

YEAR
2023

Orange County Sanitation District

BIOSOLIDS MANAGEMENT COMPLIANCE REPORT

EPA 40 CFR Part 503

70TH ANNIVERSARY



OC  **SAN**
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
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

The Orange County Sanitation District (OC San) manages biosolids, which encompass nutrient-rich organic matter recovered and derived from the wastewater treatment process. This material is beneficially used offsite (recycled), adhering to all relevant local, state, and federal regulations, as well as best management practices.

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 Treatment Plant No. 2 located in the city of Huntington Beach, that treat wastewater from residential, commercial, and industrial sources.

In accordance with Code of Federal Regulations Title 40 Part 503 (40 CFR 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, 2023.

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.

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 3 (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 applicator’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. Treatment Plants

During the 2023 annual reporting period, Reclamation Plant No. 1 treated an average of 123 MGD of wastewater and Treatment Plant No. 2 treated an average of 66 MGD, producing a combined total of 193,106 wet tons of biosolids (44,668 dry metric tons), which equates to an average of 529 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 3 below, as well as in Appendices A, B, C, and D.

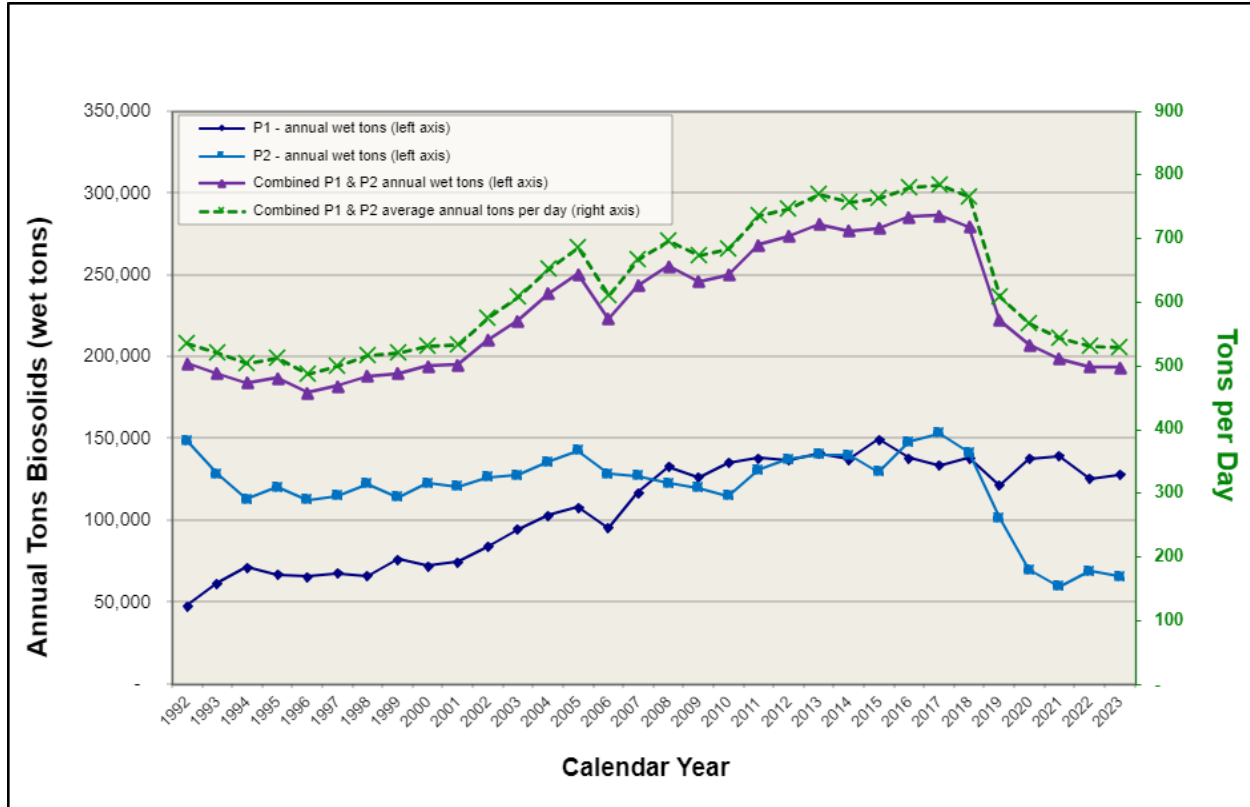


Figure 1. Biosolids Production History January 1992 – December 2023 (not including digester cleanings)

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 100% of OC San’s biosolids, which included digester cleaning materials. Refer to Figure 2 Distribution Map.

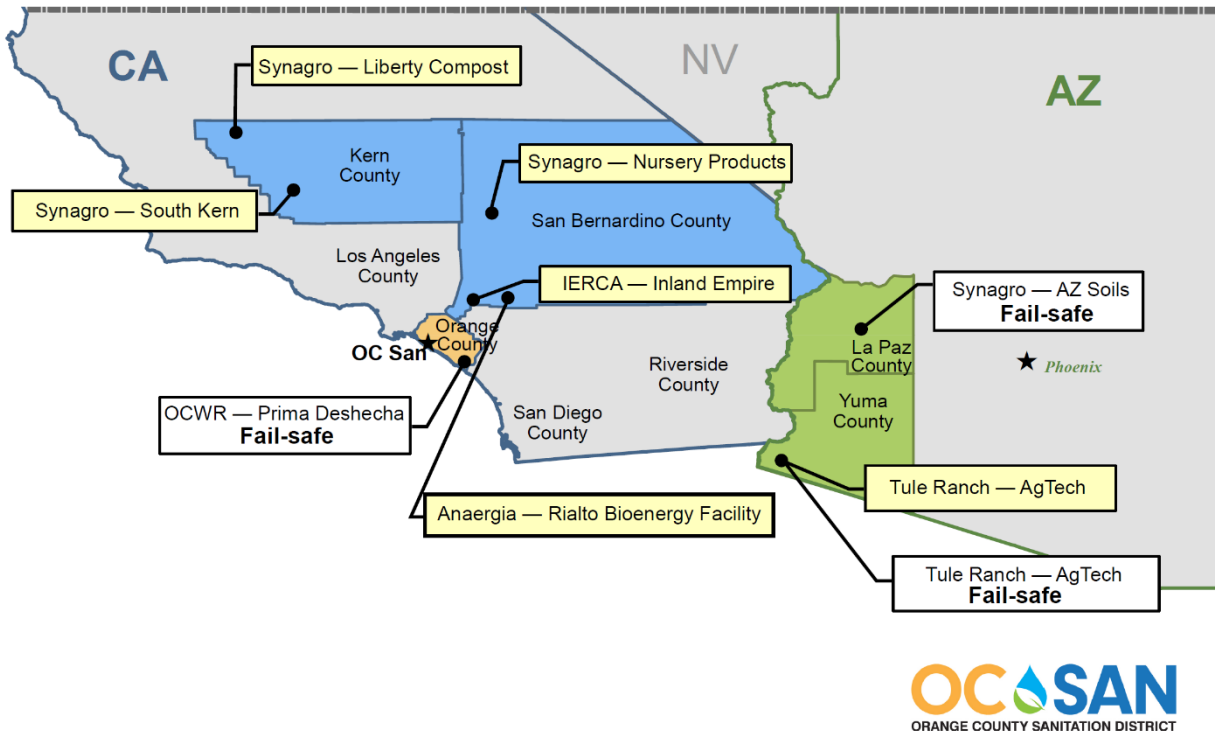


Figure 2 – Orange County Sanitation District Biosolids Allocations by Destination

The contractors listed below in Table 2 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

<p>Synagro - Nursery Products PO Box 1439 Helendale, CA 92342 Contact: Venny Vasquez, Manager Phone: (760) 265-5210 Email: vvasquez@SYNAGRO.com</p>	<p>Synagro – South Kern Compost Manufacturing Facility PO Box 265 Taft, CA 93268 Contact: Rob Rankin, Manager Phone: (661) 765-2200 Email: rrankin@SYNAGRO.com</p>
<p>Synagro - Liberty Compost 12421 Holloway Rd. Lost Hills, CA 93249 Contact: Wilson Nolan, Manager Phone: (661) 619-7320 Email: WNolan@synagro.com</p>	<p>Synagro – Arizona Soils 5615 S. 91st Avenue Tolleson, AZ 85353 Contact: Brian Millage, Manager Phone: (623) 626-0974 Email: bmillage@SYNAGRO.com</p>

Table 1 – Biosolids Management Contractors

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: Jeff Ziegenbein, Manager Phone: (909) 993-1981 Email: jziegenbein@ieua.org
Rialto Bioenergy Facility 503 East Santa Ana Avenue, Rialto, CA 92316 Contact: John Hutson, Facility Manager Phone: (224) 500-7712 Email: John.Hutson@anaergia.com	

For this reporting period, OC San’s biosolids were beneficially reused as illustrated in Table 3. 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)	32,398	47,879	80,277	42.0
Tule Ranch AZ (land application) (dry metric tons)	7,210	11,615	18,825	
Synagro - Liberty Compost CA (wet tons)	34,702	7,966	42,668	22.0
Synagro - Liberty Compost CA (dry metric tons)	8,063	1,987	10,050	
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	0.0
Synagro – Nursery Products CA (compost) (wet tons)	24,587	1,060	25,647	13.0
Synagro – Nursery Products CA (compost) (dry metric tons)	5,432	252	5,684	
Synagro – South Kern – compost (wet tons)	32,507	452	32,959	17.0
Synagro – South Kern – compost (dry metric tons)	7,224	106	7,331	
Synagro – AZ Soils – compost (wet tons)	2,826	0	2,826	1.5
Synagro – AZ Soils – compost (dry metric tons)	637	0	637	
Inland Empire Regional Composting (wet tons)	495	8,236	8,730	4.5
Inland Empire Regional Composting (dry metric tons)	111	2,030	2,141	
Total Wet Tons	127,514	65,592	193,106	100.0
Total Dry Metric Tons	28,679	15,989	44,668	

Section 5. Summary 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/nani),
- 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 six (6) contractor site inspections in 2023.
- Reviewed Local Enforcement Agency (LEA) reports and monthly contractor reports to maintain an ongoing understanding of each contractor compliance status.
- A Notice of Violation (NOV) was issued to one (1) biosolids contractors by local enforcement agencies 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 has been closed:
 - On September 29, 2022, Nursery Products received a cease-and-desist order from the LEA for multiple violations relating to a fire that occurred on May 28, 2022. The facility still had multiple NOVs in the beginning of 2023 originating from issues with odor and litter control along with violations that related to the facility not having the proper fire prevention and control, etc. However, the LEA rescinded their cease-and-desist order on March 29, 2023 and has since worked with several agencies to revise programs, make operational improvements, and address ongoing issues. In early 2023 the facility reopened on a limited basis and has since returned to full operational capacity.
- Performed five hauling inspections.



