Orange County Sanitation District

BIOSOLIDS MANAGEMENT COMPLIANCE REPORT

EPA 40 CFR Part 503

2024

OCSAN
ORANGE COUNTY SANITATION DISTRICT

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List of Abbreviations

Acronym or abbreviation	Full phrase
ADEQ	Arizona Department of Environmental Quality
CDX	Central Data Exchange
CCR	California Code of Regulations
CVRWQCB	Central Valley Regional Water Quality Control Board
EPA	United States Environmental Protection Agency
LEA	Local Enforcement Agency
LIMS	Laboratory Information Management Systems
MCRTs	Mean cell residence times
MGD	Million gallons per day
NOV	Notice of violation
NPDES	National Pollutant Discharge Elimination System
OC San	Orange County Sanitation District
OCWR	Orange County Waste and Recycling
QA/QC	Quality assurance and quality control
RCRA	Resource Conservation and Recovery Act
SARWQCB	Santa Ana Regional Water Quality Control Board

Glossary

Term	Definition
40 CFR Part 503	The Code of Federal Regulations Title 40 Part 503, established by the EPA, outlines the requirements and management practices for the use and disposal of sewage sludge (biosolids).
Activated Sludge Process	A secondary biological wastewater treatment process where bacteria reproduce at a high rate with the introduction of excess air or oxygen and consume dissolved nutrients in the wastewater.
Anaerobic Digestion	The biochemical decomposition of organic matter in biosolids into methane gas and carbon dioxide by microorganisms in the absence of air.
Biogas	A gas that is produced by the action of anaerobic bacteria on organic waste matter in a digester tank that can be used as a fuel.
Biosolids	Biosolids are nutrient rich organic and highly treated solid materials produced by the wastewater treatment process. This high-quality product can be recycled as a soil amendment on farmland or further processed as an earth-like product for commercial and home gardens to improve and maintain fertile soil and stimulate plant growth
Coliform Bacteria	A group of bacteria found in the intestines of humans and other animals, but also occasionally found elsewhere, used as indicators of sewage pollution. E. coli are the most common bacteria in wastewater.
Collection System	In wastewater, it is the system of typically underground pipes that receive and convey sanitary wastewater or storm water.
Dry-weight basis	the weight of biosolids calculated after the material has been dried at 105° C until reaching a constant mass.

Term	Definition
Publicly Owned Treatment Works (POTW)	A municipal wastewater treatment plant.
Pretreatment	The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in Wastewater to a level authorized by OC San prior to, or in lieu of, discharge of the Wastewater into v's Sewerage System. The reduction or alteration can be obtained by physical, chemical or biological processes, by process changes, or by other means.
Pretreatment Program	A program administered by a POTW that meets the criteria established in 40 CFR 403.8 and 403.9 and which has been approved by a Regional Administrator or State Director in accordance with 40 CFR 403.11.
Secondary Treatment	Biological wastewater treatment, particularly the activated sludge process, where bacteria and other microorganisms consume dissolved nutrients in wastewater.
Sewerage System	Any and all facilities used for collecting, conveying, pumping, treating, and disposing of Wastewater or sludge or biosolids.
Sludge	Untreated solid material created by the treatment of wastewater.
Total Suspended Solids (TSS)	The amount of solids floating and in suspension in wastewater.
Trickling Filter	A biological secondary treatment process in which bacteria and other microorganisms, growing as slime on the surface of rocks or plastic media, consume nutrients in wastewater as it trickles over them.
Total Toxic Organics	The summation of all quantifiable values greater than 0.01 milligrams per liter for the organics regulated by the EPA or OC San for a specific industrial category.
Wastewater	Any water that enters the sanitary sewer.
Watershed	A land area from which water drains to a particular water body. OC San’s service area is in the Santa Ana River Watershed.

Section 1. Introduction

OC San is a public agency that provides wastewater collection, treatment, and recycling services for approximately 2.6 million people in central and northwest Orange County, California. OC San is a special district that is governed by a Board of Directors consisting of 25 board members appointed from 20 cities, two sanitary districts, two water districts, and one representative from the Orange County Board of Supervisors. OC San has two operating facilities, Reclamation Plant No. 1 located in the city of Fountain Valley and Reclamation Plant No. 2 located in the city of Huntington Beach, that treat wastewater from residential, commercial, and industrial sources.

The 2024 OC San Biosolids Annual Report (Annual Report) is in accordance with OC San's National Pollutant Discharge Elimination System (NPDES) permit, Arizona Administrative Code (AAC) Title 18, Ch. 9, Article 10 (R18-9), and Code of Federal Regulations Title 40 Part 503 (40 CFR 503). The Annual Report provides information on OC San's biosolids management program including, but not limited to, the compliance status, biosolids generation, operational parameters, management practices, summary of regulatory constituents, hazardousness determination, and other aspects of the biosolids management program.

Biosolids Program Summary

Regulatory Compliance

For this annual reporting period, OC San's biosolids had no violations and met the regulatory standards and/or criteria outlined in OC San's NPDES permit, AAC R18-9, and 40 CFR 503.

Biosolids Production

During 2024, both Reclamation Plant No. 1 and Reclamation Plant No. 2 produced a combined total of 185,192 wet tons of biosolids (43,116 dry metric tons), averaging 25% and 27% total solids for each facility, respectively. This equates to an average of 506 wet tons per day of biosolids including digester cleaning materials, which were managed in compliance with "Class B" biosolids management practices and were 99.9% recycled.

Control of Pollutants

Since FY 1976/77, the pretreatment program has been successful in reducing the average daily pounds of metals (described below) entering OC San's system by 90% and metals discharged to the marine environment by 99%. Over this time, individual effluent metals including cadmium, chromium, copper, silver, and lead have been reduced by greater than 99%, nickel by 96%, and zinc by 96% from historical levels.

Determination of Hazardousness

During this reporting period, OC San's biosolids pollutant concentrations were well below the state and federal maximum contaminant concentrations for being determined as hazardous waste.

Contractor Oversight Program

OC San performed five contractor site and 18 hauling inspections during 2024. There was also one notice of violation (NOVs) issued to a biosolids contractor by the Central Valley Regional Water Quality Control Board (CVRWQCB).

Section 2. Biosolids Regulatory Requirements

OC San treats and manages its biosolids in accordance with OC San's National Pollution Discharge Elimination System (NPDES) Permit, Arizona Administrative Code Title 18, Ch. 9, Article 10 (R18-9), and United States Environmental Protection Agency (EPA) Code of Federal Regulations (CFR) Title 40 Part 503.

This annual compliance report summarizes OC San's biosolids management activities and compliance data for the reporting period of January 1 to December 31, 2024.

2.1 NPDES Permit Requirements

This section is a summary of the biosolids program requirements contained in OC San's NPDES Permit No. CA0110604 Order No. R8-2021-0010 (Permit), effective August 1, 2021, jointly issued by the Santa Ana Regional Water Quality Control Board (SARWQCB) and EPA (Region IX). The requirements for the biosolids program are listed in Sections VI and VII of the Permit, as well as Attachment E and Attachment G. The requirements are shown below, using the corresponding numeration found in the Permit. Each requirement is followed by a summary of the activity that has resulted in OC San's compliance with Permit requirements, or a reference may be given where additional information can be found in this annual report

Section VI. Provisions, A. Standard Provisions, 4f.

> *Collected screenings, sludge, and other solids removed from liquid wastes shall be managed in accordance with federal, state, and local regulations (see Attachment G – Biosolids).*

OC San has an ongoing commitment to meet the provisions of this requirement, and all biosolids requirements are enforced as discussed throughout this report.

Section VII. Provisions, C. Special Provisions, 6. Special Provisions for Publicly Owned Treatment Works (POTWs), b. Biosolids

> *The Discharger shall manage its sludge and biosolids in accordance with federal regulations (40 CFR § 257, 258, and 503) and the requirements specified in Attachment G of this Order/Permit.*

OC San is dedicated to fulfilling this regulatory requirement and adherence to all biosolids requirements is stated throughout the report.

Attachment E – Monitoring and Reporting Program (MRP), XII. Reporting Requirements, D. Other Reports, 2. Biosolids Report

> *By February 19th of each year, the Discharger shall submit an annual biosolids report into USEPA's CDX electronic reporting system, with an electronic copy to the Santa Ana Water Board by email at santaana@waterboards.ca.gov, for the period covering the previous calendar year (January 1 through December 31). The annual reports shall contain, but not be limited to, the information required in the attached Biosolids Reporting Requirements (Attachment G), or an approved revised version thereof. If the Discharger is not in compliance with any conditions or requirements of this Order/Permit, the Discharger shall include the reasons for noncompliance and shall state how and when the Discharger will comply with such conditions and requirements.*

OC San was in full compliance with all conditions and requirements of the Permit. OC San has an ongoing commitment to meet the provisions of this requirement as provided in this annual report. Appendix D contains the submitted EPA CDX electronic report plus this entire report is emailed to the SARWQCB and EPA regulators.

Attachment G – Biosolids, VI. Reporting Requirements, A.

> *The report shall include the tonnages of biosolids (reported in dry metric tons, 100% dry weight), that were land applied (without further treatment by another party), land applied after*

further treatment by another preparer, disposed in a sludge-only surface disposal site, sent to a landfill for alternative cover or fill, stored on site or off site, or used for another purpose." (NPDES Permit, Attachment G, Sect. VI.A)

The land-applied biosolids tonnage information is contained in Section 4, Table 2 (Biosolids Managed Tonnage Distribution), and Appendix D (EPA Biosolids Annual Report Electronic Forms) of this annual report.

Attachment G – Biosolids, VI. Reporting Requirements, A.1.

Monitoring results from laboratories (results only, QA/QC pages not required). Copies of original lab reports must be available upon request and confirm the results are on a 100% dry weight basis. Lab reports for fecal coliforms must show the time the samples were collected, and the time analysis was started.

Laboratory reports are available on OC San's Laboratory Information Management Systems (LIMS) internal network.

Attachment G – Biosolids, VI. Reporting Requirements, A.2.

If operational parameters were used to demonstrate compliance with pathogen reduction and vector attraction reduction, the minimum mean of these parameters for each sampling period (i.e., minimum mean cell residence times (MCRTs) and temperatures).

The operational parameters used are contained in the Biosolids Monthly Compliance Reports (Appendix A) of this annual report.

Attachment G – Biosolids, VI. Reporting Requirements, A.3.

If biosolids are stored on-site or off-site for more than 2 years, the information required in 40 CFR § 503.20(b) to demonstrate that the storage is temporary.

This requirement is not applicable to OC San since no biosolids are either stored on-site or off-site.

Attachment G – Biosolids, VI. Reporting Requirements, B.

If biosolids were land applied, the Discharger shall have the person applying the biosolids submit a pdf report to USEPA and State agency showing the name of each field; location, ownership, size in acres; the dates of applications, seedings, harvesting; the tonnage applied to field, in actual and dry weight; the calculated Plant Available Nitrogen; and copies of applier's certifications of management practices and site restrictions.

OC San's contractor, Tule Ranch/Ag-Tech, is required to independently submit biosolids management information to EPA and ADEQ regulators.

2.2 Arizona Administrative Code Title 18 Requirements

R18-9-1014 – Reporting, A-D.

A person who prepares biosolids for application shall provide the applicator with the necessary information to comply with this Article including the concentration of pollutants listed in R18-9-1005 and the concentration of nitrogen in the biosolids.

A transporter shall report spills to the Department under R18- 9-1011(D).

A bulk applicator of biosolids other than exceptional quality biosolids shall provide the land owner and lessee of land application sites with information on the concentrations of the pollutants listed in R18-9-1005 and loading rates of biosolids applied to that site, and any applicable site restrictions under R18-9-1009.

A bulk applicator of biosolids other than exceptional quality biosolids shall report to the Department if 90% or more of any cumulative pollutant loading rate has been used at a site.

OC San works closely with the transporters and management facilities to ensure that exceptional quality biosolids are produced and that information regarding the concentrations of pollutants listed in R18-9-1005 are provided. In addition, OC San verifies that any violations and/or reports of spills are provided to the ADEQ.

R18-9-1014 – Reporting, F-G.

> *On or before February 19 of each year, a person preparing biosolids in a Class I Sludge Management Facility, POTW with a design flow rate equal to or greater than one million gallons per day, or POTW that serves 10,000 people or more, that are applied to land, shall, by letter or on a form provided by the Department, report to the Department all the following applicable information regarding their activities during the previous calendar year: 1. The amount of biosolids received if the preparer purchased or received the biosolids from another preparer or source; 2. The amount of biosolids produced (tons or kilograms); 3. The amount of biosolids distributed; 4. The concentrations of the pollutants listed in R18-9-1005 (in milligrams per kilogram of biosolids on a dry-weight basis); 5. The pathogen treatment methodologies used during the year, including the results; and 6. The vector attraction reduction methodologies used during the year, including the results.*
>
> *All annual self-monitoring reports shall contain the following certification statement signed by a responsible official: "I certify, under penalty of law, that the information and descriptions, 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."*

OC San was in full compliance with all conditions and requirements of the Arizona Administrative Code Title 18 Requirements. OC San has an ongoing commitment to meet the provisions of this requirement as provided in this annual report. Appendix E contains the ADEQ Biosolids or Sewage Sludge Annual Report Form, which includes the certification statement above, plus this entire report is emailed to the ADEQ regulators.

2.3 40 CFR Part 503 Requirements

§ 503.18 – Reporting

> *Class I sludge management facilities, POTWs (as defined in § 501.2 of this chapter) with a design flow rate equal to or greater than one million gallons per day, and POTWs that serve 10,000 people or more shall submit a report on February 19 of each year. As of December 21, 2016, all reports submitted in compliance with this section must be submitted electronically by the operator to EPA when the Regional Administrator is the Director in compliance with this section and 40 CFR part 3 (including, in all cases, subpart D to part 3), 40 CFR 122.22, and 40 CFR part 127. Otherwise, as of December 21, 2025, or an EPA-approved alternative date (*see *40 CFR 127.24(e) or (f)), all reports submitted in compliance with this section must be submitted electronically in compliance with this section and 40 CFR part 3 (including, in all cases, subpart D to 40 CFR part 3), 40 CFR 122.22, and 40 CFR part 127. 40 CFR part 127 is not intended to undo existing requirements for electronic reporting. Prior to the compliance deadlines for electronic reporting (*see *Table 1 in 40 CFR 127.16), the Director may also require operators to electronically submit annual reports under this section if required to do so by State law.*

OC San was in full compliance with all conditions and requirements of 40 CFR Part 503 requirements. OC San has an ongoing commitment to meet the provisions of this requirement as provided in this annual report. Appendix D contains the submitted EPA CDX electronic report plus this entire report is emailed to the EPA regulators.

Section 3. Biosolids Production

During the 2024 annual reporting period, Reclamation Plant No. 1 treated an average of 113 MGD of wastewater and Reclamation Plant No. 2 treated an average of 79 MGD, producing a combined total of 185,192 wet tons of biosolids (43,116 dry metric tons), which equates to an average of 506 wet tons per day of biosolids including digester cleanings managed in compliance with "Class B" biosolids management practices as defined in 40 CFR Part 503.

Dewatered biosolids averaged 25% total solids at Plant No. 1 and 27% total solids at Plant No. 2. Detailed data, including monthly averages, annual totals, and analytical results can be viewed in Figure 1 and Table 2 below, as well as in Appendices A, B, C, and D.

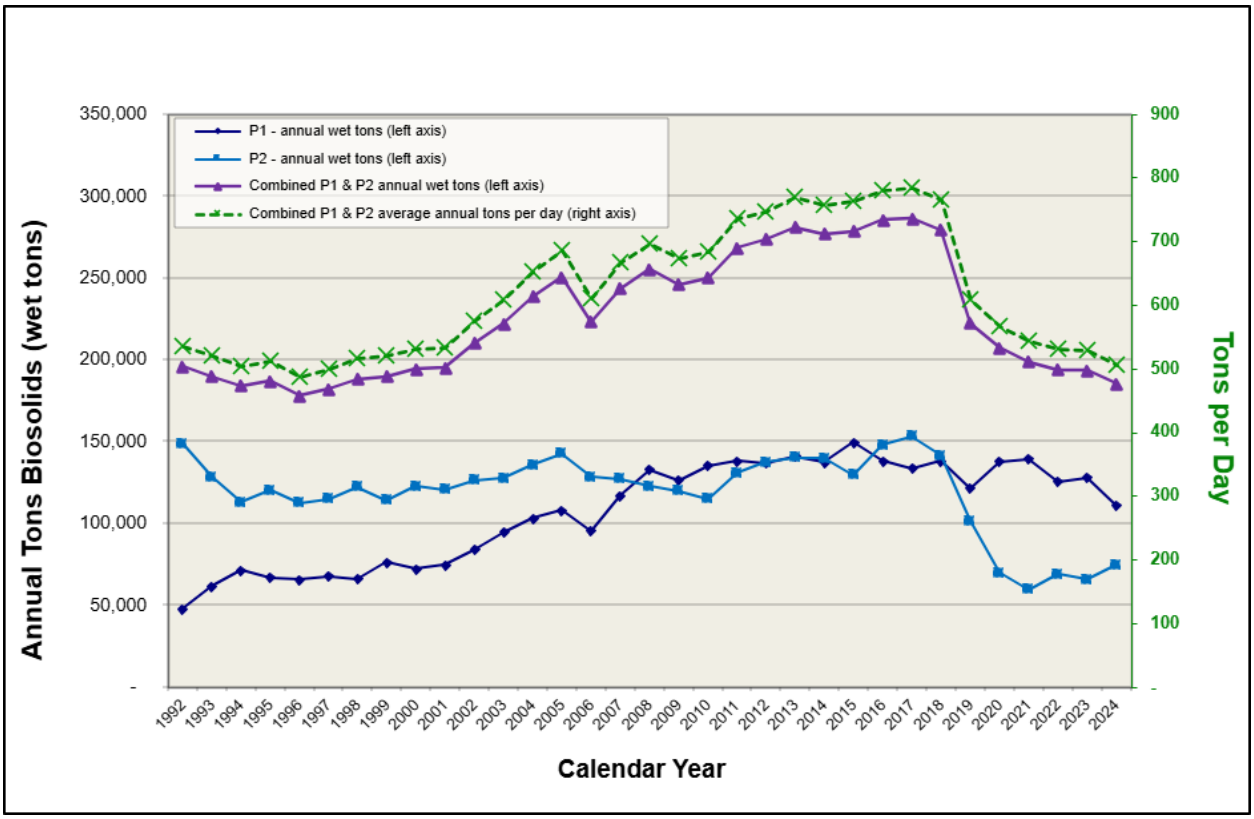

Figure 1 - Biosolids Production History January 1992 – December 2024 (not including digester cleanings

For this annual reporting period, OC San's biosolids met the following regulatory standards and/or criteria:

- OC San's biosolids were digested for at least 15 days at a minimum of 95 degrees Fahrenheit, with a volatile solids destruction of at least 38%.
- OC San's anaerobically digested biosolids met compliance with the "Class B Pathogen Reduction" and "Vector Attraction Reduction" definition for "Class B" biosolids as defined in 40 CFR Part 503.32(b)(3) (PSRP 3) and 503.33(b)(1).
- Tule Ranch-AgTech's standard operating procedure includes biosolids incorporation within six (6) hours, which meets 40 CFR Part 503.33(b)(10) requirement for "Vector Attraction Reduction". This added redundancy is critical in the case of rare events when OC San experiences challenges meeting the Vector Attraction Reduction standard at the plants.
- OC San's compost contractors' processes meet Class A standards as defined in 40 CFR Part 503.

Section 4. Biosolids Management

OC San is committed to supporting beneficial reuse of biosolids (OC San Resolution 13-03). During this reporting period, OC San recycled 43,069 dry tons (99.9%) of OC San's biosolids, which included digester cleaning materials. Due to plastic contamination discovered during digester cleaning in August and September 2024, the remaining 47 dry tons (0.1%) of biosolids were sent to a landfill (Holloway). Refer to Figure 2 Distribution Map.

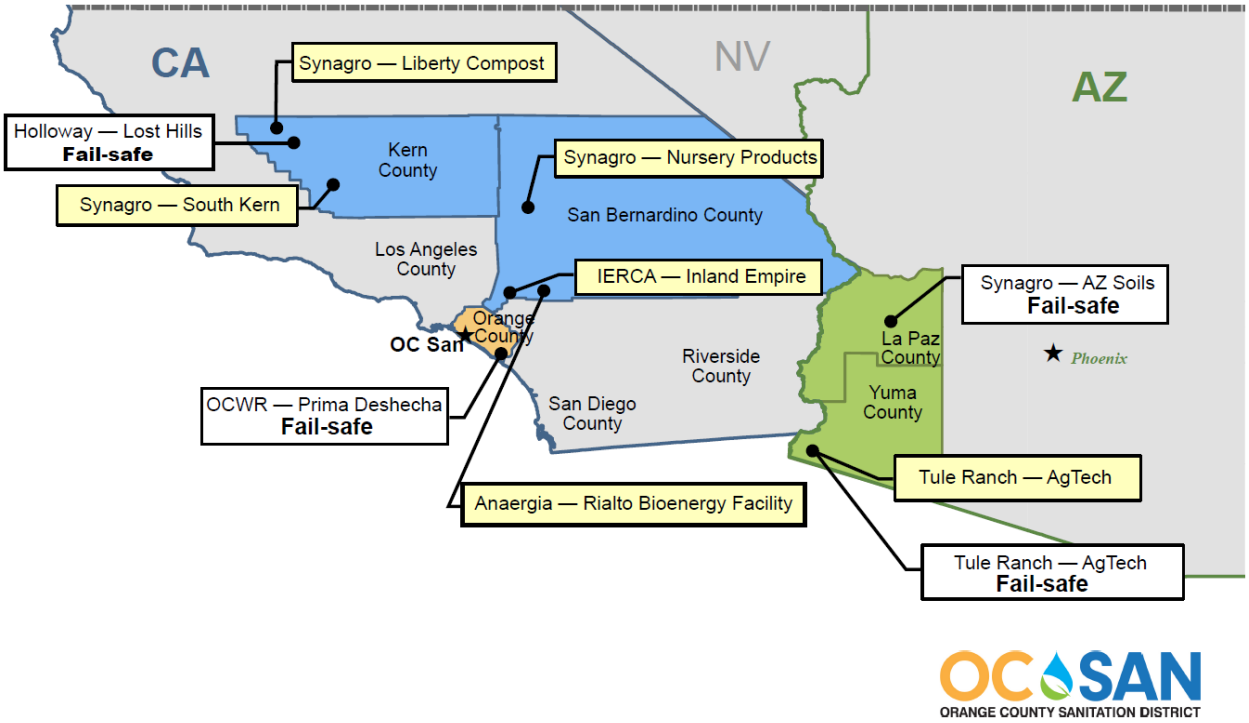

Figure 2 - Orange County Sanitation District Biosolids Allocations by Destination

The contractors listed below in Table 1 have provided OC San with biosolids management diversification and reliability. The contractors submit their annual compliance reports directly to EPA, in accordance with OC San's NPDES permit requirements.

Table 1 - Biosolids Management Contractors

Synagro - Nursery Products PO Box 1439 Helendale, CA 92342 Contact: Venny Vasquez, Manager Phone: (760) 265-5210 Email: vvasquez@synagro.com	**Synagro – South Kern Compost Manufacturing Facility** PO Box 265 Taft, CA 93268 Contact: Rob Rankin, Manager Phone: (661) 765-2200 Email: rrankin@synagro.com
Synagro - Liberty Compost 12421 Holloway Rd. Lost Hills, CA 93249 Contact: Wilson Nolan, Manager Phone: (661) 619-7320 Email: wnolan@synagro.com	**Synagro – Arizona Soils** 5615 S. 91st Avenue Tolleson, AZ 85353 Contact: Brian Millage, Manager Phone: (623) 236-0974 Email: bmillage@synagro.com

Tule Ranch / Ag-Tech 4324 E. Ashlan Ave. Fresno, CA 93726 Contact: Kurt Wyrick, Controller Phone: (559) 970-9432 Email: kurt@westexp.com	**Inland Empire Regional Composting Authority** 12645 6th Street Rancho Cucamonga, CA 91739 Contact: Arin Boughan, Manager Phone: (909) 993-1513 Email: aboughan@ieua.org
Rialto Bioenergy Facility 503 East Santa Ana Avenue, Rialto, CA 92316 Contact: Jim Philipps, Director Sales & Marketing Phone: (415) 463-1333 Email: Jim@SevanaBioenergy.com	**Holloway Environmental** 13850 Holloway Rd, Lost Hills, CA 93249 Contact: Giselle Valdovinos, Business Development Associate, Environmental Phone: (661) 758-6484 Email: giselle.valdovinos@hmholloway.com

For this reporting period, OC San's biosolids were beneficially reused as illustrated in Table 2. More detailed breakdowns are available in Appendices A and D.

Table 2 - Biosolids Managed Tonnage Distribution

Quantity Generated	Plant No. 1	Plant No. 2	Total	Relative %
Tule Ranch AZ (land application) (wet tons)	29,021	53,885	82,906	44.8
Tule Ranch AZ (land application (dry metric tons)	6,445	13,349	19,794	
Synagro - Liberty Compost CA (wet tons)	23,652	7,321	30,973	16.7
Synagro - Liberty Compost CA (dry metric tons)	5,320	1,805	7,125	
Rialto Bioenergy Facility CA – heat drying (wet tons)	0	0	0	0.0
Rialto Bioenergy Facility CA – heat drying (dry metric tons)	0	0	0	
Synagro – Nursery Products CA (compost) (wet tons)	29,918	3,944	33,862	18.3
Synagro – Nursery Products CA (compost) (dry metric tons)	6,665	975	7,640	
Synagro – South Kern – compost (wet tons)	24,933	4,133	29,066	15.7
Synagro – South Kern – compost (dry metric tons)	5,539	1,021	6,560	
Synagro – AZ Soils – compost (wet tons)	0	0	0	0.0
Synagro – AZ Soils – compost (dry metric tons)	0	0	0	
Inland Empire Regional Composting (wet tons)	3,022	5,194	8,215	4.4
Inland Empire Regional Composting (dry metric tons)	640	1,309	1,949	
Holloway Environmental (wet tons)	169	0	169	0.1
Holloway Environmental (dry metric tons)	47	0	47	
Total Wet Tons	**110,715**	**74,4777**	**185,192**	100.0
Total Dry Metric Tons	**24,657**	**18,459**	**42,953**	

Section 5. Control of Pollutants

OC San's Biosolids Monthly Compliance Reports (Appendix A) compare the limits of the pollutants listed in 40 CFR 503 to OC San's biosolids concentrations for each plant. During this reporting period, OC San has met all regulated pollutants limits. The average concentrations of all pollutants in OC San's biosolids are typically an order of magnitude below the conservative "Table 1 Ceiling Limits" and "Table 3 Exceptional Quality Limits" found in 40 CFR Part 503.

Even though Orange County's population has grown, OC San's pretreatment program has been successful in reducing the average mass of metals entering OC San's collection system by 90% and metals discharged to the marine environment by 99% since the program's inception in 1976, thereby ensuring OC San's biosolids can be recycled to farm fields. Appendix B contains the biosolids chapter excerpt from the OC San Pretreatment Program Annual Report, Chapter 8 that includes graphs of metals in OC San's biosolids.

Section 6. Determination of Hazardousness

During this reporting period, OC San's biosolids pollutant concentrations were well below the state and federal maximum contaminant concentrations for being determined as hazardous waste. Reference OC San's biosolids monitoring data in Appendix C - Summary of Biosolids Monitoring Results.

To ensure OC San's biosolids program continues to meet the definition of biosolids per 40 CFR 503, OC San verifies its biosolids are non-hazardous annually. Although OC San does not anticipate its sewage sludge to ever be classified as hazardous, should that highly unlikely scenario occur, the affected biosolids will be managed via 40 CFR 261 and disposed of in accordance with the Resource Conservation and Recovery Act (RCRA). Relevant regulations regarding hazardous waste are also found in the California Code of Regulations (CCR) Title 22.

OC San's biosolids have been determined to be non-hazardous based on the following evaluation:

- OC San's biosolids are not ignitable, corrosive, reactive, nor toxic in accordance with the federal regulatory definitions in 40 CFR Part 261 and CCR Title 22.
- OC San performs annual testing of an extensive list of organic and inorganic compounds to verify the continued non-hazardousness of our biosolids (see Appendix C).
- When the compounds are non-detectable, OC San enters the method detection limit in the evaluation spreadsheet that compares the data to regulatory limits.

Section 7. Biosolids Management System

The following sections highlight OC San's continued commitment to the biosolids management system.

7.1 Communications

OC San has continued transparent communications during this reporting period. OC San posts timely updates including updated OC San resources such as listed below:

- Monthly compliance reports and data (www.ocsan.gov/biosolids),
- Annual compliance reports (www.ocsan.gov/503),
- Biosolids Contractor Requirements document (www.ocsan.gov/bcr), and
- Biosolids allocation map (www.ocsan.gov/map).

7.2 Contractor Oversight Program

OC San enforces a strong contractor oversight program. During this reporting period, OC San conducted the following:

- Performed 18 hauling inspections in 2024.
- Performed five contractor site inspections in 2024.
- Reviewed Local Enforcement Agency (LEA) reports and monthly contractor reports to maintain an ongoing understanding of each contractor compliance status. OC San is not aware of any notices of violation (NOV) issued to the contractors by LEAs.
- A NOV was issued to one biosolids contractors by the CVRWQCB during this annual reporting period. OC San has closely monitored the issue and maintained communications with the contractor during the process to track progress in addressing this NOV, which is actively being addressed:
    - Liberty Compost received an NOV from the CVRWQCB for ponded water between windrows and along interior roadways observed during the annual RWCQB inspection conducted on April 16, 2024. Liberty Compost has met the submittal requirements of the NOV and developed SOPs and continuous workplans to address and maintain the site as required. OC San inspected the site on November 14, 2024 and observed the efforts implemented towards maintaining the site to address these ponding issues.

