hours 24 ek: 7 ear: 52 ent Location Address Mailing Information ame: Facility Name:	
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COUNTY SANITATION DISTRICT ORANGE COUNTY SANITATION	
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LIS AVE 10844 ELLIS AVE	
IN VALLEY, CA 92708 7018 FOUNTAIN VALLEY, CA 92708 7)18
Information	
Randa AbuShaban Phone: 714 856-3424	
Regulatory Specialist Fax:	
rabushaban@ocsd.com	
r Information	
Randa AbuShaban Phone: 714 856-3424	
Regulatory Specialist Fax:	
rabushaban@ocsd.com	
zed Person Information	
zed Person Information	

I declare under penalty of perjury that the data submitted truly represents throughput and emissions for this reporting period, and that the emission factors represent the best available data for my company in the calculation of annual emission figures.

I acknowledge that I have read the South Coast AQMD Certification Statement.*

I agree on the responsibility for this AER Report Submission in accordance with Certification Statement.*



Annual Emission Report

AQMD

Reporting Year: **2019**

Print Date:

03/16/2020

Facility Id:17301Facility NameORANGE COUNTY SANITATION DISTRICTFacility Type:WasteWater Treatment - Municipal

AER Submittal Confirmation

Thank you for submitting your Annual Emissions Report for Facility ID: 17301 on 3/13/2020 5:24:16 PM.

Please print the AER Payment Voucher and include the check for emission fees due if applicable and mail them to the SCAQMD.

AER Payment Voucher and check are first received and processed by Bank of America for check deposits, return receipts for certified mails will be stamped by Bank of America rather than AQMD. Please mail the required AER Payment Voucher and check to the following address:

South Coast Air Quality Management District Annual Emission Reporting Program File No. 54493 Los Angeles, CA 90074-4493

* To avoid late payment surcharges, all mails must be postmarked by the Post Office on or before March 24, 2020

NOTE: For any overnight delivery, example FedEx, please use the following address:

Bank of America Lockbox Services Lockbox LAC-054493 2706 Media Center Drive Los Angeles, CA. 90065

If you wish to use a messenger (or hand deliver), the package should be delivered to the cashier's booth at AQMD Headquarters at the address listed below in Diamond Bar on or before 5:00 p.m. March 24, 2020 Please note that AQMD is closed on Mondays.

South Coast Air Quality Management District ATTN: Finance Cashier Annual Emission Reporting Program 21865 Copley Drive Diamond Bar, CA 91765-4178



Annual Emission Report

South Coast
AQMDAQMDReporting Year:2019Facility Id:29110Print Date:03/16/2020Facility NameORANGE COUNTY SANITATION DISTRICTVasteWater Treatment - MunicipalFacility Type:WasteWater Treatment - MunicipalVasteWater Treatment - Municipal

StatusUpdate

Facility ID	29110
Facility Shutdown Date	N/A
Change of Ownership Date	N/A
Change in Equipment Location Date	N/A
Emissions are zero for this year's report, or emissions reduced by 50%	N/A
Exemption Request	N/A
Use of alternative Calculation methodology	N/A
Other	N/A
Refund Request	N/A



Annual Emission Report

Reporting Year:

2019

Print Date:

03/16/2020

29110 Facility Id:

Facility Name ORANGE COUNTY SANITATION DISTRICT

Facility Type: WasteWater Treatment - Municipal

External Combustion Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Fuel	Fuel Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	со	РМ
ES107		545004	P1	Boiler 10-100	Digester Gas	14.20000		EF	lbs/ mmscf	3.870000		8.020000	3.590000	18.800000	2.690000
				MMBTU/HR	(Biogas)	0		Emissions	lbs	54.95		113.88	50.98	266.96	38.20
ES108		545005	P1	Boiler 10-100	Digester Gas	0.500000	mmscf	EF	lbs/ mmscf	6.930000		12.610000	3.230000	26.410000	3.050000
20100		0-0000		MMBTU/HR	(Biogas)	0.000000	mmoor	Emissions	lbs	3.47		6.31	1.62	13.21	1.53
ES109		545004	P1	Boiler 10-100	Natural	0.700000	mmscf	EF	lbs/ mmscf	5.500000		10.510000	0.600000	5.150000	7.600000
LOTOS		0-000-		MMBTU/HR	Gas	0.700000	mmoor	Emissions	lbs	3.85		7.36	0.42	3.61	5.32
ES110		545005	P1	Boiler 10-100	Natural	0.060000	mmscf	EF	lbs/ mmscf	5.500000		10.510000	0.600000	5.150000	7.600000
LOTIO		0-0000		MMBTU/HR	Gas	0.000000	mmoor	Emissions	lbs	0.33		0.63	0.04	0.31	0.46
ES111		429663	P1	Flare	Digester Gas	3.060000	mmscf	EF	lbs/ mmscf	1.700000		25.800000	0.008000	50.100000	7.500000
					(Biogas)			Emissions	lbs	5.20		78.95	0.02	153.31	22.95

Total Emissions	lbs	67.80		207.12	53.07	437.39	68.45
Total Emissions	tons	0.03	0.00	0.10	0.03	0.22	0.03



Annual Emission Report

Reporting Year:

2019

Print Date:

03/16/2020

29110 Facility Id:

Facility Name ORANGE COUNTY SANITATION DISTRICT

Facility Type: WasteWater Treatment - Municipal

Internal Combustion Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Fuel	Fuel Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	со	РМ
ES97		546364	P1	Stationary I.C. Engines, 4 Stroke-Lean	Digester Gas	187.5400		EF	lbs/ mmscf	1.290000		12.010000	0.013000	12.620000	13.860000
2397		340304	FI	Burn, with Catalyst	(Biogas)	00	mmsci	Emissions	lbs	241.93		2,252.36	2.44	2,366.75	2,599.30
ES98		546365	P1	Stationary I.C. Engines, 4 Stroke-Lean	Digester Gas	257.5400		EF	lbs/ mmscf	1.870000		12.740000	0.280000	29.200000	0.690000
L090		340303	ΓI	Burn, with Catalyst	(Biogas)	00	mmsci	Emissions	lbs	481.60		3,281.06	72.11	7,520.17	177.70
ES99		546366	P1	Stationary I.C. Engines, 4 Stroke-Lean	Digester Gas	1.820000	mmaaf	EF	lbs/ mmscf	7.890000		10.800000	0.018000	5.090000	0.760000
E299		540300	PI	Burn, with Catalyst	(Biogas)	1.820000	mmsci	Emissions	lbs	14.36		19.66	0.03	9.26	1.38
ES100		E 40007	P1	Stationary I.C. Engines, 4 Stroke-Lean	Digester Gas	220.8300		EF	lbs/ mmscf	0.990000		18.580000	0.012000	19.380000	3.420000
ES100		546367	P1	Burn, with Catalyst	(Biogas)	00		Emissions	lbs	218.62		4,103.02	2.65	4,279.69	755.24
50404		540000	54	Stationary I.C. Engines, 4	Digester	15.26000		EF	lbs/ mmscf	1.050000		10.530000	0.010000	14.720000	1.970000
ES101		546368	P1	Stroke-Lean Burn, with Catalyst	Gas (Biogas)	0		Emissions	lbs	16.02		160.69	0.15	224.63	30.06
50/00				Stationary I.C. Engines, 4	Natural			EF	lbs/ mmscf	1.450000		18.030000	0.600000	14.720000	1.970000
ES102		546364	P1	Stroke-Lean Burn, with Catalyst	Gas	9.600000	mmscf	Emissions	lbs	13.92		173.09	5.76	141.31	18.91
ES103		546365	P1	Stationary I.C. Engines, 4 Stroke-Lean	Natural	21.42000	mmoof	EF	lbs/ mmscf	1.450000		18.030000	0.600000	14.720000	1.970000
ES103		040305	ΓI	Stroke-Lean Burn, with Catalyst	Gas	0		Emissions	lbs	31.06		386.20	12.85	315.30	42.20