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Appendix A. Biosolids Monthly Compliance Reports,
January – December 2023

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

Biosolids Generated	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Annual Avg
Biosolids Total Solids (%)	25	25	25	25	24	24	24	24	26	24	24	25	25
Management Locations	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Tule Ranch AZ – land application (wet tons)	3,285	3,778	3,004	2,453	2,556	2,499	2,415	2,534	2,389	2,538	2,477	2,472	32,398
Tule Ranch AZ – land application (dry metric tons)	733	857	681	556	556	544	518	553	563	552	539	557	7,210
Synagro - Liberty Compost CA (wet tons)	4,383	2,571	4,165	3,344	4,023	2,929	1,932	2,739	2,087	1,381	1,530	1,478	32,560
Synagro - Liberty Compost CA (dry metric tons)	977	583	944	758	876	638	414	598	492	301	333	333	7,248
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)	0	75	50	0	1,101	2,550	3,614	3,426	3,207	3,095	3,573	3,895	24,587
Synagro – Nursery Products CA – compost (dry metric tons)	0	17	11	0	240	555	775	748	756	674	778	878	5,432
Synagro – South Kern – compost (wet tons)	1,826	1,610	2,463	2,946	3,371	2,965	2,667	2,750	3,150	2,543	3,071	3,144	32,507
Synagro – South Kern – compost (dry metric tons)	407	365	559	668	734	646	572	601	743	554	668	709	7,224
Synagro – AZ Soils – compost (wet tons)	999	1,054	773	0	0	0	0	0	0	0	0	0	2,826
Synagro – AZ Soils – compost (dry metric tons)	223	239	175	0	0	0	0	0	0	0	0	0	637
Inland Empire Regional Composting (wet tons)	0	0	419	0	0	0	0	0	0	46	30	0	495
Inland Empire Regional Composting (dry metric tons)	0	0	95	0	0	0	0	0	0	10	6	0	111
Total Wet Tons	10,493	9,087	10,875	8,742	11,051	10,943	10,628	11,449	10,833	9,603	10,680	10,988	125,372
Total Dry Metric Tons	2,340	2,061	2,466	1,982	2,406	2,382	2,280	2,501	2,555	2,090	2,325	2,477	27,863
Digester Cleanings	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Digester(s)	12										14	13	
Digester Cleaning Total Solids Percents	18										21	65*	
Synagro - Liberty Compost (compost) (wet tons)	872	0	0	0	0	0	0	0	0	0	194	1,077	2,142
Synagro - Liberty Compost (compost) (dry metric tons)	142	0	0	0	0	0	0	0	0	0	38	636	816
Digester Cleaning Total Wet Tons	872	0	0	0	0	0	0	0	0	0	194	1,077	2,142
Total Dry Metric Tons	142	0	0	0	0	0	0	0	0	0	38	636	816
Total Wet Tons (Biosolids plus Digester Cleanings)	11,365	9,087	10,875	8,742	11,051	10,943	10,628	11,449	10,833	9,603	10,873	12,064	127,514
Total Dry Metric Tons (Biosolids plus Digester Cleanings)	2,483	2,061	2,466	1,982	2,406	2,382	2,280	2,501	2,555	2,090	2,362	3,112	28,679

*The total solids analysis for the digester 13 cleaning sample was performed one day past the method-specified holding time of seven days. There is no indication of a problem with the analysis, as the quality control performed by the lab met method requirements. Since the data were received in the month following the cleaning and sampling, resampling was not possible.

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

Biosolids Generated	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Annual Avg
Biosolids Total Solids (%)	27	28	28	27	26	27	27	25	27	27	26	26	27
Management Locations	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Tule Ranch AZ – land application (wet tons)	3,667	3,009	4,410	3,790	4,464	4,275	4,166	4,070	4,138	3,747	4,072	4,070	47,879
Tule Ranch AZ – land application (dry metric tons)	904	764	1,106	928	1,053	1,060	1,027	923	1,013	918	960	960	11,615
Synagro - Liberty Compost CA (wet tons)	1,014	632	100	682	405	632	508	280	279	51	51	304	4,936
Synagro - Liberty Compost CA (dry metric tons)	250	156	25	168	100	156	125	69	69	12	12	75	1,216
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
Inland Empire Regional Composting (wet tons)	968	942	739	539	568	541	517	818	888	726	506	483	8,236
Inland Empire Regional Composting (dry metric tons)	239	232	182	133	140	133	127	202	219	179	125	119	2,030
Synagro – Nursery Products CA – compost (wet tons)	0	0	0	0	174	0	0	51	0	229	454	152	1,060
Synagro – Nursery Products CA – compost (dry metric tons)	0	0	0	0	41	0	0	12	0	56	107	36	252
Synagro – South Kern – compost (wet tons)	0	0	0	0	0	0	0	100	0	75	176	100	452
Synagro – South Kern – compost (dry metric tons)	0	0	0	0	0	0	0	23	0	18	41	24	106
Biosolids Total Wet Tons	5,650	4,583	5,249	5,011	5,611	5,448	5,191	5,319	5,305	4,828	5,259	5,108	62,562
Total Dry Metric Tons	1,392	1,152	1,312	1,229	1,334	1,349	1,280	1,228	1,301	1,184	1,246	1,213	15,219
Digester Cleanings	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Digester(s)							P	R	I	J	J		
Digester Cleaning Total Solids Percents							29	29*	27	25	25		
Synagro - Liberty Compost (compost) (wet tons)	0	0	0	0	0	0	549	1,416	629	85	350	0	3,030
Synagro - Liberty Compost (compost) (dry metric tons)	0	0	0	0	0	0	144	370	156	20	81	0	770
Digester Cleaning Total Wet Tons	0	0	0	0	0	0	549	1,416	629	85	350	0	3,030
Total Dry Metric Tons	0	0	0	0	0	0	144	370	156	20	81	0	770
Total Wet Tons (Biosolids plus digester cleanings)	5,650	4,583	5,249	5,011	5,611	5,448	5,740	6,735	5,935	4,913	5,609	5,108	65,592
Total Dry Metric Tons (Biosolids plus digester cleanings)	1,392	1,152	1,312	1,229	1,334	1,349	1,424	1,597	1,457	1,203	1,327	1,213	15,989

*The total solids analysis for the digester R cleaning sample was performed two days past the method-specified holding time of seven days. There is no indication of a problem with the analysis, as the quality control performed by the lab met method requirements. Since OC San received notification after a representative sample could be collected, resampling was not possible.



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, 2023

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): 01/10/23, 01/17/23

	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*	0.55	11	3.5	39	460	6.3	15	34	7.6	800	5,700	58,000	63,000	7.0	24	63
Plant 1 Avg	0.54	9.5 DNQ	3.2	37	420	5.0	15	30	5.7	750	5,400	53,000	58,000		25	
Plant 2 Max/Min*	0.74	13	1.1	41	340	3.0	17	23	6.3	600	8,500	47,000	52,000	6.9	27	62
Plant 2 Avg	0.59	11 DNQ	1.0	39	340	1.8 DNQ	16	23	4.5	600	6,700	46,000	52,000		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)**	24	24	24	25	25	24	Out of Service	23	23	25	Out of Service
Minimum Temperature (Min 95 °F)	98	99	99	99	98	99	Out of Service	99	100	98	Out of Service

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	21	21	Out of Service	Out of Service	Out of Service	23	21	21
Minimum Temperature (Min 95 °F)	97	Out of Service	Out of Service	97	Out of Service	98	98	Out of Service	Out of Service	97	98	97	Out of Service	Out of Service	Out of Service	97	99	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.

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

Monitoring Period: January 1- 31, 2023

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.*



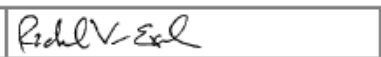


Arizona Class B: *I certify, under penalty of law, that the pollutant analyses and the description of pathogen treatment and vector attraction reduction activities have been made under my direction and supervision and under a system designed to ensure that qualified personnel properly gather and evaluate 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.*



Jim Spears
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	 <small>Cindy Vellucci (May 8, 2023 15:53 PDT)</small>			
Christopher Myrter	Cindy Vellucci	Rachel Van Exel	Peter Park	Tom Meregillano



Biosolids Monthly Compliance Report

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

Monitoring Period: February 1- 28, 2023

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): 02/07/23,02/14/23

	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*	0.87	9.1 DNQ	2.1	35	430	11	14	31	8.7 DNQ	670	9,500	51,000	58,000	8.1	24	66
Plant 1 Avg	0.79	8.1 DNQ	1.9 DNQ	34	410	9.2 DNQ	14	31	8.3 DNQ	670	8,500	49,000	57,000		25	
Plant 2 Max/Min*	0.61	9.5 DNQ	1.5 DNQ	35	310	8.1	17	26	8.1 DNQ	590	10,000	49,000	55,000	8.1	27	73
Plant 2 Avg	0.60	9.5 DNQ	1.5 DNQ	34	310	6.1 DNQ	17	26	7.0 DNQ	590	8,000	45,000	53,000		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

OCSD Plant 1	System Summary	Dig. 7	Dig. 8	Dig. 9	Dig. 10	Dig. 11	Dig. 12	Dig. 13	Dig. 14	Dig. 15	Dig. 16
Minimum Mean Cell Residence Time (Min 15 days)**	24	24	24	25	25	24	Out of Service	23	23	25	Out of Service
Minimum Temperature (Min 95 °F)	98	99	99	99	99	99	Out of Service	98	100	98	Out of Service

OCSD Plant 2	System Summary	Dig. C	Dig. D	Dig. E	Dig. F	Dig. G	Dig. H	Dig. I	Dig. J	Dig. L	Dig. M	Dig. N	Dig. O	Dig. P	Dig. Q	Dig. R	Dig. S	Dig. T
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	21	21	23	Out of Service	Out of Service	Out of Service	21	21
Minimum Temperature (Min 95 °F)	96	Out of Service	Out of Service	97	Out of Service	98	96	Out of Service	Out of Service	97	97	96	96	Out of Service	Out of Service	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.

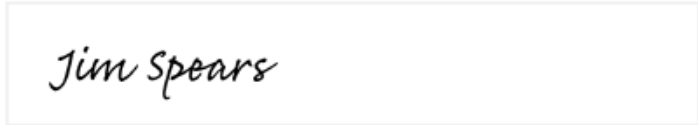
Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: February 1- 28, 2023

Certifications:

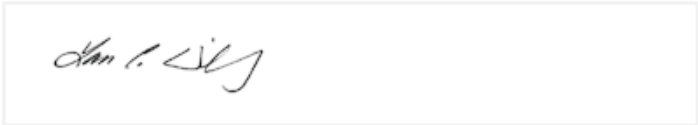
NPDES permit: *I certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons 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.*

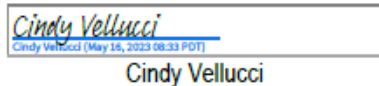
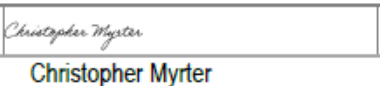
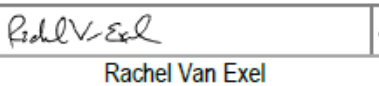
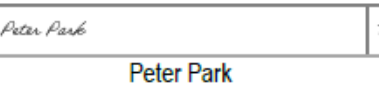
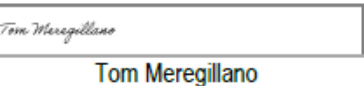
Arizona Class B: *I certify, under penalty of law, that the pollutant analyses and the description of pathogen treatment and vector attraction reduction activities have been made under my direction and supervision and under a system designed to ensure that qualified personnel properly gather and evaluate 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.*



Jim Spears
Operations Manager jspears@ocsan.gov
(714) 593-7081



Lan C. Wiborg
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 Cindy Vellucci <small>Cindy Vellucci (May 16, 2023 09:33 PDT)</small>	 Christopher Myrter	 Rachel Van Exel	 Peter Park	 Tom Meregillano
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Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: March 1- 31, 2023

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): 03/07/23, 03/14/23

	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*	0.77	7.6 DNQ	2.6	39	390	13	17	36	9.6 DNQ	680	9,200	55,000	64,000	7.6	25	62
Plant 1 Avg	0.66	7.1 DNQ	2.4	39	390	11	17	33	8.5 DNQ	670	8,700	50,000	59,000		25	
Plant 2 Max/Min*	0.56	8.4 DNQ	2.2	35	310	10	18	29	8.0 DNQ	590	8,300	45,000	49,000	7.5	27	70
Plant 2 Avg	0.50	8.2 DNQ	2.1	35	310	9.9	18	27	7.4 DNQ	580	6,100	43,000	49,000		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	24	23	Out of Service	22	22	24	Out of Service
Minimum Temperature (Min 95 °F)	99	100	100	100	100	100	Out of Service	100	100	99	Out of Service

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	Out of Service	Out of Service	21	20
Minimum Temperature (Min 95 °F)	96	Out of Service	Out of Service	98	Out of Service	98	96	Out of Service	Out of Service	98	98	97	96	Out of Service	Out of Service	Out of Service	99	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.