Environmental Services Department
18480 Bandilier Circle
Fountain Valley, California 92708-7018
714.962.2411

www.ocsan.gov

01/2025

Appendix A. Biosolids Monthly Compliance Reports, January – December 2024

Appendix Table A - 1 OC San Biosolids Wet and Dry Tonnage Distribution, Reclamation Plant No. 1, Foutain Valley, CA

Biosolids Generated	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**Annual Avg**
Biosolids Total Solids (%)	25	24	25	25	26	25	26	24	24	23	24	23	**25**
Management Locations	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**Total**
Tule Ranch AZ – land application (wet tons)	2,398	2,485	2,343	2,560	1,971	2,447	2,551	2,630	2,530	2,403	2,430	2,275	**29,021**
Tule Ranch AZ – land application (dry metric tons)	544	541	531	581	465	555	602	572	551	501	529	475	**6,445**
Synagro - Liberty Compost CA (wet tons)	1,379	1,858	1,734	1,502	505	1,536	1,915	2,135	2,320	2,883	1,904	2,523	**22,196**
Synagro - Liberty Compost CA (dry metric tons)	313	405	393	341	119	348	452	465	505	601	414	526	**4,882**
Rialto Bioenergy Facility CA – heat drying (wet tons)	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Rialto Bioenergy Facility CA – heat drying (dry metric tons)	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Synagro – Nursery Products CA – compost (wet tons)	3,268	3,601	3,494	3,420	2,420	2,128	1,869	1,948	1,798	1,981	1,922	2,070	**29,918**
Synagro – Nursery Products CA – compost (dry metric tons)	741	784	792	775	571	482	441	424	391	413	418	432	**6,665**
Synagro – South Kern – compost (wet tons)	2,461	2,111	1,760	1,808	1,987	1,936	2,284	2,338	2,215	1,898	1,829	2,306	**24,933**
Synagro – South Kern – compost (dry metric tons)	558	460	399	410	469	439	539	509	482	396	398	481	**5,539**
Synagro – AZ Soils – compost (wet tons)	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Synagro – AZ Soils – compost (dry metric tons)	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Inland Empire Regional Composting (wet tons)	24	0	0	0	0	0	0	49	49	1,032	943	925	**3,022**
Inland Empire Regional Composting (dry metric tons)	5	0	0	0	0	0	0	11	11	215	205	193	**640**
Total Wet Tons	**9,530**	**10,055**	**9,330**	**9,290**	**6,883**	**8,047**	**8,619**	**9,100**	**8,911**	**10,198**	**9,027**	**10,098**	**109,089**
Total Dry Metric Tons	**2,161**	**2,189**	**2,116**	**2,107**	**1,623**	**1,825**	**2,033**	**1,981**	**1,940**	**2,127**	**1,965**	**2,107**	**24,172**
Digester Cleanings	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**Total**
Digester(s)	13							5	11				
Digester Cleaning Total Solids Percents	65							31	31				
Holloway, CA (landfill) (wet tons)	0	0	0	0	0	0	0	46	122	0	0	0	**169**
Holloway, CA (landfill) (dry tons)	0	0	0	0	0	0	0	13	34	0	0	0	**47**
Synagro - Liberty Compost (compost) (wet tons)	101	0	0	0	0	0	0	1287	69	0	0	0	**1,457**
Synagro - Liberty Compost (compost) (dry metric tons)	60	0	0	0	0	0	0	358	19	0	0	0	**437**
Digester Cleaning Total Wet Tons	**101**	**0**	**0**	**0**	**0**	**0**	**0**	**1,333**	**191**	**0**	**0**	**0**	**1,625**
Total Dry Metric Tons	**60**	**0**	**0**	**0**	**0**	**0**	**0**	**371**	**54**	**0**	**0**	**0**	**485**
Total Wet Tons (Biosolids plus Digester Cleanings)	**9,632**	**10,055**	**9,330**	**9,290**	**6,883**	**8,047**	**8,619**	**10,432**	**9,103**	**10,198**	**9,027**	**10,098**	**110,715**
Total Dry Metric Tons (Biosolids plus Digester Cleanings)	**2,221**	**2,189**	**2,116**	**2,107**	**1,623**	**1,825**	**2,033**	**2,352**	**1,994**	**2,127**	**1,965**	**2,107**	**24,657**

Appendix Table A - 2 OC San Biosolids Wet and Dry Tonnage Distribution, Wastewater Reclamation Plan No. 2, Huntington Beach, CA

Biosolids Generated	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**Annual Avg**
Biosolids Total Solids (%)	26	29	28	28	27	28	28	28	28	25	27	26	**27**
Management Locations	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**Total**
Tule Ranch AZ – land application (wet tons)	4,315	4,355	4,650	4,587	5,410	4,556	4,568	4,285	3,879	4,943	4,174	4,163	**53,885**
Tule Ranch AZ – land application (dry metric tons)	1,018	1,146	1,181	1,165	1,325	1,157	1,160	1,088	985	1,121	1,022	982	**13,349**
Synagro - Liberty Compost CA (wet tons)	303	176	405	887	1,472	863	536	534	331	759	326	729	**7,321**
Synagro - Liberty Compost CA (dry metric tons)	71	46	103	225	360	219	136	136	84	172	80	172	**1,805**
Rialto Bioenergy Facility CA – heat drying (wet tons)	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Rialto Bioenergy Facility CA – heat drying (dry metric tons)	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Synagro – Nursery Products CA – compost (wet tons)	426	302	705	50	151	202	429	427	200	401	301	349	**3,944**
Synagro – Nursery Products CA – compost (dry metric tons)	100	79	179	13	37	51	109	109	51	91	74	82	**975**
Synagro – South Kern – compost (wet tons)	177	277	251	277	835	354	126	505	328	427	201	375	**4,133**
Synagro – South Kern – compost (dry metric tons)	42	73	64	70	205	90	32	128	83	97	49	88	**1,021**
Synagro – AZ Soils – compost (wet tons)	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Synagro – AZ Soils – compost (dry metric tons)	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Inland Empire Regional Composting (wet tons)	505	481	283	528	556	488	727	824	776	0	0	24	**5,194**
Inland Empire Regional Composting (dry metric tons)	119	126	72	134	136	124	185	209	197	0	0	6	**1,309**
Biosolids Total Wet Tons	**5,727**	**5,591**	**6,294**	**6,330**	**8,424**	**6,463**	**6,387**	**6,576**	**5,514**	**6,530**	**5,002**	**5,640**	**74,477**
Total Dry Metric Tons	**1,350**	**1,471**	**1,598**	**1,608**	**2,063**	**1,641**	**1,622**	**1,670**	**1,400**	**1,481**	**1,225**	**1,330**	**18,459**
Digester Cleanings	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**Total**
Digester(s)													
Digester Cleaning Total Solids Percents													
Synagro - Liberty Compost (compost) (wet tons)	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Synagro - Liberty Compost (compost) (dry metric tons)	0	0	0	0	0	0	0	0	0	0	0	0	**0**
Digester Cleaning Total Wet Tons	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total Dry Metric Tons	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total Wet Tons (Biosolids plus digester cleanings)	**5,727**	**5,591**	**6,294**	**6,330**	**8,424**	**6,463**	**6,387**	**6,576**	**5,514**	**6,530**	**5,002**	**5,640**	**74,477**
Total Dry Metric Tons (Biosolids plus digester cleanings)	**1,350**	**1,471**	**1,598**	**1,608**	**2,063**	**1,641**	**1,622**	**1,670**	**1,400**	**1,481**	**1,225**	**1,330**	**18,459**

ORANGE COUNTY SANITATION DISTRICT

Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: January 1- 31, 2024

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): 01/09/24, 01/16/24 (Plant 1); 01/10/24, 01/17/24 (Plant 2)

	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 (%)
Plant 1 Max/Min*	0.59	7.5 DNQ	4.0	39	380	10	14	63	7.9 DNQ	670	9,500	47,000	56,000	7.9	24	63
Plant 1 Avg	0.56	7.3 DNQ	3.9	37	370	9.8	14	57	7.9 DNQ	670	8,700	47,000	56,000		25	
Plant 2 Max/Min*	0.48	10 DNQ	2.5	50	330	12	20	83	10 DNQ	710	9,200	43,000	52,000	7.9	24	57
Plant 2 Avg	0.44	8.2 DNQ	2.3	41	290	9.9	17	64	7.2 DNQ	600	8,000	43,000	52,000		26	
Table 1 (Max/Min)*	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OC San Plant 1	System Summary	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 (Min 15 days)**	25	26	26	25	25	23	25	Out of Service	Out of Service	26	26
Minimum Temperature (Min 95 °F)	99	100	99	100	100	100	99	Out of Service	Out of Service	100	99

OC San 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
Minimum Mean Cell Residence Time (Min 15 days)**	25	Out of Service	Out of Service	25	Out of Service	25	25	Out of Service	Out of Service	25	25	25	25	Out of Service	25	Out of Service	25	25
Minimum Temperature (Min 95 °F)	97	Out of Service	Out of Service	98	Out of Service	98	99	Out of Service	Out of Service	99	99	98	97	Out of Service	99	Out of Service	99	98

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.

Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: January 1- 31, 2024

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.*

Jon Bradley

Jon O. Bradley
Chief Plant Operator
jbradley@ocsan.gov
(714) 593-7600

Lan C. Wiborg
Environmental Services Director
lwiborg@ocsan.gov
(714) 593-7540

Rachel V. Exel	Christopher Myrter		Tom Meregillano (Apr 15, 2024 10:56 PDT)
Rachel Van Exel	Christopher Myrter	Jackie Lerma	Tom Meregillano

ORANGE COUNTY SANITATION DISTRICT

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- 29, 2024

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): 02/06/24, 02/13/24

	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 (%)
Plant 1 Max/Min*	0.83	10 DNQ	4.2	38	460	12	16	29	7.9 DNQ	790	7,600	51,000	58,000	7.5	24	59
Plant 1 Avg	0.82	8.6 DNQ	3.8	38	430	11	16	29	6.4 DNQ	740	7,600	50,000	57,000		24	
Plant 2 Max/Min*	0.79	10 DNQ	2.2	40	350	12	20	27	6.9 DNQ	690	9,500	46,000	52,000	7.8	27	64
Plant 2 Avg	0.71	9.3 DNQ	2.0	40	340	11	20	25	5.4 DNQ	660	7,600	44,000	52,000		29	
Table 1 (Max/Min)*	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OC San Plant 1	System Summary	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 (Min 15 days)**	23	23	23	23	23	21	23	Out of Service	Out of Service	23	24
Minimum Temperature (Min 95 °F)	99	100	99	99	100	100	100	Out of Service	Out of Service	99	99

OC San 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
Minimum Mean Cell Residence Time (Min 15 days)**	21	Out of Service	Out of Service	22	Out of Service	21	21	Out of Service	Out of Service	22	22	21	21	Out of Service	22	Out of Service	21	21
Minimum Temperature (Min 95 °F)	96	Out of Service	Out of Service	97	Out of Service	96	98	Out of Service	Out of Service	98	98	98	97	Out of Service	96	Out of Service	98	98

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.

ORANGE COUNTY SANITATION DISTRICT

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- 29, 2024

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 directl 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.*

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Jon O. Bradley
Chief Plant Operator
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Lan C. Wiborg
Environmental Services Director
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Rachel Van Exel	Ryan McMullin	Jackie Lerma	Matt Smith	Tom Meregillano
			Matthew Smith (May 16, 2024 06:43 PDT)	Tom Meregillano (May 16, 2024 10:39 PDT)

ORANGE COUNTY SANITATION DISTRICT

Biosolids Monthly Compliance Report

Monitoring Period: March 1- 31, 2024

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

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): 03/04/24 (Plant 1), 03/05/24 (Plant 2), 03/12/24 (Plant 1, Plant 2)

	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 (%)
Plant 1 Max/Min*	0.56	10 DNQ	3.6	37	460	11	18	29	11 DNQ	790	9,200	49,000	54,000	7.8	24	62
Plant 1 Avg	0.55	9.8 DNQ	3.5	36	450	11	18	29	9.9 DNQ	760	7,100	44,000	51,000		25	
Plant 2 Max/Min*	0.58	12	2.1	40	350	12	21	22	10	650	6,900	43,000	47,000	7.7	28	72
Plant 2 Avg	0.49	10 DNQ	2.1	39	350	12	21	22	9.9 DNQ	650	5,300	41,000	46,000		28	
Table 1 (Max/Min)*	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OC San Plant 1	System Summary	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 (Min 15 days)**	21	21	21	21	21	19	21	Out of Service	Out of Service	21	21
Minimum Temperature (Min 95 °F)	99	100	100	99	100	100	100	Out of Service	Out of Service	99	100

OC San 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
Minimum Mean Cell Residence Time (Min 15 days)**	20	Out of Service	Out of Service	21	Out of Service	20	20	Out of Service	Out of Service	21	21	20	20	Out of Service	20	Out of Service	20	20
Minimum Temperature (Min 95 °F)	97	Out of Service	Out of Service	97	Out of Service	97	98	Out of Service	Out of Service	99	98	99	98	Out of Service	98	Out of Service	98	97

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.

ORANGE COUNTY SANITATION DISTRICT

Biosolids Monthly Compliance Report

Monitoring Period: March 1- 31, 2024

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

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.*

Lan C. Wiborg
Environmental Services Director
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(714) 593-7540

Preliminary reviewers:
Operations reviews the accuracy of the digester detention times and temperatures; Environmental Services certifies the accuracy of the laboratory results, including VSR.

Rachel Van Exel	Ryan McMullin	Jackie Lerma	Matt Smith	Tom Meregillano	Jon Bradley
			Matt Smith (Jun 27, 2024 16:40 PDT)	Tom Meregillano (Jun 28, 2024 10:11 PDT)	

ORANGE COUNTY SANITATION DISTRICT

Biosolids Monthly Compliance Report

Monitoring Period: April 1- 30, 2024

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

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): 04/02/24, 04/09/24

	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 (%)
Plant 1 Max/Min*	0.58	10 DNQ	5.6	38	440	13	17	26	11 DNQ	710	8,700	47,000	56,000	7.9	24	69
Plant 1 Avg	0.49	7.8 DNQ	4.9	38	430	12	17	26	8.0 DNQ	690	7,900	45,000	53,000		25	
Plant 2 Max/Min*	0.080 DNQ	11	2.4	43	360	13	22	27	8.3 DNQ	720	7,900	46,000	54,000	7.7	28	71
Plant 2 Avg	0.080 DNQ	10 DNQ	2.4	42	360	12	22	27	7.8 DNQ	710	6,300	44,000	51,000		28	
Table 1 (Max/Min)*	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OC San Plant 1	System Summary	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 (Min 15 days)**	23	23	23	23	23	21	23	Out of Service	Out of Service	23	23
Minimum Temperature (Min 95 °F)	99	100	100	100	100	100	99	Out of Service	Out of Service	100	100

OC San 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
Minimum Mean Cell Residence Time (Min 15 days)**	20	Out of Service	Out of Service	20	Out of Service	20	20	Out of Service	Out of Service	20	20	20	20	Out of Service	20	Out of Service	20	20
Minimum Temperature (Min 95 °F)	98	Out of Service	Out of Service	98	Out of Service	98	98	Out of Service	Out of Service	98	98	99	98	Out of Service	98	Out of Service	99	98

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.

ORANGE COUNTY SANITATION DISTRICT

Biosolids Monthly Compliance Report

Monitoring Period: April 1- 30, 2024

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

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.*

Lan C. Wiborg
Environmental Services Director
lwiborg@ocsan.gov
(714) 593-7540

Preliminary reviewers:
Operations reviews the accuracy of the digester detention times and temperatures; Environmental Services certifies the accuracy of the laboratory results, including VSR.

Rachel Van Exel	Ryan McMullin	Jackie Lerma	Matt Smith (Jun 27, 2024 16:41 PDT)	Tom Meregillano (Jun 28, 2024 10:12 PDT)	Jon Bradley
Rachel Van Exel	Ryan McMullin	Jackie Lerma	Matt Smith	Tom Meregillano	Jon Bradley

ORANGE COUNTY SANITATION DISTRICT

Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: May 1- 31, 2024

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): 05/07/24

	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 (%)
Plant 1 Max/Min*	1.2	<5.4	2.0	25	220	6.9 DNQ	8.5	17	<4.6	370	5,800	52,000	58,000	8.0	26	64
Plant 1 Avg	1.2	<5.4	2.0	25	220	6.9 DNQ	8.5	17	<4.6	370	5,800	52,000	58,000		26	
Plant 2 Max/Min*	0.48	<5.2	1.7 DNQ	24	230	7.0 DNQ	16	17	<4.4	440	5,600	42,000	48,000	7.9	27	75
Plant 2 Avg	0.48	<5.2	1.7 DNQ	24	230	7.0 DNQ	16	17	<4.4	440	5,600	42,000	48,000		27	
Table 1 (Max/Min)*	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OC San Plant 1	**System Summary**	**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 (Min 15 days)**	34	34	34	33	33	Out of Service	34	Out of Service	Out of Service	34	34
Minimum Temperature (Min 95 °F)	100	100	100	100	100	Out of Service	100	Out of Service	Out of Service	100	100

OC San 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**
Minimum Mean Cell Residence Time (Min 15 days)**	19	Out of Service	Out of Service	19	Out of Service	19	19	Out of Service	Out of Service	19	19	19	19	Out of Service	18	Out of Service	18	19
Minimum Temperature (Min 95 °F)	98	Out of Service	Out of Service	98	Out of Service	100	99	Out of Service	Out of Service	99	98	99	98	Out of Service	99	Out of Service	100	98

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.

ORANGE COUNTY SANITATION DISTRICT

Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: May 1- 31, 2024

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Lan C. Wiborg
Environmental Services Director
lwiborg@ocsan.gov
(714) 593-7540

Preliminary reviewers:
Operations reviews the accuracy of the digester detention times and temperatures; Environmental Services certifies the accuracy of the laboratory results, including VSR.

Cindy Vellucci (Jul 30, 2024 14:05 PDT)				Matthew Smith (Aug 9, 2024 10:04 MDT)	Sam Choi	Jon Bradley
Cindy Vellucci	Rachel Van Exel	Ryan McMullin	Jackie Lerma	Matt Smith	Sam Choi	Jon Bradley

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: June 1- 30, 2024

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): 06/04/24, 06/11/24

	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 (%)
Plant 1 Max/Min*	0.67	6.6 DNQ	2.1	28	310	8.7	12	19	6.6 DNQ	520	7,900	44,000	52,000	7.8	25	65
Plant 1 Avg	0.63	6.1 DNQ	2.0 DNQ	27	300	7.9 DNQ	11	19	5.7 DNQ	500	7,700	44,000	52,000		25	
Plant 2 Max/Min*	0.58	7.9 DNQ	2.0	24	250	7.7	18	16	7.6 DNQ	460	5,700	47,000	52,000	8.0	26	61
Plant 2 Avg	0.47	7.8 DNQ	1.9 DNQ	24	240	6.6 DNQ	17	16	6.3 DNQ	460	5,300	46,000	51,000		28	
Table 1 (Max/Min)*	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OC SAN Plant 1	System Summary	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 (Min 15 days)**	27	27	27	26	26	Out of Service	27	Out of Service	Out of Service	27	27
Minimum Temperature (Min 95 °F)	100	100	100	100	100	Out of Service	100	Out of Service	Out of Service	100	100

OC SAN 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
Minimum Mean Cell Residence Time (Min 15 days)**	20	Out of Service	Out of Service	20	Out of Service	20	20	Out of Service	Out of Service	20	20	20	21	Out of Service	20	Out of Service	20	20
Minimum Temperature (Min 95 °F)	98	Out of Service	Out of Service	99	Out of Service	99	99	Out of Service	Out of Service	99	99	98	98	Out of Service	99	Out of Service	99	99

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.

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: June 1- 30, 2024

Certifications:

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Lan C. Wiborg
Environmental Services Director
lwiborg@ocsan.gov
(714) 593-7540

Preliminary reviewers:
Operations reviews the accuracy of the digester detention times and temperatures; Environmental Services certifies the accuracy of the laboratory results, including VSR.

Cindy Vellucci (Aug 19, 2024 12:57 PDT)				Matthew Smith (Aug 29, 2024 09:03 PDT)	Sam Choi	Jon Bradley
Cindy Vellucci	Rachel Van Exel	Ryan McMullin	Jackie Lerma	Matt Smith	Sam Choi	Jon Bradley

OC SAN
ORANGE COUNTY SANITATION DISTRICT

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: July 1- 31, 2024

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): 07/02/24, 07/09/24

	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 (%)
Plant 1 Max/Min*	1.3	11 DNQ	3.1	33	470	11	15	27	9.3 DNQ	780	7,500	44,000	51,000	8.1	25	50
Plant 1 Avg	4.9 DNQ	8.2 DNQ	2.9	32	470	9.4	15	27	7.6 DNQ	770	6,300	39,000	45,000		26	
Plant 2 Max/Min*	0.62	9.8 DNQ	3.5	34	340	9.4	25	24	11	700	5,200	40,000	45,000	8.0	28	61
Plant 2 Avg	0.54	8.2 DNQ	3.5	34	340	9.3	25	24	9.2 DNQ	700	4,400	40,000	44,000		28	
Table 1 (Max/Min)*	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OC San Plant 1	**System Summary**	**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 (Min 15 days)**	27	27	28	27	27	Out of Service	27	Out of Service	Out of Service	27	27
Minimum Temperature (Min 95 °F)	100	100	100	100	100	Out of Service	100	Out of Service	Out of Service	100	100

OC San 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**
Minimum Mean Cell Residence Time (Min 15 days)**	22	Out of Service	Out of Service	22	Out of Service	22	22	Out of Service	Out of Service	22	22	22	22	Out of Service	21	Out of Service	22	22
Minimum Temperature (Min 95 °F)	97	Out of Service	Out of Service	98	Out of Service	99	99	Out of Service	Out of Service	98	98	98	98	Out of Service	97	Out of Service	97	97

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.

OCSAN
ORANGE COUNTY SANITATION DISTRICT

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: July 1- 31, 2024

Certifications:

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Lan C. Wiborg
Environmental Services Director
lwiborg@ocsan.gov
(714) 593-7540

Preliminary reviewers:
Operations reviews the accuracy of the digester detention times and temperatures; Environmental Services certifies the accuracy of the laboratory results, including VSR.

Cindy Vellucci (Oct 9, 2024 14:47 PDT)				Matt Smith (Oct 23, 2024 14:05 PDT)	Sam Choi	Jon Bradley
Cindy Vellucci	Rachel Van Exel	Ryan McMullin	Jackie Lerma	Matt Smith	Sam Choi	Jon Bradley

OC SAN
ORANGE COUNTY SANITATION DISTRICT

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: August 1- 31, 2024

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): 08/06/24, 08/13/24

	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 (%)
Plant 1 Max/Min*	0.61	9.3 DNQ	2.6	30	500	11	16	28	6.7 DNQ	790	6,700	48,000	54,000	8.0	24	62
Plant 1 Avg	0.58	8.4 DNQ	2.4	30	500	9.6	16	28	6.6 DNQ	760	6,000	48,000	54,000		24	
Plant 2 Max/Min*	0.57	12	2.5	35	360	10	23	25	9.9 DNQ	750	6,100	41,000	47,000	7.8	28	59
Plant 2 Avg	0.50	12	2.4	35	360	9.1	23	25	9.5 DNQ	730	5,900	39,000	45,000		28	
Table 1 (Max/Min)*	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OC San Plant 1	**System Summary**	**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 (Min 15 days)**	25	25	25	24	24	Out of Service	25	Out of Service	Out of Service	25	25
Minimum Temperature (Min 95 °F)	99	100	99	100	100	Out of Service	100	Out of Service	Out of Service	100	100

OC San 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**
Minimum Mean Cell Residence Time (Min 15 days)**	21	Out of Service	Out of Service	22	Out of Service	21	21	Out of Service	Out of Service	21	22	21	22	Out of Service	21	Out of Service	21	21
Minimum Temperature (Min 95 °F)	98	Out of Service	Out of Service	98	Out of Service	99	98	Out of Service	Out of Service	99	98	98	98	Out of Service	98	Out of Service	98	98

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

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ORANGE COUNTY SANITATION DISTRICT

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

Monitoring Period: September 1- 30, 2024

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Sampling date(s): 09/10/24, 09/25/24

	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 (%)
Plant 1 Max/Min*	0.68	12 DNQ	2.2	41	510	16	18	33	10 DNQ	810	6,000	50,000	56,000	7.9	23	62
Plant 1 Avg	0.66	11 DNQ	2.2	38	500	14	18	31	8.2 DNQ	790	6,000	48,000	54,000		24	
Plant 2 Max/Min*	1.3	11	2.3	47	400	18	21	27	8.4 DNQ	800	5,000	65,000	69,000	7.9	28	50
Plant 2 Avg	0.88	10 DNQ	2.2	43	380	13	21	26	7.8 DNQ	760	4,500	55,000	60,000		28	
Table 1 (Max/Min)*	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OC San Plant 1	System Summary	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 (Min 15 days)**	25	25	25	24	24	Out of Service	25	Out of Service	Out of Service	25	25
Minimum Temperature (Min 95 °F)	99	100	99	100	100	Out of Service	100	Out of Service	Out of Service	100	100

OC San 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
Minimum Mean Cell Residence Time (Min 15 days)**	21	Out of Service	Out of Service	21	Out of Service	21	21	Out of Service	Out of Service	21	22	21	21	Out of Service	20	Out of Service	20	22
Minimum Temperature (Min 95 °F)	97	Out of Service	Out of Service	99	Out of Service	99	98	Out of Service	Out of Service	99	99	98	99	Out of Service	98	Out of Service	97	98

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.

ORANGE COUNTY SANITATION DISTRICT

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: September 1- 30, 2024

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.*

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Preliminary reviewers:
Operations reviews the accuracy of the digester detention times and temperatures; Environmental Services certifies the accuracy of the laboratory results, including VSR.

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OC SAN
ORANGE COUNTY SANITATION DISTRICT

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: October 1- 31, 2024

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): 10/2/2024 (Plant 2), 10/8/2024, 10/15/24 (Plant 1)

	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 (%)
Plant 1 Max/Min*	0.69	7.6 DNQ	2.7	38	490	10	17	32	7.3 DNQ	800	8,400	55,000	60,000	7.8	23	56
Plant 1 Avg	0.66	6.8 DNQ	2.3 DNQ	35	460	8.5 DNQ	17	31	7.0 DNQ	750	6,600	50,000	57,000		23	
Plant 2 Max/Min*	0.65	10 DNQ	2.4	46	420	10	23	28	10 DNQ	840	6,500	45,000	50,000	7.9	24	55
Plant 2 Avg	0.60	9.8 DNQ	2.3	44	400	9.2	22	27	9.4 DNQ	800	5,800	44,000	50,000		25	
Table 1 (Max/Min)*	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OC San Plant 1	System Summary	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 (Min 15 days)**	23	23	23	22	22	Out of Service	23	Out of Service	Out of Service	23	23
Minimum Temperature (Min 95 °F)	97	100	100	98	100	Out of Service	97	Out of Service	Out of Service	100	100

OC San 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
Minimum Mean Cell Residence Time (Min 15 days)**	20	Out of Service	Out of Service	21	Out of Service	21	21	Out of Service	Out of Service	21	21	21	21	Out of Service	19	Out of Service	19	21
Minimum Temperature (Min 95 °F)	98	Out of Service	Out of Service	98	Out of Service	99	98	Out of Service	Out of Service	98	98	98	98	Out of Service	98	Out of Service	98	98

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.

OCSAN
ORANGE COUNTY SANITATION DISTRICT

Biosolids Monthly Compliance Report

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Operations reviews the accuracy of the digester detention times and temperatures; Environmental Services certifies the accuracy of the laboratory results, including VSR.

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OCSAN
ORANGE COUNTY SANITATION DISTRICT

Biosolids Monthly Compliance Report

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Monitoring Period: November 1- 30, 2024

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Sampling date(s): 11/05/24,11/19/24 (Plant 2),11/26/24 (Plant 1)

	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 (%)
Plant 1 Max/Min*	0.91	6.7 DNQ	3.8	37	450	9.6	15	32	6.7 DNQ	700	6,300	48,000	54,000	7.8	24	64
Plant 1 Avg	0.63 DNQ	6.3 DNQ	3.2	35	430	9.4	15	31	6.0 DNQ	690	5,800	48,000	54,000		24	
Plant 2 Max/Min*	0.65	8.3 DNQ	3.3	43	400	10	20	31	8.7 DNQ	760	5,700	46,000	51,000	7.8	26	62
Plant 2 Avg	0.43 DNQ	8.0 DNQ	2.9	41	390	10	19	28	7.0 DNQ	720	5,600	43,000	49,000		27	
Table 1 (Max/Min)*	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OC San Plant 1	System Summary	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 (Min 15 days)**	22	22	22	21	21	Out of Service	21	Out of Service	90	21	22
Minimum Temperature (Min 95 °F)	100	100	100	100	100	Out of Service	100	Out of Service	100	100	100

OC San 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
Minimum Mean Cell Residence Time (Min 15 days)**	22	Out of Service	Out of Service	22	Out of Service	22	22	Out of Service	Out of Service	22	22	22	22	Out of Service	22	Out of Service	22	22
Minimum Temperature (Min 95 °F)	98	Out of Service	Out of Service	98	Out of Service	98	98	Out of Service	Out of Service	98	98	98	98	Out of Service	98	Out of Service	98	98

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.

Biosolids Monthly Compliance Report

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Preliminary reviewers:
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OC SAN
ORANGE COUNTY SANITATION DISTRICT

Biosolids Monthly Compliance Report

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Monitoring Period: December 1- 31, 2024

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Sampling date(s): 12/03/24, 12/10/24

	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 (%)
Plant 1 Max/Min*	0.60	6.4 DNQ	4.3	38	470	9.4	16	32	9.4 DNQ	770	4,300	56,000	60,000	7.8	23	59
Plant 1 Avg	0.38 DNQ	6.2 DNQ	4.2	37	450	9.2	12 DNQ	32	9.0 DNQ	730	4,100	52,000	56,000		23	
Plant 2 Max/Min*	0.55	9.6 DNQ	2.6	44	370	9.5	19	26	9.2 DNQ	690	4,400	48,000	51,000	7.6	25	61
Plant 2 Avg	0.54	9.2 DNQ	2.5	44	370	8.4 DNQ	16	25	7.9 DNQ	690	3,800	46,000	50,000		26	
Table 1 (Max/Min)*	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

OC San Plant 1	System Summary	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 (Min 15 days)**	23	22	22	22	22	Out of Service	22	Out of Service	22	22	22
Minimum Temperature (Min 95 °F)	99	99	99	100	99	Out of Service	100	Out of Service	100	100	100

OC San 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
Minimum Mean Cell Residence Time (Min 15 days)**	26	Out of Service	Out of Service	26	Out of Service	26	26	Out of Service	Out of Service	26	26	26	26	Out of Service	26	Out of Service	26	26
Minimum Temperature (Min 95 °F)	98	Out of Service	Out of Service	98	Out of Service	98	98	Out of Service	Out of Service	98	98	98	98	Out of Service	98	Out of Service	99	99

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Cindy Vellucci	Rachel Van Exel	Ryan McMullin	Jackie Lerma	Matt Smith	Sam Choi	Jon Bradley

Appendix B. Pretreatment Program Annual Report, Chapter 8 Solids Management Program

Chapter 8. Solids Management Program

8.1 Introduction

This section provides an overview of OC San's Biosolids Program, focusing on biosolids quality with respect to metals. Biosolids are nutrient-rich, treated organic matter recovered through the treatment of wastewater. These solids are considered a resource because of their nutrient and energy values, and they are recyclable in part because of their low metal content. The pretreatment program is a key element in ensuring the recyclability of OC San's biosolids by minimizing the discharge of heavy metals and other undesirable constituents into the collection system and ultimately the treated solids, which are used to fertilize farms.

