



## Biosolids Monthly Compliance Report

**Facility Name:** Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach, CA

**Monitoring Period:** May 1- 31, 2019

This notice and necessary information demonstrates compliance with requirements of the Code of Federal Regulations Title 40 Part 503 and the Arizona Administrative Code Title 18, Chapter 9, Article 10 for land application pollutant concentrations, Class B pathogen reduction via anaerobic digestion (40CFR 503.32(b)(3)(A)(3), AAC R18-9-1006(E)(5)), and vector attraction reduction via volatile solids reduction (40CFR 503.33(b)(1), AAC R18-9-1010(A)(1)).

**Sampling date(s):** 05/21/19, 05/22/19 (Plant 2), 05/28/19

	Mercury (mg/kg dry)	Arsenic (mg/kg dry)	Cadmium (mg/kg dry)	Chromium (mg/kg dry)	Copper (mg/kg dry)	Lead (mg/kg dry)	Molybdenum (mg/kg dry)	Nickel (mg/kg dry)	Selenium (mg/kg dry)	Zinc (mg/kg dry)	Ammonia Nitrogen (mg/kg dry)	Organic Nitrogen (mg/kg dry)	Total Nitrogen (mg/kg dry)	pH	Total Solids (%)	VSR (%)
<b>Plant 1 Max/Min<sup>1</sup></b>	0.83	7.7 DNQ	1.2 DNQ	30	370	11	14	23	<2.5	540	12,000	49,000	60,000	7.7	22	68 <sup>2</sup>
<b>Plant 1 Avg</b>	0.83	7.3 DNQ	1.2 DNQ	29	360	9.9	13	23	<2.5	520	12,000	47,000	59,000		22	
<b>Plant 2 Max/Min<sup>1</sup></b>	0.73	12 DNQ	9.0	36	430	12	18	32	<2.4	630	12,000	40,000	52,000	7.9	20	41
<b>Plant 2 Avg</b>	0.67	9.4 DNQ	6.7	32	340	10	15	29	<2.4	500	9,700	35,000	45,000		26	
<b>Table 1 (Max/Min)<sup>1</sup></b>	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
<b>Table 3 (Avg)</b>	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OCSD Plant 1	System Summary	Dig. 7	Dig. 8	Dig. 9	Dig. 10	Dig. 11	Dig. 12	Dig. 13	Dig. 14	Dig. 15	Dig. 16
<b>Minimum Mean Cell Residence Time (Min 15 days)<sup>3,4</sup></b>	23	24	Out of Service	23	23	24	24	24	24	23	23
<b>Minimum Temperature (Min 95 °F)</b>	97	98	Out of Service	98	97	98	98	98	98	98	97

OCSD Plant 2	System Summary	Dig. C	Dig. D	Dig. E	Dig. F	Dig. G	Dig. H	Dig. I	Dig. J	Dig. L	Dig. M	Dig. N	Dig. O	Dig. P	Dig. Q	Dig. R	Dig. S	Dig. T
<b>Minimum Mean Cell Residence Time (Min 15 days)<sup>3</sup></b>	21	22	22	21	Out of Service	21	21	21	Out of Service	22	22	Out of Service	21	Out of Service	21	21	22	21
<b>Minimum Temperature (Min 95 °F)</b>	98	99	99	100	Out of Service	100	98	100	Out of Service	99	100	Out of Service	99	Out of Service	98	102	100	99

DNQ (Detected, Not Quantified) represents estimated values above the method detection limit (MDL), but below the reporting limit (RL).

<sup>1</sup> Maximum values are reported for metals and nitrogen parameters; minimum values are reported for pH, volatile solids reduction (VSR) and total solids. Analysis of pH is conducted to comply with AAC R18-9-1007(A)(1). The limit for total solids applies only if biosolids are sent to a California landfill, per CCR Title 27 Section 20220(c)(3).

<sup>2</sup> The Plant No. 1 May primary volatile solids samples were not collected. Based on worst-case, unofficial process data, OCSD did not drop below the 38% minimum compliance level for the reduction in volatile solids content.

<sup>3</sup> MCRT based on a 15-Day Rolling Average.



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<sup>4</sup> Plant No. 1's new centrifuge thickened sludge (CTS) facility commissioning process has resulted in higher detention times. In addition, flowmeter variations that were discovered at the end of May and resolved in June did not cause OCSD's detention time to drop below the 15-day minimum compliance level for Process to Significantly Reduce Pathogens (PSRP).

## Certifications:

**NPDES permit:** *I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or the persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

**503 Class B:** *I certify, under penalty of law, that the Class B pathogen requirements in 503.32(b) and the vector attraction reduction requirement in 503.33(b)(1) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the pathogen requirements and vector attraction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.*

**Arizona Class B:** *I certify, under penalty of law, that the pollutant analyses and the description of pathogen treatment and vector attraction reduction activities have been made under my direction and supervision and under a system designed to ensure that qualified personnel properly gather and evaluate the information used to determine whether the applicable biosolids requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.*

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# 2019-05\_Biosolids\_Compliance\_Report

Final Audit Report

2019-08-27

Created:	2019-08-20
By:	Cindy Vellucci (cvellucci@ocsd.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAfnoDvkVss3bjEWAAtvgAhHs0XA0PE5ZI

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2019-08-20 - 4:04:59 PM GMT- IP address: 206.169.97.226
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