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: March 1- 31, 2023

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.*

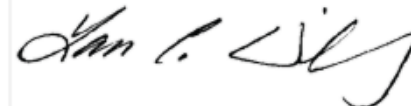
503 Class B: *I certify, under penalty of law, that the Class B pathogen requirements in 503.32(b) and the vector attraction reduction requirement in 503.33(b)(1) have been met. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified 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.*



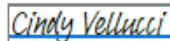
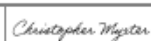
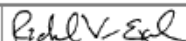
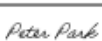
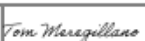
Jim Spears
Operations Manager

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(714) 593-7081



Lan C. Wiborg
Environmental Services Director

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(714) 593-7540

 <small>Cindy Vellucci (Jun 14, 2023 14:39 PDT)</small> Cindy Vellucci	 Christopher Myrter	 Rachel Van Exel	 Peter Park	 Tom Meregillano
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Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: April 1- 30, 2023

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): 04/04/23, 04/11/23

	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*	0.87	10 DNQ	6.1	43	400	12	17	38	11 DNQ	730	7,300	57,000	63,000	7.7	25	67
Plant 1 Avg	0.87	10 DNQ	4.6	42	400	10	17	36	9.9 DNQ	720	6,600	54,000	60,000		25	
Plant 2 Max/Min*	0.58	14	6.9	40	340	11	24	31	11	660	5,100	48,000	51,000	7.6	27	70
Plant 2 Avg	0.51	14	4.9	38	330	9.2	23	29	9.7 DNQ	660	4,100	42,000	46,000		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)**	24	25	25	25	25	24	Out of Service	23	23	25	30
Minimum Temperature (Min 95 °F)	97	100	100	100	97	100	Out of Service	100	100	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)**	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	Out of Service	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	98	98	Out of Service	Out of Service	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.

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
 Monitoring Period: April 1- 30, 2023

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.*

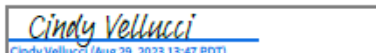

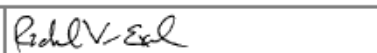


Arizona Class B: *I certify, under penalty of law, that the pollutant analyses and the description of pathogen treatment and vector attraction reduction activities have been made under my direction and supervision and under a system designed to ensure that qualified personnel properly gather and evaluate 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.*



Jim Spears
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 <small>Cindy Vellucci (Aug 29, 2023 13:47 PDT)</small>	 <small>Christopher Myrter</small>	 <small>Rachel Van Exel</small>	 <small>Jackie Lerma (Aug 30, 2023 13:31 PDT)</small>	 <small>Tom Meregillano</small>
Cindy Vellucci	Christopher Myrter	Rachel Van Exel	Jackie Lerma	Tom Meregillano



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, 2023

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): 05/02/23, 05/09/23

	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	9.3 DNQ	3.5	39	450	12	19	36	11 DNQ	760	6,400	70,000	76,000	7.2	24	63
Plant 1 Avg	0.59	9.2 DNQ	3.0	36	440	11	19	33	11 DNQ	750	5,900	64,000	69,000		24	
Plant 2 Max/Min*	0.52	11 DNQ	3.8	40	350	9.5	25	30	12	680	4,600	61,000	64,000	7.3	25	68
Plant 2 Avg	0.44	11 DNQ	2.9	35	350	8.8	24	28	11 DNQ	680	4,000	53,000	57,000		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

OCSD Plant 1	System Summary	Dig. 7	Dig. 8	Dig. 9	Dig. 10	Dig. 11	Dig. 12	Dig. 13	Dig. 14	Dig. 15	Dig. 16
Minimum Mean Cell Residence Time (Min 15 days)**	27	28	28	27	30	26	Out of Service	26	26	28	25
Minimum Temperature (Min 95 °F)	98	100	100	99	98	99	Out of Service	100	100	100	101

OCSD Plant 2	System Summary	Dig. C	Dig. D	Dig. E	Dig. F	Dig. G	Dig. H	Dig. I	Dig. J	Dig. L	Dig. M	Dig. N	Dig. O	Dig. P	Dig. Q	Dig. R	Dig. S	Dig. T
Minimum Mean Cell Residence Time (Min 15 days)**	20	Out of Service	Out of Service	19	Out of Service	20	20	Out of Service	Out of Service	20	20	20	20	Out of Service	Out of Service	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	98	98	Out of Service	Out of Service	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.

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: May 1- 31, 2023

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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Jim Spears
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 <small>Cindy Vellucci (Sep 7, 2023 13:13 PDT)</small> Cindy Vellucci	 Christopher Myrter	 Rachel Van Exel	 <small>Jackie Lerma (Sep 13, 2023 09:23 PDT)</small> Jackie Lerma	 Tom Meregillano
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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, 2023

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): 06/06/23, 06/13/23

	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	9.8 DNQ	<0.68	39	470	11	23	29	8.8 DNQ	850	14,000	36,000	50,000	7.4	24	60
Plant 1 Avg	0.57	9.3 DNQ	<0.68	38	440	11	22	28	8.7 DNQ	780	13,000	34,000	47,000		24	
Plant 2 Max/Min*	0.45	13	<0.59	48	360	12	30	26	8.6 DNQ	710	7,400	45,000	52,000	7.1	27	63
Plant 2 Avg	0.41	13	<0.59	47	360	12	30	26	8.0 DNQ	710	5,900	45,000	50,000		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

OCSD Plant 1	System Summary	Dig. 7	Dig. 8	Dig. 9	Dig. 10	Dig. 11	Dig. 12	Dig. 13	Dig. 14	Dig. 15	Dig. 16
Minimum Mean Cell Residence Time (Min 15 days)**	28	28	29	28	28	26	Out of Service	26	27	28	26
Minimum Temperature (Min 95 °F)	98	99	100	100	100	100	Out of Service	100	100	100	98

OCSD Plant 2	System Summary	Dig. C	Dig. D	Dig. E	Dig. F	Dig. G	Dig. H	Dig. I	Dig. J	Dig. L	Dig. M	Dig. N	Dig. O	Dig. P	Dig. Q	Dig. R	Dig. S	Dig. T
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	19	Out of Service	Out of Service	Out of Service	20	20
Minimum Temperature (Min 95 °F)	97	Out of Service	Out of Service	98	Out of Service	98	98	Out of Service	Out of Service	99	98	98	97	Out of Service	Out of Service	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, 2023

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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Jim Spears
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 <small>Cindy Vellucci (Sep 27, 2023 08:49 PDT)</small>			 <small>Jackie Lerma (Sep 27, 2023 13:02 PDT)</small>	
Cindy Vellucci	Christopher Myrter	Rachel Van Exel	Jackie Lerma	Tom Meregillano



Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: July 1- 31, 2023

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): 7/11/23, 07/17/23 (Plant 1); 07/11/23, 07/18/23 (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	6.3 DNQ	3.3	41	420	11	18	40	8.3 DNQ	710	6,700	54,000	59,000	7.9	24	63
Plant 1 Avg	0.57	6.1 DNQ	3.2	40	410	11	18	37	8.2 DNQ	700	5,900	51,000	57,000		24	
Plant 2 Max/Min*	0.57	7.9 DNQ	3.7	53	350	9.8	25	32	7.9 DNQ	720	5,400	53,000	57,000	7.4	27	63
Plant 2 Avg	0.50	7.2 DNQ	3.4	52	340	9.2	25	30	6.8 DNQ	680	4,600	51,000	56,000		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

OCSD Plant 1	System Summary	Dig. 7	Dig. 8	Dig. 9	Dig. 10	Dig. 11	Dig. 12	Dig. 13	Dig. 14	Dig. 15	Dig. 16
Minimum Mean Cell Residence Time (Min 15 days)**	29	28	29	28	28	26	Out of Service	26	26	28	30
Minimum Temperature (Min 95 °F)	99	100	100	100	100	100	Out of Service	100	100	100	99

OCSD Plant 2	System Summary	Dig. C	Dig. D	Dig. E	Dig. F	Dig. G	Dig. H	Dig. I	Dig. J	Dig. L	Dig. M	Dig. N	Dig. O	Dig. P	Dig. Q	Dig. R	Dig. S	Dig. T
Minimum Mean Cell Residence Time (Min 15 days)**	19	Out of Service	Out of Service	19	Out of Service	20	20	Out of Service	Out of Service	19	19	19	19	Out of Service	Out of Service	Out of Service	20	19
Minimum Temperature (Min 95 °F)	97	Out of Service	Out of Service	98	Out of Service	99	97	Out of Service	Out of Service	98	98	98	98	Out of Service	Out of Service	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.