OC San's annual biosolids compliance report was completed, submitted to regulators, and posted online in February 2023. Visit www.ocsan.gov/503 to access the most recent document that contains Biosolids Program information, regulations, quantities, policies, guiding principles, and how and where biosolids are recycled.

8.2 Biosolids Quality

Biosolids quality plays an important role in ensuring the continued recyclability of OC San's biosolids. OC San's pretreatment program has been extremely effective in reducing and maintaining levels of pollutants (e.g., OC San's influent sewage meets drinking water standards for the biosolids monitoring metals). The ceiling concentrations and EQ concentrations promulgated by the US EPA's biosolids regulations (40 CFR 503) are presented in Figure 8-1 through Figure 8-10 as a reference. For FY 2022/23, OC San biosolids met EQ limits for all the regulated parameters as shown in Table 8.1.

Table 8.1 Trends in Trace Metal Content of Biosolids, Fiscal Years 2012/13-2023/24, in Milligrams per Dry Kilogram
Orange County Sanitation District

Metal	FY	EQ Limit	Plant 1			Plant 2		
			Min	Max	Avg	Min	Max	Avg
Arsenic	2012-13	41	0	7.8	4.7	2.0	10	7.0
	2013-14*		3.5	9.5	5.8	5.4	11	8.4
	2014-15		4.5	11	7.2	7.8	12	9.3
	2015-16*		6.3	12	8.3	6.2	12	9.2
	2016-17*		6.7	12	8.1	5.6	12	8.6
	2017-18*		7.2	16	9.9	7.9	16	11
	2018-19*		7.3	24	16	9.4	24	18
	2019-20*		1.3	8.8	5.4	1.3	12	5.5
	2020-21*		1.3	14	8.9	1.2	19	12
	2021-22		7.3	10.5	8.6	9.8	13.5	11
	2022-23		7.1	10	8.8	8.2	14	11
	2023-24		5.4	10	6.9	5.2	12	8.2
Cadmium	2012-13	39	2.6	7.8	4.7	1.9	4.4	3.1
	2013-14*		1.6	11	3.9	2.1	6.0	3.5
	2014-15		2.7	7.8	5.1	3.1	5.8	4.0
	2015-16*		1.3	4.7	2.5	2.0	4.5	3.0
	2016-17		2.6	3.1	2.3	2.0	3.8	3.0
	2017-18*		1.7	4.4	3.0	2.5	7.7	5.1
	2018-19*		1.2	3.0	1.6	2.7	8.4	4.2
	2019-20*		1.3	2.7	1.9	2.2	8.4	3.3
	2020-21*		0.9	1.6	1.3	1.6	2.5	2.0
	2021-22		0.6	1.5	1.1	1.1	1.4	1.3
	2022-23		0.7	4.6	1.9	0.6	4.9	1.7
	2023-24		0.7	5.6	3.4	0.66	4.5	2.5

Table 8.1 **Trends in Trace Metal Content of Biosolids, Fiscal Years 2012/13-2023/24, in Milligrams per Dry Kilogram**
Orange County Sanitation District

Metal	FY	EQ Limit	Plant 1			Plant 2		
			Min	Max	Avg	Min	Max	Avg
Chromium	2012-13	**	42	56	49	42	59	49
	2013-14		39	52	45	40	53	46
	2014-15		30	51	40	34	70	46
	2015-16		31	89	46	28	60	46
	2016-17		30	89	49	29	67	46
	2017-18		27	38	34	38	54	44
	2018-19		29	58	39	32	53	45
	2019-20		37	51	45	35	49	42
	2020-21		43	54	48	42	65	51
	2021-22		34	49	41	41	52	45
	2022-23		34	42	37	34	51	42
	2023-24		25	51	38	24	60	44
Copper	2012-13	1,500	480	640	540	500	640	540
	2013-14		460	540	510	470	540	500
	2014-15		320	570	470	320	560	470
	2015-16		380	560	460	340	570	480
	2016-17		400	560	460	340	570	490
	2017-18		320	500	420	380	590	460
	2018-19		355	600	470	335	665	510
	2019-20		440	600	530	410	590	490
	2020-21		470	660	530	420	520	460
	2021-22		425	550	490	320	440	370
	2022-23		385	500	450	305	375	340
	2023-24		220	480	400	230	410	320
Lead	2012-13	300	7.5	19	15	7.5	17	14
	2013-14*		13	18	14	13	17	14
	2014-15*		8.7	15	13	9.0	17	13
	2015-16*		8.3	20	12	8.0	17	13
	2016-17*		7.9	20	11	7.5	17	12
	2017-18*		8.9	19	12	10	16	13
	2018-19		9.9	15	12	10	15	13
	2019-20		9.8	14	12	14	24	17
	2020-21		2.2	15	6.8	2.7	18	7.5
	2021-22		4.9	8.1	6.2	2.7	7.4	4.6
	2022-23		2.7	11	6.4	0.8	11	4.7
	2023-24		1.6	16	11	1.6	13	10
Mercury	2012-13	17	0.7	4.1	1.5	0.8	3.8	1.4
	2013-14		0.8	1.2	1.0	0.7	2.8	1.4
	2014-15		1.0	1.5	1.1	1.0	1.5	1.0
	2015-16		0.6	1.7	0.9	0.6	1.2	1.0
	2016-17		0.5	1.7	0.9	0.7	1.2	0.9
	2017-18		0.7	1.1	0.9	0.3	1.1	0.8
	2018-19		0.6	1.1	0.9	0.6	1.0	0.8
	2019-20		0.5	1.2	0.8	0.5	0.8	0.6
	2020-21		0.5	1.0	0.7	0.4	0.9	0.6
	2021-22		0.5	0.8	0.6	0.4	1	0.5
	2022-23		0.5	0.9	0.7	0.4	0.7	0.5

Table 8.1 **Trends in Trace Metal Content of Biosolids, Fiscal Years 2012/13-2023/24, in Milligrams per Dry Kilogram**
Orange County Sanitation District

Metal	FY	EQ Limit	Plant 1			Plant 2		
			Min	Max	Avg	Min	Max	Avg
	2023-24		0.39	1.2	0.60	0.080	0.79	0.48
Molybdenum	2012-13	**	9.8	20	14	12	20	15
	2013-14		12	18	15	14	18	15
	2014-15		9.4	18	15	12	20	16
	2015-16*		11	18	15	11	23	16
	2016-17		12	18	15	11	23	16
	2017-18*		10	16	14	13	18	15
	2018-19		13	20	16	15	22	18
	2019-20		14	22	18	14	24	18
	2020-21		15	21	18	17	23	20
	2021-22		13	20	16	14	21	18
	2022-23		14	23	17	15	30	19
	2023-24		8.5	18	14	13	25	19
Nickel	2012-13	420	34	48	40	23	41	30
	2013-14		36	55	43	28	56	37
	2014-15		26	47	37	26	41	34
	2015-16*		29	45	38	20	41	33
	2016-17		25	45	36	21	41	32
	2017-18		28	37	32	31	39	34
	2018-19		23	44	33	29	44	37
	2019-20		27	41	35	26	46	35
	2020-21		28	46	36	26	33	29
	2021-22		23	33	28	25	30	26
	2022-23		27	36	31	23	30	25
	2023-24		17	63	33	16	83	31
Selenium	2012-13	100	0	20	9.0	0	20	8.0
	2013-14*		3.5	13	7.9	4.2	13	8.3
	2014-15*		4.1	13	7.1	4.5	15	7.3
	2015-16*		4.4	11	8.1	3.7	10	7.6
	2016-17*		4.1	10	8.4	4.8	10	8.0
	2017-18*		3.0	7.8	4.9	2.7	8.0	4.9
	2018-19*		2.5	48	6.6	2.3	2.9	2.7
	2019-20*		0.9	12	3.7	0.9	12	3.5
	2020-21*		1.0	12	6.5	0.9	10	6.3
	2021-22		6.7	9.3	8.0	7.5	11	9.2
	2022-23		5.7	11	8.4	4.5	11	8.3
	2023-24		4.6	11	6.9	3.9	10	6.8
Silver	2012-13	**	6.2	14	8.6	6.4	13	8.6
	2013-14*		2.9	7.6	5.3	3.6	9.1	6.3
	2014-15*		3.3	7.8	5.8	3.4	8.6	6.5
	2015-16*		2.4	7.7	5.6	2.5	7.9	5.6
	2016-17*		2.7	5.6	4.4	2.5	6.8	4.9
	2017-18*		3.2	5.1	3.9	3.7	5.0	4.2
	2018-19*		2.9	5.1	4.0	3.5	5.8	4.3
	2019-20*		3.0	5.0	4.0	2.7	5.8	4.0
	2020-21*		2.6	3.8	3.3	2.5	3.2	2.7
	2021-22		2.1	3.6	2.6	1.4	2.5	1.9

Table 8.1 Trends in Trace Metal Content of Biosolids, Fiscal Years 2012/13-2023/24, in Milligrams per Dry Kilogram
Orange County Sanitation District

Metal	FY	EQ Limit	Plant 1			Plant 2		
			Min	Max	Avg	Min	Max	Avg
	2022-23		2.3	3.5	2.9	1.2	2.5	1.8
	2023-24		0.59	4.4	2.1	0.53	3.7	1.4
Zinc	2012-13	2,800	640	860	720	680	880	770
	2013-14		590	730	670	620	750	700
	2014-15		420	720	620	470	740	670
	2015-16		500	770	620	520	890	730
	2016-17		550	770	610	520	890	740
	2017-18		470	680	600	590	910	720
	2018-19		520	810	600	500	790	720
	2019-20		640	810	760	590	890	720
	2020-21		710	875	800	680	780	740
	2021-22		675	835	790	655	745	690
	2022-23		665	850	760	580	770	660
	2023-24		370	810	680	440	860	640

ND Non-detect
* Calculations included data below the reporting limit, but above the method detection limit, and were therefore flagged as "detected not quantified" or the method detection limit was substituted for non-detect values.
** US EPA's extensive health risk analysis determined that no limits were needed for these metals (EPA 40 CFR 503).

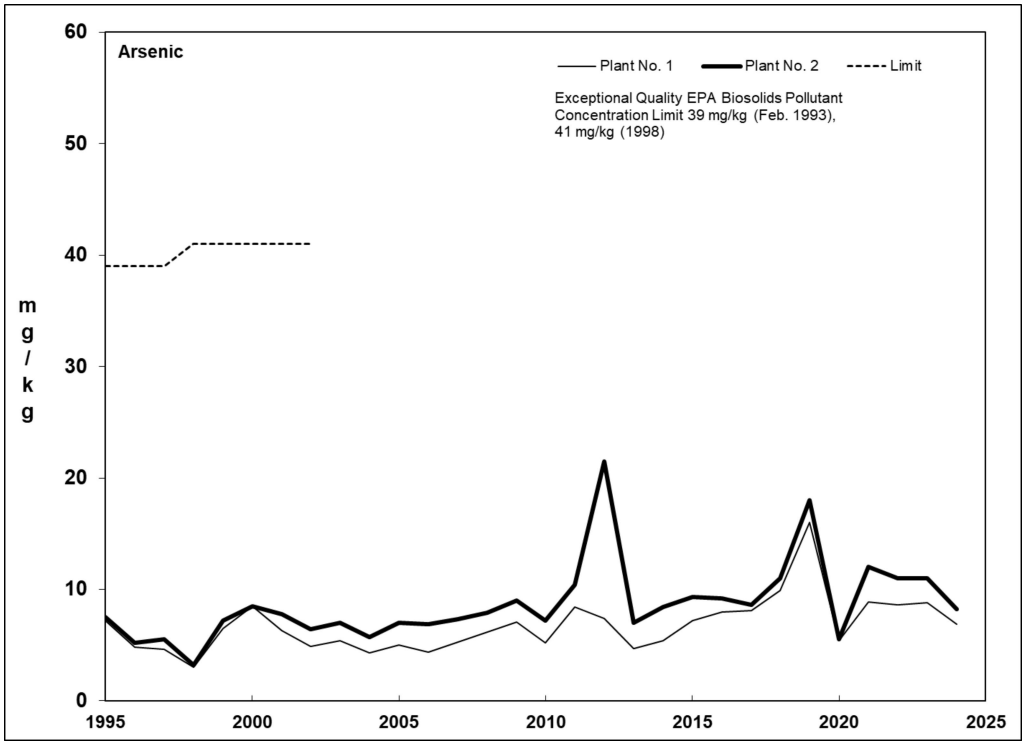

Figure 8-1 Trends in Concentrations of Arsenic in Biosolids, Fiscal Years 1994/95-2023/24
Orange County Sanitation District

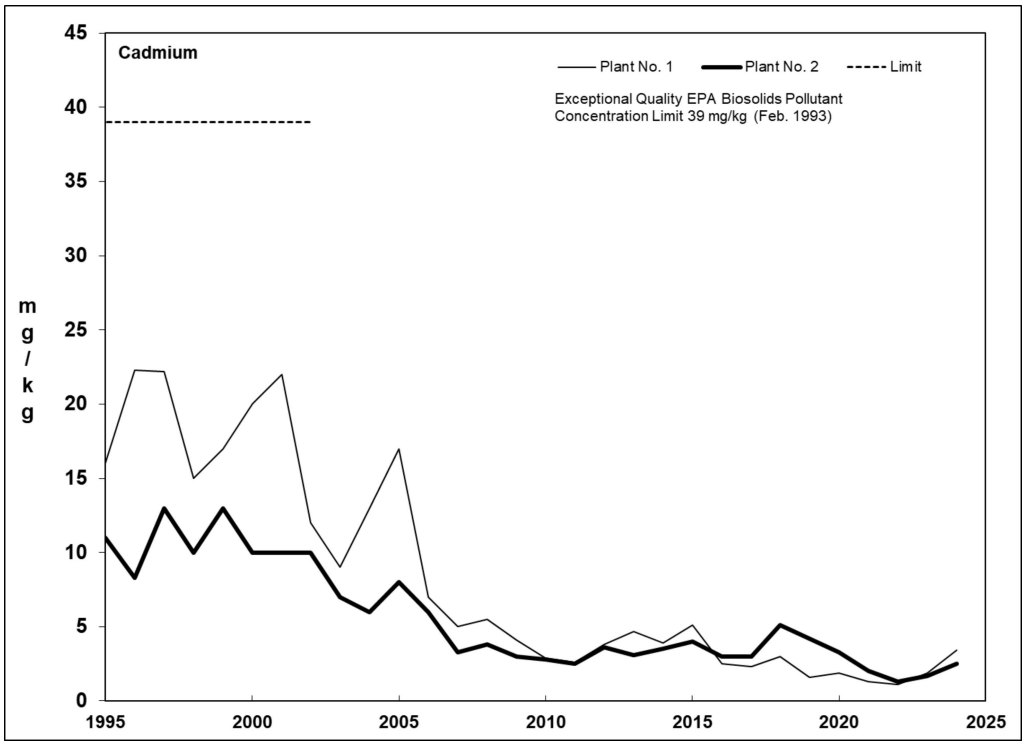

Figure 8-2 Trends in Concentrations of Cadmium in Biosolids, Fiscal Years 1994/95-2023/24
Orange County Sanitation District

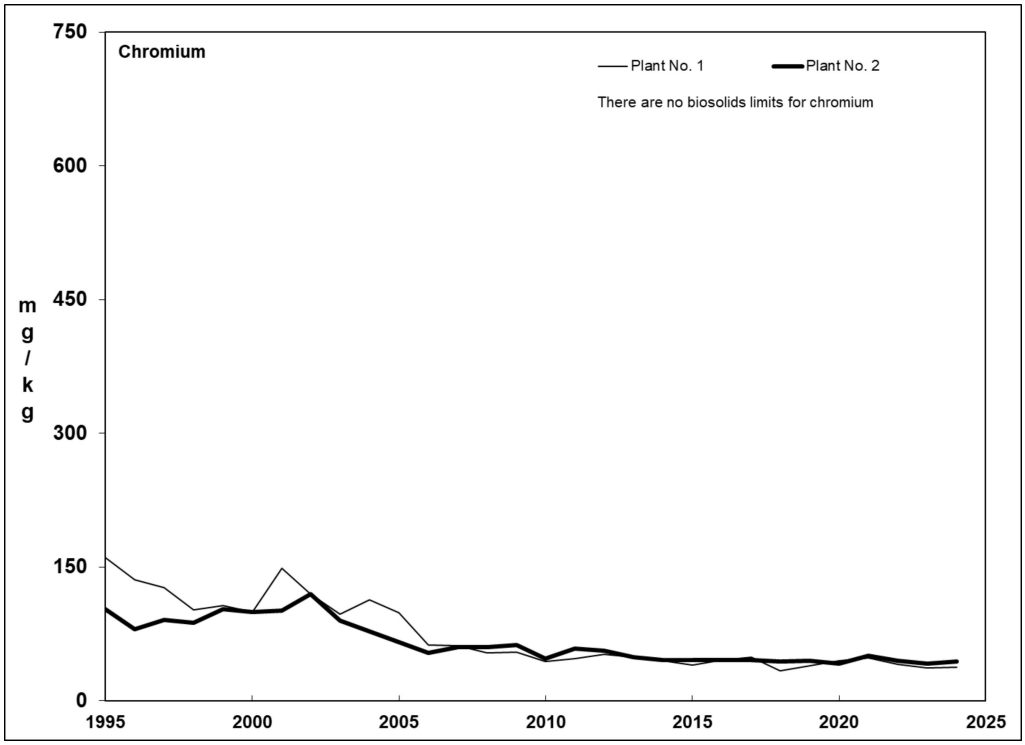

Figure 8-3 Trends in Concentrations of Chromium in Biosolids, Fiscal Years 1994/95-2023/24
Orange County Sanitation District

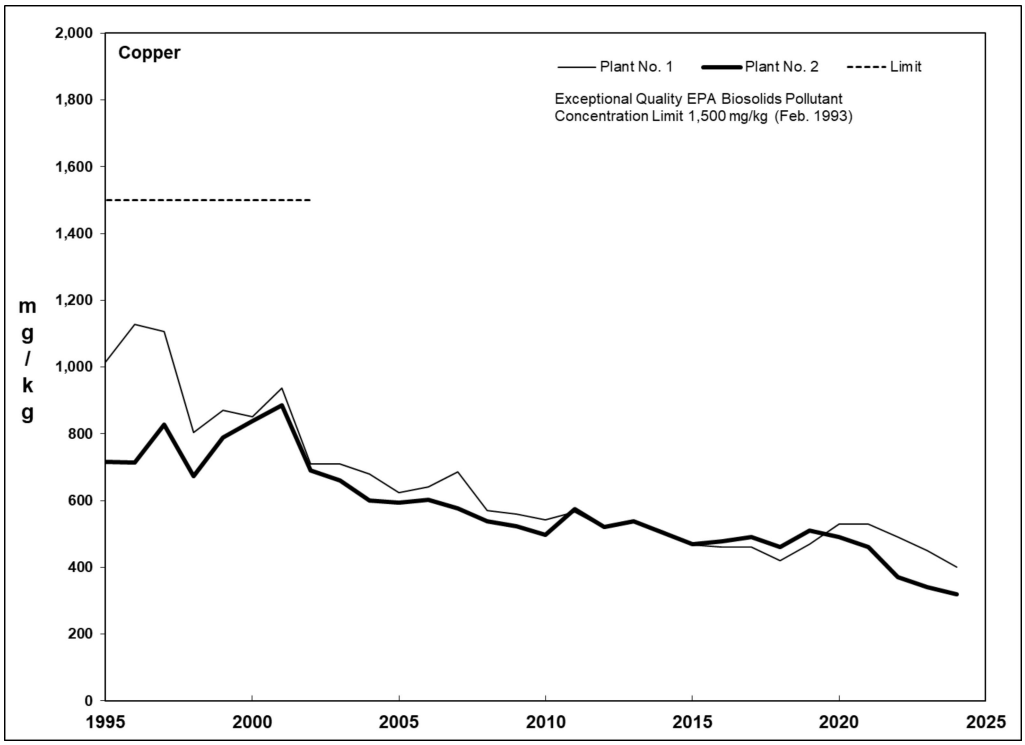

Figure 8-4 Trends in Concentrations of Copper in Biosolids, Fiscal Years 1994/95-2023/24
Orange County Sanitation District

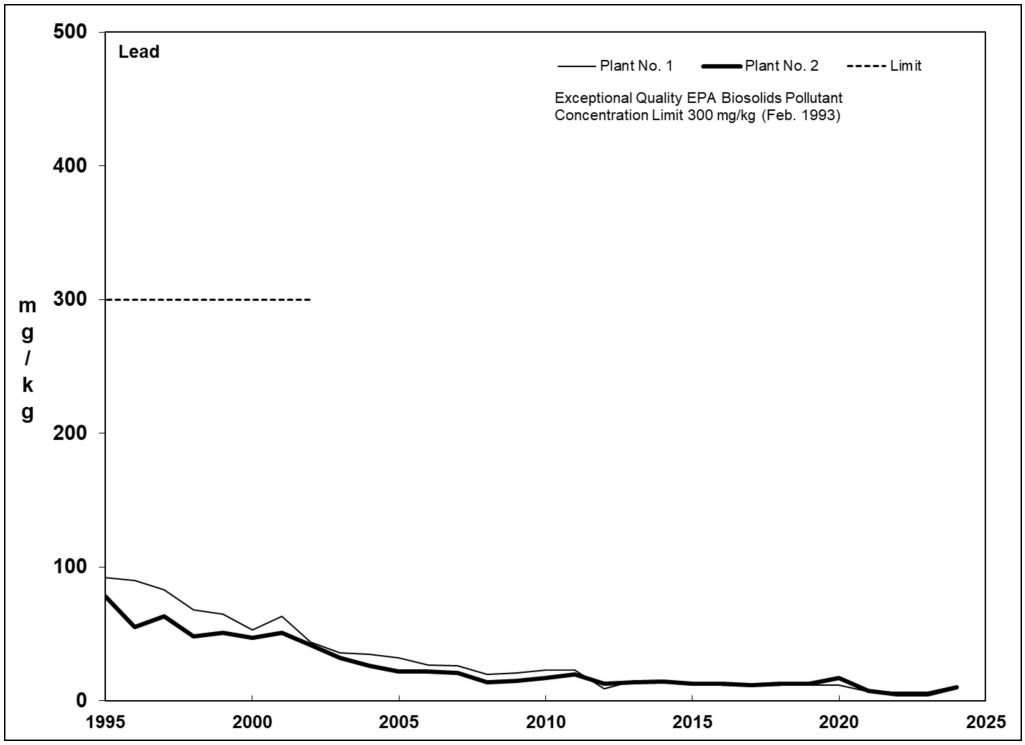

Figure 8-5 Trends in Concentrations of Lead in Biosolids, Fiscal Years 1994/95-2023/24
Orange County Sanitation District

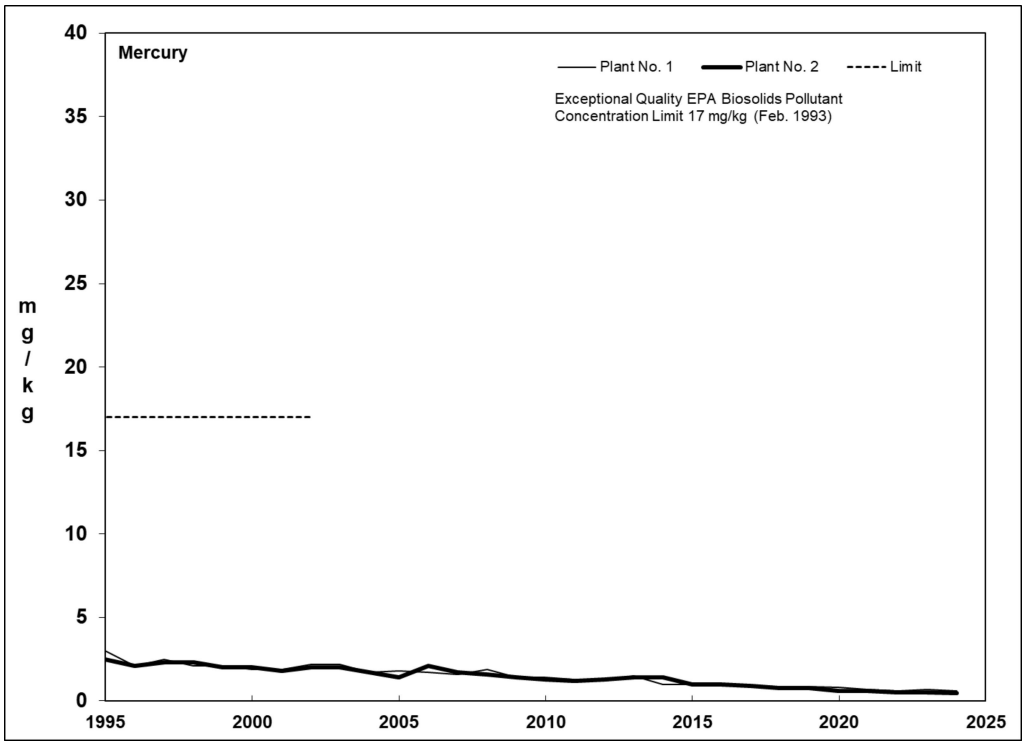

Figure 8-6 Trends in Concentrations of Mercury in Biosolids, Fiscal Years 1994/95-2023/24
Orange County Sanitation District

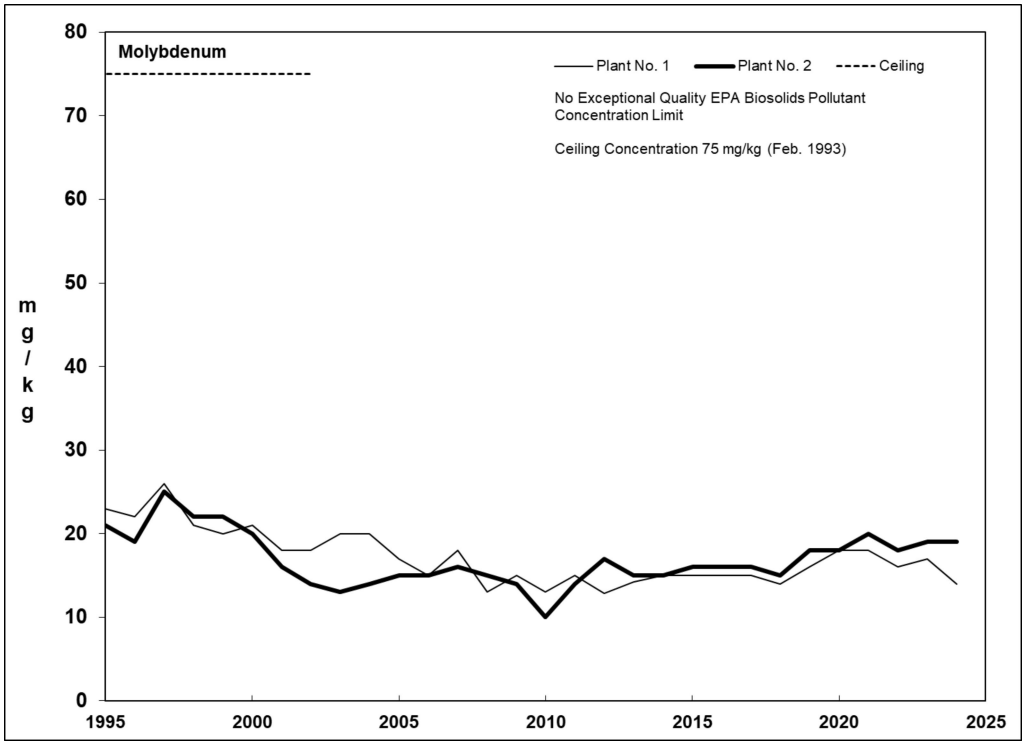

Figure 8-7 Trends in Concentrations of Molybdenum in Biosolids, Fiscal Years 1994/95-2023/24
Orange County Sanitation District

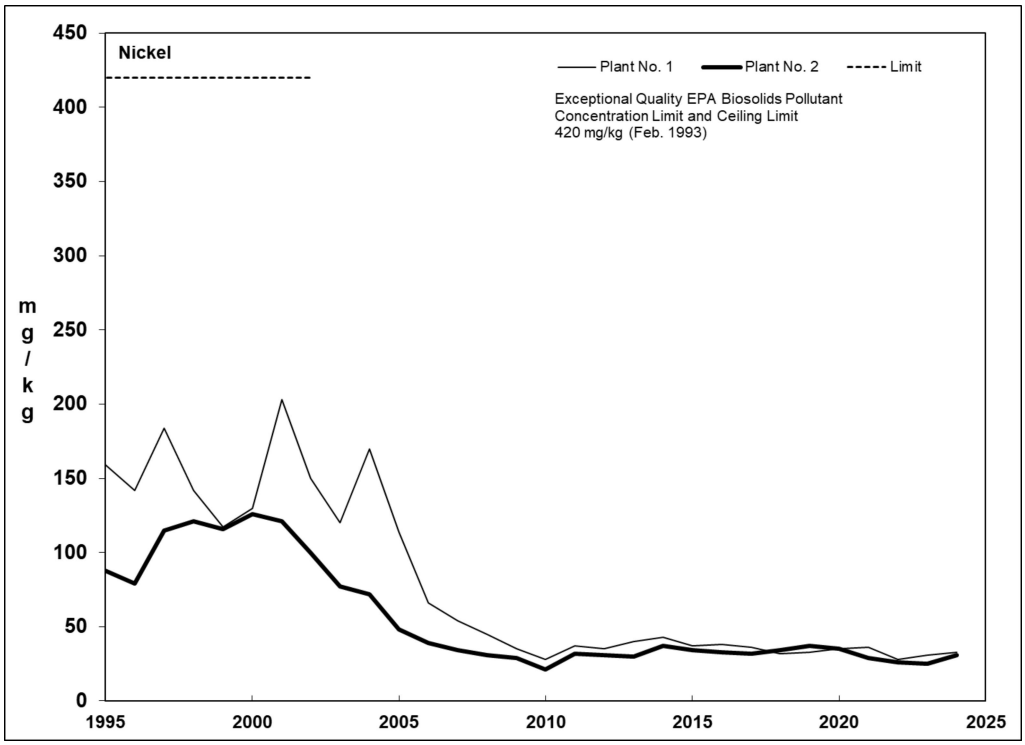

Figure 8-8 Trends in Concentrations of Nickel in Biosolids, Fiscal Years 1994/95-2023/24
Orange County Sanitation District