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Fuel	Fuel Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	со	PM
ES104		546366	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with	Natural Gas	0.200000	mmscf	EF Emissions	lbs/ mmscf lbs	1.450000		18.030000	0.600000	14.720000 2.94	1.970000 0.39
ES105		546367	P1	Catalyst Stationary I.C. Engines, 4 Stroke-Lean Burn, with	Natural Gas	7.140000	mmscf	EF Emissions	lbs/ mmscf	1.450000		18.030000	0.600000	14.720000 105.10	1.970000
ES106		546368	P1	Catalyst Stationary I.C. Engines, 4 Stroke-Lean Burn, with	Natural Gas	15.26000 0	mmscf	EF	lbs/ mmscf	1.450000 22.13		18.030000 275.14	0.600000	14.720000 224.63	1.970000 30.06
ES112		474770	P1	Catalyst Stationary I.C. Engines, 2 Stroke-Lean	Distillate Fuel Oil No. 2	1.780000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
ES113		474769	P1	Burn Stationary I.C. Engines, 2 Stroke-Lean Burn, with	(Diesel) Distillate Fuel Oil No. 2 (Diesel)	1.515000	M gal	Emissions EF Emissions	lbs lbs/ M gal lbs	66.75 37.500000 56.81		834.82 469.000000 710.54	0.37	181.56 102.000000 154.53	59.63 33.500000 50.75
ES114		474768	P1	Catalyst Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.595000	M gal	EF Emissions	lbs/ M gal	37.500000 22.31		469.000000	0.210000	102.000000	33.500000
ES115		474767	P1	Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	1.825000	M gal	EF Emissions	lbs/ M gal lbs	37.500000 68.44		469.000000 855.93	0.210000	102.000000	33.500000 61.14
ES116		474766	P1	Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	1.705000	M gal	EF Emissions	lbs/ M gal lbs	37.500000 63.94		469.000000 799.65	0.210000	102.000000 173.91	33.500000 57.12
ES117		455673	P1	Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.620000	M gal	EF Emissions	lbs/ M gal lbs	37.500000 23.25		469.000000 290.78	0.210000	102.000000 63.24	33.500000 20.77
ES119		455670	P1	Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.815000	M gal	EF Emissions	lbs/ M gal lbs	37.500000 30.56		469.000000 382.24	0.210000	102.000000 83.13	33.500000 27.30
ES120		424369	P1	Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	1.140000	M gal	EF Emissions	lbs/ M gal lbs	37.500000 42.75		469.000000 534.66	0.210000	102.000000 116.28	33.500000 38.19
ES125		455671	P1	Stationary I.C. Engines, 2 Stroke-Lean Burn	Distillate Fuel Oil No. 2 (Diesel)	0.860000	M gal	EF Emissions	lbs/ M gal lbs	37.500000 32.25		469.000000 403.34	0.210000 0.18	102.000000 87.72	33.500000 28.81

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Fuel	Fuel Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	со	РМ
						Total	Emissions		lbs	1,457.34		15,874.55	111.84	16,297.00	4,032.96
						Total	Emissions	1	tons	0.73	0.00	7.94	0.06	8.15	2.02



Annual Emission Report

AQMD

Reporting Year: 2019

Print Date:

03/16/2020

Facility Id: 29110

Facility Name ORANGE COUNTY SANITATION DISTRICT

Facility Type: WasteWater Treatment - Municipal

Other Use of Organics Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Material Activity Code	Material Description	Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	со	РМ		
ES126			P1	Coating (Flow / Dip / Roll / Hand	Others : Adhesive and Sealant Applications : Hand Application : Multipurpose	Adhesives	3.000000	gal	EF Emissions	lbs/ gal	0.080000							
				Application)	Construction Adhesives					lbs	0.24							
ES127			P1	Coating (Flow / Dip / Roll / Hand	Coating : Coating of Metal Parts and Products : Hand	ENAMEL/ EPOXY	43.00000 0	gal	EF	lbs/ gal	2.840000							
2012/				Application)	Application : Air Dried - Repair / Touch Up		0		0 9		Emissions	lbs	122.12					
ES128			P1	Coating (Flow / Dip / Roll / Hand	Coating : Coating of Metal Parts and Products : Hand	Primer	14.60000	aal	EF	lbs/ gal	0.920000							
L3120			ГІ	Application)	Application : Air Dried - Repair / Touch Up		0	gal	Emissions	lbs	13.43							

