



Biosolids Notice and Necessary Information

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

Monitoring Period: March 1- 31, 2016

Pollutant and Nitrogen concentrations (reported results may be averages on 100% dry weight basis).

Sampling date(s): 03/02/2016,03/09/2016

	As (mg/kg)	Cd (mg/kg)	Cu (mg/kg)	Pb (mg/kg)	Hg (mg/kg)	Mo (mg/kg)	Ni (mg/kg)	Se (mg/kg)	Zn (mg/kg)	Org-N (mg/kg)	Ammonia (mg/kg)	Cr (mg/kg)	% solids
Result Plant 1	8.3	2.4	450	<11	0.60	12	31	9.1	560	61,000	6,200	72	18
Result Plant 2	8.7	3.1	490	12	0.85	14	33	8.4	730	45,000	5,300	60	22
Table 3	41	39	1,500	300	17	N/A	420	100	2,800	N/A	N/A	N/A	N/A
Table 1	75	85	4,300	840	57	75	420	100	7,500	N/A	N/A	3,000	N/A

Class B Pathogen Reduction

Class B pathogen reduction requirements from 40 CFR part 503 and Arizona Administrative Code R18-9-1006 (E) have been met via anaerobic digestion under the following parameters:

	Mean Residence Time (days)		Mean minimum Temperature (°F) (All digesters)
	Min	Max	
Plant 1	17	20	97 - 98
Plant 2	20	22	98 - 100

Vector Attraction Reduction

The vector attraction reduction requirements of 40 CFR part 503 and Arizona Administrative Code R18-9-1010 (A) have been met using data (may be averages) analyzed by an Arizona certified laboratory to comply with Option 1.

	% Volatile Solids		
	In	Out	Reduction
Plant 1	3.6	1.4	61
Plant 2	3.8	1.5	62

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.*

7/5/2016

7/12/2016

7/12/2016

X

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Biosolids Notice and Necessary Information – Addendum

Individual Digester Mean Cell Residence Times and Minimum Temperatures

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

Monitoring Period: March 1- 31, 2016

OCSD Plant 1

	Dig. 7	Dig. 8	Dig. 9	Dig. 10	Dig. 11	Dig. 12	Dig. 13	Dig. 14	Dig. 15	Dig. 16
Minimum Mean Cell Residence Time (days)*	16	17	17	17		16	17	17	242***	
Minimum Temperature (°F)	97	97	97	98		97	98	97	98	

Shaded box represents Digester is Out of Service.

*MCRT based on a 15-Day Rolling Average.

OCSD Plant 2

	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
Minimum Mean Cell Residence Time (days)*	20	20	20	20	20	20	20		20		20	20	20		20	20	20
Minimum Temperature (°F)	99	99	99	98	100	98	100		99		99	99	99		100	99	99

Shaded box represents Digester is Out of Service.

*MCRT based on a 15-Day Rolling Average.

** In March 2016, an error was discovered with the primary sludge flow meters at Plant 1 that had the potential to affect digester mean cell residence time when the flow exceeded a certain volume. The error is believed to have started in May 2012. Corrective actions have been implemented and primary flow values and digester detention times have been recalculated for all affected days in 2016. Per the calculations, compliance was maintained at all times thus far in 2016.

*** Following cleaning and rehabilitation, digester 15 was filled with digested sludge and then placed in service on March 28, 2016.