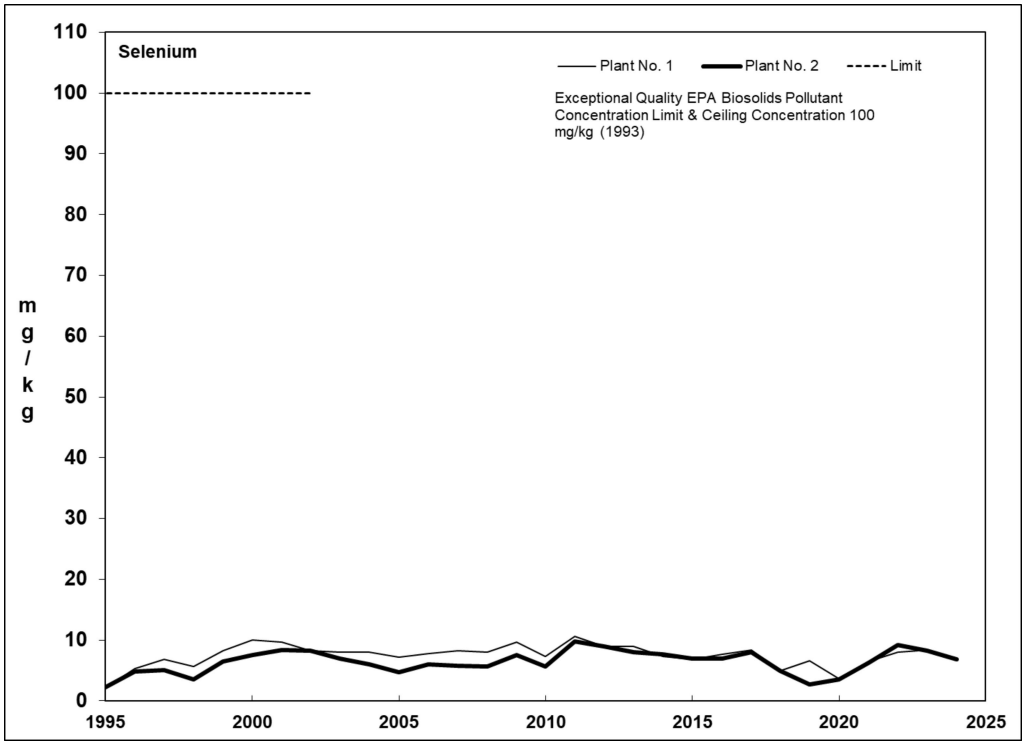

Figure 8-9 Trends in Concentrations of Selenium in Biosolids, Fiscal Years 1994/95-2023/24
Orange County Sanitation District

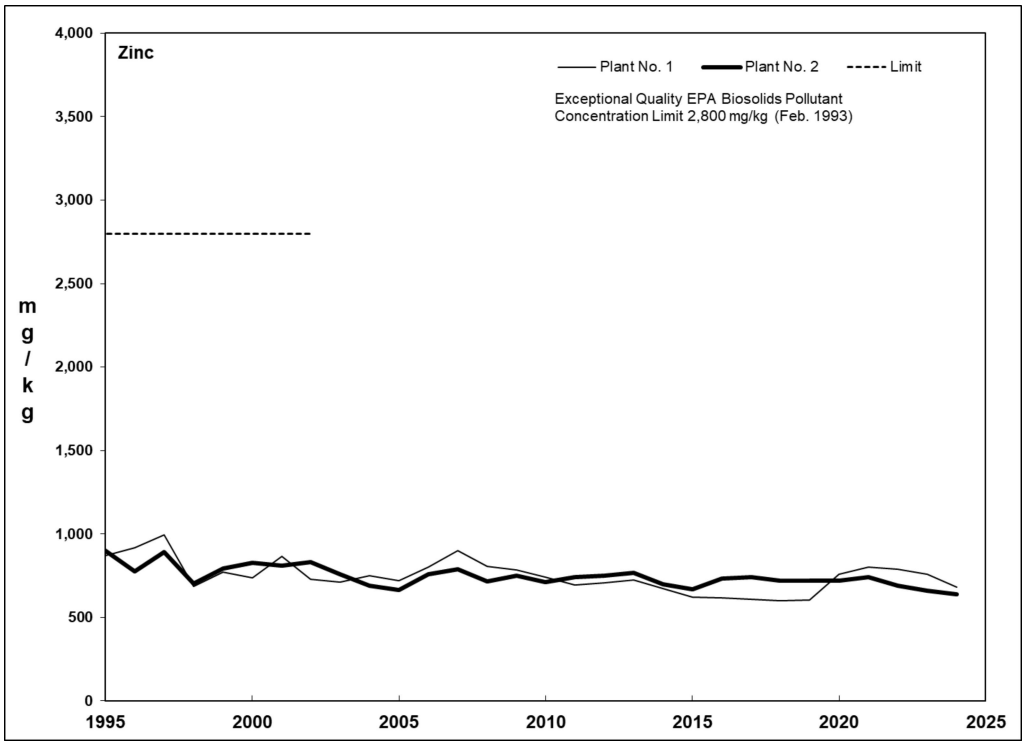

Figure 8-10 Trends in Concentrations of Zinc in Biosolids, Fiscal Years 1994/95-2023/24
Orange County Sanitation District

Appendix C. Summary of Biosolids Monitoring Results

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
General Chemistry	Ammonia-N	SM 4500 NH3 G	mg/kg	Plant 1 Dewatering Cake	01/09/2024	1900	170	250
					01/16/2024	2400	170	250
					02/06/2024	1800	160	230
					02/13/2024	1900	160	230
					03/04/2024	1200	110	170
					03/12/2024	2300	140	210
					04/02/2024	1700	170	250
					04/09/2024	2200	130	190
					05/07/2024	1500	170	250
					05/14/2024	2200	160	230
					06/04/2024	1900	160	230
					06/11/2024	2000	170	250
					07/02/2024	1900	140	210
					07/09/2024	1300	110	160
					08/06/2024	1600	100	150
					08/13/2024	1300	100	150
					09/10/2024	1500	120	180
					09/25/2024	1400	110	170
					10/08/2024	1900	160	230
					10/15/2024	1100	110	170
					11/05/2024	1500	120	180
					11/26/2024	1300	170	250
					12/03/2024	920	170	250
					12/10/2024	1000	170	250
			mg/kg dry weight	Plant 1 Dewatering Cake	01/09/2024	7900	710	1000
					01/16/2024	9500	670	990
					02/06/2024	7500	670	960
					02/13/2024	7600	640	920
					03/04/2024	5000	460	710
					03/12/2024	9200	560	840
					04/02/2024	7100	710	1000
					04/09/2024	8700	520	750
					05/07/2024	5800	650	960
					06/04/2024	7400	620	890
					06/11/2024	7900	670	990
					07/02/2024	7500	550	830
					07/09/2024	5000	430	620
					08/06/2024	6700	420	630
					08/13/2024	5300	400	610
					09/10/2024	6000	480	720
					09/25/2024	6000	470	730
					10/08/2024	8400	710	1000
					10/15/2024	4700	470	730
					11/05/2024	6300	500	750
					11/26/2024	5300	700	1000
					12/03/2024	3900	730	1100
					12/10/2024	4300	720	1100
		SM 4500 NH3 G	mg/kg	Plant 2 Dewatering Cake	01/10/2024	2500	160	230
					01/17/2024	1600	140	210
					02/06/2024	2600	140	210
					02/13/2024	1700	110	170
					03/05/2024	1000	100	150
					03/12/2024	2000	140	210
					04/02/2024	1300	170	250
					04/09/2024	2200	110	170
					05/07/2024	1500	170	250
					05/14/2024	2800	160	230
					06/04/2024	1400	110	170
					06/11/2024	1500	170	250
					07/02/2024	1500	130	190
					07/09/2024	1000	100	150
					08/06/2024	1700	130	190
					08/13/2024	1600	95	140
					09/10/2024	1400	110	170
					09/25/2024	1100	110	170
					10/02/2024	1200	140	210
					10/08/2024	1700	110	170
					11/05/2024	1500	100	150

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					11/19/2024	1500	95	140
					12/03/2024	840	170	250
					12/10/2024	1100	170	250
			mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	9200	590	850
					01/17/2024	6700	580	880
					02/06/2024	9500	510	770
					02/13/2024	5600	360	560
					03/05/2024	3600	360	550
					03/12/2024	6900	480	720
					04/02/2024	4700	620	910
					04/09/2024	7900	400	610
					05/07/2024	5600	630	930
					06/04/2024	4800	380	580
					06/11/2024	5700	650	960
					07/02/2024	5200	450	660
					07/09/2024	3600	360	540
					08/06/2024	6100	470	680
					08/13/2024	5700	340	500
					09/10/2024	5000	390	600
					09/25/2024	4000	400	620
					10/02/2024	5000	590	880
					10/08/2024	6500	420	650
					11/05/2024	5400	360	540
					11/19/2024	5700	360	530
					12/03/2024	3100	620	910
					12/10/2024	4400	680	1000
	Fluoride	EPA 300.0	mg/kg dry weight	Plant 1 Dewatering Cake	01/09/2024	ND	1.3	4.2
					07/02/2024	3.2 DNQ	1.2	3.9
		EPA 300.0	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	ND	1.1	3.7
					07/02/2024	3.0 DNQ	1.1	3.5
	Fluoride wet weight	EPA 300.0	mg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	0.31	1.0
					07/02/2024	0.82 DNQ	0.31	0.99
		EPA 300.0	mg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	0.31	1.0
					07/02/2024	0.85 DNQ	0.31	1.0
	Hexavalent Chromium	EPA 7196A	mg/kg dry weight	Plant 1 Dewatering Cake	01/09/2024	ND	12	33
					07/02/2024	ND	0.75	1.6
		EPA 7196A	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	ND	11	29
					07/02/2024	ND	0.66	1.4
	Hexavalent Chromium wet weight	EPA 7196A	mg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	2.9	7.9
					07/02/2024	ND	0.19	0.40
		EPA 7196A	mg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	2.9	7.9
					07/02/2024	ND	0.19	0.39
	Kjeldahl Nitrogen	EPA 351.2	mg/kg	Plant 1 Dewatering Cake	01/09/2024	13000	560	1100
					01/16/2024	14000	860	1700
					02/06/2024	14000	750	1500
					02/13/2024	14000	690	1400
					03/04/2024	13000	1100	2200
					03/12/2024	12000	950	1900
					04/02/2024	12000	710	1400
					04/09/2024	14000	820	1600
					05/07/2024	15000	480	960
					05/14/2024	12000	920	1800
					06/04/2024	13000	880	1800
					06/11/2024	13000	1100	2200
					07/02/2024	13000	980	2000
					07/09/2024	10000	830	1700
					08/06/2024	13000	1100	2200
					08/13/2024	13000	1100	2200
					09/10/2024	13000	910	1600
					09/25/2024	13000	1100	1900
					10/08/2024	12000	1200	2200
					10/15/2024	14000	1100	1800
					11/05/2024	13000	990	1700
					11/26/2024	13000	930	1600
					12/03/2024	14000	1100	1900
					12/10/2024	12000	960	1700
			mg/kg dry weight	Plant 1 Dewatering Cake	01/09/2024	54000	2300	4600
					01/16/2024	56000	3400	6700

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					02/06/2024	58000	3100	6300
					02/13/2024	56000	2800	5600
					03/04/2024	54000	4600	9100
					03/12/2024	48000	3800	7600
					04/02/2024	50000	2900	5800
					04/09/2024	56000	3300	6300
					05/07/2024	58000	1800	3700
					06/04/2024	51000	3400	7000
					06/11/2024	52000	4400	8700
					07/02/2024	51000	3900	7900
					07/09/2024	39000	3200	6600
					08/06/2024	54000	4600	9200
					08/13/2024	53000	4500	8900
					09/10/2024	52000	3600	6400
					09/25/2024	56000	4700	8100
					10/08/2024	53000	5300	9800
					10/15/2024	60000	4700	7800
					11/05/2024	54000	4100	7100
					11/26/2024	53000	3800	6600
					12/03/2024	60000	4700	8100
					12/10/2024	51000	4100	7200
		EPA 351.2	mg/kg	Plant 2 Dewatering Cake	01/10/2024	14000	810	1600
					01/17/2024	15000	770	1500
					02/06/2024	14000	780	1600
					02/13/2024	16000	680	1400
					03/05/2024	13000	970	1900
					03/12/2024	13000	930	1900
					04/02/2024	13000	740	1500
					04/09/2024	15000	840	1700
					05/07/2024	13000	790	1600
					05/14/2024	12000	720	1400
					06/04/2024	15000	1200	2300
					06/11/2024	13000	1200	2300
					07/02/2024	13000	790	1600
					07/09/2024	12000	1000	2100
					08/06/2024	13000	940	1900
					08/13/2024	12000	750	1500
					09/10/2024	14000	1000	1700
					09/25/2024	19000	1300	2200
					10/02/2024	12000	1000	1800
					10/08/2024	13000	1200	2100
					11/05/2024	14000	950	1600
					11/19/2024	12000	1100	1800
					12/03/2024	14000	910	1600
					12/10/2024	12000	1000	1700
			mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	52000	3000	5900
					01/17/2024	63000	3200	6300
					02/06/2024	51000	2800	5800
					02/13/2024	52000	2200	4600
					03/05/2024	47000	3500	6900
					03/12/2024	45000	3200	6500
					04/02/2024	47000	2700	5400
					04/09/2024	54000	3000	6100
					05/07/2024	48000	2900	5900
					06/04/2024	52000	4100	7900
					06/11/2024	50000	4600	8800
					07/02/2024	45000	2800	5600
					07/09/2024	43000	3600	7600
					08/06/2024	47000	3400	6800
					08/13/2024	43000	2700	5300
					09/10/2024	50000	3500	6000
					09/25/2024	69000	4700	8000
					10/02/2024	50000	4200	7500
					10/08/2024	49000	4600	8000
					11/05/2024	51000	3400	5800
					11/19/2024	46000	4200	6800
					12/03/2024	51000	3300	5800
					12/10/2024	48000	4000	6800

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Nitrate-N	EPA 300.0	mg/kg	Plant 1 Dewatering Cake	01/16/2024	ND	1.2	5.0
					02/06/2024	ND	0.49	2.0
					02/13/2024	ND	0.25	1.0
					03/04/2024	ND	0.24	0.99
					03/12/2024	ND	0.24	1.0
					04/02/2024	ND	0.25	1.0
					04/09/2024	ND	0.24	1.0
					05/07/2024	ND	0.24	0.99
					05/14/2024	ND	0.24	1.0
					06/04/2024	ND	0.49	2.0
					06/11/2024	ND	0.24	1.0
					07/02/2024	ND	0.24	0.99
					07/09/2024	0.26 DNQ	0.25	1.0
					08/06/2024	ND	0.24	1.0
					08/13/2024	ND	0.24	1.0
					09/10/2024	ND	0.24	1.0
					09/25/2024	ND	0.24	0.99
					10/08/2024	ND	0.49	2.0
					10/15/2024	ND	0.24	1.0
					11/05/2024	ND	0.49	2.0
					11/26/2024	ND	0.24	1.0
					12/03/2024	ND	1.2	5.0
					12/10/2024	ND	0.85	2.0
			mg/kg dry weight	Plant 1 Dewatering Cake	01/16/2024	ND	4.8	20
					02/06/2024	ND	2.0	8.3
					02/13/2024	ND	1.0	4.0
					03/04/2024	ND	1.0	4.1
					03/12/2024	ND	0.96	4.0
					04/02/2024	ND	1.0	4.1
					04/09/2024	ND	0.95	4.0
					05/07/2024	ND	0.92	3.8
					06/04/2024	ND	1.9	7.8
					06/11/2024	ND	0.95	4.0
					07/02/2024	ND	0.94	3.9
					07/09/2024	1.0 DNQ	0.97	3.9
					08/06/2024	ND	1.0	4.2
					08/13/2024	ND	0.97	4.0
					09/10/2024	ND	0.96	4.0
					09/25/2024	ND	1.0	4.2
					10/08/2024	ND	2.2	8.9
					10/15/2024	ND	1.0	4.3
					11/05/2024	ND	2.1	8.4
					11/26/2024	ND	0.99	4.1
					12/03/2024	ND	5.1	21
					12/10/2024	ND	3.6	8.5
		EPA 300.0	mg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	0.24	1.0
					02/06/2024	ND	0.49	2.0
					02/13/2024	ND	0.49	2.0
					03/05/2024	ND	0.24	1.0
					03/12/2024	ND	0.24	0.99
					04/02/2024	ND	0.24	1.0
					04/09/2024	ND	0.24	0.99
					05/07/2024	ND	0.24	0.99
					05/14/2024	ND	0.25	1.0
					06/04/2024	ND	0.49	2.0
					06/11/2024	ND	0.24	0.99
					07/02/2024	ND	0.24	1.0
					07/09/2024	ND	0.24	1.0
					08/06/2024	ND	1.2	5.0
					08/13/2024	ND	0.24	1.0
					09/10/2024	ND	0.24	1.0
					09/25/2024	ND	0.48	2.0
					10/02/2024	ND	0.25	1.0
					10/08/2024	ND	0.49	2.0
					11/05/2024	ND	0.49	2.0
					11/19/2024	ND	0.49	2.0
					12/03/2024	ND	1.2	5.0
					12/10/2024	ND	0.85	2.0

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
			mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	ND	0.89	3.7
					02/06/2024	ND	1.8	7.3
					02/13/2024	ND	1.6	6.6
					03/05/2024	ND	0.87	3.6
					03/12/2024	ND	0.82	3.4
					04/02/2024	ND	0.87	3.6
					04/09/2024	ND	0.87	3.6
					05/07/2024	ND	0.89	3.7
					06/04/2024	ND	1.7	6.9
					06/11/2024	ND	0.92	3.8
					07/02/2024	ND	0.84	3.5
					07/09/2024	ND	0.87	3.6
					08/06/2024	ND	4.3	18
					08/13/2024	ND	0.85	3.5
					09/10/2024	ND	0.85	3.5
					09/25/2024	ND	1.7	7.3
					10/02/2024	ND	1.0	4.2
					10/08/2024	ND	1.9	7.6
					11/05/2024	ND	1.8	7.2
					11/19/2024	ND	1.9	7.6
					12/03/2024	ND	4.4	18
					12/10/2024	ND	3.4	8.0
	Nitrite-N	EPA 300.0	mg/kg	Plant 1 Dewatering Cake	01/16/2024	ND	0.91	5.0
					02/06/2024	ND	0.36	2.0
					02/13/2024	ND	0.18	1.0
					03/04/2024	ND	0.18	0.99
					03/12/2024	ND	0.18	1.0
					04/02/2024	2.8	0.18	1.0
					04/09/2024	ND	0.18	1.0
					05/07/2024	2.7	0.18	0.99
					05/14/2024	0.89 DNQ	0.18	1.0
					06/04/2024	ND	0.37	2.0
					06/11/2024	ND	0.18	1.0
					07/02/2024	ND	0.18	0.99
					07/09/2024	2.2	0.18	1.0
					08/06/2024	ND	0.18	1.0
					08/13/2024	ND	0.18	1.0
					09/10/2024	ND	0.18	1.0
					09/25/2024	ND	0.18	0.99
					10/08/2024	ND	0.36	2.0
					10/15/2024	ND	0.18	1.0
					11/05/2024	ND	0.36	2.0
					11/26/2024	ND	0.18	1.0
					12/03/2024	ND	0.91	5.0
					12/10/2024	ND	1.4	2.0
			mg/kg dry weight	Plant 1 Dewatering Cake	01/16/2024	ND	3.6	20
					02/06/2024	ND	1.5	8.3
					02/13/2024	ND	0.72	4.0
					03/04/2024	ND	0.75	4.1
					03/12/2024	ND	0.72	4.0
					04/02/2024	12	0.75	4.1
					04/09/2024	ND	0.71	4.0
					05/07/2024	10	0.69	3.8
					06/04/2024	ND	1.4	7.8
					06/11/2024	ND	0.71	4.0
					07/02/2024	ND	0.71	3.9
					07/09/2024	8.5	0.70	3.9
					08/06/2024	ND	0.75	4.2
					08/13/2024	ND	0.73	4.0
					09/10/2024	ND	0.72	4.0
					09/25/2024	ND	0.77	4.2
					10/08/2024	ND	1.6	8.9
					10/15/2024	ND	0.78	4.3
					11/05/2024	ND	1.5	8.4
					11/26/2024	ND	0.74	4.1
					12/03/2024	ND	3.9	21
					12/10/2024	ND	6.0	8.5
		EPA 300.0	mg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	0.18	1.0

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					02/06/2024	ND	0.37	2.0
					02/13/2024	ND	0.36	2.0
					03/05/2024	ND	0.18	1.0
					03/12/2024	ND	0.18	0.99
					04/02/2024	ND	0.18	1.0
					04/09/2024	ND	0.18	0.99
					05/07/2024	ND	0.18	0.99
					05/14/2024	ND	0.18	1.0
					06/04/2024	2.0	0.36	2.0
					06/11/2024	ND	0.18	0.99
					07/02/2024	ND	0.18	1.0
					07/09/2024	ND	0.18	1.0
					08/06/2024	ND	0.91	5.0
					08/13/2024	ND	0.18	1.0
					09/10/2024	ND	0.18	1.0
					09/25/2024	ND	0.36	2.0
					10/02/2024	ND	0.18	1.0
					10/08/2024	ND	0.36	2.0
					11/05/2024	ND	0.36	2.0
					11/19/2024	ND	0.36	2.0
					12/03/2024	ND	0.90	5.0
					12/10/2024	ND	1.4	2.0
			mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	ND	0.66	3.7
					02/06/2024	ND	1.4	7.3
					02/13/2024	ND	1.2	6.6
					03/05/2024	ND	0.65	3.6
					03/12/2024	ND	0.62	3.4
					04/02/2024	ND	0.65	3.6
					04/09/2024	ND	0.65	3.6
					05/07/2024	ND	0.67	3.7
					06/04/2024	6.9	1.2	6.9
					06/11/2024	ND	0.69	3.8
					07/02/2024	ND	0.63	3.5
					07/09/2024	ND	0.65	3.6
					08/06/2024	ND	3.3	18
					08/13/2024	ND	0.64	3.5
					09/10/2024	ND	0.64	3.5
					09/25/2024	ND	1.3	7.3
					10/02/2024	ND	0.75	4.2
					10/08/2024	ND	1.4	7.6
					11/05/2024	ND	1.3	7.2
					11/19/2024	ND	1.4	7.6
					12/03/2024	ND	3.0	18
					12/10/2024	ND	5.6	8.0
	Organic Lead	HML 939-M	mg/kg dry weight	Plant 1 Dewatering Cake	01/09/2024	ND	0.079	0.084
					07/02/2024	ND	0.071	0.079
		HML 939-M	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	ND	0.070	0.074
					07/02/2024	ND	0.063	0.070
	Organic Lead wet weight	HML 939-M	mg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	0.019	0.020
					07/02/2024	ND	0.018	0.020
		HML 939-M	mg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	0.019	0.020
					07/02/2024	ND	0.018	0.020
	Organic Nitrogen	CALC	mg/kg dry weight	Plant 1 Dewatering Cake	01/16/2024	47000	--	--
					02/06/2024	51000	--	--
					02/13/2024	48000	--	--
					03/04/2024	49000	--	--
					03/12/2024	39000	--	--
					04/02/2024	43000	--	--
					04/09/2024	47000	--	--
					05/07/2024	52000	--	--
					06/04/2024	44000	--	--
					06/11/2024	44000	--	--
					07/02/2024	44000	--	--
					07/09/2024	34000	--	--
					08/06/2024	47000	--	--
					08/13/2024	48000	--	--
					09/10/2024	46000	--	--
					09/25/2024	50000	--	--

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					10/08/2024	45000	--	--
					10/15/2024	55000	--	--
					11/05/2024	48000	--	--
					11/26/2024	48000	--	--
					12/03/2024	56000	--	--
					12/10/2024	47000	--	--
		CALC	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	43000	--	--
					02/06/2024	42000	--	--
					02/13/2024	46000	--	--
					03/05/2024	43000	--	--
					03/12/2024	38000	--	--
					04/02/2024	42000	--	--
					04/09/2024	46000	--	--
					05/07/2024	42000	--	--
					06/04/2024	47000	--	--
					06/11/2024	44000	--	--
					07/02/2024	40000	--	--
					07/09/2024	39000	--	--
					08/06/2024	41000	--	--
					08/13/2024	37000	--	--
					09/10/2024	45000	--	--
					09/25/2024	65000	--	--
					10/02/2024	45000	--	--
					10/08/2024	43000	--	--
					11/05/2024	46000	--	--
					11/19/2024	40000	--	--
					12/03/2024	48000	--	--
					12/10/2024	44000	--	--
	Organic Nitrogen wet weight	CALC	mg/kg	Plant 1 Dewatering Cake	01/16/2024	12000	--	--
					02/06/2024	12000	--	--
					02/13/2024	12000	--	--
					03/04/2024	12000	--	--
					03/12/2024	9700	--	--
					04/02/2024	10000	--	--
					04/09/2024	12000	--	--
					05/07/2024	14000	--	--
					05/14/2024	9800	--	--
					06/04/2024	11000	--	--
					06/11/2024	11000	--	--
					07/02/2024	11000	--	--
					07/09/2024	8700	--	--
					08/06/2024	11000	--	--
					08/13/2024	12000	--	--
					09/10/2024	12000	--	--
					09/25/2024	12000	--	--
					10/08/2024	10000	--	--
					10/15/2024	13000	--	--
					11/05/2024	12000	--	--
					11/26/2024	12000	--	--
					12/03/2024	13000	--	--
					12/10/2024	11000	--	--
		CALC	mg/kg	Plant 2 Dewatering Cake	01/10/2024	12000	--	--
					02/06/2024	11000	--	--
					02/13/2024	14000	--	--
					03/05/2024	12000	--	--
					03/12/2024	11000	--	--
					04/02/2024	12000	--	--
					04/09/2024	13000	--	--
					05/07/2024	12000	--	--
					05/14/2024	9200	--	--
					06/04/2024	14000	--	--
					06/11/2024	12000	--	--
					07/02/2024	12000	--	--
					07/09/2024	11000	--	--
					08/06/2024	11000	--	--
					08/13/2024	10000	--	--
					09/10/2024	13000	--	--
					09/25/2024	18000	--	--

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					10/02/2024	11000	--	--
					10/08/2024	11000	--	--
					11/05/2024	13000	--	--
					11/19/2024	11000	--	--
					12/03/2024	13000	--	--
					12/10/2024	11000	--	--
	pH	EPA 9045C	pH units	Plant 1 Dewatering Cake	01/09/2024	7.9	0.01	0.01
					01/16/2024	8.0	0.01	0.01
					02/06/2024	7.5	0.01	0.01
					02/13/2024	7.9	0.01	0.01
					03/04/2024	7.8	0.01	0.01
					03/12/2024	7.8	0.01	0.01
					04/02/2024	8.0	0.01	0.01
					04/09/2024	7.9	0.01	0.01
					05/07/2024	8.1	0.01	0.01
					05/14/2024	8.0	0.01	0.01
					06/04/2024	8.4	0.01	0.01
					06/11/2024	7.8	0.01	0.01
					07/02/2024	8.1	0.01	0.01
					07/09/2024	8.1	0.01	0.01
					08/06/2024	8.0	0.01	0.01
					08/13/2024	8.0	0.01	0.01
					09/10/2024	7.9	0.01	0.01
					09/25/2024	8.1	0.01	0.01
					10/08/2024	7.8	0.01	0.01
					10/15/2024	8.1	0.01	0.01
					11/05/2024	7.8	0.01	0.01
					11/26/2024	7.8	0.01	0.01
					12/03/2024	7.8	0.01	0.01
					12/10/2024	7.8	0.01	0.01
		EPA 9045C	pH units	Plant 2 Dewatering Cake	01/10/2024	7.9	0.01	0.01
					01/17/2024	8.0	0.01	0.01
					02/06/2024	7.8	0.01	0.01
					02/13/2024	7.9	0.01	0.01
					03/05/2024	7.8	0.01	0.01
					03/12/2024	7.7	0.01	0.01
					04/02/2024	8.1	0.01	0.01
					04/09/2024	7.7	0.01	0.01
					05/07/2024	7.9	0.01	0.01
					05/14/2024	8.0	0.01	0.01
					06/04/2024	8.0	0.01	0.01
					06/11/2024	8.0	0.01	0.01
					07/02/2024	8.0	0.01	0.01
					07/09/2024	8.0	0.01	0.01
					08/06/2024	8.1	0.01	0.01
					08/13/2024	7.8	0.01	0.01
					09/10/2024	8.0	0.01	0.01
					09/25/2024	7.9	0.01	0.01
					10/02/2024	7.9	0.01	0.01
					10/08/2024	7.9	0.01	0.01
					11/05/2024	8.0	0.01	0.01
					11/19/2024	7.8	0.01	0.01
					12/03/2024	7.6	0.01	0.01
					12/10/2024	8.1	0.01	0.01
	Total Nitrogen	CALC	mg/kg dry weight	Plant 1 Dewatering Cake	01/16/2024	56000	--	--
					02/06/2024	58000	--	--
					02/13/2024	56000	--	--
					03/04/2024	54000	--	--
					03/12/2024	48000	--	--
					04/02/2024	50000	--	--
					04/09/2024	56000	--	--
					05/07/2024	58000	--	--
					06/04/2024	51000	--	--
					06/11/2024	52000	--	--
					07/02/2024	51000	--	--
					07/09/2024	39000	--	--
					08/06/2024	54000	--	--
					08/13/2024	53000	--	--