Total Emissions	lbs	135.79					
Total Emissions	tons	0.07	0.00	0.00	0.00	0.00	0.00



Annual Emission Report

AQMD

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03/16/2020

Facility Id: 29110

Facility Name ORANGE COUNTY SANITATION DISTRICT

Facility Type: WasteWater Treatment - Municipal

Other Process Emissions Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Activity	Throughput	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	со	РМ	Permit Equipment Description
ES96		453240	P1	Miscellaneous Operations and Services : POTW :	73.34000		EF	lbs/ MMgal/day	219.000000						
2030		-00240		Government : Entire Plant	0	ay	Emissions	lbs	16,061.50						

Total Emissions	lbs	16,061.50						
Total Emissions	tons	8.03	0.00	0.00	0.00	0.00	0.00	



Annual Emission Report

Reporting Year:

2019

Print Date:

03/16/2020

29110 Facility Id:

Facility Name **ORANGE COUNTY SANITATION DISTRICT**

Facility Type: WasteWater Treatment - Municipal

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	0.03	0.00	0.10	0.00	0.03	0.00	0.22	0.03
Internal Combustion	0.73	0.00	7.94	0.00	0.06	0.00	8.15	2.02
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	0.00	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	8.03	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
Total Permitted Emissions	8.79	0.00	8.04	0.00	0.09	0.00	8.37	2.05



Annual Emission Report

Reporting Year:

2019

Print Date:

03/16/2020

29110 Facility Id:

Facility Name **ORANGE COUNTY SANITATION DISTRICT**

Facility Type: WasteWater Treatment - Municipal

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.07	0.00	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	0.00
Shutdown/Startup/Turnaround and Upsets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Non-Permitted Emissions	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00



Annual Emission Report

2019 Reporting Year:

29110 Facility Id:

Print Date:

03/16/2020

ORANGE COUNTY SANITATION DISTRICT Facility Name

Facility Type: WasteWater Treatment - Municipal

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

For detailed TAC Records please see related "AER TAC Report" Excel file



Annual Emission Report

Reporting Year:

2019

29110 Facility Id:

Print Date:

03/16/2020

Facility Name ORANGE COUNTY SANITATION DISTRICT

Facility Type: WasteWater Treatment - Municipal

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

For detailed TAC Records please see related "AER TAC Report" Excel file



AQMD

Annual Emission Report

Reporting Year:

2019

\$12,511.17

03/16/2020

Facility Id:29110Print Date:Facility NameORANGE COUNTY SANITATION DISTRICTFacility Type:WasteWater Treatment - Municipal

Total Emissions and Fees

Submittal Date: No later than March 24 2020	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	8.79	0.07		8.86	9.00	\$3,882.30
Specific Organics	0.00	0.00		0.00	0.00	\$0.00
Nitrogen Oxides	8.04	0.00	0.00	8.04	8.00	\$1,892.75
Sulfur Oxides	0.09	0.00	0.00	0.09	0.00	\$0.00
Carbon Monoxide	8.37	0.00		8.37	0.00	\$0.00
Particulate Matter	2.05	0.00		2.05	0.00	\$0.00
1. TOTAL EMISSION F	EES FOR ALL CRIT	ERIA POLLUTANT	S			\$5,775.05
Facility Flat Fee: CPWE Emission Fees: Ammonia & Depleting C Per Device Fees (total d	• • • •		ıkdown		\$78.03 \$3040.00 \$370.04 \$3248.05 \$6736.12	
3. TOTAL FEES DUE						\$12,511.17
4. INSTALLMENTS PAI	D FOR 2019 - (if any	y) All Criteria Poll	utants			\$0.00
5. INSTALLMENTS PAI	D FOR 2019 - (if an	y) Toxic Air Conta	minants/Ozone E	Depleters		\$0.00
6. BALANCE DUE (Line	,					\$12,511.17
7. LATE PAYMENT SU	RCHARGE					\$0.00