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: July 1- 31, 2023

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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Jim Spears
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Environmental Services Director lwiborg@ocsan.gov
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Christopher Myrter	Rachel Van Exel	Jackie Lerma	Tom Meregillano



Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: August 1-31, 2023

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): 8/8/23, 8/22/23

	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*	0.64	6.0 DNQ	4.0	44	480	16	14	33	7.2 DNQ	800	7,600	47,000	55,000	7.5	24	67
Plant 1 Avg	0.56	6.0 DNQ	3.6	38	440	14	14	32	6.2 DNQ	740	6,400	47,000	54,000		24	
Plant 2 Max/Min*	0.49	9.5 DNQ	4.5	58	400	13	21	34	7.8 DNQ	780	6,100	48,000	53,000	7.6	24	57
Plant 2 Avg	0.46	8.6 DNQ	4.2	54	370	12	21	33	7.0 DNQ	720	5,700	46,000	52,000		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)**	27	27	27	26	26	25	Out of Service	25	25	27	28
Minimum Temperature (Min 95 °F)	99	100	100	100	100	100	Out of Service	100	100	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)**	21	Out of Service	Out of Service	21	Out of Service	21	21	Out of Service	Out of Service	20	21	21	20	Out of Service	Out of Service	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	98	99	99	99	Out of Service	Out of Service	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: August 1- 31, 2023

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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Environmental Services Director

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Christopher Myrter	Rachel Van Exel	Jackie Lerma	Tom Meregillano



Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: September 1- 30, 2023

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): 09/19/23

	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*	0.51	5.8 DNQ	3.5	38	370	9.7	13	28	5.8 DNQ	660	10,000	44,000	54,000	7.7	26	71
Plant 1 Avg	0.51	5.8 DNQ	3.5	38	370	9.7	13	28	5.8 DNQ	660	10,000	44,000	54,000		26	
Plant 2 Max/Min*	0.36	7.4 DNQ	2.7	45	310	11	17	30	6.3 DNQ	670	10,000	38,000	48,000	7.7	27	72
Plant 2 Avg	0.36	7.4 DNQ	2.7	45	310	11	17	30	6.3 DNQ	670	10,000	38,000	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)**	25	26	26	25	25	24	Out of Service	26	24	25	26
Minimum Temperature (Min 95 °F)	99	100	100	100	100	100	Out of Service	100	100	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)**	21	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	27	Out of Service	21	21
Minimum Temperature (Min 95 °F)	98	Out of Service	Out of Service	99	Out of Service	99	99	Out of Service	Out of Service	98	98	99	98	Out of Service	98	Out of Service	98	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,

Monitoring Period: September 1- 30, 2023

Certifications:

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Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: October 1- 31, 2023

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): 10/03/23,10/10/23

	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*	0.49	6.5 DNQ	3.8	49	450	13	16	45	7.8 DNQ	810	5,800	49,000	53,000	7.9	24	65
Plant 1 Avg	0.47	6.2 DNQ	3.7	49	450	13	16	40	6.4 DNQ	800	5,000	48,000	53,000		24	
Plant 2 Max/Min*	0.56	7.4 DNQ	2.9	59	410	13	21	45	8.9 DNQ	860	4,800	49,000	52,000	7.7	27	64
Plant 2 Avg	0.50	7.4 DNQ	2.9	55	390	13	20	43	6.7 DNQ	820	4,100	42,000	46,000		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)**	25	26	26	25	25	24	28	Out of Service	24	26	26
Minimum Temperature (Min 95 °F)	99	99	100	100	100	100	100	Out of Service	100	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	26	Out of Service	25	25
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	99	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.

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: October 1- 31, 2023

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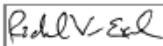
Arizona Class B: *I certify, under penalty of law, that the pollutant analyses and the description of pathogen treatment and vector attraction reduction activities have been made under my direction and supervision and under a system designed to ensure that qualified personnel properly gather and evaluate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



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Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: November 1- 30, 2023

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): 11/07/23,11/15/23 (Plant 1),11/07/23, 11/14/23 (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*	0.78	<5.9	4.1	51	420	13	15	45	7.8 DNQ	760	7,800	49,000	55,000	7.7	24	62
Plant 1 Avg	0.62	<5.9	2.4 DNQ	48	390	12	13	43	7.3 DNQ	690	7,100	47,000	54,000		24	
Plant 2 Max/Min*	0.77	7.1 DNQ	2.5	60	330	13	15	34	8.9 DNQ	680	7,300	43,000	49,000	7.8	26	60
Plant 2 Avg	0.59	6.3 DNQ	1.6 DNQ	57	300	12	14	33	7.5 DNQ	630	6,500	41,000	48,000		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	25	26
Minimum Temperature (Min 95 °F)	99	100	100	100	100	100	100	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)**	26	Out of Service	Out of Service	25	Out of Service	26	25	Out of Service	Out of Service	25	26	26	25	Out of Service	27	Out of Service	25	26
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	99	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

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Biosolids Monthly Compliance Report

Facility Name: Orange County Sanitation District Reclamation Plant #1, Fountain Valley, CA and Treatment Plant #2, Huntington Beach,
Monitoring Period: December 1- 31, 2023

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Sampling date(s): 12/05/23,12/12/23

	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*	0.52	6.8 DNQ	3.9	38	430	13	13	39	5.4 DNQ	740	6,800	46,000	52,000	7.7	25	65
Plant 1 Avg	0.48	6.7 DNQ	3.8	38	420	7.3 DNQ	13	36	5.1 DNQ	730	6,100	46,000	52,000		25	
Plant 2 Max/Min*	0.75	8.7 DNQ	2.2	49	290	11	14	31	5.7 DNQ	630	6,300	49,000	55,000	7.8	25	64
Plant 2 Avg	0.64	8.6 DNQ	2.2	48	290	6.3 DNQ	14	29	5.2 DNQ	620	5,300	47,000	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	25	25	25	25	23	25	Out of Service	Out of Service	25	25
Minimum Temperature (Min 95 °F)	99	99	100	100	100	100	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)**	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	98	99	97	97	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).

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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 2012/13-2022/23, in Milligrams per Dry Kilogram Orange County Sanitation District, Resource Protection Division								
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		
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		
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

Table 8.1 Trends in Trace Metal Content of Biosolids, Fiscal Years 2012/13-2022/23, in Milligrams per Dry Kilogram
Orange County Sanitation District, Resource Protection Division

Metal	FY	EQ Limit	Plant 1			Plant 2		
			Min	Max	Avg	Min	Max	Avg
	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
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		
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		
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		
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

Table 8.1 Trends in Trace Metal Content of Biosolids, Fiscal Years 2012/13-2022/23, in Milligrams per Dry Kilogram
Orange County Sanitation District, Resource Protection Division

Metal	FY	EQ Limit	Plant 1			Plant 2		
			Min	Max	Avg	Min	Max	Avg
	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
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		
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		
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
2022-23	2.3	3.5	2.9	1.2	2.5	1.8		
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		

Table 8.1 Trends in Trace Metal Content of Biosolids, Fiscal Years 2012/13-2022/23, in Milligrams per Dry Kilogram Orange County Sanitation District, Resource Protection Division									
Metal	FY	EQ Limit	Plant 1			Plant 2			
			Min	Max	Avg	Min	Max	Avg	
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).								

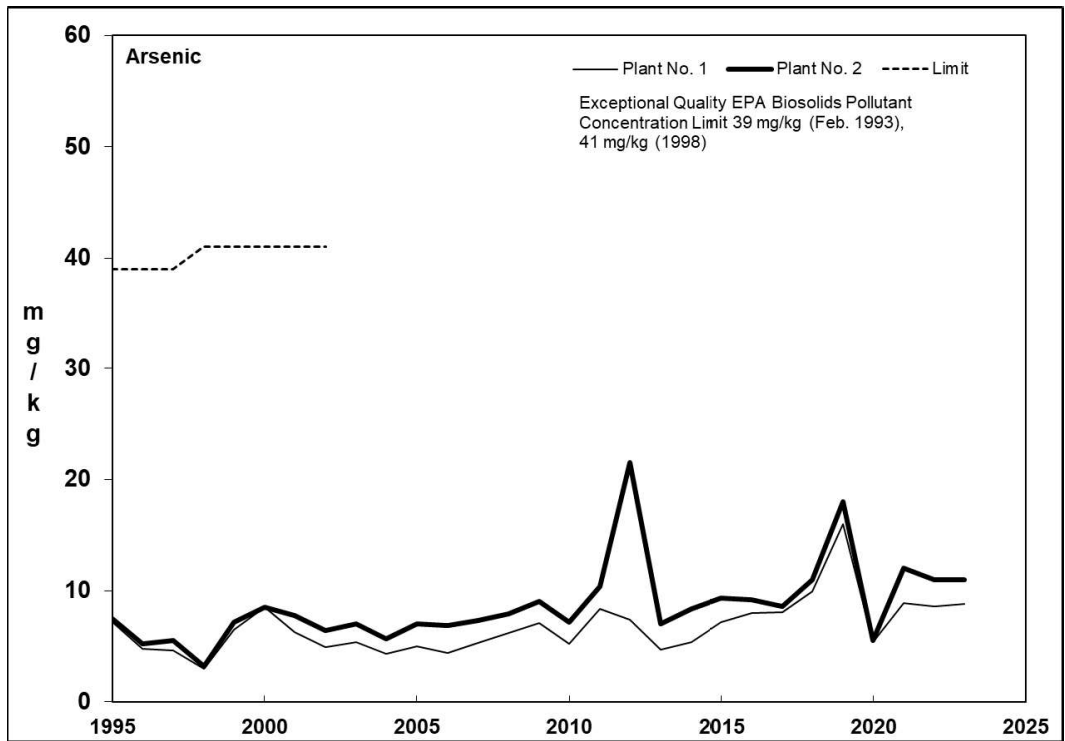


Figure 8-1 Trends in Concentrations of Arsenic in Biosolids, Fiscal Years 1994/95-2022/23
Orange County Sanitation District, Resource Protection Division

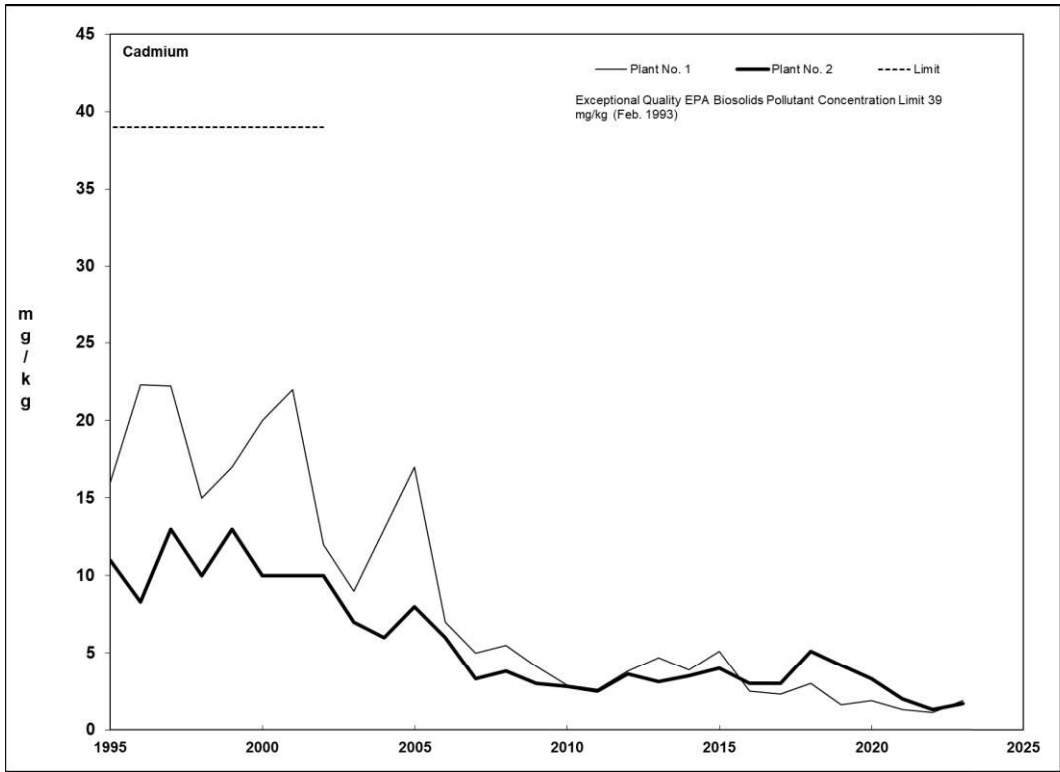


Figure 8-2 Trends in Concentrations of Cadmium in Biosolids, Fiscal Years 1994/95-2022/23
Orange County Sanitation District, Resource Protection Division