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					09/10/2024	52000	--	--
					09/25/2024	56000	--	--
					10/08/2024	53000	--	--
					10/15/2024	60000	--	--
					11/05/2024	54000	--	--
					11/26/2024	53000	--	--
					12/03/2024	60000	--	--
					12/10/2024	51000	--	--
		CALC	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	52000	--	--
					02/06/2024	51000	--	--
					02/13/2024	52000	--	--
					03/05/2024	47000	--	--
					03/12/2024	45000	--	--
					04/02/2024	47000	--	--
					04/09/2024	54000	--	--
					05/07/2024	48000	--	--
					06/04/2024	52000	--	--
					06/11/2024	50000	--	--
					07/02/2024	45000	--	--
					07/09/2024	43000	--	--
					08/06/2024	47000	--	--
					08/13/2024	43000	--	--
					09/10/2024	50000	--	--
					09/25/2024	69000	--	--
					10/02/2024	50000	--	--
					10/08/2024	49000	--	--
					11/05/2024	51000	--	--
					11/19/2024	46000	--	--
					12/03/2024	51000	--	--
					12/10/2024	48000	--	--
	Total Nitrogen wet weight	CALC	mg/kg	Plant 1 Dewatering Cake	01/16/2024	14000	--	--
					02/06/2024	14000	--	--
					02/13/2024	14000	--	--
					03/04/2024	13000	--	--
					03/12/2024	12000	--	--
					04/02/2024	12000	--	--
					04/09/2024	14000	--	--
					05/07/2024	15000	--	--
					05/14/2024	12000	--	--
					06/04/2024	13000	--	--
					06/11/2024	13000	--	--
					07/02/2024	13000	--	--
					07/09/2024	10000	--	--
					08/06/2024	13000	--	--
					08/13/2024	13000	--	--
					09/10/2024	13000	--	--
					09/25/2024	13000	--	--
					10/08/2024	12000	--	--
					10/15/2024	14000	--	--
					11/05/2024	13000	--	--
					11/26/2024	13000	--	--
					12/03/2024	14000	--	--
					12/10/2024	12000	--	--
		CALC	mg/kg	Plant 2 Dewatering Cake	01/10/2024	14000	--	--
					02/06/2024	14000	--	--
					02/13/2024	16000	--	--
					03/05/2024	13000	--	--
					03/12/2024	13000	--	--
					04/02/2024	13000	--	--
					04/09/2024	15000	--	--
					05/07/2024	13000	--	--
					05/14/2024	12000	--	--
					06/04/2024	15000	--	--
					06/11/2024	13000	--	--
					07/02/2024	13000	--	--
					07/09/2024	12000	--	--
					08/06/2024	13000	--	--
					08/13/2024	12000	--	--

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					09/10/2024	14000	--	--
					09/25/2024	19000	--	--
					10/02/2024	12000	--	--
					10/08/2024	13000	--	--
					11/05/2024	14000	--	--
					11/19/2024	12000	--	--
					12/03/2024	14000	--	--
					12/10/2024	12000	--	--
	Total Solids	SM 2540G	%	Plant 1 Dewatering Cake	01/09/2024	23.9	0.100	0.100
					01/16/2024	25.2	0.100	0.100
					02/06/2024	24.0	0.100	0.100
					02/13/2024	24.9	0.100	0.100
					03/04/2024	24.1	0.100	0.100
					03/12/2024	24.9	0.100	0.100
					04/02/2024	24.1	0.100	0.100
					04/09/2024	25.2	0.100	0.100
					05/07/2024	26.0	0.100	0.100
					06/04/2024	25.7	0.100	0.100
					06/11/2024	25.2	0.100	0.100
					07/02/2024	25.4	0.100	0.100
					07/09/2024	25.8	0.100	0.100
					08/06/2024	24.0	0.100	0.100
					08/13/2024	24.7	0.100	0.100
					09/10/2024	25.1	0.100	0.100
					09/25/2024	23.4	0.100	0.100
					10/08/2024	22.5	0.100	0.100
					10/15/2024	23.2	0.100	0.100
					11/05/2024	23.9	0.100	0.100
					11/26/2024	24.3	0.100	0.100
					12/03/2024	23.4	0.100	0.100
					12/10/2024	23.5	0.100	0.100
					02/06/2024	27.4	0.100	0.100
					02/13/2024	30.5	0.100	0.100
					03/05/2024	27.5	0.100	0.100
					03/12/2024	29.1	0.100	0.100
					04/02/2024	27.6	0.100	0.100
					04/09/2024	27.7	0.100	0.100
					05/07/2024	27.0	0.100	0.100
					06/04/2024	29.1	0.100	0.100
					06/11/2024	26.1	0.100	0.100
					07/02/2024	28.7	0.100	0.100
					07/09/2024	27.6	0.100	0.100
					08/06/2024	27.9	0.100	0.100
					08/13/2024	28.2	0.100	0.100
					09/10/2024	28.2	0.100	0.100
					09/25/2024	27.5	0.100	0.100
					10/02/2024	23.9	0.100	0.100
					10/08/2024	26.3	0.100	0.100
					11/05/2024	27.6	0.100	0.100
					11/19/2024	26.3	0.100	0.100
					12/03/2024	27.4	0.100	0.100
					12/10/2024	25.0	0.100	0.100
Trace Elements	Antimony	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/09/2024	ND	12	42
					07/02/2024	ND	11	39
		EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	11 DNQ	11	37
					07/02/2024	ND	10	35
	Antimony wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	2.9	10
					07/02/2024	ND	2.8	9.9
		EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/10/2024	3.0 DNQ	2.9	10
					07/02/2024	ND	2.9	10
	Arsenic	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/09/2024	7.1 DNQ	5.9	13
					01/16/2024	7.5 DNQ	5.6	12
					02/06/2024	7.1 DNQ	5.8	13
					02/13/2024	10 DNQ	5.6	12
					03/04/2024	10.0 DNQ	5.8	13
					03/12/2024	9.6 DNQ	5.6	12
					04/02/2024	10.0 DNQ	5.8	13
					04/09/2024	ND	5.6	12

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					05/07/2024	ND	5.4	12
					06/04/2024	6.6 DNQ	5.4	12
					06/11/2024	ND	5.6	12
					07/02/2024	11 DNQ	5.5	12
					07/09/2024	ND	5.4	12
					08/06/2024	7.5 DNQ	5.8	13
					08/13/2024	9.3 DNQ	5.7	12
					09/10/2024	12	5.6	12
					09/25/2024	9.0 DNQ	6.0	13
					10/08/2024	7.6 DNQ	6.2	14
					10/15/2024	ND	6.0	13
					11/05/2024	6.7 DNQ	5.9	13
					11/26/2024	ND	5.8	12
					12/03/2024	6.0 DNQ	6.0	13
					12/10/2024	6.4 DNQ	6.0	13
		EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	6.3 DNQ	5.2	11
					01/17/2024	10 DNQ	5.8	13
					02/06/2024	10 DNQ	5.1	11
					02/13/2024	8.5 DNQ	4.6	10
					03/05/2024	12	5.1	11
					03/12/2024	8.9 DNQ	4.8	10
					04/02/2024	11	5.1	11
					04/09/2024	9.0 DNQ	5.1	11
					05/07/2024	ND	5.2	11
					06/04/2024	7.9 DNQ	4.8	10
					06/11/2024	7.7 DNQ	5.4	11
					07/02/2024	9.8 DNQ	4.9	10
					07/09/2024	6.5 DNQ	5.1	11
					08/06/2024	11	5.0	11
					08/13/2024	12	5.0	11
					09/10/2024	11	5.0	11
					09/25/2024	9.8 DNQ	5.1	11
					10/02/2024	9.6 DNQ	5.9	13
					10/08/2024	10 DNQ	5.3	11
					11/05/2024	8.3 DNQ	5.1	11
					11/19/2024	7.6 DNQ	5.3	12
					12/03/2024	8.8 DNQ	5.1	11
					12/10/2024	9.6 DNQ	5.6	12
	Arsenic wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/09/2024	1.7 DNQ	1.4	3.0
					01/16/2024	1.9 DNQ	1.4	3.0
					02/06/2024	1.7 DNQ	1.4	3.0
					02/13/2024	2.5 DNQ	1.4	3.0
					03/04/2024	2.4 DNQ	1.4	3.1
					03/12/2024	2.4 DNQ	1.4	3.1
					04/02/2024	2.4 DNQ	1.4	3.1
					04/09/2024	ND	1.4	3.0
					05/07/2024	ND	1.4	3.0
					05/14/2024	2.3 DNQ	1.4	3.0
					06/04/2024	1.7 DNQ	1.4	3.0
					06/11/2024	ND	1.4	3.1
					07/02/2024	2.7 DNQ	1.4	3.0
					07/09/2024	ND	1.4	3.0
					08/06/2024	1.8 DNQ	1.4	3.0
					08/13/2024	2.3 DNQ	1.4	2.9
					09/10/2024	2.9 DNQ	1.4	3.0
					09/25/2024	2.1 DNQ	1.4	3.1
					10/08/2024	1.7 DNQ	1.4	3.1
					10/15/2024	ND	1.4	3.1
					11/05/2024	1.6 DNQ	1.4	3.1
					11/26/2024	ND	1.4	3.0
					12/03/2024	1.4 DNQ	1.4	3.0
					12/10/2024	1.5 DNQ	1.4	3.1
					02/06/2024	2.8 DNQ	1.4	3.0
					02/13/2024	2.6 DNQ	1.4	3.1
					03/05/2024	3.3	1.4	3.0
					03/12/2024	2.6 DNQ	1.4	2.9
					04/02/2024	3.1	1.4	3.0
					04/09/2024	2.5 DNQ	1.4	3.0

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					05/07/2024	ND	1.4	3.1
					05/14/2024	2.4 DNQ	1.4	3.0
					06/04/2024	2.3 DNQ	1.4	3.0
					06/11/2024	2.0 DNQ	1.4	2.9
					07/02/2024	2.8 DNQ	1.4	3.0
					07/09/2024	1.8 DNQ	1.4	2.9
					08/06/2024	3.1	1.4	3.0
					08/13/2024	3.3	1.4	3.1
					09/10/2024	3.1	1.4	3.0
					09/25/2024	2.7 DNQ	1.4	3.1
					10/02/2024	2.3 DNQ	1.4	3.0
					10/08/2024	2.7 DNQ	1.4	3.0
					11/05/2024	2.3 DNQ	1.4	3.0
					11/19/2024	2.0 DNQ	1.4	3.1
					12/03/2024	2.4 DNQ	1.4	3.0
					12/10/2024	2.4 DNQ	1.4	3.0
	Barium	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/09/2024	410	0.59	13
					07/02/2024	430	0.55	12
		EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	770	0.52	11
					07/02/2024	870	0.49	10
	Barium wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/09/2024	98	0.14	3.0
					07/02/2024	110	0.14	3.0
		EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/10/2024	210	0.14	3.0
					07/02/2024	250	0.14	3.0
	Beryllium	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/09/2024	ND	0.29	2.1
					07/02/2024	ND	0.27	2.0
		EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	ND	0.26	1.9
					07/02/2024	ND	0.24	1.8
	Beryllium wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	0.070	0.51
					07/02/2024	ND	0.068	0.50
		EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	0.070	0.51
					07/02/2024	ND	0.070	0.51
	Cadmium	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/09/2024	4.0	0.71	2.1
					01/16/2024	3.7	0.67	2.0
					02/06/2024	4.2	0.67	2.1
					02/13/2024	3.4	0.64	2.0
					03/04/2024	3.6	0.71	2.1
					03/12/2024	3.4	0.68	2.0
					04/02/2024	4.1	0.71	2.1
					04/09/2024	5.6	0.67	2.0
					05/07/2024	2.0	0.62	1.9
					06/04/2024	2.1	0.66	2.0
					06/11/2024	1.9 DNQ	0.67	2.0
					07/02/2024	3.1	0.63	2.0
					07/09/2024	2.6	0.62	1.9
					08/06/2024	2.6	0.71	2.1
					08/13/2024	2.2	0.65	2.0
					09/10/2024	2.1	0.68	2.0
					09/25/2024	2.2	0.73	2.2
					10/08/2024	2.7	0.76	2.3
					10/15/2024	1.9 DNQ	0.73	2.2
					11/05/2024	2.6	0.71	2.1
					11/26/2024	3.8	0.66	2.1
					12/03/2024	4.3	0.68	2.1
					12/10/2024	4.1	0.72	2.2
		EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	2.0	0.63	1.9
					01/17/2024	2.5	0.71	2.1
					02/06/2024	2.2	0.62	1.9
					02/13/2024	1.8	0.56	1.7
					03/05/2024	2.1	0.62	1.9
					03/12/2024	2.1	0.55	1.7
					04/02/2024	2.3	0.58	1.8
					04/09/2024	2.4	0.61	1.8
					05/07/2024	1.7 DNQ	0.63	1.9
					06/04/2024	2.0	0.58	1.8
					06/11/2024	1.8 DNQ	0.61	1.9
					07/02/2024	3.5	0.59	1.8
					07/09/2024	3.4	0.58	1.8

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					08/06/2024	2.5	0.57	1.8
					08/13/2024	2.2	0.60	1.8
					09/10/2024	2.0	0.57	1.8
					09/25/2024	2.3	0.62	1.9
					10/02/2024	2.4	0.67	2.1
					10/08/2024	2.2	0.65	1.9
					11/05/2024	3.3	0.62	1.8
					11/19/2024	2.5	0.65	1.9
					12/03/2024	2.4	0.58	1.8
					12/10/2024	2.6	0.68	2.0
	Cadmium wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/09/2024	0.95	0.17	0.51
					01/16/2024	0.94	0.17	0.51
					02/06/2024	1.0	0.16	0.50
					02/13/2024	0.85	0.16	0.50
					03/04/2024	0.87	0.17	0.51
					03/12/2024	0.84	0.17	0.51
					04/02/2024	1.0	0.17	0.51
					04/09/2024	1.4	0.17	0.51
					05/07/2024	0.51	0.16	0.50
					05/14/2024	0.89	0.16	0.50
					06/04/2024	0.54	0.17	0.51
					06/11/2024	0.48 DNQ	0.17	0.51
					07/02/2024	0.79	0.16	0.50
					07/09/2024	0.67	0.16	0.50
					08/06/2024	0.63	0.17	0.51
					08/13/2024	0.55	0.16	0.49
					09/10/2024	0.52	0.17	0.51
					09/25/2024	0.51	0.17	0.51
					10/08/2024	0.60	0.17	0.51
					10/15/2024	0.45 DNQ	0.17	0.51
					11/05/2024	0.61	0.17	0.51
					11/26/2024	0.93	0.16	0.50
					12/03/2024	1.0	0.16	0.50
					12/10/2024	0.97	0.17	0.51
		EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/10/2024	0.54	0.17	0.51
					01/17/2024	0.61	0.17	0.51
					02/06/2024	0.59	0.17	0.51
					02/13/2024	0.56	0.17	0.51
					03/05/2024	0.57	0.17	0.51
					03/12/2024	0.62	0.16	0.49
					04/02/2024	0.64	0.16	0.50
					04/09/2024	0.67	0.17	0.51
					05/07/2024	0.46 DNQ	0.17	0.51
					05/14/2024	0.65	0.16	0.50
					06/04/2024	0.58	0.17	0.51
					06/11/2024	0.48 DNQ	0.16	0.49
					07/02/2024	1.0	0.17	0.51
					07/09/2024	0.95	0.16	0.49
					08/06/2024	0.69	0.16	0.50
					08/13/2024	0.63	0.17	0.51
					09/10/2024	0.57	0.16	0.50
					09/25/2024	0.63	0.17	0.51
					10/02/2024	0.57	0.16	0.50
					10/08/2024	0.59	0.17	0.51
					11/05/2024	0.91	0.17	0.51
					11/19/2024	0.66	0.17	0.51
					12/03/2024	0.67	0.16	0.50
					12/10/2024	0.66	0.17	0.51
	Chromium	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/09/2024	35	0.79	4.2
					01/16/2024	39	0.75	4.0
					02/06/2024	37	0.79	4.2
					02/13/2024	38	0.76	4.0
					03/04/2024	35	0.79	4.1
					03/12/2024	37	0.76	4.0
					04/02/2024	37	0.79	4.1
					04/09/2024	38	0.75	4.0
					05/07/2024	25	0.73	3.8
					06/04/2024	25	0.74	3.9

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					06/11/2024	28	0.75	4.0
					07/02/2024	33	0.71	3.9
					07/09/2024	30	0.70	3.8
					08/06/2024	30	0.79	4.2
					08/13/2024	30	0.73	4.0
					09/10/2024	34	0.76	4.0
					09/25/2024	41	0.81	4.3
					10/08/2024	38	0.84	4.4
					10/15/2024	31	0.82	4.3
					11/05/2024	32	0.79	4.0
					11/26/2024	37	0.78	4.1
					12/03/2024	38	0.81	4.3
					12/10/2024	35	0.81	4.3
		EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	32	0.70	3.7
					01/17/2024	50	0.79	4.2
					02/06/2024	40	0.69	3.6
					02/13/2024	39	0.62	3.3
					03/05/2024	40	0.69	3.6
					03/12/2024	38	0.62	3.3
					04/02/2024	40	0.69	3.6
					04/09/2024	43	0.69	3.6
					05/07/2024	24	0.70	3.7
					06/04/2024	24	0.65	3.4
					06/11/2024	24	0.69	3.8
					07/02/2024	34	0.66	3.5
					07/09/2024	33	0.65	3.6
					08/06/2024	34	0.68	3.6
					08/13/2024	35	0.67	3.5
					09/10/2024	39	0.64	3.5
					09/25/2024	47	0.69	3.6
					10/02/2024	46	0.79	4.2
					10/08/2024	42	0.72	3.8
					11/05/2024	43	0.69	4.0
					11/19/2024	38	0.72	3.8
					12/03/2024	44	0.66	3.6
					12/10/2024	44	0.76	4.0
	Chromium wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/09/2024	8.3	0.19	1.0
					01/16/2024	9.8	0.19	1.0
					02/06/2024	8.9	0.19	1.0
					02/13/2024	9.4	0.19	1.0
					03/04/2024	8.5	0.19	1.0
					03/12/2024	9.2	0.19	1.0
					04/02/2024	8.8	0.19	1.0
					04/09/2024	9.7	0.19	1.0
					05/07/2024	6.5	0.19	1.0
					05/14/2024	9.4	0.19	1.0
					06/04/2024	6.3	0.19	1.0
					06/11/2024	7.0	0.19	1.0
					07/02/2024	8.5	0.18	0.99
					07/09/2024	7.8	0.18	0.99
					08/06/2024	7.2	0.19	1.0
					08/13/2024	7.5	0.18	0.98
					09/10/2024	8.5	0.19	1.0
					09/25/2024	9.7	0.19	1.0
					10/08/2024	8.5	0.19	1.0
					10/15/2024	7.3	0.19	1.0
					11/05/2024	7.7	0.19	1.0
					11/26/2024	8.9	0.19	1.0
					12/03/2024	8.9	0.19	1.0
					12/10/2024	8.3	0.19	1.0
		EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/10/2024	8.8	0.19	1.0
					01/17/2024	12	0.19	1.0
					02/06/2024	11	0.19	1.0
					02/13/2024	12	0.19	1.0
					03/05/2024	11	0.19	1.0
					03/12/2024	11	0.18	0.97
					04/02/2024	11	0.19	1.0
					04/09/2024	12	0.19	1.0

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					05/07/2024	6.5	0.19	1.0
					05/14/2024	8.9	0.19	1.0
					06/04/2024	7.0	0.19	1.0
					06/11/2024	6.3	0.18	0.98
					07/02/2024	9.7	0.19	1.0
					07/09/2024	9.1	0.18	0.98
					08/06/2024	9.5	0.19	1.0
					08/13/2024	10	0.19	1.0
					09/10/2024	11	0.18	0.99
					09/25/2024	13	0.19	1.0
					10/02/2024	11	0.19	1.0
					10/08/2024	11	0.19	1.0
					11/05/2024	12	0.19	1.0
					11/19/2024	10	0.19	1.0
					12/03/2024	12	0.18	0.99
					12/10/2024	11	0.19	1.0
	Cobalt	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/09/2024	4.6	0.88	4.2
					07/02/2024	3.9	0.80	3.9
		EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	4.8	0.77	3.7
					07/02/2024	5.6	0.73	3.5
	Cobalt wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/09/2024	1.1	0.21	1.0
					07/02/2024	1.0	0.20	0.99
		EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/10/2024	1.3	0.21	1.0
					07/02/2024	1.6	0.21	1.0
	Copper	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/09/2024	360	4.1	8.4
					01/16/2024	380	3.8	7.9
					02/06/2024	460	4.0	8.3
					02/13/2024	400	3.9	8.0
					03/04/2024	460	4.1	8.7
					03/12/2024	440	3.9	8.0
					04/02/2024	410	4.1	8.3
					04/09/2024	440	3.8	7.9
					05/07/2024	220	3.7	7.7
					06/04/2024	280	3.8	7.8
					06/11/2024	310	3.9	7.9
					07/02/2024	470	3.7	7.9
					07/09/2024	470	3.7	7.8
					08/06/2024	500	4.0	8.3
					08/13/2024	490	3.8	8.1
					09/10/2024	480	3.9	8.0
					09/25/2024	510	4.2	8.5
					10/08/2024	490	4.4	8.9
					10/15/2024	430	4.2	8.6
					11/05/2024	410	4.1	8.0
					11/26/2024	450	3.9	8.2
					12/03/2024	470	4.1	8.5
					12/10/2024	420	4.2	8.5
		EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	250	3.6	7.4
					01/17/2024	330	4.1	8.3
					02/06/2024	350	3.5	7.3
					02/13/2024	320	3.2	6.6
					03/05/2024	350	3.5	7.3
					03/12/2024	340	3.2	6.5
					04/02/2024	360	3.5	7.2
					04/09/2024	360	3.5	7.2
					05/07/2024	230	3.6	7.4
					06/04/2024	230	3.3	6.9
					06/11/2024	250	3.6	7.7
					07/02/2024	340	3.4	7.0
					07/09/2024	340	3.4	7.2
					08/06/2024	360	3.4	7.2
					08/13/2024	350	3.5	7.1
					09/10/2024	350	3.4	7.1
					09/25/2024	400	3.6	7.3
					10/02/2024	420	4.0	8.4
					10/08/2024	380	3.7	7.6
					11/05/2024	400	3.5	7.0
					11/19/2024	370	3.7	7.6

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					12/03/2024	360	3.5	7.3
					12/10/2024	370	3.9	8.0
	Copper wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/09/2024	87	0.97	2.0
					01/16/2024	95	0.97	2.0
					02/06/2024	110	0.96	2.0
					02/13/2024	100	0.96	2.0
					03/04/2024	110	0.98	2.1
					03/12/2024	110	0.98	2.0
					04/02/2024	99	0.98	2.0
					04/09/2024	110	0.97	2.0
					05/07/2024	58	0.96	2.0
					05/14/2024	110	0.96	2.0
					06/04/2024	72	0.97	2.0
					06/11/2024	78	0.98	2.0
					07/02/2024	120	0.95	2.0
					07/09/2024	120	0.95	2.0
					08/06/2024	120	0.97	2.0
					08/13/2024	120	0.94	2.0
					09/10/2024	120	0.97	2.0
					09/25/2024	120	0.98	2.0
					10/08/2024	110	0.98	2.0
					10/15/2024	100	0.98	2.0
					11/05/2024	97	0.98	2.0
					11/26/2024	110	0.95	2.0
					12/03/2024	110	0.95	2.0
					12/10/2024	99	0.98	2.0
		EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/10/2024	67	0.97	2.0
					01/17/2024	79	0.98	2.0
					02/06/2024	97	0.97	2.0
					02/13/2024	98	0.98	2.0
					03/05/2024	96	0.97	2.0
					03/12/2024	100	0.93	1.9
					04/02/2024	99	0.96	2.0
					04/09/2024	100	0.97	2.0
					05/07/2024	62	0.98	2.0
					05/14/2024	91	0.95	2.0
					06/04/2024	68	0.97	2.0
					06/11/2024	64	0.94	2.0
					07/02/2024	98	0.97	2.0
					07/09/2024	94	0.93	2.0
					08/06/2024	100	0.96	2.0
					08/13/2024	100	0.98	2.0
					09/10/2024	100	0.95	2.0
					09/25/2024	110	0.98	2.0
					10/02/2024	100	0.96	2.0
					10/08/2024	100	0.97	2.0
					11/05/2024	110	0.97	2.0
					11/19/2024	96	0.98	2.0
					12/03/2024	100	0.95	2.0
					12/10/2024	92	0.97	2.0
	Iron	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/09/2024	54000	26	100
					07/02/2024	59000	24	98
		EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	55000	23	92
					07/02/2024	70000	21	87
	Iron wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/09/2024	13000	6.1	25
					07/02/2024	15000	6.0	25
		EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/10/2024	15000	6.1	25
					07/02/2024	20000	6.1	25
	Lead	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/09/2024	10	1.8	8.4
					01/16/2024	9.5	1.7	7.9
					02/06/2024	12	1.7	8.3
					02/13/2024	10	1.6	8.0
					03/04/2024	11	1.7	8.7
					03/12/2024	11	1.7	8.0
					04/02/2024	11	1.7	8.3
					04/09/2024	13	1.6	7.9
					05/07/2024	6.9 DNQ	1.6	7.7
					06/04/2024	7.0 DNQ	1.6	7.8

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					06/11/2024	8.7	1.7	7.9
					07/02/2024	11	1.6	7.9
					07/09/2024	7.8	1.6	7.8
					08/06/2024	11	1.7	8.3
					08/13/2024	8.1	1.6	8.1
					09/10/2024	16	1.6	8.0
					09/25/2024	11	1.8	8.5
					10/08/2024	10	1.9	8.9
					10/15/2024	6.9 DNQ	1.8	8.6
					11/05/2024	9.6	1.8	8.0
					11/26/2024	9.1	1.7	8.2
					12/03/2024	9.4	1.8	8.5
					12/10/2024	8.9	1.8	8.5
		EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	7.7	1.5	7.4
					01/17/2024	12	1.8	8.3
					02/06/2024	12	1.5	7.3
					02/13/2024	9.8	1.4	6.6
					03/05/2024	11	1.5	7.3
					03/12/2024	12	1.4	6.5
					04/02/2024	11	1.5	7.2
					04/09/2024	13	1.5	7.2
					05/07/2024	7.0 DNQ	1.6	7.4
					06/04/2024	5.5 DNQ	1.4	6.9
					06/11/2024	7.7	1.5	7.7
					07/02/2024	9.1	1.4	7.0
					07/09/2024	9.4	1.4	7.2
					08/06/2024	10	1.5	7.2
					08/13/2024	8.2	1.5	7.1
					09/10/2024	7.8	1.4	7.1
					09/25/2024	18	1.5	7.3
					10/02/2024	10	1.7	8.4
					10/08/2024	8.4	1.6	7.6
					11/05/2024	10	1.5	7.0
					11/19/2024	9.9	1.6	7.6
					12/03/2024	9.5	1.5	7.3
					12/10/2024	7.2 DNQ	1.7	8.0
	Lead wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/09/2024	2.4	0.42	2.0
					01/16/2024	2.4	0.42	2.0
					02/06/2024	2.9	0.41	2.0
					02/13/2024	2.6	0.41	2.0
					03/04/2024	2.7	0.42	2.1
					03/12/2024	2.8	0.42	2.0
					04/02/2024	2.7	0.42	2.0
					04/09/2024	3.2	0.41	2.0
					05/07/2024	1.8 DNQ	0.41	2.0
					05/14/2024	3.2	0.41	2.0
					06/04/2024	1.8 DNQ	0.41	2.0
					06/11/2024	2.2	0.42	2.0
					07/02/2024	2.9	0.40	2.0
					07/09/2024	2.0	0.40	2.0
					08/06/2024	2.6	0.41	2.0
					08/13/2024	2.0	0.40	2.0
					09/10/2024	3.9	0.41	2.0
					09/25/2024	2.6	0.42	2.0
					10/08/2024	2.3	0.42	2.0
					10/15/2024	1.6 DNQ	0.42	2.0
					11/05/2024	2.3	0.42	2.0
					11/26/2024	2.2	0.41	2.0
					12/03/2024	2.2	0.41	2.0
					12/10/2024	2.1	0.42	2.0
		EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/10/2024	2.1	0.41	2.0
					01/17/2024	2.8	0.42	2.0
					02/06/2024	3.3	0.41	2.0
					02/13/2024	3.0	0.42	2.0
					03/05/2024	3.1	0.41	2.0
					03/12/2024	3.4	0.40	1.9
					04/02/2024	3.0	0.41	2.0
					04/09/2024	3.5	0.42	2.0

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					05/07/2024	1.9 DNQ	0.42	2.0
					05/14/2024	2.1	0.41	2.0
					06/04/2024	1.6 DNQ	0.42	2.0
					06/11/2024	2.0	0.40	2.0
					07/02/2024	2.6	0.41	2.0
					07/09/2024	2.6	0.40	2.0
					08/06/2024	2.8	0.41	2.0
					08/13/2024	2.3	0.42	2.0
					09/10/2024	2.2	0.40	2.0
					09/25/2024	4.9	0.42	2.0
					10/02/2024	2.5	0.41	2.0
					10/08/2024	2.2	0.41	2.0
					11/05/2024	2.8	0.42	2.0
					11/19/2024	2.6	0.42	2.0
					12/03/2024	2.6	0.40	2.0
					12/10/2024	1.8 DNQ	0.42	2.0
	Mercury	EPA 7471A	mg/kg dry weight	Plant 1 Dewatering Cake	01/09/2024	0.59	0.088	0.33
					01/16/2024	0.52	0.083	0.31
					02/06/2024	0.83	0.092	0.35
					02/13/2024	0.80	0.088	0.33
					03/04/2024	0.54	0.091	0.34
					03/12/2024	0.56	0.088	0.33
					04/02/2024	0.58	0.095	0.36
					04/09/2024	0.39	0.087	0.33
					05/07/2024	1.2	0.081	0.31
					06/04/2024	0.58	0.086	0.32
					06/11/2024	0.67	0.083	0.32
					07/02/2024	1.3	0.087	0.33
					07/09/2024	ND	8.5	32
					08/06/2024	0.54	0.088	0.33
					08/13/2024	0.61	0.085	0.32
					09/10/2024	0.64	0.084	0.31
					09/25/2024	0.68	0.094	0.35
					10/08/2024	0.62	0.093	0.36
					10/15/2024	0.69	0.095	0.36
					11/05/2024	0.34 DNQ	0.10	0.36
					11/26/2024	0.91	0.091	0.33
					12/03/2024	0.60	0.10	0.38
					12/10/2024	0.16 DNQ	0.094	0.34
		EPA 7471A	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	0.48	0.081	0.30
					01/17/2024	0.40	0.088	0.33
					02/06/2024	0.62	0.077	0.29
					02/13/2024	0.79	0.072	0.27
					03/05/2024	0.40	0.080	0.30
					03/12/2024	0.58	0.072	0.27
					04/02/2024	0.080 DNQ	0.080	0.30
					04/09/2024	ND	0.083	0.32
					05/07/2024	0.48	0.081	0.31
					06/04/2024	0.58	0.076	0.29
					06/11/2024	0.35	0.084	0.32
					07/02/2024	0.45	0.077	0.29
					07/09/2024	0.62	0.083	0.32
					08/06/2024	0.43	0.075	0.29
					08/13/2024	0.57	0.074	0.28
					09/10/2024	0.46	0.074	0.28
					09/25/2024	1.3	0.084	0.32
					10/02/2024	0.54	0.096	0.37
					10/08/2024	0.65	0.084	0.32
					11/05/2024	0.21 DNQ	0.083	0.31
					11/19/2024	0.65	0.087	0.31
					12/03/2024	0.55	0.084	0.30
					12/10/2024	0.52	0.092	0.34
	Mercury wet weight	EPA 7471A	mg/kg	Plant 1 Dewatering Cake	01/09/2024	0.14	0.021	0.080
					01/16/2024	0.13	0.021	0.079
					02/06/2024	0.20	0.022	0.083
					02/13/2024	0.20	0.022	0.082
					03/04/2024	0.13	0.022	0.082
					03/12/2024	0.14	0.022	0.083