8. AMOUNT DUE



AQMD

Annual Emission Report

Reporting Year: 2019

03/16/2020

Facility Id:29110Print Date:Facility NameORANGE COUNTY SANITATION DISTRICTFacility Type:WasteWater Treatment - Municipal

Electronic Certification Sheet

Information

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NAICS co	ode:	221320	AB2588 R	eceptor Distance				
AB2588	Filing Period:	Yes	Worker (ft)): 1100				
RECLAIM:		No	Residentia					
Facility Operating Status:		Operating		()				
Classified As Small Business: I		No	Brief Desc	ription of Operation				
Business	Operating Hours							
Hours/Da	ay;	24						
Days/We	ek:	7						
Weeks/Y	ear:	52						
Equipm	ent Location Addr	ess	Mailing I	nformation				
Facility N	lame:		Facility Name:					
ORANGE	E COUNTY SANITAT	ION DISTRICT	ORANGE COUNTY SANITATION DISTRICT					
22212 BROOKHURST ST			10844 Ellis Avenue					
HUNTINGTON BEACH, CA 92646 8457		2646 8457	Fountain Valley, CA 92708					
Contact	t Information							
Name:	Randa Abushaban		Phone:	714 593-7413 Ext. 7413				
Title:	Regulatory Special	st	Fax:					
E-mail:	rabushaban@ocsd	.com						
Prepare	er Information							
Name:	Randa Abushaban		Phone:	714 593-7413 Ext. 7413				
Title:	Regulatory Specialist		Fax:					
E-mail:	rabushaban@ocsd.cc	m						
Authori	zed Person Inform	ation						
Authori Name:		ation	Phone:	714 593-7413 Ext. 7413				
	zed Person Inform	ation	Phone: Fax:	714 593-7413 Ext. 7413				

I declare under penalty of perjury that the data submitted truly represents throughput and emissions for this reporting period, and that the emission factors represent the best available data for my company in the calculation of annual emission figures.

I acknowledge that I have read the South Coast AQMD Certification Statement.*

I agree on the responsibility for this AER Report Submission in accordance with Certification Statement.*



Annual Emission Report

AQMD

Reporting Year: 2019

Print Date:

03/16/2020

Facility Id:29110Facility NameORANGE COUNTY SANITATION DISTRICTFacility Type:WasteWater Treatment - Municipal

AER Submittal Confirmation

Thank you for submitting your Annual Emissions Report for Facility ID: 29110 on 3/13/2020 5:29:04 PM.

Please print the AER Payment Voucher and include the check for emission fees due if applicable and mail them to the SCAQMD.

AER Payment Voucher and check are first received and processed by Bank of America for check deposits, return receipts for certified mails will be stamped by Bank of America rather than AQMD. Please mail the required AER Payment Voucher and check to the following address:

South Coast Air Quality Management District Annual Emission Reporting Program File No. 54493 Los Angeles, CA 90074-4493

* To avoid late payment surcharges, all mails must be postmarked by the Post Office on or before March 24, 2020

NOTE: For any overnight delivery, example FedEx, please use the following address:

Bank of America Lockbox Services Lockbox LAC-054493 2706 Media Center Drive Los Angeles, CA. 90065

If you wish to use a messenger (or hand deliver), the package should be delivered to the cashier's booth at AQMD Headquarters at the address listed below in Diamond Bar on or before 5:00 p.m. March 24, 2020 Please note that AQMD is closed on Mondays.

South Coast Air Quality Management District ATTN: Finance Cashier Annual Emission Reporting Program 21865 Copley Drive Diamond Bar, CA 91765-4178