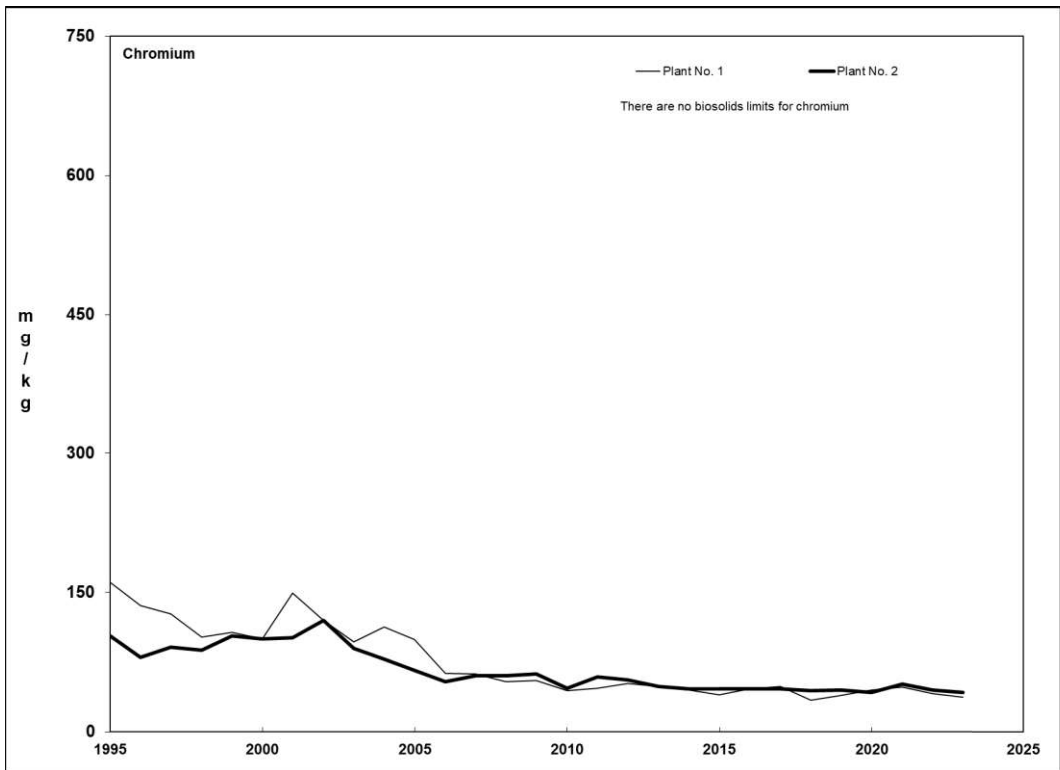


Figure 8-3 Trends in Concentrations of Chromium in Biosolids, Fiscal Years 1994/95-2022/23
Orange County Sanitation District, Resource Protection Division

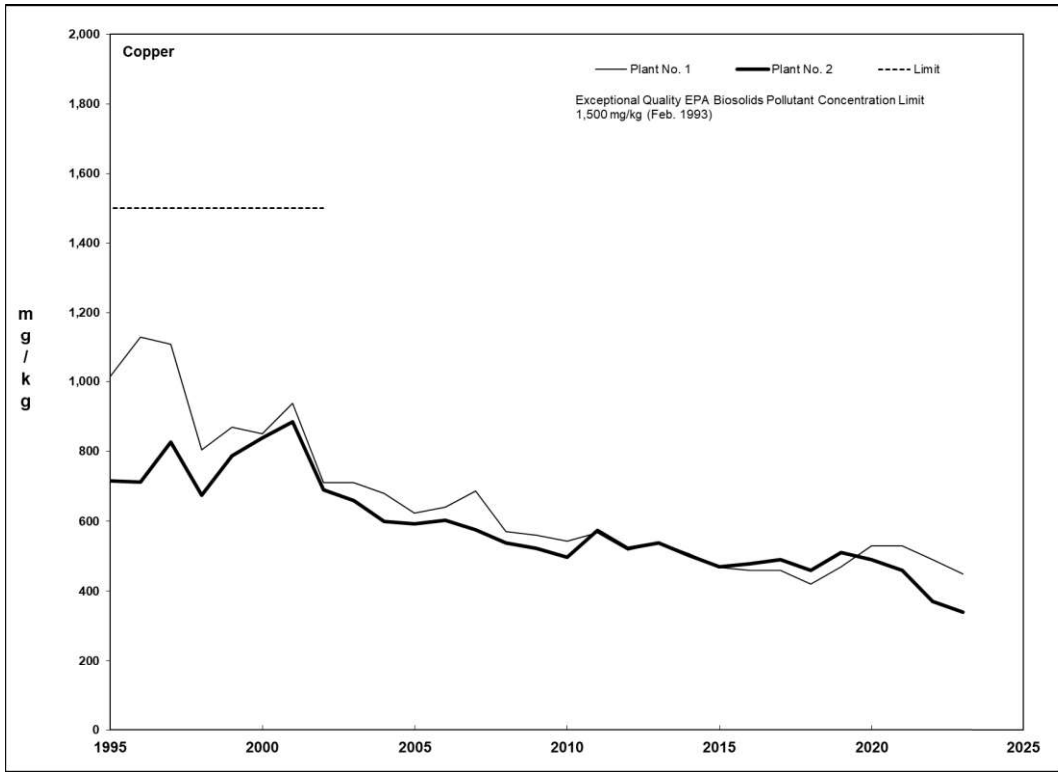


Figure 8-4 Trends in Concentrations of Copper in Biosolids, Fiscal Years 1994/95-2022/23
Orange County Sanitation District, Resource Protection Division

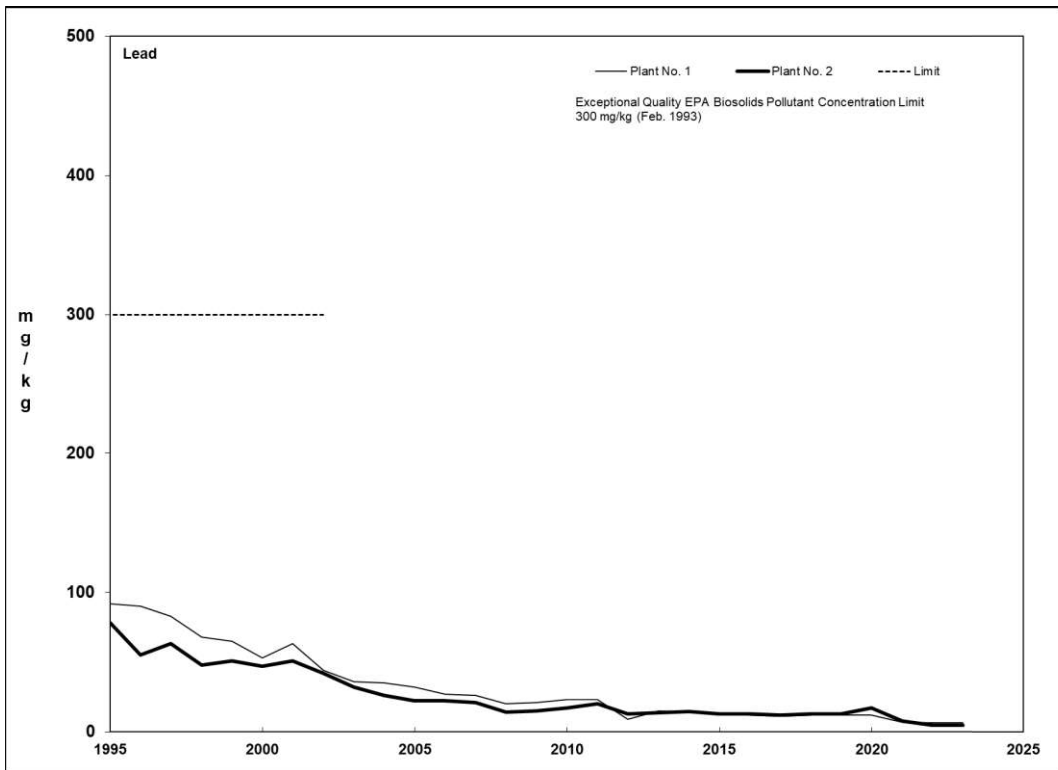


Figure 8-5 Trends in Concentrations of Lead in Biosolids, Fiscal Years 1994/95-2022/23
Orange County Sanitation District, Resource Protection Division

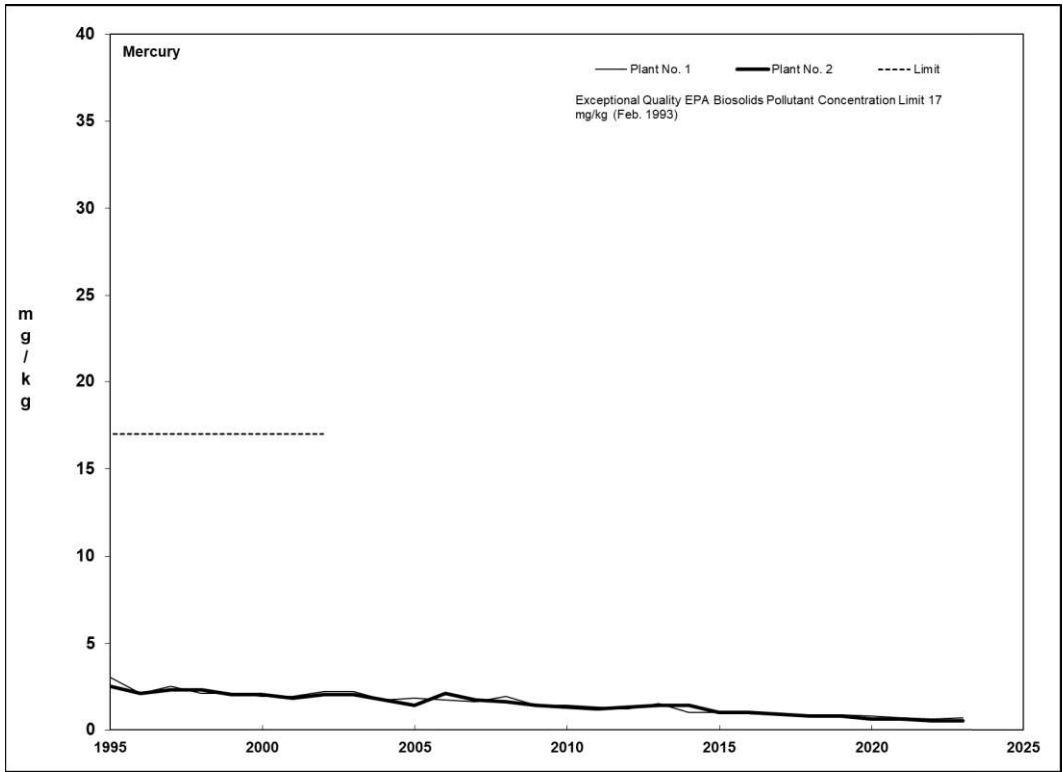


Figure 8-6 Trends in Concentrations of Mercury in Biosolids, Fiscal Years 1994/95-2022/23
Orange County Sanitation District, Resource Protection Division