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					04/02/2024	0.14	0.023	0.087
					04/09/2024	0.099	0.022	0.082
					05/07/2024	0.31	0.021	0.080
					05/14/2024	0.19	0.023	0.087
					06/04/2024	0.15	0.022	0.083
					06/11/2024	0.17	0.021	0.080
					07/02/2024	0.32	0.022	0.083
					07/09/2024	ND	2.2	8.3
					08/06/2024	0.13	0.021	0.080
					08/13/2024	0.15	0.021	0.079
					09/10/2024	0.16	0.021	0.079
					09/25/2024	0.16	0.022	0.082
					10/08/2024	0.14	0.021	0.080
					10/15/2024	0.16	0.022	0.083
					11/05/2024	0.082 DNQ	0.024	0.087
					11/26/2024	0.22	0.022	0.080
					12/03/2024	0.14	0.024	0.089
					12/10/2024	0.038 DNQ	0.022	0.080
		EPA 7471A	mg/kg	Plant 2 Dewatering Cake	01/10/2024	0.13	0.022	0.082
					01/17/2024	0.096	0.021	0.080
					02/06/2024	0.17	0.021	0.080
					02/13/2024	0.24	0.022	0.082
					03/05/2024	0.11	0.022	0.083
					03/12/2024	0.17	0.021	0.079
					04/02/2024	0.022 DNQ	0.022	0.083
					04/09/2024	ND	0.023	0.089
					05/07/2024	0.13	0.022	0.083
					05/14/2024	0.098	0.021	0.080
					06/04/2024	0.17	0.022	0.083
					06/11/2024	0.091	0.022	0.083
					07/02/2024	0.13	0.022	0.082
					07/09/2024	0.17	0.023	0.087
					08/06/2024	0.12	0.021	0.080
					08/13/2024	0.16	0.021	0.079
					09/10/2024	0.13	0.021	0.079
					09/25/2024	0.35	0.023	0.087
					10/02/2024	0.13	0.023	0.089
					10/08/2024	0.17	0.022	0.083
					11/05/2024	0.059 DNQ	0.023	0.085
					11/19/2024	0.17	0.023	0.082
					12/03/2024	0.15	0.023	0.083
					12/10/2024	0.13	0.023	0.085
	Molybdenum	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/09/2024	14	2.2	8.4
					01/16/2024	14	2.1	7.9
					02/06/2024	15	2.2	8.3
					02/13/2024	16	2.1	8.0
					03/04/2024	18	2.2	8.7
					03/12/2024	18	2.1	8.0
					04/02/2024	16	2.2	8.3
					04/09/2024	17	2.1	7.9
					05/07/2024	8.5	2.0	7.7
					06/04/2024	10	2.0	7.8
					06/11/2024	12	2.1	7.9
					07/02/2024	15	2.0	7.9
					07/09/2024	15	2.0	7.8
					08/06/2024	16	2.2	8.3
					08/13/2024	15	2.0	8.1
					09/10/2024	17	2.1	8.0
					09/25/2024	18	2.3	8.5
					10/08/2024	17	2.4	8.9
					10/15/2024	16	2.3	8.6
					11/05/2024	15	2.2	8.0
					11/26/2024	15	2.1	8.2
					12/03/2024	16	2.2	8.5
					12/10/2024	8.1 DNQ	2.3	8.5
		EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	13	1.9	7.4
					01/17/2024	20	2.2	8.3
					02/06/2024	20	1.9	7.3

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					02/13/2024	20	1.7	6.6
					03/05/2024	21	1.9	7.3
					03/12/2024	21	1.7	6.5
					04/02/2024	22	1.9	7.2
					04/09/2024	22	1.9	7.2
					05/07/2024	16	2.0	7.4
					06/04/2024	16	1.8	6.9
					06/11/2024	18	1.9	7.7
					07/02/2024	24	1.8	7.0
					07/09/2024	25	1.8	7.2
					08/06/2024	23	1.9	7.2
					08/13/2024	23	1.9	7.1
					09/10/2024	21	1.8	7.1
					09/25/2024	21	1.9	7.3
					10/02/2024	23	2.2	8.4
					10/08/2024	21	2.0	7.6
					11/05/2024	20	1.9	7.0
					11/19/2024	18	2.0	7.6
					12/03/2024	19	1.9	7.3
					12/10/2024	13	2.1	8.0
	Molybdenum wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/09/2024	3.4	0.52	2.0
					01/16/2024	3.6	0.52	2.0
					02/06/2024	3.7	0.52	2.0
					02/13/2024	3.9	0.52	2.0
					03/04/2024	4.3	0.53	2.1
					03/12/2024	4.4	0.53	2.0
					04/02/2024	3.8	0.53	2.0
					04/09/2024	4.4	0.52	2.0
					05/07/2024	2.2	0.52	2.0
					05/14/2024	3.9	0.52	2.0
					06/04/2024	2.6	0.52	2.0
					06/11/2024	2.9	0.53	2.0
					07/02/2024	3.8	0.51	2.0
					07/09/2024	3.9	0.51	2.0
					08/06/2024	3.8	0.52	2.0
					08/13/2024	3.8	0.50	2.0
					09/10/2024	4.3	0.52	2.0
					09/25/2024	4.3	0.53	2.0
					10/08/2024	3.9	0.53	2.0
					10/15/2024	3.6	0.53	2.0
					11/05/2024	3.5	0.53	2.0
					11/26/2024	3.6	0.51	2.0
					12/03/2024	3.8	0.51	2.0
					12/10/2024	1.9 DNQ	0.53	2.0
		EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/10/2024	3.5	0.52	2.0
					01/17/2024	4.7	0.53	2.0
					02/06/2024	5.6	0.52	2.0
					02/13/2024	6.2	0.53	2.0
					03/05/2024	5.7	0.52	2.0
					03/12/2024	6.2	0.50	1.9
					04/02/2024	6.1	0.52	2.0
					04/09/2024	6.2	0.52	2.0
					05/07/2024	4.2	0.53	2.0
					05/14/2024	6.2	0.51	2.0
					06/04/2024	4.8	0.52	2.0
					06/11/2024	4.7	0.50	2.0
					07/02/2024	7.0	0.52	2.0
					07/09/2024	6.8	0.50	2.0
					08/06/2024	6.5	0.52	2.0
					08/13/2024	6.5	0.53	2.0
					09/10/2024	5.8	0.51	2.0
					09/25/2024	5.8	0.53	2.0
					10/02/2024	5.5	0.52	2.0
					10/08/2024	5.4	0.52	2.0
					11/05/2024	5.6	0.52	2.0
					11/19/2024	4.8	0.53	2.0
					12/03/2024	5.1	0.51	2.0
					12/10/2024	3.2	0.52	2.0

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Nickel	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/09/2024	50	1.5	8.4
					01/16/2024	63	1.5	7.9
					02/06/2024	29	1.5	8.3
					02/13/2024	28	1.4	8.0
					03/04/2024	29	1.5	8.7
					03/12/2024	28	1.5	8.0
					04/02/2024	26	1.5	8.3
					04/09/2024	26	1.5	7.9
					05/07/2024	17	1.4	7.7
					06/04/2024	18	1.4	7.8
					06/11/2024	19	1.5	7.9
					07/02/2024	27	1.4	7.9
					07/09/2024	26	1.4	7.8
					08/06/2024	28	1.5	8.3
					08/13/2024	28	1.4	8.1
					09/10/2024	29	1.5	8.0
					09/25/2024	33	1.6	8.5
					10/08/2024	32	1.6	8.9
					10/15/2024	30	1.6	8.6
					11/05/2024	30	1.5	8.0
					11/26/2024	32	1.5	8.2
					12/03/2024	32	1.5	8.5
					12/10/2024	31	1.6	8.5
		EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	44	1.4	7.4
					01/17/2024	83	1.5	8.3
					02/06/2024	27	1.4	7.3
					02/13/2024	23	1.2	6.6
					03/05/2024	22	1.3	7.3
					03/12/2024	22	1.2	6.5
					04/02/2024	26	1.3	7.2
					04/09/2024	27	1.3	7.2
					05/07/2024	17	1.4	7.4
					06/04/2024	16	1.3	6.9
					06/11/2024	16	1.3	7.7
					07/02/2024	23	1.3	7.0
					07/09/2024	24	1.3	7.2
					08/06/2024	25	1.3	7.2
					08/13/2024	25	1.3	7.1
					09/10/2024	24	1.3	7.1
					09/25/2024	27	1.3	7.3
					10/02/2024	28	1.5	8.4
					10/08/2024	26	1.4	7.6
					11/05/2024	31	1.3	7.0
					11/19/2024	25	1.4	7.6
					12/03/2024	24	1.3	7.3
					12/10/2024	26	1.5	8.0
	Nickel wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/09/2024	12	0.37	2.0
					01/16/2024	16	0.37	2.0
					02/06/2024	7.0	0.36	2.0
					02/13/2024	6.9	0.36	2.0
					03/04/2024	7.1	0.37	2.1
					03/12/2024	7.0	0.37	2.0
					04/02/2024	6.2	0.37	2.0
					04/09/2024	6.6	0.37	2.0
					05/07/2024	4.4	0.36	2.0
					05/14/2024	7.1	0.36	2.0
					06/04/2024	4.7	0.37	2.0
					06/11/2024	4.8	0.37	2.0
					07/02/2024	6.9	0.36	2.0
					07/09/2024	6.8	0.36	2.0
					08/06/2024	6.8	0.37	2.0
					08/13/2024	7.0	0.35	2.0
					09/10/2024	7.4	0.37	2.0
					09/25/2024	7.8	0.37	2.0
					10/08/2024	7.1	0.37	2.0
					10/15/2024	7.0	0.37	2.0
					11/05/2024	7.1	0.37	2.0
					11/26/2024	7.8	0.36	2.0

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					12/03/2024	7.6	0.36	2.0
					12/10/2024	7.2	0.37	2.0
		EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/10/2024	12	0.37	2.0
					01/17/2024	20	0.37	2.0
					02/06/2024	7.4	0.37	2.0
					02/13/2024	7.0	0.37	2.0
					03/05/2024	6.0	0.37	2.0
					03/12/2024	6.5	0.35	1.9
					04/02/2024	7.2	0.36	2.0
					04/09/2024	7.6	0.37	2.0
					05/07/2024	4.5	0.37	2.0
					05/14/2024	6.4	0.36	2.0
					06/04/2024	4.6	0.37	2.0
					06/11/2024	4.2	0.35	2.0
					07/02/2024	6.6	0.37	2.0
					07/09/2024	6.7	0.35	2.0
					08/06/2024	7.1	0.36	2.0
					08/13/2024	7.0	0.37	2.0
					09/10/2024	6.7	0.36	2.0
					09/25/2024	7.3	0.37	2.0
					10/02/2024	6.6	0.36	2.0
					10/08/2024	6.9	0.37	2.0
					11/05/2024	8.6	0.37	2.0
					11/19/2024	6.6	0.37	2.0
					12/03/2024	6.7	0.36	2.0
					12/10/2024	6.4	0.37	2.0
	Selenium	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/09/2024	7.9 DNQ	5.0	13
					01/16/2024	7.9 DNQ	4.8	12
					02/06/2024	7.9 DNQ	5.0	13
					02/13/2024	ND	4.8	12
					03/04/2024	11 DNQ	5.4	13
					03/12/2024	8.8 DNQ	4.8	12
					04/02/2024	ND	5.0	13
					04/09/2024	11 DNQ	4.8	12
					05/07/2024	ND	4.6	12
					06/04/2024	6.6 DNQ	4.7	12
					06/11/2024	ND	4.8	12
					07/02/2024	5.9 DNQ	4.7	12
					07/09/2024	9.3 DNQ	4.7	12
					08/06/2024	6.7 DNQ	5.0	13
					08/13/2024	6.5 DNQ	4.9	12
					09/10/2024	10 DNQ	4.8	12
					09/25/2024	6.4 DNQ	5.1	13
					10/08/2024	6.7 DNQ	5.3	14
					10/15/2024	7.3 DNQ	5.2	13
					11/05/2024	6.7 DNQ	5.0	13
					11/26/2024	5.3 DNQ	4.9	12
					12/03/2024	8.5 DNQ	5.1	13
					12/10/2024	9.4 DNQ	5.1	13
		EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	ND	4.4	11
					01/17/2024	10 DNQ	5.0	13
					02/06/2024	6.9 DNQ	4.4	11
					02/13/2024	ND	3.9	10
					03/05/2024	9.8 DNQ	4.4	11
					03/12/2024	10.0	4.1	10
					04/02/2024	7.2 DNQ	4.3	11
					04/09/2024	8.3 DNQ	4.3	11
					05/07/2024	ND	4.4	11
					06/04/2024	7.6 DNQ	4.1	10
					06/11/2024	5.0 DNQ	4.6	11
					07/02/2024	7.3 DNQ	4.2	10
					07/09/2024	11	4.3	11
					08/06/2024	9.0 DNQ	4.3	11
					08/13/2024	9.9 DNQ	4.3	11
					09/10/2024	7.1 DNQ	4.3	11
					09/25/2024	8.4 DNQ	4.4	11
					10/02/2024	10 DNQ	5.0	13
					10/08/2024	8.7 DNQ	4.6	11

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					11/05/2024	8.7 DNQ	4.3	11
					11/19/2024	5.3 DNQ	4.6	12
					12/03/2024	6.6 DNQ	4.4	11
					12/10/2024	9.2 DNQ	4.8	12
	Selenium wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/09/2024	1.9 DNQ	1.2	3.0
					01/16/2024	2.0 DNQ	1.2	3.0
					02/06/2024	1.9 DNQ	1.2	3.0
					02/13/2024	ND	1.2	3.0
					03/04/2024	2.6 DNQ	1.3	3.1
					03/12/2024	2.2 DNQ	1.2	3.1
					04/02/2024	ND	1.2	3.1
					04/09/2024	2.7 DNQ	1.2	3.0
					05/07/2024	ND	1.2	3.0
					05/14/2024	2.7 DNQ	1.2	3.0
					06/04/2024	1.7 DNQ	1.2	3.0
					06/11/2024	ND	1.2	3.1
					07/02/2024	1.5 DNQ	1.2	3.0
					07/09/2024	2.4 DNQ	1.2	3.0
					08/06/2024	1.6 DNQ	1.2	3.0
					08/13/2024	1.6 DNQ	1.2	2.9
					09/10/2024	2.6 DNQ	1.2	3.0
					09/25/2024	1.5 DNQ	1.2	3.1
					10/08/2024	1.5 DNQ	1.2	3.1
					10/15/2024	1.7 DNQ	1.2	3.1
					11/05/2024	1.6 DNQ	1.2	3.1
					11/26/2024	1.3 DNQ	1.2	3.0
					12/03/2024	2.0 DNQ	1.2	3.0
					12/10/2024	2.2 DNQ	1.2	3.1
		EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1.2	3.0
					01/17/2024	2.4 DNQ	1.2	3.1
					02/06/2024	1.9 DNQ	1.2	3.0
					02/13/2024	ND	1.2	3.1
					03/05/2024	2.7 DNQ	1.2	3.0
					03/12/2024	2.9	1.2	2.9
					04/02/2024	2.0 DNQ	1.2	3.0
					04/09/2024	2.3 DNQ	1.2	3.0
					05/07/2024	ND	1.2	3.1
					05/14/2024	1.4 DNQ	1.2	3.0
					06/04/2024	2.2 DNQ	1.2	3.0
					06/11/2024	1.3 DNQ	1.2	2.9
					07/02/2024	2.1 DNQ	1.2	3.0
					07/09/2024	3.0	1.2	2.9
					08/06/2024	2.5 DNQ	1.2	3.0
					08/13/2024	2.8 DNQ	1.2	3.1
					09/10/2024	2.0 DNQ	1.2	3.0
					09/25/2024	2.3 DNQ	1.2	3.1
					10/02/2024	2.5 DNQ	1.2	3.0
					10/08/2024	2.3 DNQ	1.2	3.0
					11/05/2024	2.4 DNQ	1.2	3.0
					11/19/2024	1.4 DNQ	1.2	3.1
					12/03/2024	1.8 DNQ	1.2	3.0
					12/10/2024	2.3 DNQ	1.2	3.0
	Silver	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/09/2024	ND	0.63	6.3
					01/16/2024	ND	0.60	6.0
					02/06/2024	2.8 DNQ	0.58	6.3
					02/13/2024	2.9 DNQ	0.56	6.0
					03/04/2024	2.8 DNQ	0.62	6.2
					03/12/2024	2.4 DNQ	0.60	6.0
					04/02/2024	2.9 DNQ	0.62	6.2
					04/09/2024	3.3 DNQ	0.60	6.0
					05/07/2024	1.8 DNQ	0.54	5.8
					06/04/2024	1.4 DNQ	0.58	5.8
					06/11/2024	1.8 DNQ	0.60	6.0
					07/02/2024	2.9 DNQ	0.55	5.9
					07/09/2024	4.3 DNQ	0.54	5.8
					08/06/2024	2.2 DNQ	0.63	6.3
					08/13/2024	2.2 DNQ	0.57	6.1
					09/10/2024	2.5 DNQ	0.60	6.0

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					09/25/2024	3.0 DNQ	0.64	6.4
					10/08/2024	3.9 DNQ	0.67	6.7
					10/15/2024	3.4 DNQ	0.65	6.5
					11/05/2024	3.4 DNQ	0.63	6.3
					11/26/2024	4.5 DNQ	0.58	6.2
					12/03/2024	4.7 DNQ	0.60	6.4
					12/10/2024	4.3 DNQ	0.64	6.4
		EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	0.59 DNQ	0.55	5.5
					01/17/2024	ND	0.63	6.3
					02/06/2024	2.0 DNQ	0.55	5.5
					02/13/2024	2.0 DNQ	0.49	4.9
					03/05/2024	2.1 DNQ	0.55	5.5
					03/12/2024	1.9 DNQ	0.48	5.2
					04/02/2024	2.3 DNQ	0.51	5.4
					04/09/2024	2.2 DNQ	0.54	5.4
					05/07/2024	1.0 DNQ	0.56	5.6
					06/04/2024	1.5 DNQ	0.52	5.2
					06/11/2024	1.2 DNQ	0.54	5.7
					07/02/2024	2.7 DNQ	0.52	5.2
					07/09/2024	2.7 DNQ	0.51	5.4
					08/06/2024	3.0 DNQ	0.50	5.4
					08/13/2024	3.4 DNQ	0.53	5.3
					09/10/2024	2.1 DNQ	0.50	5.3
					09/25/2024	2.5 DNQ	0.55	5.5
					10/02/2024	2.9 DNQ	0.59	6.3
					10/08/2024	2.6 DNQ	0.57	5.7
					11/05/2024	2.6 DNQ	0.54	5.4
					11/19/2024	2.7 DNQ	0.57	5.7
					12/03/2024	2.4 DNQ	0.51	5.5
					12/10/2024	2.4 DNQ	0.60	6.0
	Silver wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	0.15	1.5
					01/16/2024	ND	0.15	1.5
					02/06/2024	0.68 DNQ	0.14	1.5
					02/13/2024	0.73 DNQ	0.14	1.5
					03/04/2024	0.67 DNQ	0.15	1.5
					03/12/2024	0.61 DNQ	0.15	1.5
					04/02/2024	0.69 DNQ	0.15	1.5
					04/09/2024	0.82 DNQ	0.15	1.5
					05/07/2024	0.46 DNQ	0.14	1.5
					05/14/2024	0.95 DNQ	0.14	1.5
					06/04/2024	0.35 DNQ	0.15	1.5
					06/11/2024	0.46 DNQ	0.15	1.5
					07/02/2024	0.74 DNQ	0.14	1.5
					07/09/2024	1.1 DNQ	0.14	1.5
					08/06/2024	0.52 DNQ	0.15	1.5
					08/13/2024	0.54 DNQ	0.14	1.5
					09/10/2024	0.63 DNQ	0.15	1.5
					09/25/2024	0.70 DNQ	0.15	1.5
					10/08/2024	0.87 DNQ	0.15	1.5
					10/15/2024	0.79 DNQ	0.15	1.5
					11/05/2024	0.82 DNQ	0.15	1.5
					11/26/2024	1.1 DNQ	0.14	1.5
					12/03/2024	1.1 DNQ	0.14	1.5
					12/10/2024	1.0 DNQ	0.15	1.5
		EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/10/2024	0.16 DNQ	0.15	1.5
					01/17/2024	ND	0.15	1.5
					02/06/2024	0.54 DNQ	0.15	1.5
					02/13/2024	0.60 DNQ	0.15	1.5
					03/05/2024	0.59 DNQ	0.15	1.5
					03/12/2024	0.56 DNQ	0.14	1.5
					04/02/2024	0.63 DNQ	0.14	1.5
					04/09/2024	0.61 DNQ	0.15	1.5
					05/07/2024	0.28 DNQ	0.15	1.5
					05/14/2024	0.47 DNQ	0.14	1.5
					06/04/2024	0.43 DNQ	0.15	1.5
					06/11/2024	0.32 DNQ	0.14	1.5
					07/02/2024	0.77 DNQ	0.15	1.5
					07/09/2024	0.74 DNQ	0.14	1.5

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					08/06/2024	0.85 DNQ	0.14	1.5
					08/13/2024	0.96 DNQ	0.15	1.5
					09/10/2024	0.58 DNQ	0.14	1.5
					09/25/2024	0.69 DNQ	0.15	1.5
					10/02/2024	0.70 DNQ	0.14	1.5
					10/08/2024	0.69 DNQ	0.15	1.5
					11/05/2024	0.72 DNQ	0.15	1.5
					11/19/2024	0.70 DNQ	0.15	1.5
					12/03/2024	0.66 DNQ	0.14	1.5
					12/10/2024	0.61 DNQ	0.15	1.5
	Thallium	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/09/2024	ND	8.8	42
					07/02/2024	ND	8.3	39
		EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	ND	7.7	37
					07/02/2024	ND	7.3	35
	Thallium wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	2.1	10
					07/02/2024	ND	2.1	9.9
		EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	2.1	10
					07/02/2024	ND	2.1	10
	Vanadium	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/09/2024	67	0.71	4.2
					07/02/2024	59	0.67	3.9
		EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	89	0.63	3.7
					07/02/2024	110	0.59	3.5
	Vanadium wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/09/2024	16	0.17	1.0
					07/02/2024	15	0.17	0.99
		EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/10/2024	24	0.17	1.0
					07/02/2024	33	0.17	1.0
	Zinc	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering Cake	01/09/2024	670	5.0	21
					01/16/2024	670	4.8	20
					02/06/2024	790	5.0	21
					02/13/2024	680	4.8	20
					03/04/2024	790	5.0	21
					03/12/2024	720	4.8	20
					04/02/2024	660	5.0	21
					04/09/2024	710	4.8	20
					05/07/2024	370	4.6	19
					06/04/2024	470	4.7	20
					06/11/2024	520	4.8	20
					07/02/2024	750	4.3	20
					07/09/2024	780	4.3	19
					08/06/2024	790	5.0	21
					08/13/2024	730	4.5	20
					09/10/2024	760	4.8	20
					09/25/2024	810	5.1	22
					10/08/2024	800	5.3	23
					10/15/2024	690	5.2	22
					11/05/2024	670	5.0	21
					11/26/2024	700	4.9	21
					12/03/2024	770	5.1	21
					12/10/2024	680	5.1	22
		EPA 6010C	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2024	480	4.4	19
					01/17/2024	710	5.0	21
					02/06/2024	690	4.4	19
					02/13/2024	620	3.9	17
					03/05/2024	650	4.4	19
					03/12/2024	650	3.8	17
					04/02/2024	690	4.3	18
					04/09/2024	720	4.3	18
					05/07/2024	440	4.4	19
					06/04/2024	450	4.1	18
					06/11/2024	460	4.2	19
					07/02/2024	700	4.2	18
					07/09/2024	690	4.0	18
					08/06/2024	750	4.3	18
					08/13/2024	710	4.3	18
					09/10/2024	710	3.9	18
					09/25/2024	800	4.4	19
					10/02/2024	840	5.0	21
					10/08/2024	760	4.6	19

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					11/05/2024	760	4.3	18
					11/19/2024	680	4.6	19
					12/03/2024	690	4.0	18
					12/10/2024	680	4.8	20
	Zinc wet weight	EPA 6010C	mg/kg	Plant 1 Dewatering Cake	01/09/2024	160	1.2	5.1
					01/16/2024	170	1.2	5.1
					02/06/2024	190	1.2	5.0
					02/13/2024	170	1.2	5.0
					03/04/2024	190	1.2	5.1
					03/12/2024	180	1.2	5.1
					04/02/2024	160	1.2	5.1
					04/09/2024	180	1.2	5.1
					05/07/2024	97	1.2	5.0
					05/14/2024	190	1.2	5.0
					06/04/2024	120	1.2	5.1
					06/11/2024	130	1.2	5.1
					07/02/2024	190	1.1	5.0
					07/09/2024	200	1.1	5.0
					08/06/2024	190	1.2	5.1
					08/13/2024	180	1.1	4.9
					09/10/2024	190	1.2	5.1
					09/25/2024	190	1.2	5.1
					10/08/2024	180	1.2	5.1
					10/15/2024	160	1.2	5.1
					11/05/2024	160	1.2	5.1
					11/26/2024	170	1.2	5.0
					12/03/2024	180	1.2	5.0
					12/10/2024	160	1.2	5.1
		EPA 6010C	mg/kg	Plant 2 Dewatering Cake	01/10/2024	130	1.2	5.1
					01/17/2024	170	1.2	5.1
					02/06/2024	190	1.2	5.1
					02/13/2024	190	1.2	5.1
					03/05/2024	180	1.2	5.1
					03/12/2024	190	1.1	4.9
					04/02/2024	190	1.2	5.0
					04/09/2024	200	1.2	5.1
					05/07/2024	120	1.2	5.1
					05/14/2024	170	1.2	5.0
					06/04/2024	130	1.2	5.1
					06/11/2024	120	1.1	4.9
					07/02/2024	200	1.2	5.1
					07/09/2024	190	1.1	4.9
					08/06/2024	210	1.2	5.0
					08/13/2024	200	1.2	5.1
					09/10/2024	200	1.1	5.0
					09/25/2024	220	1.2	5.1
					10/02/2024	200	1.2	5.0
					10/08/2024	200	1.2	5.1
					11/05/2024	210	1.2	5.1
					11/19/2024	180	1.2	5.1
					12/03/2024	190	1.1	5.0
					12/10/2024	170	1.2	5.1
Volatile Organic Compounds	1,1,1,2-Tetrachloroethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	140	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	92	1100
	1,1,1,2-Tetrachloroethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	35	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	28	330
	1,1,1-Trichloroethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	440	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	290	1100
	1,1,1-Trichloroethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	110	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	88	330
	1,1,2,2-Tetrachloroethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	200	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	120	1100

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	1,1,2,2-Tetrachloroethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	49	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	38	330
	1,1,2-Trichloroethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	180	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	120	1100
	1,1,2-Trichloroethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	46	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	36	330
	1,1-Dichloroethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	340	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	220	1100
	1,1-Dichloroethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	85	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	67	330
	1,1-Dichloroethene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	340	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	220	1100
	1,1-Dichloroethene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	85	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	67	330
	1,1-Dichloropropene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	330	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	210	1100
	1,1-Dichloropropene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	81	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	64	330
	1,2,3-Trichlorobenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	560	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	360	1100
	1,2,3-Trichlorobenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	140	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	110	330
	1,2,3-Trichloropropane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	320	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	200	1100
	1,2,3-Trichloropropane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	79	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	62	330
	1,2,4-Trichlorobenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	320	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	200	1100
	1,2,4-Trichlorobenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	79	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	62	330
	1,2,4-Trimethylbenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	210	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	130 DNQ	130	1100
	1,2,4-Trimethylbenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	52	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	41 DNQ	41	330
	1,2-Dibromo-3-chloropropane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	600	3400
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	360	2200
	1,2-Dibromo-3-chloropropane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	150	840
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	110	660
	1,2-Dibromoethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	390	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	250	1100
	1,2-Dibromoethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	96	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	75	330
	1,2-Dichlorobenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	640	1700

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	390	1100
	1,2-Dichlorobenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	160	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	120	330
	1,2-Dichloroethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	170	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	110	1100
	1,2-Dichloroethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	42	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	33	330
	1,2-Dichloropropane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	310	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	200	1100
	1,2-Dichloropropane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	78	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	61	330
	1,3,5-Trichlorobenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	110	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	69	1100
	1,3,5-Trichlorobenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	27	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	21	330
	1,3,5-Trimethylbenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	270	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	170	1100
	1,3,5-Trimethylbenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	66	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	52	330
	1,3-Dichlorobenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	280	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	180	1100
	1,3-Dichlorobenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	69	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	54	330
	1,3-Dichloropropane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	190	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	120	1100
	1,3-Dichloropropane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	47	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	37	330
	1,4-Dichlorobenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	170	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	110	1100
	1,4-Dichlorobenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	42	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	33	330
	2,2-Dichloropropane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	400	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	270	1100
	2,2-Dichloropropane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	100	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	81	330
	2-Chlorotoluene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	180	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	110	1100
	2-Chlorotoluene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	44	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	34	330
	2-Hexanone wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	370	1700
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	290	1300
	4-Chlorotoluene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	160	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	98	1100

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	4-Chlorotoluene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	39	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	30	330
	Acrolein	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	7600	34000
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	4900	22000
	Acrolein wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	1900	8400
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	1500	6600
	Acrylonitrile	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	1800	34000
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	1100	22000
	Acrylonitrile wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	440	8400
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	340	6600
	Benzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	310	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	200	1100
	Benzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	76	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	60	330
	Bromobenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	130	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	82	1100
	Bromobenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	32	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	25	330
	Bromochloromethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	320	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	200	1100
	Bromochloromethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	79	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	62	330
	Bromodichloromethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	640	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	430	1100
	Bromodichloromethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	160	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	130	330
	Bromoform	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	1100	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	690	1100
	Bromoform wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	270	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	210	330
	Bromomethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	320	3400
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	200	2200
	Bromomethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	79	840
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	62	660
	Carbon tetrachloride	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	120	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	72	1100
	Carbon tetrachloride wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	29	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	22	330
	Chlorobenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	88	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	56	1100
	Chlorobenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	22	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	17	330
	Chloroethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	1100	3400

