



## 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:** February 1- 28, 2018

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):** 02/20/18, 02/27/18

|                               | Mercury<br>(mg/kg dry) | Arsenic<br>(mg/kg dry) | Cadmium<br>(mg/kg dry) | Chromium<br>(mg/kg dry) | Copper<br>(mg/kg dry) | Lead<br>(mg/kg dry) | Molybdenum<br>(mg/kg dry) | Nickel<br>(mg/kg dry) | Selenium<br>(mg/kg dry) | Zinc<br>(mg/kg dry) | Ammonia<br>Nitrogen<br>(mg/kg dry) | Organic<br>Nitrogen<br>(mg/kg dry) | Total<br>Nitrogen<br>(mg/kg dry) | pH  | Total<br>Solids<br>(%) | VSR<br>(%) |
|-------------------------------|------------------------|------------------------|------------------------|-------------------------|-----------------------|---------------------|---------------------------|-----------------------|-------------------------|---------------------|------------------------------------|------------------------------------|----------------------------------|-----|------------------------|------------|
| <b>Plant 1<br/>Max/Min*</b>   | 1.0                    | 14 DNQ                 | 3.9                    | 39                      | 510                   | 14                  | 16                        | 39                    | <3.3                    | 620                 | 6,700                              | 56,000                             | 63,000                           | 7.8 | 17                     | 55         |
| <b>Plant 1 Avg</b>            | 0.89                   | 12 DNQ                 | 3.4                    | 37                      | 480                   | 13                  | 15                        | 37                    | <3.3                    | 620                 | 6,500                              | 55,000                             | 61,000                           |     | 18                     |            |
| <b>Plant 2<br/>Max/Min*</b>   | 0.96                   | 13 DNQ                 | 7.7                    | 59                      | 510                   | 16                  | 16                        | 38                    | <2.9                    | 770                 | 6,300                              | 58,000                             | 63,000                           | 8.0 | 19                     | 48         |
| <b>Plant 2 Avg</b>            | 0.79                   | 13 DNQ                 | 7.3                    | 54                      | 510                   | 16                  | 16                        | 38                    | <2.9                    | 750                 | 5,900                              | 50,000                             | 56,000                           |     | 20                     |            |
| <b>Table 1<br/>(Max/Min)*</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        |

| <b>OCSD Plant 1</b>   | <b>System<br/>Summary</b> | <b>Dig. 7</b>     | <b>Dig. 8</b>     | <b>Dig. 9</b> | <b>Dig. 10</b> | <b>Dig. 11</b> | <b>Dig. 12</b> | <b>Dig. 13</b> | <b>Dig. 14</b> | <b>Dig. 15</b> | <b>Dig. 16</b> |
|---|---------------------------|-------------------|-------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Minimum Mean Cell<br/>Residence Time<br/>(Min 15 days)**</b> | 22                        | Out of<br>Service | Out of<br>Service | 21            | 21             | 22             | 22             | 22             | 22             | 22             | 22             |
| <b>Minimum<br/>Temperature<br/>(Min 95 °F)</b>                  | 97                        | Out of<br>Service | Out of<br>Service | 98            | 98             | 97             | 97             | 98             | 97             | 98             | 98             |

| <b>OCSD Plant 2</b>   | <b>System<br/>Summary</b> | <b>Dig. C</b>     | <b>Dig. D</b> | <b>Dig. E</b>     | <b>Dig. F</b> | <b>Dig. G</b> | <b>Dig. H</b>     | <b>Dig. I</b> | <b>Dig. J</b> | <b>Dig. L</b>     | <b>Dig. M</b> | <b>Dig. N</b> | <b>Dig. O</b> | <b>Dig. P</b> | <b>Dig. Q</b> | <b>Dig. R</b> | <b>Dig. S</b> | <b>Dig. T</b> |
|---|---------------------------|-------------------|---------------|-------------------|---------------|---------------|-------------------|---------------|---------------|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Minimum Mean Cell<br/>Residence Time<br/>(Min 15 days)**</b> | 21                        | Out of<br>Service | 22            | Out of<br>Service | 21            | 21            | Out of<br>Service | 20            | 21            | Out of<br>Service | 22            | 21            | 21            | 21            | 21            | 21            | 21            | 22            |
| <b>Minimum<br/>Temperature<br/>(Min 95 °F)</b>                  | 96                        | Out of<br>Service | 96            | Out of<br>Service | 96            | 96            | Out of<br>Service | 100           | 100           | Out of<br>Service | 98            | 98            | 97            | 98            | 100           | 98            | 98            | 96            |



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

\* 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).

\*\* MCRT based on a 15-Day Rolling Average.

### 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.*

Operations Manager

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### Reviewers:

Cindy Vellucci (May 1, 2018)

Deirdre Bingman (May 1, 2018)

Margil Jimenez (May 4, 2018)











# 2018-02\_Biosolids\_Compliance\_Report


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