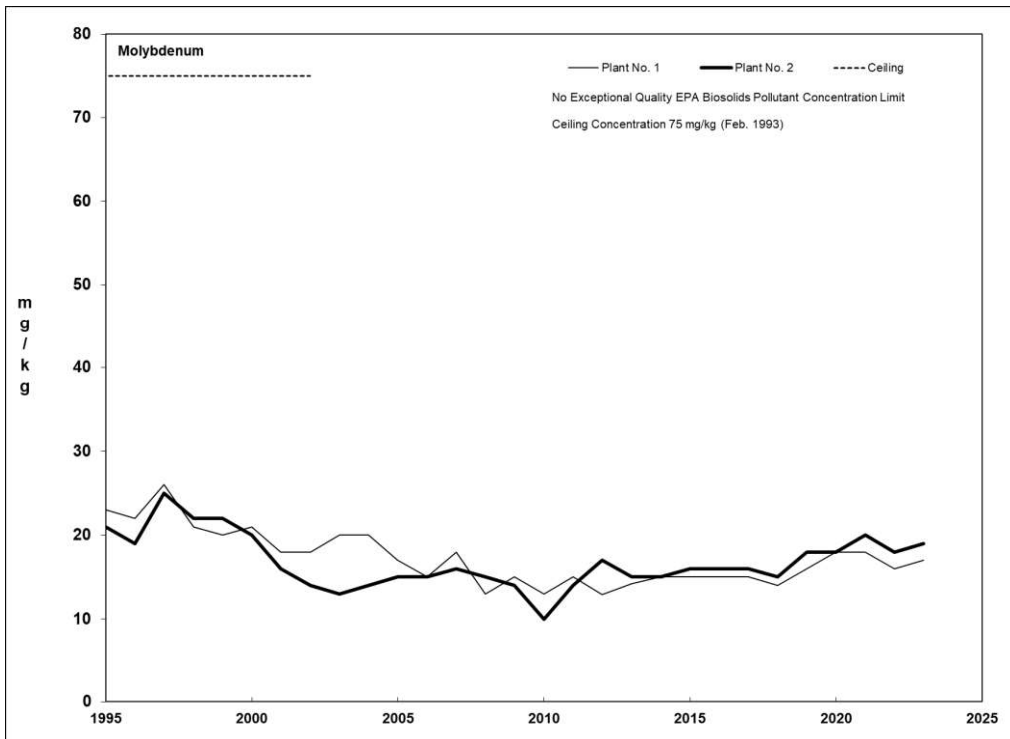


Figure 8-7 Trends in Concentrations of Molybdenum in Biosolids, Fiscal Years 1994/95-2022/23
Orange County Sanitation District, Resource Protection Division

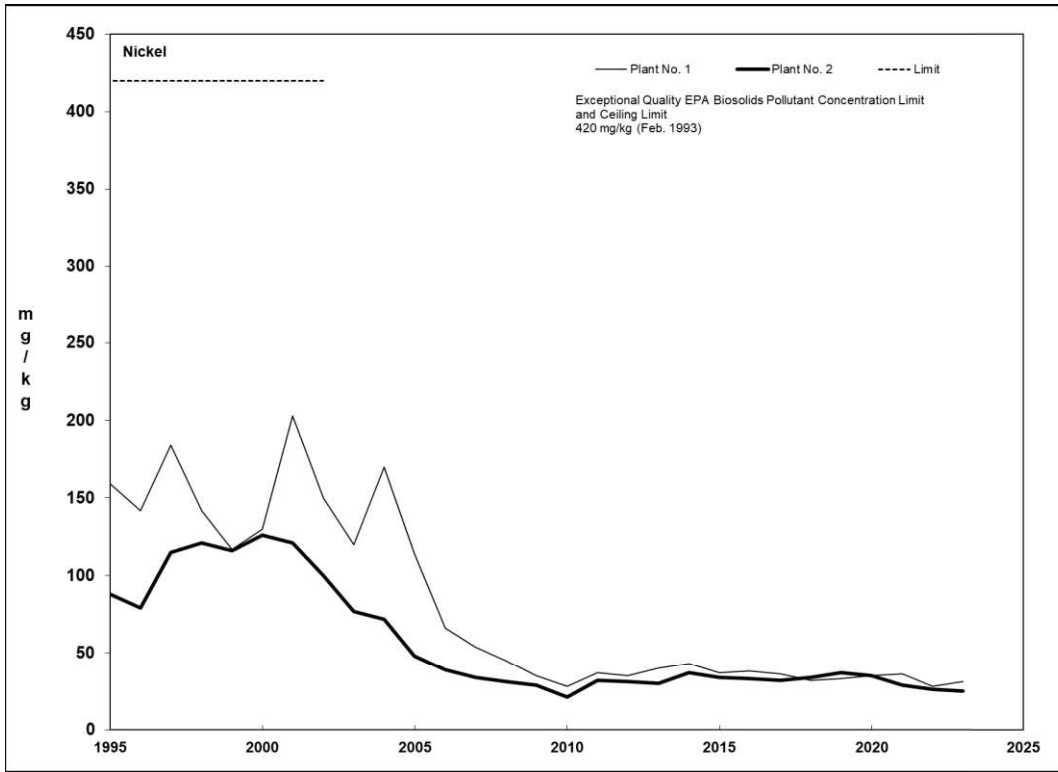


Figure 8-8 Trends in Concentrations of Nickel in Biosolids, Fiscal Years 1994/95-2022/23
Orange County Sanitation District, Resource Protection Division

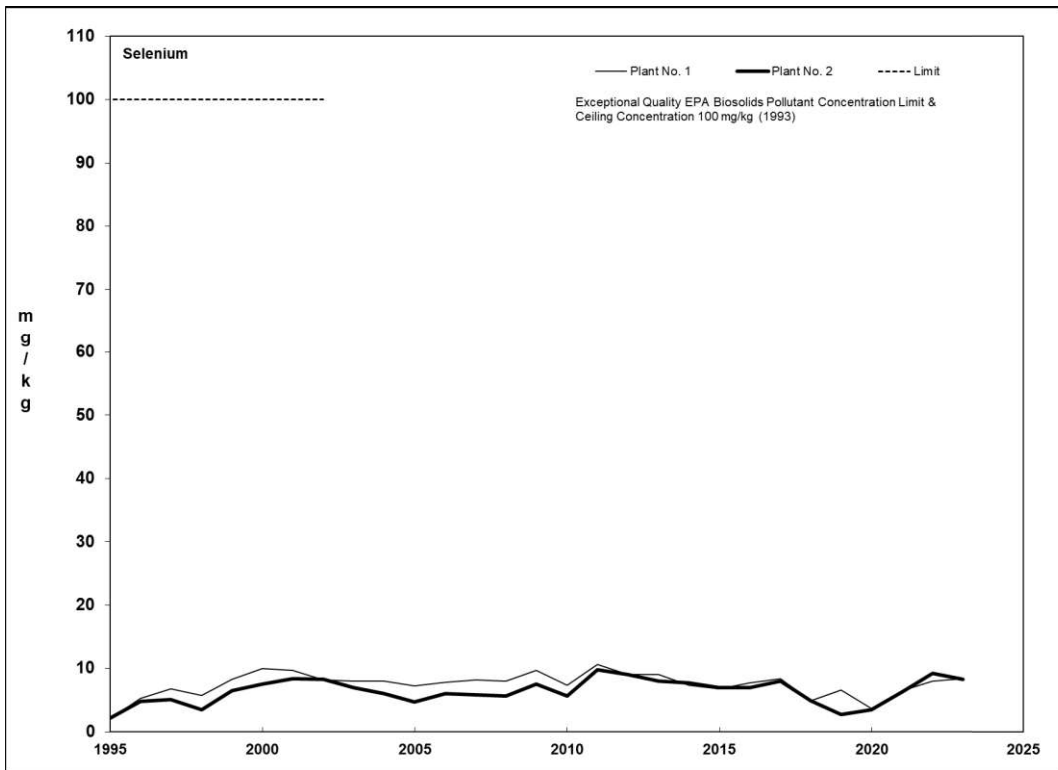


Figure 8-9 Trends in Concentrations of Selenium in Biosolids, Fiscal Years 1994/95-2022/23
Orange County Sanitation District, Resource Protection Division

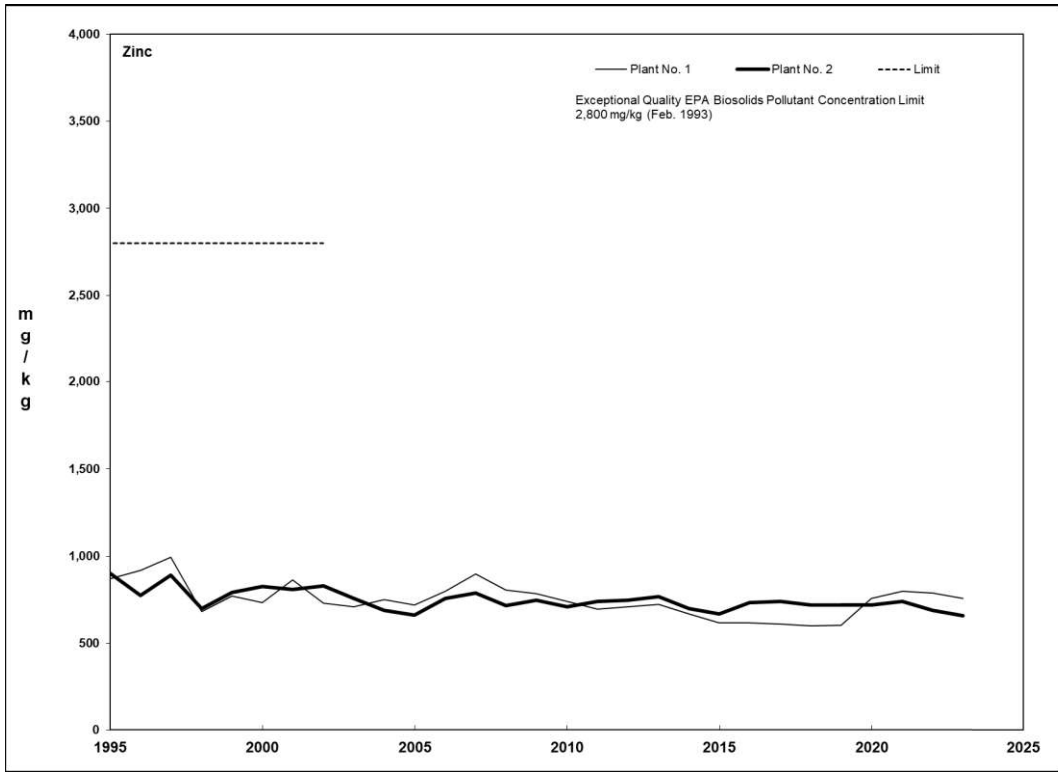


Figure 8-10 Trends in Concentrations of Zinc in Biosolids, Fiscal Years 1994/95-2022/23
Orange County Sanitation District, Resource Protection Division