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	720	2200
	Chloroethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	280	840
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	220	660
	Chloroform	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	310	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	200	1100
	Chloroform wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	78	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	61	330
	Chloromethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	340	3400
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	220	2200
	Chloromethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	84	840
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	66	660
	cis-1,2-Dichloroethene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	150	840
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	95	560
	cis-1,2-Dichloroethene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	37	210
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	29	170
	cis-1,3-Dichloropropene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	800	2000
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	520	1300
	cis-1,3-Dichloropropene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	200	510
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	160	400
	Dibromochloromethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	220	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	140	1100
	Dibromochloromethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	56	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	44	330
	Dibromomethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	200	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	130	1100
	Dibromomethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	51	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	40	330
	Dichlorodifluoromethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	440	3400
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	290	2200
	Dichlorodifluoromethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	110	840
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	87	660
	Ethylbenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	230	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	170 DNQ	150	1100
	Ethylbenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	57	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	52 DNQ	45	330
	Hexachlorobutadiene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	330	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	210	1100
	Hexachlorobutadiene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	83	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	65	330
	Isobutyl alcohol	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	10000	68000
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	6600	43000
	Isobutyl alcohol wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	2500	17000
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	2000	13000

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Isopropylbenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	200	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	120	1100
	Isopropylbenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	49	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	38	330
	m,p-Xylenes	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	520	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	750 DNQ	330	1100
	m,p-Xylenes wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	130	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	230 DNQ	100	330
	Methyl ethyl ketone	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	5200	14000
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	3300	8500
	Methyl ethyl ketone wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	1300	3400
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	1000	2600
	Methylene Chloride	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	480	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	300	1100
	Methylene Chloride wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	120	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	91	330
	MIBK	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	4000	8800
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	2600	5600
	MIBK wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	1000	2200
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	800	1700
	Naphthalene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	1100	3400
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	720	2200
	Naphthalene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	280	840
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	220	660
	n-Butylbenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	560	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	360	1100
	n-Butylbenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	140	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	110	330
	n-Propylbenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	760	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	490	1100
	n-Propylbenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	190	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	150	330
	o-Xylene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	240	840
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	360 DNQ	150	560
	o-Xylene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	59	210
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	110 DNQ	46	170
	sec-Butylbenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	260	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	160	1100
	sec-Butylbenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	64	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	50	330
	Styrene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	920	2000
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	590	1300
	Styrene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	230	510

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	180	400
	tert-Butylbenzene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	190	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	120	1100
	tert-Butylbenzene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	47	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	37	330
	Tetrachloroethene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	180	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	120	1100
	Tetrachloroethene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	46	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	36	330
	Toluene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	270	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	170	1100
	Toluene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	66	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	52	330
	trans-1,2-Dichloroethene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	310	840
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	190	560
	trans-1,2-Dichloroethene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	76	210
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	59	170
	trans-1,3-Dichloropropene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	1200	2700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	790	1700
	trans-1,3-Dichloropropene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	300	670
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	240	530
	Trichloroethene	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	160	1700
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	98	1100
	Trichloroethene wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	39	420
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	30	330
	Trichlorofluoromethane	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	340	3400
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	220	2200
	Trichlorofluoromethane wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	84	840
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	66	660
	Vinyl chloride	EPA 8260B	µg/kg dry	Plant 1 Dewatering Cake	02/13/2024	ND	180	3400
		EPA 8260B	µg/kg dry	Plant 2 Dewatering Cake	02/13/2024	ND	120	2200
	Vinyl chloride wet weight	EPA 8260B	µg/kg	Plant 1 Dewatering Cake	02/13/2024	ND	46	840
		EPA 8260B	µg/kg	Plant 2 Dewatering Cake	02/13/2024	ND	36	660
Semi-Volatile Organic Compounds	1,2,4-Trichlorobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6300	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5200	16000
	1,2,4-Trichlorobenzene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1500	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1400	4300
	1,2-Dichlorobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	5900	39000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	4800	32000
	1,2-Dichlorobenzene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1400	9300
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1300	8600
	1,3-Dichlorobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	11000	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	8900	16000

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	1,3-Dichlorobenzene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	2600	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	2400	4300
	1,4-Dichlorobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	11000	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	8900	16000
	1,4-Dichlorobenzene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	2600	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	2400	4300
	2,4,5-Trichlorophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6300	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5200	16000
	2,4,5-Trichlorophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1500	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1400	4300
	2,4,6-Trichlorophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	7500	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	6300	16000
	2,4,6-Trichlorophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1800	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1700	4300
	2,4-Dichlorophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6300	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	4800	16000
	2,4-Dichlorophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1500	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1300	4300
	2,4-Dimethylphenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	5900	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	4800	16000
	2,4-Dimethylphenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1400	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1300	4300
	2,4-Dinitrophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	54000	200000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	44000	160000
	2,4-Dinitrophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	13000	47000
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	12000	43000
	2,4-Dinitrotoluene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	7100	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5900	16000
	2,4-Dinitrotoluene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1700	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1600	4300
	2,6-Dinitrotoluene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	7100	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5500	16000
	2,6-Dinitrotoluene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1700	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1500	4300
	2-Chloronaphthalene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6700	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5500	16000
	2-Chloronaphthalene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1600	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1500	4300
	2-Chlorophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	10000	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	8500	16000
	2-Chlorophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	2500	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	2300	4300
	2-Methylnaphthalene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	5400	39000

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	4400	32000
	2-Methylnaphthalene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1300	9300
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1200	8600
	2-Methylphenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	5900	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	4800	16000
	2-Methylphenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1400	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1300	4300
	2-Nitroaniline	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	5900	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	4800	16000
	2-Nitroaniline wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1400	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1300	4300
	2-Nitrophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	15000	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	12000	16000
	2-Nitrophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	3500	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	3200	4300
	3&4-Methylphenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	5900	39000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	4800	32000
	3&4-Methylphenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1400	9300
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1300	8600
	3,3-Dichlorobenzidine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	5400	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	4400	16000
	3,3-Dichlorobenzidine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1300	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1200	4300
	3-Nitroaniline	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6300	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5200	16000
	3-Nitroaniline wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1500	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1400	4300
	4,6-Dinitro-2-methylphenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	41000	200000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	33000	160000
	4,6-Dinitro-2-methylphenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	9700	47000
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	8900	43000
	4-Bromophenyl phenyl ether	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	7100	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5500	16000
	4-Bromophenyl phenyl ether wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1700	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1500	4300
	4-Chloro-3-methylphenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	5900	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	4800	16000
	4-Chloro-3-methylphenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1400	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1300	4300
	4-Chloroaniline	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	4000	39000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	3200	32000
	4-Chloroaniline wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	950	9300
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	880	8600

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	4-Chlorophenyl phenyl ether	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6300	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5200	16000
	4-Chlorophenyl phenyl ether wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1500	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1400	4300
	4-Nitroaniline	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6300	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5200	16000
	4-Nitroaniline wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1500	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1400	4300
	4-Nitrophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	28000	39000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	23000	32000
	4-Nitrophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	6800	9300
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	6300	8600
	Acenaphthene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	5900	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	4800	16000
	Acenaphthene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1400	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1300	4300
	Acenaphthylene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6300	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5200	16000
	Acenaphthylene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1500	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1400	4300
	Aniline	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	15000	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	12000	16000
	Aniline wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	3500	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	3200	4300
	Anthracene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6300	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5200	16000
	Anthracene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1500	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1400	4300
	Azobenzene/1,2-Diphenylhydrazine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	11000	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	9200	16000
	Azobenzene/1,2-Diphenylhydrazine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	2700	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	2500	4300
	Benz(a)anthracene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6700	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5500	16000
	Benz(a)anthracene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1600	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1500	4300
	Benzidine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	18000	120000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	15000	96000
	Benzidine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	4400	28000
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	4100	26000
	Benzo(a)pyrene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6700	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5500	16000
	Benzo(a)pyrene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1600	4700

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1500	4300
	Benzo(b)fluoranthene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6300	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	4800	16000
	Benzo(b)fluoranthene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1500	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1300	4300
	Benzo(g,h,i)perylene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6700	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5500	16000
	Benzo(g,h,i)perylene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1600	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1500	4300
	Benzo(k)fluoranthene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	7100	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5900	16000
	Benzo(k)fluoranthene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1700	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1600	4300
	Benzoic acid	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	22000	79000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	18000	63000
	Benzoic acid wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	5200	19000
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	4800	17000
	Benzyl alcohol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	5900	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	4800	16000
	Benzyl alcohol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1400	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1300	4300
	Bis(2-chloroethoxy)methane	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	5400	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	4400	16000
	Bis(2-chloroethoxy)methane wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1300	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1200	4300
	Bis(2-chloroethyl)ether	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6700	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5500	16000
	Bis(2-chloroethyl)ether wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1600	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1500	4300
	Bis(2-chloroisopropyl)ether	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	5900	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	4800	16000
	Bis(2-chloroisopropyl)ether wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1400	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1300	4300
	Bis(2-ethylhexyl)phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	25000	7100	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	20000	5500	16000
	Bis(2-ethylhexyl)phthalate wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	6000	1700	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	5400	1500	4300
	Butyl benzyl phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6300	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5200	16000
	Butyl benzyl phthalate wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1500	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1400	4300
	Chrysene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6700	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5500	16000

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Chrysene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1600	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1500	4300
	Dibenz(a,h)anthracene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	18000	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	15000	16000
	Dibenz(a,h)anthracene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	4400	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	4100	4300
	Dibenzofuran	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6300	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5200	16000
	Dibenzofuran wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1500	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1400	4300
	Diethyl phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6300	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	4800	16000
	Diethyl phthalate wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1500	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1300	4300
	Dimethyl phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	5900	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	4800	16000
	Dimethyl phthalate wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1400	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1300	4300
	Di-n-butyl phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6700	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5500	16000
	Di-n-butyl phthalate wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1600	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1500	4300
	Di-n-octyl phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6300	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5200	16000
	Di-n-octyl phthalate wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1500	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1400	4300
	Fluoranthene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6300	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5200	16000
	Fluoranthene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1500	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1400	4300
	Fluorene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6300	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5200	16000
	Fluorene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1500	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1400	4300
	Hexachlorobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	5900	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	4400	16000
	Hexachlorobenzene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1400	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1200	4300
	Hexachlorobutadiene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	7900	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	6300	16000
	Hexachlorobutadiene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1900	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1700	4300
	Hexachlorocyclopentadiene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	11000	39000

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	8900	32000
	Hexachlorocyclopentadiene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	2600	9300
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	2400	8600
	Hexachloroethane	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	10000	39000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	8500	32000
	Hexachloroethane wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	2500	9300
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	2300	8600
	Indeno(1,2,3-cd)pyrene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	7900	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	6600	16000
	Indeno(1,2,3-cd)pyrene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1900	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1800	4300
	Isophorone	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6700	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5500	16000
	Isophorone wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1600	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1500	4300
	Naphthalene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6300	39000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5200	32000
	Naphthalene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1500	9300
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1400	8600
	Nitrobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6700	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5500	16000
	Nitrobenzene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1600	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1500	4300
	N-Nitrosodimethylamine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	23000	7900
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	19000	6300
	N-Nitrosodimethylamine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	5500	1900
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	5100	1700
	N-Nitroso-di-n-propylamine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	5400	39000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	4400	32000
	N-Nitroso-di-n-propylamine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1300	9300
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1200	8600
	N-Nitrosodiphenylamine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6300	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5200	16000
	N-Nitrosodiphenylamine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1500	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1400	4300
	Pentachlorophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	38000	79000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	31000	63000
	Pentachlorophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	9200	19000
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	8500	17000
	Phenanthrene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6300	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	4800	16000
	Phenanthrene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1500	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1300	4300

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Phenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	180000	12000	39000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	210000	10000	32000
	Phenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	43000	2900	9300
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	56000	2700	8600
	Pyrene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	6700	20000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	5500	16000
	Pyrene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1600	4700
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1500	4300
	Pyridine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	19000	39000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	15000	32000
	Pyridine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	4500	9300
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	4200	8600
	Total Cresols	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	5900	39000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	4800	32000
	Total Cresols wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	1400	9300
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1300	8600
Organochlorine Pesticides	Aldrin	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	27	84
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	21	66
	Aldrin wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	6.4	20
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	5.8	18
	alpha-BHC	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	10	84
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	7.7	66
	alpha-BHC wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	2.4	20
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	2.1	18
	alpha-Chlordane wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	2.3	20
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	2.0	18
	beta-BHC	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	15	84
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	12	66
	beta-BHC wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	3.6	20
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	3.3	18
	Chlordane	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	67	420
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	55	330
	Chlordane wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	16	100
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	15	90
	delta-BHC	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	16	84
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	13	66
	delta-BHC wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	3.8	20
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	3.4	18
	Dieldrin	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	9.2	84
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	7.4	66
	Dieldrin wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	2.2	20
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	2.0	18
	Endosulfan 1	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	18	84

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	14	66
	Endosulfan 1 wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	4.3	20
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	3.9	18
	Endosulfan 2	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	9.2	84
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	7.4	66
	Endosulfan 2 wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	2.2	20
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	2.0	18
	Endosulfan Sulfate	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	10	84
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	8.5	66
	Endosulfan Sulfate wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	2.5	20
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	2.3	18
	Endrin	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	11	84
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	8.9	66
	Endrin wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	2.7	20
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	2.4	18
	Endrin Aldehyde	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	54	84
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	44	66
	Endrin Aldehyde wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	13	20
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	12	18
	Endrin Ketone	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	15	84
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	12	66
	Endrin Ketone wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	3.6	20
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	3.3	18
	gamma-BHC	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	8.8	84
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	7.0	66
	gamma-BHC wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	2.1	20
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1.9	18
	gamma-Chlordane wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	14	20
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	12	18
	Heptachlor	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	10	84
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	8.1	66
	Heptachlor wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	2.4	20
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	2.2	18
	Heptachlor Epoxide	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	9.2	84
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	7.0	66
	Heptachlor Epoxide wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	2.2	20
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	1.9	18
	Kepone	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	140	420
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	110	330
	Kepone wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	33	100
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	30	90
	Methoxychlor	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	20	84
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	15	66

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Methoxychlor wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	4.7	20
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	4.2	18
	Mirex	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	19	84
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	15	66
	Mirex wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	4.5	20
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	4.0	18
	o,p'-DDD	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	13	84
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	10	66
	o,p'-DDD wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	3.0	20
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	2.7	18
	o,p'-DDE	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	59	420
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	44	330
	o,p'-DDE wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	14	100
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	12	90
	o,p'-DDT	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	15	84
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	12	66
	o,p'-DDT wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	3.7	20
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	3.3	18
	p,p'-DDD	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	12	84
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	9.6	66
	p,p'-DDD wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	2.9	20
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	2.6	18
	p,p'-DDE	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	12	84
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	9.2	66
	p,p'-DDE wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	2.8	20
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	2.5	18
	p,p'-DDT	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	20	84
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	15	66
	p,p'-DDT wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	4.7	20
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	4.2	18
	Total DDTs	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	59	420
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	44	330
	Total DDTs wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	14	100
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	12	90
	Total Heptachlors	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	10	84
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	8.1	66
	Total Heptachlors wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	2.4	20
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	2.2	18
	Toxaphene	EPA 8081A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	260	420
		EPA 8081A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	210	330
	Toxaphene wet weight	EPA 8081A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	62	100
		EPA 8081A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	56	90
PCBs	PCB 1016	EPA 8082	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	670	840

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8082	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	550	700
	PCB 1016 wet weight	EPA 8082	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	160	200
		EPA 8082	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	150	190
	PCB 1221	EPA 8082	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	670	840
		EPA 8082	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	550	700
	PCB 1221 wet weight	EPA 8082	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	160	200
		EPA 8082	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	150	190
	PCB 1232	EPA 8082	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	670	840
		EPA 8082	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	550	700
	PCB 1232 wet weight	EPA 8082	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	160	200
		EPA 8082	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	150	190
	PCB 1242	EPA 8082	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	670	840
		EPA 8082	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	550	700
	PCB 1242 wet weight	EPA 8082	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	160	200
		EPA 8082	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	150	190
	PCB 1248	EPA 8082	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	670	840
		EPA 8082	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	550	700
	PCB 1248 wet weight	EPA 8082	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	160	200
		EPA 8082	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	150	190
	PCB 1254	EPA 8082	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	1300	420	840
		EPA 8082	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	890	350	700
	PCB 1254 wet weight	EPA 8082	µg/kg	Plant 1 Dewatering Cake	01/09/2024	320	100	200
		EPA 8082	µg/kg	Plant 2 Dewatering Cake	01/10/2024	240	96	190
	PCB 1260	EPA 8082	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	420	840
		EPA 8082	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	350	700
	PCB 1260 wet weight	EPA 8082	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	100	200
		EPA 8082	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	96	190
	Total PCBs	EPA 8082	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	1300	670	840
		EPA 8082	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	890	550	700
	Total PCBs wet weight	EPA 8082	µg/kg	Plant 1 Dewatering Cake	01/09/2024	320	160	200
		EPA 8082	µg/kg	Plant 2 Dewatering Cake	01/10/2024	240	150	190
Herbicides	2,4,5-TP (Silvex)	EPA 8151A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	140	280
		EPA 8151A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	120	230
	2,4,5-TP (Silvex) wet weight	EPA 8151A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	33.2	66.3
		EPA 8151A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	31.2	62.4
	2,4-D	EPA 8151A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	1800	3700
		EPA 8151A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	1500	3100
	2,4-D wet weight	EPA 8151A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	442	884
		EPA 8151A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	416	832
	Pentachlorophenol	EPA 8151A	µg/kg dry	Plant 1 Dewatering Cake	01/09/2024	ND	180	370
		EPA 8151A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2024	ND	150	310
	Pentachlorophenol wet weight	EPA 8151A	µg/kg	Plant 1 Dewatering Cake	01/09/2024	ND	44.2	88.4
		EPA 8151A	µg/kg	Plant 2 Dewatering Cake	01/10/2024	ND	41.6	83.2

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
Dioxins/Furans	2,3,7,8-TCDD	EPA 1613B	pg/g	Plant 1 Dewatering Cake	01/09/2024	ND	0.22	0.99
			pg/g dry	Plant 1 Dewatering Cake	01/09/2024	ND	0.92	4.1
		EPA 1613B	pg/g	Plant 2 Dewatering Cake	01/10/2024	0.20 DNQ	0.076	0.99
			pg/g dry	Plant 2 Dewatering Cake	01/10/2024	0.74 DNQ	0.28	3.7
Other	Asbestos	EPA/600/R-93/116	%	Plant 1 Dewatering Cake	01/09/2024	ND	--	1
					07/02/2024	ND	--	1
			% dry weight	Plant 1 Dewatering Cake	01/09/2024	ND	--	4
					07/02/2024	ND	--	4
		EPA/600/R-93/116	%	Plant 2 Dewatering Cake	01/10/2024	ND	--	1
					07/02/2024	ND	--	1
			% dry weight	Plant 2 Dewatering Cake	01/10/2024	ND	--	4
					07/02/2024	ND	--	3

DEFINITIONS AND FOOTNOTES

Definitions:

ND = Not Detected

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

N/A = Not Applicable

Appendix D. EPA Biosolids Annual Report Electronic Forms

NPDES ID: CAL110604
Biosolids Status: Active
Facility Name: ORANGE COUNTY SD #1
10844 ELLIS AVENUE FOUNTAIN VALLEY, CA 92708-7018

View Annual Report

NPDES FORM 6100-035	EPA	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 BIOSOLIDS ANNUAL REPORT	Form Approved. OMB No. 2040-0004. Exp. 07/31/2026

Program Information

Please select all of the following that apply to your obligation to submit a Sewage Sludge (Biosolids) Annual Report in compliance with 40 CFR part 503. The facility is:

- a POTW with a design flow rate equal to or greater than one million gallons per day
- a POTW that serves 10,000 people or more

In the reporting period, did you manage your sewage sludge or biosolids using any of the following management practices: land application, surface disposal, or incineration?

☑ YES ☐ NO

If your facility is a POTW, please provide the estimated total amount of sewage sludge produced at your facility for the reporting period (in dry metric tons). If your facility is not a POTW, please provide the estimated total amount of biosolids produced at your facility for the reporting period (in dry metric tons).

24657

Reporting Period Start Date: 01/01/2024 **Reporting Period End Date:** 12/31/2024

Treatment Processes

Processes to Significantly Reduce Pathogens (PSRP):
Anaerobic Digestion

Processes to Further Reduce Pathogens (PFRP):

Physical Treatment Options:
Preliminary Operations (e.g., sludge grinding, degritting, blending)
Thickening (e.g., Gravity and/or Flotation Thickening, Centrifugation, Belt Filter Press, Vacuum Filter, Screw Press)

Other Processes to Manage Sewage Sludge:
Methane or Biogas Capture and Recovery

Analytical Methods

Did you or your facility collect sewage sludge or biosolids samples for laboratory analysis? ☑ YES ☐ NO

Analytical Methods

- EPA Method 6010 - Arsenic (ICP-OES)
- EPA Method 6010 - Cadmium (ICP-OES)
- EPA Method 6010 - Chromium (ICP-OES)
- EPA Method 6010 - Copper (ICP-OES)
- EPA Method 6010 - Lead (ICP-OES)
- EPA Method 7471 - Mercury (CVAA)
- EPA Method 6010 - Molybdenum (ICP-OES)
- EPA Method 6010 - Nickel (ICP-OES)

- EPA Method 6010 - Selenium (ICP-OES)
- EPA Method 6010 - Zinc (ICP-OES)
- EPA Method 6010 - Beryllium (ICP-OES)
- EPA Method 351.2 - Total Kjeldahl Nitrogen
- Standard Method 4500-NH3 - Ammonia Nitrogen
- EPA Method 9056 - Nitrate Nitrogen (IC)
- Standard Method 2540 - Total Solids
- Standard Method 2540 - Volatile Solids
- EPA Method 9045 - pH (> 7% solids)

Other Analytical Methods

- Other Nitrogen Analytical Method

  Other Analytical Methods Text Area:

  EPA 9056-Nitrite Nitrogen (IC)

Sludge Management - Land Application

ID: 001

Amount: 6445

Handler, Preparer, or Applier Type: Off-Site Third-Party Handler or Applier

Facility Information:
Tule Ranch-Ag Tech
3895 W. County 19th Street
Somerton, AZ 85350
US

Contact Information:
Kurt Wyrick
Controller
559-970-9432
kurt@westexp.com

Amount Transferred (dry metric tons):
6445

Management Practice Detail: Agricultural Land Application

Bulk or Bag/Container: Bulk

Pathogen Class: Class B

Sewage Sludge or Biosolids Pathogen Reduction Options:

- Class B-Alternative 2 PSRP 3: Anaerobic Digestion

Sewage Sludge or Biosolids Vector Attraction Reduction Options:

- Option 1 - Volatile Solids Reduction
- Option 10 - Sewage Sludge Timely Incorporation into Land

Did the facility land apply bulk sewage sludge when one or more pollutants in the sewage sludge exceeded 90 percent or more of any of the cumulative pollutant loading rates in Table 2 of 40 CFR 503.13?

☐ YES ☑ NO ☐ UNKNOWN

Monitoring Data

INSTRUCTIONS: Pollutants, pathogen densities, and vector attraction reduction must be monitored when sewage sludge or biosolids are applied to the land. Please use the following section to report monitoring data for the land application conducted by you or your facility in the reporting period for this SSUID. These monitoring data should be representative of the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID (40 CFR 503.8(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_18)). All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis. EPA will be using these data to demonstrate compliance with EPA's land application requirements (40 CFR 503, Subpart B).

Compliance Monitoring Periods

INSTRUCTIONS: Please use the table below to identify the start date and end date for each compliance monitoring period. You can adjust the start and end dates as needed. Please note that the compliance monitoring periods cannot overlap and that each compliance monitoring period must have a start date that is equal to or less than the end date. The number of compliance monitoring periods is based on the number of metric tons (dry weight basis) of sewage sludge or biosolids land applied in the reporting period (summed across all land application SSUIDs). For example, you will need to provide monitoring data for 12 compliance monitoring periods for each land application SSUID when you land apply 15,000 or more metric tons (dry weight basis) of sewage sludge or biosolids (summed across all land application SSUIDs) in the reporting period (see 40 CFR 503.16 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_116)).

Compliance Monitoring Event No.	Compliance Monitoring Period Start Date:	Compliance Monitoring Period End Date:
1	01/01/2024	02/29/2024

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☐ YES ☑ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	10	
Cadmium	=	4.2	
Copper	=	460	
Lead	=	12	
Mercury	=	0.83	
Molybdenum	=	16	
Nickel	=	63	
Selenium	J (Below RL but Above MDL)	7.9	
Zinc	=	790	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
    - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	59	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].
- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	7.9	
Cadmium	=	3.8	
Copper	=	400	
Lead	=	10	
Mercury	=	0.69	
Nickel	=	43	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Selenium	J (Below RL but Above MDL)	7.1	
Zinc	=	700	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	57000	

Compliance Monitoring Event No. 2

Compliance Monitoring Period Start Date: 03/01/2024

Compliance Monitoring Period End Date: 04/30/2024

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☐ YES ☑ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	10	
Cadmium	=	5.6	
Copper	=	460	
Lead	=	13	
Mercury	=	0.58	
Molybdenum	=	18	
Nickel	=	29	
Selenium	J (Below RL but Above MDL)	11	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Zinc	=	790	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
  - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	62	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].
- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	8.8	
Cadmium	=	4.2	
Copper	=	440	
Lead	=	12	
Mercury	=	0.52	
Nickel	=	27	
Selenium	J (Below RL but Above MDL)	9	
Zinc	=	720	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	52000	

Compliance Monitoring Event No. 3

Compliance Monitoring Period Start Date: 05/01/2024

Compliance Monitoring Period End Date: 06/30/2024

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☐ YES ☑ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	6.6	
Cadmium	=	2.1	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Copper	=	310	
Lead	=	8.7	
Mercury	=	1.2	
Molybdenum	=	12	
Nickel	=	19	
Selenium	J (Below RL but Above MDL)	6.6	
Zinc	=	520	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
  - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	64	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].
- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time

per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	5.9	
Cadmium	J (Below RL but Above MDL)	2	
Copper	=	270	
Lead	J (Below RL but Above MDL)	7.5	
Mercury	=	0.82	
Nickel	=	18	
Selenium	J (Below RL but Above MDL)	5.3	
Zinc	=	450	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	54000	

Compliance Monitoring Event No.
4

Compliance Monitoring Period Start Date:
07/01/2024

Compliance Monitoring Period End Date:
08/31/2024

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☐ YES ☑ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	11	
Cadmium	=	3.1	
Copper	=	500	
Lead	=	11	
Mercury	=	1.3	
Molybdenum	=	16	
Nickel	=	28	
Selenium	J (Below RL but Above MDL)	9.3	
Zinc	=	790	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
  - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	50	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1)

(https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].

- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	8.3	
Cadmium	=	2.6	
Copper	=	480	
Lead	=	9.5	
Mercury	J (Below RL but Above MDL)	2.7	
Nickel	=	27	
Selenium	J (Below RL but Above MDL)	7.1	
Zinc	=	760	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	49000	

Compliance Monitoring Event No. 5

Compliance Monitoring Period Start Date: 09/01/2024

Compliance Monitoring Period End Date: 10/31/2024

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☐ YES ☑ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?

node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	12	
Cadmium	=	2.7	
Copper	=	510	
Lead	=	16	
Mercury	=	0.69	
Molybdenum	=	18	
Nickel	=	33	
Selenium	J (Below RL but Above MDL)	10	
Zinc	=	810	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
  - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	56	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].
- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	8.7	
Cadmium	J (Below RL but Above MDL)	2.2	
Copper	=	480	
Lead	J (Below RL but Above MDL)	11	
Mercury	=	0.66	
Nickel	=	31	
Selenium	J (Below RL but Above MDL)	7.6	
Zinc	=	770	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	55000	

Compliance Monitoring Event No. 6

Compliance Monitoring Period Start Date: 11/01/2024

Compliance Monitoring Period End Date: 12/31/2024

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☐ YES ☑ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	6.7	
Cadmium	=	4.3	
Copper	=	470	
Lead	=	9.6	
Mercury	=	0.91	
Molybdenum	=	16	
Nickel	=	32	
Selenium	J (Below RL but Above MDL)	9.4	
Zinc	=	770	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
  - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	59	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].
- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	6.2	
Cadmium	=	3.7	
Copper	=	440	
Lead	=	9.3	
Mercury	J (Below RL but Above MDL)	0.5	
Nickel	=	31	
Selenium	J (Below RL but Above MDL)	7.5	
Zinc	=	710	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	55000	

Sludge Management - Surface Disposal

Sludge Management - Incineration

Sludge Management - Other Management Practice

ID: 002

Amount: 5320

Management Practice Detail: Other

Other Management Practice Detail Description: Composting Facility- Class 1 Sludge Management Facility

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler:

Facility Information:
Synagro-Liberty Compost
12421 Holloway Road
Lost Hills, CA 93249
US

Contact Information:
Wilson Nolan
Site Manager
661-619-7320
wnolan@synagro.com

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☑ NO ☐ UNKNOWN

ID: 003

Amount: 6665

Management Practice Detail: Other

Other Management Practice Detail Description: Composting Facility- Class 1 Sludge Management Facility

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler:

Facility Information:
Synagro- Nursery Products
PO Box 1439
Helendale , CA 92342
US

Contact Information:
Venny Vasquez
Site Manager
720-265-5210
vvasquez@synagro.com

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☑ NO ☐ UNKNOWN

ID: 004

Amount: 5539

Management Practice Detail: Other

Other Management Practice Detail Description: Composting Facility- Class 1 Sludge Management Facility

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler:

Facility Information:
Synagro-South Kern Manufacturing Compost Facility
PO Box 265
Taft, CA 93268
US

Contact Information:
Rob Rankin
Site Manager
661-765-2200
rrankin@synagro.com

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☑ NO ☐ UNKNOWN

ID: 005

Amount: 640

Management Practice Detail: Other

Other Management Practice Detail Description: Composting Facility-Class 1 Sludge Management Facility

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler:

Facility Information:
Inland Empire Regional Compost Facility
12645 6th Street
Rancho Cucamonga, CA 91739
US

Contact Information:
Arin Boughan
Site Manager
909-993-1513
aboughan@ieua.org

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☑ NO ☐ UNKNOWN

ID: 006

Amount: 47

Management Practice Detail: Disposal in a Municipal Landfill (under 40 CFR 258)

Handler, Preparer, or Applier Type: Off-Site Third-Party Handler or Applier

NPDES ID of handler:

Facility Information:
Holloway Environmental
13850 Holloway Road
Lost Hills, CA 93249
US

Contact Information:
Giselle Valdovinos
Business Development Associate, Environm
661-758-6484
giselle.valdovinos@hmholloway.com

Pathogen Class: Class B

Do you have any deficiencies to report for this SSUID? ☐ YES ☑ NO ☐ UNKNOWN

Additional Information

Please enter any additional information that you would like to provide in the comment box below.