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 D	mg/kg	Plant 1 Dewatering Cake	01/10/2023	1500	69	190		
					01/17/2023	1200	75	210		
					02/07/2023	1800	82	230		
					02/14/2023	2400	82	230		
					03/07/2023	2300	82	230		
					03/14/2023	2000	82	230		
					04/04/2023	1500	90	250		
					04/11/2023	1800	90	250		
					05/02/2023	1300	90	250		
					05/09/2023	1500	90	250		
					06/06/2023	3400	90	250		
					06/13/2023	2600	69	190		
					07/11/2023	1600	90	250		
					07/17/2023	1200	90	250		
					08/08/2023	1800	82	230		
					08/22/2023	1300	90	250		
					09/19/2023	2600	75	210		
					10/03/2023	1400	50	140		
					10/10/2023	1000	90	250		
					11/07/2023	1500	82	230		
					11/15/2023	1900	90	250		
					12/05/2023	1400	60	170		
					12/12/2023	1700	82	230		
					Annual Mean	1800				
					Annual Max	3400				
						mg/kg dry weight			Plant 1 Dewatering Cake	01/10/2023
		01/17/2023	5000	320	880					
		02/07/2023	7400	340	950					
		02/14/2023	9500	320	910					
		03/07/2023	9200	330	920					
		03/14/2023	8100	330	930					
		04/04/2023	5900	360	990					
		04/11/2023	7300	370	1000					
		05/02/2023	5400	370	1000					
		05/09/2023	6400	380	1100					
		06/06/2023	14000	380	1000					
		06/13/2023	11000	290	810					
		07/11/2023	6700	380	1000					
		07/17/2023	5100	380	1100					
		08/08/2023	7600	350	970					
		08/22/2023	5200	360	1000					
		09/19/2023	10000	290	820					
		10/03/2023	5800	210	580					
		10/10/2023	4100	370	1000					
		11/07/2023	6300	350	970					
		11/15/2023	7800	370	1000					
		12/05/2023	5400	230	660					
		12/12/2023	6800	330	920					
		Annual Mean	7200							
		Annual Max	14000							
			mg/kg	SM 4500 NH3 D						Plant 2 Dewatering Cake
		01/17/2023				2300	82	230		
02/07/2023	1600	90				250				
02/14/2023	2800	90				250				
03/07/2023	1100	82				230				
03/14/2023	2200	90				250				
04/04/2023	1400	90				250				
04/11/2023	860	90				250				
05/02/2023	1200	90				250				
05/09/2023	850	90				250				
06/06/2023	2000	90				250				
06/13/2023	1200	60				170				
07/11/2023	1500	90				250				
07/18/2023	1000	90				250				
08/08/2023	1600	75				210				
08/22/2023	1300	90				250				
09/19/2023	2800	69				190				
10/03/2023	900	45				130				
10/10/2023	1300	69				190				
11/07/2023	1500	82				230				
11/14/2023	1900	90				250				
12/05/2023	1100	60				170				
12/12/2023	1600	64				180				
Annual Mean	1500									
Annual Max	2800									
	mg/kg dry weight						Plant 2 Dewatering Cake	01/10/2023	4900	
01/17/2023			8500	300	850					
02/07/2023			5900	330	920					
02/14/2023			10000	320	900					
03/07/2023			3800	290	800					

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
					03/14/2023	8300	340	940	
					04/04/2023	5100	330	910	
					04/11/2023	3100	330	910	
					05/02/2023	4600	340	950	
					05/09/2023	3400	360	1000	
					06/06/2023	7400	330	930	
					06/13/2023	4400	220	630	
					07/11/2023	5400	320	890	
					07/18/2023	3800	340	940	
					08/08/2023	6100	290	800	
					08/22/2023	5300	370	1000	
					09/19/2023	10000	260	710	
					10/03/2023	3300	170	480	
					10/10/2023	4800	250	700	
					11/07/2023	5600	310	860	
					11/14/2023	7300	350	970	
					12/05/2023	4200	230	650	
					12/12/2023	6300	250	710	
					Annual Mean	5700			
					Annual Max	10000			
Fluoride	EPA 9056A	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	11	1.2	3.8		
				07/11/2023	ND	1.3	4.2		
				Annual Mean	6.1 DNQ				
				Annual Max	11				
				01/10/2023	7.9	1.2	3.7		
EPA 9056A	mg/kg dry weight	Plant 2 Dewatering Cake	07/11/2023	ND	1.1	3.6			
			Annual Mean	4.5 DNQ					
			Annual Max	7.9					
			01/10/2023	2.1	0.31	1.0			
			07/11/2023	ND	0.31	1.0			
Fluoride wet weight	EPA 9056A	mg/kg	Plant 1 Dewatering Cake	01/10/2023	3.0	0.31	1.0		
				07/11/2023	ND	0.31	1.0		
				Annual Mean	1.7 DNQ				
				Annual Max	3.0				
				01/10/2023	2.1	0.31	1.0		
EPA 9056A	mg/kg	Plant 2 Dewatering Cake	07/11/2023	ND	0.31	1.0			
			Annual Mean	1.2 DNQ					
			Annual Max	2.1					
			01/10/2023	ND	1.1	3.0			
			07/11/2023	ND	12	33			
Hexavalent Chromium	EPA 7196A	mg/kg dry weight	Plant 1 Dewatering Cake	Annual Mean	<12				
				Annual Max	<12				
				01/10/2023	ND	1.0	2.9		
				07/11/2023	ND	10	28		
				Annual Mean	<10				
EPA 7196A	mg/kg dry weight	Plant 2 Dewatering Cake	Annual Max	<10					
			01/10/2023	ND	0.29	0.79			
			07/11/2023	ND	2.9	7.9			
			Annual Mean	<2.9					
			Annual Max	<2.9					
Hexavalent Chromium wet weight	EPA 7196A	mg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	0.28	0.78		
				07/11/2023	ND	2.8	7.8		
				Annual Mean	<2.8				
				Annual Max	<2.8				
				01/10/2023	ND	0.28	0.78		
EPA 7196A	mg/kg	Plant 2 Dewatering Cake	07/11/2023	ND	2.8	7.8			
			Annual Mean	<2.8					
			Annual Max	<2.8					
			01/10/2023	14000	900	1800			
			01/17/2023	15000	880	1800			
Kjeldahl Nitrogen	EPA 351.2	mg/kg	Plant 1 Dewatering Cake	02/07/2023	14000	1000	2100		
				02/14/2023	14000	950	1900		
				03/07/2023	16000	790	1600		
				03/14/2023	13000	800	1600		
				04/04/2023	16000	570	1100		
				04/11/2023	14000	630	1300		
				05/02/2023	15000	630	1300		
				05/09/2023	18000	570	1100		
				06/06/2023	12000	850	1700		
				06/13/2023	10000	760	1500		
				07/11/2023	13000	430	850		
				07/17/2023	14000	790	1600		
				08/08/2023	13000	1200	2300		
				08/22/2023	13000	850	1700		
				09/19/2023	14000	910	1800		
				10/03/2023	13000	850	1700		
				10/10/2023	13000	1000	2000		
				11/07/2023	13000	810	1600		
				11/15/2023	13000	590	1200		
				12/05/2023	13000	900	1800		
				12/12/2023	13000	1000	2100		
				Annual Mean	14000				
				Annual Max	18000				
				mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	53000	3400	6900
						01/17/2023	63000	3700	7600
02/07/2023	58000	4100	8700						

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					02/14/2023	55000	3800	7500
					03/07/2023	64000	3200	6400
					03/14/2023	53000	3300	6500
					04/04/2023	63000	2300	4300
					04/11/2023	57000	2600	5300
					05/02/2023	62000	2600	5400
					05/09/2023	76000	2400	4700
					06/06/2023	50000	3600	7100
					06/13/2023	43000	3200	6400
					07/11/2023	54000	1800	3500
					07/17/2023	59000	3300	6800
					08/08/2023	55000	5100	9700
					08/22/2023	52000	3400	6800
					09/19/2023	54000	3500	7000
					10/03/2023	53000	3500	7000
					10/10/2023	53000	4100	8100
					11/07/2023	55000	3400	6800
					11/15/2023	53000	2400	4900
					12/05/2023	51000	3500	7000
					12/12/2023	52000	4000	8400
				Annual Mean	56000			
				Annual Max	76000			
		EPA 351.2	mg/kg	Plant 2 Dewatering Cake	01/10/2023	14000	780	1600
					01/17/2023	14000	700	1400
					02/07/2023	15000	1100	2200
					02/14/2023	14000	1100	2200
					03/07/2023	14000	830	1700
					03/14/2023	13000	970	1900
					04/04/2023	11000	570	1100
					04/11/2023	14000	630	1300
					05/02/2023	13000	570	1100
					05/09/2023	16000	570	1100
					06/06/2023	14000	890	1800
					06/13/2023	13000	910	1800
					07/11/2023	15000	470	930
					07/18/2023	15000	830	1700
					08/08/2023	13000	890	1800
					08/22/2023	13000	810	1600
					09/19/2023	13000	940	1900
					10/03/2023	14000	910	1800
					10/10/2023	11000	830	1700
					11/07/2023	13000	830	1700
11/14/2023	12000	720	1400					
12/05/2023	13000	820	1600					
12/12/2023	14000	1000	2100					
				Annual Mean	14000			
				Annual Max	16000			
			mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	52000	2900	6000
					01/17/2023	52000	2600	5200
					02/07/2023	55000	4000	8100
					02/14/2023	50000	4000	7900
					03/07/2023	49000	2900	5900
					03/14/2023	49000	3700	7200
					04/04/2023	40000	2100	4000
					04/11/2023	51000	2300	4700
					05/02/2023	49000	2200	4200
					05/09/2023	64000	2300	4400
					06/06/2023	52000	3300	6700
					06/13/2023	48000	3400	6700
					07/11/2023	54000	1700	3300
					07/18/2023	57000	3100	6400
					08/08/2023	50000	3400	6900
					08/22/2023	53000	3300	6600
					09/19/2023	48000	3500	7100
					10/03/2023	52000	3400	6700
					10/10/2023	40000	3000	6200
					11/07/2023	49000	3100	6400
11/14/2023	46000	2800	5400					
12/05/2023	49000	3100	6100					
12/12/2023	55000	3900	8300					
				Annual Mean	51000			
				Annual Max	64000			
	Nitrate-N	EPA 9056A	mg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	0.24	1.0
					01/17/2023	ND	0.24	1.0
					02/07/2023	ND	0.49	2.0
					02/14/2023	ND	0.25	1.0
					03/07/2023	ND	0.24	1.0
					03/14/2023	ND	0.48	2.0
					04/04/2023	ND	0.24	0.99
					04/11/2023	ND	0.48	2.0