Additional Attachments

Name	Created Date	Size

Certification Information

Form has not been certified yet.

NPDES ID: CAL120604
Biosolids Status: Active
Facility Name: ORANGE COUNTY SD #2
10844 ELLIS AVENUE FOUNTAIN VALLEY, CA 92708-7018

View Annual Report

NPDES FORM 6100-035	EPA	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 BIOSOLIDS ANNUAL REPORT	Form Approved. OMB No. 2040-0004. Exp. 07/31/2026

Program Information

Please select all of the following that apply to your obligation to submit a Sewage Sludge (Biosolids) Annual Report in compliance with 40 CFR part 503. The facility is:

- a POTW with a design flow rate equal to or greater than one million gallons per day
- a POTW that serves 10,000 people or more

In the reporting period, did you manage your sewage sludge or biosolids using any of the following management practices: land application, surface disposal, or incineration?

☑ YES ☐ NO

If your facility is a POTW, please provide the estimated total amount of sewage sludge produced at your facility for the reporting period (in dry metric tons). If your facility is not a POTW, please provide the estimated total amount of biosolids produced at your facility for the reporting period (in dry metric tons).

18459

Reporting Period Start Date: 01/01/2024 **Reporting Period End Date:** 12/31/2024

Treatment Processes

Processes to Significantly Reduce Pathogens (PSRP):
Anaerobic Digestion

Processes to Further Reduce Pathogens (PFRP):

Physical Treatment Options:
Preliminary Operations (e.g., sludge grinding, degritting, blending)
Thickening (e.g., Gravity and/or Flotation Thickening, Centrifugation, Belt Filter Press, Vacuum Filter, Screw Press)

Other Processes to Manage Sewage Sludge:
Methane or Biogas Capture and Recovery

Analytical Methods

Did you or your facility collect sewage sludge or biosolids samples for laboratory analysis? ☑ YES ☐ NO

Analytical Methods

- EPA Method 6010 - Arsenic (ICP-OES)
- EPA Method 6010 - Cadmium (ICP-OES)
- EPA Method 6010 - Chromium (ICP-OES)
- EPA Method 6010 - Copper (ICP-OES)
- EPA Method 6010 - Lead (ICP-OES)
- EPA Method 7471 - Mercury (CVAA)
- EPA Method 6010 - Molybdenum (ICP-OES)
- EPA Method 6010 - Nickel (ICP-OES)

- EPA Method 6010 - Selenium (ICP-OES)
- EPA Method 6010 - Zinc (ICP-OES)
- EPA Method 6010 - Beryllium (ICP-OES)
- EPA Method 351.2 - Total Kjeldahl Nitrogen
- Standard Method 4500-N - Nitrogen
- EPA Method 9056 - Nitrate Nitrogen (IC)
- Standard Method 2540 - Total Solids
- Standard Method 2540 - Volatile Solids
- EPA Method 9045 - pH (> 7% solids)

Other Analytical Methods

- Other Nitrogen Analytical Method

  Other Analytical Methods Text Area:

  EPA Method 9056- Nitrite Nitrogen (IC)

Sludge Management - Land Application

ID: 001

Amount: 13349

Handler, Preparer, or Applier Type: Off-Site Third-Party Handler or Applier

Facility Information:
Tule Ranch-Ag Tech
3895 W. County 19th Street
Somerton, AZ 85350
US

Contact Information:
Kurt Wyrick
Controller
559-970-9432
kurt@westexp.com

Amount Transferred (dry metric tons):
13349

Management Practice Detail: Agricultural Land Application

Bulk or Bag/Container: Bulk

Pathogen Class: Class B

Sewage Sludge or Biosolids Pathogen Reduction Options:

- Class B-Alternative 2 PSRP 3: Anaerobic Digestion

Sewage Sludge or Biosolids Vector Attraction Reduction Options:

- Option 1 - Volatile Solids Reduction
- Option 10 - Sewage Sludge Timely Incorporation into Land

Did the facility land apply bulk sewage sludge when one or more pollutants in the sewage sludge exceeded 90 percent or more of any of the cumulative pollutant loading rates in Table 2 of 40 CFR 503.13?

☐ YES ☑ NO ☐ UNKNOWN

Monitoring Data

INSTRUCTIONS: Pollutants, pathogen densities, and vector attraction reduction must be monitored when sewage sludge or biosolids are applied to the land. Please use the following section to report monitoring data for the land application conducted by you or your facility in the reporting period for this SSUID. These monitoring data should be representative of the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID (40 CFR 503.8(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_18)). All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis. EPA will be using these data to demonstrate compliance with EPA's land application requirements (40 CFR 503, Subpart B).

Compliance Monitoring Periods

INSTRUCTIONS: Please use the table below to identify the start date and end date for each compliance monitoring period. You can adjust the start and end dates as needed. Please note that the compliance monitoring periods cannot overlap and that each compliance monitoring period must have a start date that is equal to or less than the end date. The number of compliance monitoring periods is based on the number of metric tons (dry weight basis) of sewage sludge or biosolids land applied in the reporting period (summed across all land application SSUIDs). For example, you will need to provide monitoring data for 12 compliance monitoring periods for each land application SSUID when you land apply 15,000 or more metric tons (dry weight basis) of sewage sludge or biosolids (summed across all land application SSUIDs) in the reporting period (see 40 CFR 503.16 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_116)).

Compliance Monitoring Event No.	Compliance Monitoring Period Start Date:	Compliance Monitoring Period End Date:
1	01/01/2024	02/29/2024

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☐ YES ☑ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	10	
Cadmium	=	2.5	
Copper	=	350	
Lead	=	12	
Mercury	=	0.79	
Molybdenum	=	20	
Nickel	=	83	
Selenium	J (Below RL but Above MDL)	10	
Zinc	=	710	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
    - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	57	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].
- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	8.7	
Cadmium	=	2.1	
Copper	=	310	
Lead	=	10	
Mercury	=	0.57	
Nickel	=	44	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Selenium	J (Below RL but Above MDL)	6.3	
Zinc	=	630	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	52000	

Compliance Monitoring Event No. 2

Compliance Monitoring Period Start Date: 03/01/2024

Compliance Monitoring Period End Date: 04/30/2024

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☐ YES ☑ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	12	
Cadmium	=	2.4	
Copper	=	360	
Lead	=	13	
Mercury	=	0.58	
Molybdenum	=	22	
Nickel	=	27	
Selenium	=	10	
Zinc	=	720	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
  - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	71	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].
- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	10	
Cadmium	=	2.2	
Copper	=	350	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Lead	=	12	
Mercury	J (Below RL but Above MDL)	0.29	
Nickel	=	24	
Selenium	J (Below RL but Above MDL)	8.8	
Zinc	=	680	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	48000	

Compliance Monitoring Event No. 3

Compliance Monitoring Period Start Date: 05/01/2024

Compliance Monitoring Period End Date: 06/30/2024

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☐ YES ☑ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	7.9	
Cadmium	=	2	
Copper	=	250	
Lead	=	7.7	
Mercury	=	0.58	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Molybdenum	=	18	
Nickel	=	17	
Selenium	J (Below RL but Above MDL)	7.6	
Zinc	=	460	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
  - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	61	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].
- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be

reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	6.9	
Cadmium	J (Below RL but Above MDL)	1.8	
Copper	=	240	
Lead	=	6.7	
Mercury	=	0.47	
Nickel	=	16	
Selenium	J (Below RL but Above MDL)	5.7	
Zinc	=	450	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	50000	

Compliance Monitoring Event No. 4

Compliance Monitoring Period Start Date: 07/01/2024

Compliance Monitoring Period End Date: 08/31/2024

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☐ YES ☑ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	12	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Cadmium	=	3.5	
Copper	=	360	
Lead	=	10	
Mercury	=	0.62	
Molybdenum	=	25	
Nickel	=	25	
Selenium	=	11	
Zinc	=	750	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
  - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	59	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].
- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time

per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	9.8	
Cadmium	=	2.9	
Copper	=	350	
Lead	=	9.2	
Mercury	=	0.52	
Nickel	=	24	
Selenium	J (Below RL but Above MDL)	9.3	
Zinc	=	710	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	45000	

Compliance Monitoring Event No. 5

Compliance Monitoring Period Start Date: 09/01/2024

Compliance Monitoring Period End Date: 10/31/2024

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☐ YES ☑ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	=	11	
Cadmium	=	2.4	
Copper	=	420	
Lead	=	18	
Mercury	=	1.3	
Molybdenum	=	23	
Nickel	=	28	
Selenium	J (Below RL but Above MDL)	10	
Zinc	=	840	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
  - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	50	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].

- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	10	
Cadmium	=	2.2	
Copper	=	390	
Lead	=	11	
Mercury	=	0.74	
Nickel	=	26	
Selenium	J (Below RL but Above MDL)	8.6	
Zinc	=	780	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	55000	

Compliance Monitoring Event No. 6

Compliance Monitoring Period Start Date: 11/01/2024

Compliance Monitoring Period End Date: 12/31/2024

Do you have analytical results to report for this monitoring period? ☑ YES ☐ NO

Are you reporting maximum pollutant concentrations that are equivalent to the monthly average pollutant concentrations for this compliance monitoring event? [For example, this will be the case if you only collected and analyzed one sample of sewage sludge or biosolids for this compliance monitoring period.]

☐ YES ☑ NO

Maximum Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the maximum pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. In accordance with 40 CFR 503.13(a) (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113), EPA's regulations prohibit land application of bulk sewage sludge or sewage sludge sold or gave away sewage sludge in a bag or other container when one or more sewage sludge pollutant concentrations in the sewage sludge exceed a land application ceiling pollutant limit (Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113)). EPA will compare the pollutant concentrations in this section against the ceiling concentration limits in Table 1 of 40 CFR 503.13 (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_113) to identify noncompliance events. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Please only select a "No Data Indicator Code" if you are reporting no data for the sampling period or particular parameter.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	9.6	
Cadmium	=	3.3	
Copper	=	400	
Lead	=	10	
Mercury	=	0.65	
Molybdenum	=	20	
Nickel	=	31	
Selenium	J (Below RL but Above MDL)	9.2	
Zinc	=	760	

Pathogen And Vector Attraction Reduction

Note: Pathogenic organisms are disease-causing organisms. These include, but are not limited to, certain bacteria, protozoa, viruses, and viable helminth ova [see 40 CFR 503.31(f) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(f))]. The following units should be used for pathogen data (see 40 CFR 503.32 (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.32)):

- Density of fecal coliform in the sewage sludge shall be reported as Most Probable Number per gram of total solids (dry weight basis).
  - When using the Class B - Alternative 1 management option, the density of fecal coliform in the sewage sludge shall be reported as Most Probable Number or Colony Forming Units per gram of total solids (dry weight basis) expressed as the geometric mean of the results of seven individual samples of sewage sludge.
- Density of Salmonella sp. bacteria in the sewage sludge shall be reported as Most Probable Number per four grams of total solids (dry weight basis).
- Density of enteric viruses shall be reported as plaque-forming unit per four grams of total solids (dry weight basis).
- Density of Helminth Ova. shall be reported as viable helminth ovum per four grams of total solids (dry weight basis).

Report the vector attraction reduction data for the biosolids or sewage sludge that was placed on an active sewage sludge unit during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Vector Attraction Reduction Selected Options	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	Option 1 - Volatile Solids Reduction	=	61	

Note: Vector attraction is the characteristic of sewage sludge that attracts rodents, flies, mosquitos, or other organisms capable of transporting infectious agents [see 40 CFR 503.31(k) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(k))]. The following units should be used for vector attraction reduction data (see 40 CFR 503.33) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33):

- Solids, total volatile, shall be reported as percent removal. See calculation procedures in "Environmental Regulations and Technology - Control of Pathogens and Vector Attraction in Sewage Sludge" (https://www.epa.gov/biosolids/control-pathogens-and-vector-attraction-sewage-sludge), EPA-625/R-92/013, 1992, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268) [see 40 CFR 503.33(b)(1)

(https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.33#p-503.33(b)(1))]. Volatile solids is the amount of the total solids in sewage sludge lost when the sewage sludge is combusted at 550 degrees Celsius in the presence of excess air [see 40 CFR 503.31(l) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(l))].

- Specific Oxygen Update Rate (SOUR) shall be reported as milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius. SOUR is the mass of oxygen consumed per unit time per unit mass of total solids (dry weight basis) in the sewage sludge [see 40 CFR 503.31(h) (https://www.ecfr.gov/current/title-40/chapter-I/subchapter-O/part-503/subpart-D/section-503.31#p-503.31(h))].

Monthly Average Pollutant Concentration Data for All Sewage Sludge or Biosolids Applied to Land

This section summarizes the monthly average pollutant concentrations in the biosolids or sewage sludge that was applied to land during the compliance monitoring period for this SSUID. All pollutant monitoring data should be reported in milligrams per kilogram (mg/kg), dry weight basis.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	8.6	
Cadmium	=	2.7	
Copper	=	380	
Lead	J (Below RL but Above MDL)	9.2	
Mercury	J (Below RL but Above MDL)	0.48	
Nickel	=	27	
Selenium	J (Below RL but Above MDL)	7.5	
Zinc	=	700	

Report the average concentration (mg/kg, dry weight basis) of Total Nitrogen (TKN plus Nitrate-Nitrite, as N) in the sewage sludge or biosolids that was applied to land during the compliance monitoring period for this SSUID.

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	49000	

Sludge Management - Surface Disposal

Sludge Management - Incineration

Sludge Management - Other Management Practice

ID: 006

Amount: 975

Management Practice Detail: Other

Other Management Practice Detail Description: Composting Facility- Class 1 Sludge Management Facility

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler:

Facility Information:
Synagro- Nursery Products
PO Box 1439
Helendale , CA 92342
US

Contact Information:
Venny Vasquez
Site Manager
720-265-5210
vvasquez@synagro.com

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☑ NO ☐ UNKNOWN

ID: 002

Amount: 1805

Management Practice Detail: Other

Other Management Practice Detail Description: Composting Facility- Class 1 Sludge Management Facility

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler:

Facility Information:
Synagro-Liberty Compost
12421 Holloway Road
Lost Hills, CA 93249
US

Contact Information:
Wilson Nolan
Site Manager
661-619-7320
wnolan@synagro.com

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☑ NO ☐ UNKNOWN

ID: 004

Amount: 1021

Management Practice Detail: Other

Other Management Practice Detail Description: Composting Facility- Class 1 Sludge Management Facility

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler:

Facility Information:
Synagro-South Kern Manufacturing Compost Facility
PO Box 265
Taft, CA 93268
US

Contact Information:
Rob Rankin
Site Manager
661-765-2200
rrankin@synagro.com

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☑ NO ☐ UNKNOWN

ID: 005

Amount: 1309

Management Practice Detail: Other

Other Management Practice Detail Description: Composting Facility-Class 1 Sludge Management Facility

Handler, Preparer, or Applier Type: Off-Site Third-Party Preparer

NPDES ID of handler:

Facility Information:

Inland Empire Regional Compost Facility
12645 6th Street
Rancho Cucamonga, CA 91739
US

Contact Information:

Arin Boughan
Site Manager
909-993-1513
aboughan@ieua.org

Pathogen Class: Class A EQ

Do you have any deficiencies to report for this SSUID? ☐ YES ☑ NO ☐ UNKNOWN

Additional Information

Please enter any additional information that you would like to provide in the comment box below.

Additional Attachments

Name	Created Date	Size

Certification Information

Form has not been certified yet.

Appendix E. ADEQ Biosolids Annual Report Form

ARIZONA
DEPARTMENT OF ENVIRONMENTAL QUALITY
AZPDES Individual Permits Unit
1110 W Washington Street
Phoenix, Arizona 85007
(602) 771-4689 (voicemail) (602) 771-4505 (fax)
Email to: biosolids@azdeq.gov

BIOSOLIDS OR SEWAGE SLUDGE ANNUAL REPORT FORM

1. Program Information: All preparers (Generators) and Land Applicators Must complete the following.

Reporting Start Date:1/1/2024	**Reporting End Date: 12/31/2024**
Date: 2/12/2024	**AZPDES Permit # (if applicable):**Click here to enter text.
Company name (Preparer / Applicator): Orange County Sanitation District, Plant No. 1 and Plant No. 2	
Contact Name: Lan C. Wiborg	**Title: Director of Environmental Services**
Address: 18480 Bandilier Circle, Fountain Valley, CA 92708 **Phone: 714-593-7450**	**E-mail: lwiborg@ocsan.gov**

Please select one of the following options pertaining to your obligation to submit a Biosolids Annual Report. My facility is a:

☒ POTW with a design flow equal to or greater than 1 MGD Per Day

☒ POTW that serves 10,000 people or more

☐ Class I Sludge Management Facility as defined by 40 CFR 503.9

☐ Biosolids Applicator (Complete Section 5 only)

☐Other Click here to enter text.

What is the estimated total of volume of biosolids or sewage sludge generated at your facility (in dry metric tons)?

43,116

Were all biosolids removed from your facility sent to a landfill for disposal? **No**

If yes, provide the name and address of the landfill(s). Click here to enter text.

If all biosolids or sewage sludge was sent to a landfill for disposal, you do not need to complete the remainder of this form, as it is only applicable to facilities preparing biosolids or sewage sludge for land application.

Certification: I certify, under penalty of law, that the information and descriptions, 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.

Signature: Title: Director of Environmental Services	Date: 2/12/2025

2. Generator/Preparers - Biosolids Storage and Treatment Processes

2.1 Please check the box next to the following biosolids or sewage sludge storage practices and treatment processes used on the sewage sludge or biosolids generated or produced at your facility during the reporting period.

Storage Practices

☐ Biosolids are stored in lined lagoons or impoundments

☐ Biosolids stored directly on the ground

Physical Treatment Processes

☒ Preliminary Operations (e.g. sludge grinding, degritting, blending)

☒ Thickening (e.g. gravity floatation, centrifugation, belt filter press, vacuum filter)

☐ Sludge lagoon

Pathogen Reduction Operations (PSRP)

☐ Aerobic Digestion

☐ Air Drying (or "sludge drying beds")

☒ Anaerobic Digestion

☐ Lower Temperature Composting

☐ Lime Stabilization

Process to Further Reduce Pathogens (PFRP)

☐ Higher Temperature Composting

☐ Heat Drying (e.g. flash dryer, spray dryer, rotary dryer)

☐ Heat Treatment (Liquid sewage sludge is heated to temp of 356 °F (180 °C) or higher for 30 minutes

☐ Thermophilic Aerobic Digestion

☐ Beta Ray Irradiation

☐ Gamma Ray Irradiation

☐ Pasteurization

3. Generators/Preparers: Disposition of Biosolids or Sewage Treatment Sludge:

3.1 At the beginning of the year, did you have any biosolids or sewage sludge stored on site or remaining from previous years? Include any amount that is being stored anywhere. **No**

If yes provide the following information:

	CLASS A Biosolids	Class B Biosolids
Dry Ton Weight	Click here to enter text.	Click here to enter text.
Pathogen Testing	Choose an item.	Not applicable
Pathogen Reduction Method	Choose an item.	Choose an item.
Vector Attraction Reduction Method	Choose an item.	Choose an item.
Storage Locations	Click here to enter text.	Click here to enter text.

3.2 At the end of the year, are any biosolids or sewage sludge stored on site? **No**

If yes, provide the following information:

	CLASS A Biosolids	Class B Biosolids
Dry Ton Weight	Click here to enter text.	Click here to enter text.
Pathogen Testing	Choose an item.	Not applicable
Pathogen Reduction Method	Choose an item.	Choose an item.
Vector Attraction Reduction Method	Choose an item.	Choose an item.
Storage Locations	Click here to enter text.	Click here to enter text.

3.3 Were biosolids or sewage sludge received from another facility during the year, such as another wastewater treatment plant or another APP permitted facility for further processing? **No**

If yes provide the following information for each facility. Click the plus sign to create as many tables as needed.

Name of Facility		
Location:		
	CLASS A Biosolids	Class B Biosolids
Dry Ton Weight	Click here to enter text.	Click here to enter text.
Pathogen Testing	Choose an item.	Not applicable
Pathogen Reduction Method	Choose an item.	Choose an item.
Vector Attraction Reduction Method	Choose an item.	Choose an item.
Storage Locations	Click here to enter text.	Click here to enter text.

3.4. Were biosolids removed from your facility for land application? Include all recipients, including haulers, name, phone number, land applicators, composters, drying facilities, EQB bagging facilities, bulk composting, etc.

Name of Facility	**Tule Ranch / Ag-Tech**	
Management Practice Type:	Agricultural Land application	
Handler or Preparer Type:	Off-Site Third-Party Handler or Applier	
Management Practice Detail:	Agricultural Land application	
Bag or Bulk Container:	Bulk Container	
	Class A Biosolids	Class B Biosolids
Dry Ton Weight	Click here to enter text.	19,794
Pathogen Testing	Choose an item.	Not applicable
Pathogen Reduction Method	Choose an item.	Alternate 5 - anaerobic digestion
Vector Attraction Reduction Method	Choose an item.	Option 1 - mass reduction
Storage Locations	Click here to enter text.	Click here to enter text.

Name of Facility	**Synagro Nursery Products**	
Management Practice Type:	Composting	
Handler or Preparer Type:	Off-Site Third-Party Preparer	
Management Practice Detail:	Composting	
Bag or Bulk Container:	Bulk Container	
	Class A Biosolids	Class B Biosolids
Dry Ton Weight	7,640	Click here to enter text.
Pathogen Testing	Salmonella	Not applicable
Pathogen Reduction Method	Alternate 5 - composting	Choose an item.
Vector Attraction Reduction Method	Option 5 - aerobic treatment	Choose an item.
Storage Locations	Click here to enter text.	Click here to enter text.

Name of Facility	**Synagro Arizona Soils**	
Management Practice Type:	Composting	
Handler or Preparer Type:	Off-Site Third-Party Preparer	
Management Practice Detail:	Composting	
Bag or Bulk Container:	Bulk Container	
	Class A Biosolids	Class B Biosolids
Dry Ton Weight	0	Click here to enter text.
Pathogen Testing	Salmonella	Not applicable
Pathogen Reduction Method	Alternate 5 - composting	Choose an item.
Vector Attraction Reduction Method	Option 5 - aerobic treatment	Choose an item.
Storage Locations	Click here to enter text.	Click here to enter text.

Name of Facility	**Inland Empire Regional Composting Facility**	
Management Practice Type:	Composting	
Handler or Preparer Type:	Off-Site Third-Party Preparer	
Management Practice Detail:	Composting	
Bag or Bulk Container:	Bulk Container	
	Class A Biosolids	Class B Biosolids
Dry Ton Weight	1,949	Click here to enter text.
Pathogen Testing	Salmonella	Not applicable
Pathogen Reduction Method	Alternate 5 - composting	Choose an item.
Vector Attraction Reduction Method	Option 5 - aerobic treatment	Choose an item.
Storage Locations	Click here to enter text.	Click here to enter text.

Name of Facility	**Synagro Liberty Compost**	
Management Practice Type:	Composting	
Handler or Preparer Type:	Off-Site Third-Party Preparer	
Management Practice Detail:	Composting	
Bag or Bulk Container:	Bulk Container	
	Class A Biosolids	Class B Biosolids
Dry Ton Weight	7,125	Click here to enter text.
Pathogen Testing	Salmonella	Not applicable
Pathogen Reduction Method	Alternate 5 - composting	Choose an item.
Vector Attraction Reduction Method	Option 5 - aerobic treatment	Choose an item.
Storage Locations	Click here to enter text.	Click here to enter text.

Name of Facility	**Synagro South Kern Compost Manufacturing**	
Management Practice Type:	Composting	
Handler or Preparer Type:	Off-Site Third-Party Preparer	
Management Practice Detail:	Composting	
Bag or Bulk Container:	Bulk Container	
	Class A Biosolids	Class B Biosolids
Dry Ton Weight	6,560	Click here to enter text.
Pathogen Testing	Salmonella	Not applicable
Pathogen Reduction Method	Alternate 5 - composting	Choose an item.
Vector Attraction Reduction Method	Option 5 - aerobic treatment	Choose an item.
Storage Locations	Click here to enter text.	Click here to enter text.

Enter any content that you want to repeat, including other content controls. You can also insert this control around table rows in order to repeat parts of a table.

4. Generators/Preparers : Biosolids or Sewage Sludge Analytical Methods

Arizona regulations specify that representative samples of sewage sludge that is land applied, placed on a surface disposal site, or fired in s sewage sludge incinerator, must be collected and analyzed. These regulations specify the analytical methods that must be used to analyzed samples of sewage sludge.

Parameter	*Method Number or Author*	*Results (if tested)*	*Comments (required if other)*
Pathogens			
Ascaris ova.	No Analytical Method Used	Click here to enter text.	Not Applicable
Fecal Coliform	No Analytical Methods Used	Click here to enter text.	Not Applicable
Helminth ova.	No Analytical Methods Used	Click here to enter text.	Not Applicable
Salmonella sp. Bacteria	No Analytical Methods Used	Click here to enter text.	Not Applicable
Total Cultural Viruses	No Analytical Methods Used	Click here to enter text.	Not Applicable
Metals			
Arsenic	EPA Method 6010 - Arsenic (ICP-OES)	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Beryllium	Other Beryllium Analytical Method	See attached OC San Biosolids Management Compliance Report, Appendix C.	EPA Method 6010 - Beryllium
Cadmium	EPA Method 6010 - Cadmium (ICP-OES)	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Chromium	EPA Method 6010 - Chromium (ICP-OES)	See attached OC San Biosolids Management Compliance Report, appendices A and C.	Click here to enter text.
Copper	EPA Method 6010 - Copper (ICP-OES)	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Lead	EPA Method 6010 - Lead (ICP-OES)	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Mercury	EPA Method 7471 - Mercury (CVAA)	See attached OC San Biosolids Management Compliance	Click here to enter text.

		Report, Appendices A, C, and D.	
Molybdenum	EPA Method 6010 - Molybdenum (ICP-OES)	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Nickel	EPA Method 6010 - Nickel (ICP-OES)	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Selenium	EPA Method 6010 - Selenium (ICP-OES)	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Zinc	EPA Method 6010 - Zinc (ICP-OES)	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Nitrogen Compounds			
Ammonia Nitrogen	Standard Method 4500-NH3 - Ammonia Nitrogen	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Nitrate Nitrogen	Other Nitrate Nitrogen Analytical Method	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	EPA 9056A
Nitrogen	Other Nitrogen Analytical Method	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Calculation
Organic Nitrogen	Other Organic Nitrogen Analytical Method	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Calculation
Total Kjeldahl Nitrogen	EPA Method 351.2 - Total Kjeldahl Nitrogen	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Other Analytes			
Fixed Solids	No Analytical Method Used	Click here to enter text.	Not Applicable
Paint Filter Test	No Analytical Method Used	Click here to enter text.	Not Applicable

pH	EPA Method 9045 - pH (> 7% solids)	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Specific Oxygen Uptake Rate	No Analytical Method Used	Click here to enter text.	Not Applicable
TCLP	No Analytical Method Used	Click here to enter text.	Not Applicable
Temperature	No Analytical Method Used	Click here to enter text.	Not Applicable
Total Solids	Standard Method 2540 - Total Solids	See attached OC San Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Volatile Solids	Standard Method 2540 - Volatile Solids	See attached OC San Biosolids Management Compliance Report, Appendix A and D.	Click here to enter text.
No Analytical Methods Used	not applicable	Click here to enter text.	Click here to enter text.

ARIZONA
DEPARTMENT OF ENVIRONMENTAL QUALITY
AZPDES Individual Permits Unit
1110 W Washington Street
Phoenix, Arizona 85007
(602) 771-4689 (voicemail) (602) 771-4505 (fax)
Email to: biosolids@azdeq.gov

5. Land Applicators: Specific information to be completed by Land Applicators Only

Application Site / Location	Field ID	Amount of Biosolids Applied (in dry tons)	Preparer	Pathogen Treatment Method	Vector Attraction Reduction Method	Loading Rate	Nitrogen Conc. (Organic + ammonium)	Type of Crop Grown After Application	Agronomic Rate of Crop Grown	The Cumulative Concentration of Pollutants (kilograms per hectare) in Soil				
Example: ABC Farms, Aztec AZ	*1A*	*350 tons*	*Aztec WWTP*	*Class B Alt. 2*	*Option 9*	*Tons or Kg/acre*		*Corn*						
1. Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	As=Click here to enter text.	Cd=Click here to enter text.	Cr=Click here to enter text.	Cu=Click here to enter text.	Pb=Click here to enter text.
										Hg=Click here to enter text.	Mo=Click here to enter text.	Ni=Click here to enter text.	Se=Click here to enter text.	Zn=Click here to enter text.
2. Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	As=Click here to enter text.	Cd=Click here to enter text.	Cr=Click here to enter text.	Cu=Click here to enter text.	Pb=Click here to enter text.
										Hg=Click here to enter text.	Mo=Click here to enter text.	Ni=Click here to enter text.	Se=Click here to enter text.	Zn=Click here to enter text.
	Click here									As=Click here to	Cd=Click here to	Cr=Click here to	Cu=Click here to	Pb=Click here to

3. Click here to enter text.	to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	enter text.	enter text.	enter text.	enter text.	enter text.
										Hg=Click here to enter text.	Mo=Click here to enter text.	Ni=Click here to enter text.	Se=Click here to enter text.	Zn=Click here to enter text.
4. Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	As=Click here to enter text.	Cd=Click here to enter text.	Cr=Click here to enter text.	Cu=Click here to enter text.	Pb=Click here to enter text.
										Hg=Click here to enter text.	Mo=Click here to enter text.	Ni=Click here to enter text.	Se=Click here to enter text.	Zn=Click here to enter text.
5. Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	Click here to enter text.	As=Click here to enter text.	Cd=Click here to enter text.	Cr=Click here to enter text.	Cu=Click here to enter text.	Pb=Click here to enter text.
										Hg=Click here to enter text.	Mo=Click here to enter text.	Ni=Click here to enter text.	Se=Click here to enter text.	Zn=