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL				
					05/02/2023	ND	0.24	1.0				
					05/09/2023	ND	0.25	1.0				
					06/06/2023	0.34 DNQ	0.25	1.0				
					06/13/2023	0.28 DNQ	0.25	1.0				
					07/11/2023	ND	0.24	1.0				
					07/17/2023	ND	0.49	2.0				
					08/08/2023	ND	0.24	1.0				
					08/22/2023	ND	0.49	2.0				
					09/19/2023	ND	0.24	1.0				
					10/03/2023	0.43 DNQ	0.24	1.0				
					10/10/2023	ND	0.24	0.99				
					11/07/2023	ND	0.25	1.0				
					11/15/2023	ND	2.4	10				
					12/05/2023	ND	1.2	5.0				
					12/12/2023	ND	0.24	1.0				
					Annual Mean	0.44 DNQ						
					Annual Max	0.43 DNQ						
					mg/kg dry weight	Plant 1 Dewatering Cake			01/10/2023	ND	0.92	3.8
					01/17/2023				ND	1.0	4.2	
					02/07/2023				ND	2.0	8.3	
					02/14/2023				ND	0.99	4.0	
					03/07/2023				ND	0.96	4.0	
					03/14/2023				ND	2.0	8.1	
			04/04/2023	ND	0.95				3.9			
			04/11/2023	ND	2.0				8.2			
			05/02/2023	ND	0.99				4.1			
			05/09/2023	ND	1.1				4.2			
			06/06/2023	1.4 DNQ	1.0				4.2			
			06/13/2023	1.2 DNQ	1.1				4.3			
			07/11/2023	ND	1.0				4.2			
			07/17/2023	ND	2.1				8.4			
			08/08/2023	ND	1.0				4.2			
			08/22/2023	ND	2.0				8.0			
			09/19/2023	ND	0.93				3.9			
			10/03/2023	1.8 DNQ	0.99				4.1			
			10/10/2023	ND	0.98				4.0			
			11/07/2023	ND	1.1				4.2			
			11/15/2023	ND	9.8				41			
			12/05/2023	ND	4.7				19			
			12/12/2023	ND	0.96				4.0			
			Annual Mean	1.8 DNQ								
			Annual Max	1.8 DNQ								
			EPA 9056A	mg/kg			Plant 2 Dewatering Cake	01/10/2023	ND	0.24	1.0	
			01/17/2023					ND	0.24	0.99		
			02/07/2023					ND	0.49	2.0		
			02/14/2023					ND	1.2	5.0		
			03/07/2023					ND	0.24	1.0		
03/14/2023	0.60 DNQ	0.49	2.0									
04/04/2023	ND	0.24	0.99									
04/11/2023	ND	0.48	2.0									
05/02/2023	ND	0.24	0.99									
05/09/2023	ND	0.24	0.99									
06/06/2023	ND	0.24	1.0									
06/13/2023	ND	0.25	1.0									
07/11/2023	0.27 DNQ	0.24	1.0									
07/18/2023	ND	0.49	2.0									
08/08/2023	ND	0.24	0.99									
08/22/2023	0.54 DNQ	0.49	2.0									
09/19/2023	ND	0.25	1.0									
10/03/2023	0.30 DNQ	0.25	1.0									
10/10/2023	ND	0.24	1.0									
11/07/2023	ND	0.24	0.99									
11/14/2023	ND	2.5	10									
12/05/2023	ND	1.2	5.0									
12/12/2023	ND	0.24	1.0									
Annual Mean	0.49 DNQ											
Annual Max	0.60 DNQ											
mg/kg dry weight	Plant 2 Dewatering Cake			01/10/2023	ND	0.90	3.7					
01/17/2023				ND	0.89	3.7						
02/07/2023				ND	1.8	7.3						
02/14/2023				ND	4.3	18						
03/07/2023				ND	0.84	3.5						
03/14/2023				2.3 DNQ	1.8	7.5						
04/04/2023				ND	0.88	3.6						
04/11/2023				ND	1.7	7.3						
05/02/2023				ND	0.91	3.8						
05/09/2023				ND	0.96	4.0						
06/06/2023				ND	0.89	3.7						
06/13/2023				ND	0.93	3.7						
07/11/2023				0.96 DNQ	0.86	3.6						

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Nitrite-N	EPA 9056A	mg/kg	Plant 1 Dewatering Cake	07/18/2023	ND	1.8	7.5
					08/08/2023	ND	0.92	3.8
					08/22/2023	2.2 DNQ	2.0	8.2
					09/19/2023	ND	0.93	3.7
					10/03/2023	1.1 DNQ	0.93	3.7
					10/10/2023	ND	0.88	3.7
					11/07/2023	ND	0.90	3.7
					11/14/2023	ND	9.7	39
					12/05/2023	ND	4.6	19
					12/12/2023	ND	0.94	3.9
					Annual Mean	1.8 DNQ		
					Annual Max	2.3 DNQ		
					01/10/2023	ND	0.18	1.0
					01/17/2023	6.8	0.18	1.0
					02/07/2023	ND	0.37	2.0
					02/14/2023	ND	0.18	1.0
					03/07/2023	ND	0.18	1.0
					03/14/2023	ND	0.36	2.0
					04/04/2023	ND	0.18	0.99
					04/11/2023	5.2	0.36	2.0
			05/02/2023	2.7	0.18	1.0		
			05/09/2023	ND	0.18	1.0		
			06/06/2023	ND	0.18	1.0		
			06/13/2023	2.1	0.18	1.0		
			07/11/2023	ND	0.18	1.0		
			07/17/2023	0.53 DNQ	0.36	2.0		
			08/08/2023	ND	0.18	1.0		
			08/22/2023	ND	0.37	2.0		
			09/19/2023	ND	0.18	1.0		
			10/03/2023	ND	0.18	1.0		
			10/10/2023	ND	0.18	0.99		
			11/07/2023	ND	0.18	1.0		
			11/15/2023	ND	1.8	10		
			12/05/2023	ND	0.90	5.0		
			12/12/2023	ND	0.18	1.0		
			Annual Mean	1.0 DNQ				
			Annual Max	6.8				
			01/10/2023	ND	0.69	3.8		
			01/17/2023	29	0.76	4.2		
			02/07/2023	ND	1.5	8.3		
			02/14/2023	ND	0.71	4.0		
			03/07/2023	ND	0.72	4.0		
			03/14/2023	ND	1.5	8.1		
			04/04/2023	ND	0.71	3.9		
			04/11/2023	21	1.5	8.2		
			05/02/2023	11	0.74	4.1		
			05/09/2023	ND	0.76	4.2		
06/06/2023	ND	0.75	4.2					
06/13/2023	8.9	0.77	4.3					
07/11/2023	ND	0.75	4.2					
07/17/2023	2.2 DNQ	1.5	8.4					
08/08/2023	ND	0.76	4.2					
08/22/2023	ND	1.5	8.0					
09/19/2023	ND	0.70	3.9					
10/03/2023	ND	0.74	4.1					
10/10/2023	ND	0.73	4.0					
11/07/2023	ND	0.76	4.2					
11/15/2023	ND	7.3	40					
12/05/2023	ND	4.0	19					
12/12/2023	ND	0.72	4.0					
Annual Mean	4.2 DNQ							
Annual Max	29							
01/10/2023	5.3	0.18	1.0					
01/17/2023	4.5	0.18	0.99					
02/07/2023	ND	0.37	2.0					
02/14/2023	ND	0.91	5.0					
03/07/2023	ND	0.18	1.0					
03/14/2023	ND	0.36	2.0					
04/04/2023	ND	0.18	0.99					
04/11/2023	ND	0.36	2.0					
05/02/2023	5.1	0.18	0.99					
05/09/2023	ND	0.18	0.99					
06/06/2023	ND	0.18	1.0					
06/13/2023	4.9	0.18	1.0					
07/11/2023	ND	0.18	1.0					
07/18/2023	ND	0.36	2.0					
08/08/2023	ND	0.18	0.99					
08/22/2023	ND	0.36	2.0					
09/19/2023	ND	0.18	1.0					
10/03/2023	ND	0.18	1.0					

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	10/10/2023	ND	0.18	1.0		
					11/07/2023	ND	0.18	0.99		
					11/14/2023	ND	1.8	10		
					12/05/2023	ND	0.90	5.0		
					12/12/2023	ND	0.18	1.0		
					Annual Mean	1.2 DNQ				
					Annual Max	5.3				
					01/10/2023	20	0.67	3.7		
					01/17/2023	17	0.67	3.7		
					02/07/2023	ND	1.4	7.3		
					02/14/2023	ND	3.3	18		
					03/07/2023	ND	0.63	3.5		
					03/14/2023	ND	1.4	7.5		
					04/04/2023	ND	0.66	3.6		
				04/11/2023	ND	1.3	7.3			
				05/02/2023	19	0.68	3.8			
				05/09/2023	ND	0.72	4.0			
				06/06/2023	ND	0.67	3.7			
				06/13/2023	18	0.67	3.7			
				07/11/2023	ND	0.64	3.6			
				07/18/2023	ND	1.4	7.5			
				08/08/2023	ND	0.69	3.8			
				08/22/2023	ND	1.5	8.2			
				09/19/2023	ND	0.67	3.7			
				10/03/2023	ND	0.67	3.7			
				10/10/2023	ND	0.66	3.7			
				11/07/2023	ND	0.68	3.7			
				11/14/2023	ND	6.9	40			
				12/05/2023	ND	3.0	19			
				12/12/2023	ND	0.71	3.9			
				Annual Mean	4.4 DNQ					
				Annual Max	20					
Organic Lead	EPA 8270C	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	ND	0.061	0.076			
				07/11/2023	ND	0.079	0.083			
				Annual Mean	<0.079					
	Annual Max	<0.079								
	EPA 8270C	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	ND	0.060	0.075			
				07/11/2023	ND	0.068	0.071			
Annual Mean				<0.068						
Annual Max	<0.068									
Organic Lead wet weight	EPA 8270C	mg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	0.016	0.020			
				07/11/2023	ND	0.019	0.020			
				Annual Mean	<0.019					
	Annual Max	<0.019								
	EPA 8270C	mg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	0.016	0.020			
				07/11/2023	ND	0.019	0.020			
Annual Mean				<0.019						
Annual Max	<0.019									
Organic Nitrogen	CALC	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	47000	--	--			
				01/17/2023	58000	--	--			
				02/07/2023	51000	--	--			
				02/14/2023	46000	--	--			
				03/07/2023	55000	--	--			
				03/14/2023	45000	--	--			
				04/04/2023	57000	--	--			
				04/11/2023	50000	--	--			
				05/02/2023	57000	--	--			
				05/09/2023	70000	--	--			
				06/06/2023	36000	--	--			
				06/13/2023	32000	--	--			
				07/11/2023	47000	--	--			
				07/17/2023	54000	--	--			
				08/08/2023	47000	--	--			
				08/22/2023	47000	--	--			
				09/19/2023	44000	--	--			
				10/03/2023	47000	--	--			
				10/10/2023	49000	--	--			
				11/07/2023	49000	--	--			
				11/15/2023	45000	--	--			
				12/05/2023	46000	--	--			
				12/12/2023	45000	--	--			
				Annual Mean	49000					
				Annual Max	70000					
				CALC	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	47000	--	--
							01/17/2023	44000	--	--
							02/07/2023	49000	--	--
			02/14/2023				40000	--	--	
			03/07/2023				45000	--	--	
			03/14/2023				41000	--	--	
			04/04/2023	35000	--	--				

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL				
					04/11/2023	48000	--	--				
					05/02/2023	44000	--	--				
					05/09/2023	61000	--	--				
					06/06/2023	45000	--	--				
					06/13/2023	44000	--	--				
					07/11/2023	49000	--	--				
					07/18/2023	53000	--	--				
					08/08/2023	44000	--	--				
					08/22/2023	48000	--	--				
					09/19/2023	38000	--	--				
					10/03/2023	49000	--	--				
					10/10/2023	35000	--	--				
					11/07/2023	43000	--	--				
					11/14/2023	39000	--	--				
					12/05/2023	45000	--	--				
					12/12/2023	49000	--	--				
					Annual Mean	45000						
					Annual Max	61000						
					Organic Nitrogen wet weight	CALC	mg/kg	Plant 1 Dewatering Cake	01/10/2023	13000	--	--
									01/17/2023	14000	--	--
									02/07/2023	12000	--	--
									02/14/2023	12000	--	--
									03/07/2023	14000	--	--
									03/14/2023	11000	--	--
									04/04/2023	15000	--	--
04/11/2023	12000	--	--									
05/02/2023	14000	--	--									
05/09/2023	17000	--	--									
06/06/2023	8600	--	--									
06/13/2023	7400	--	--									
07/11/2023	11000	--	--									
07/17/2023	13000	--	--									
08/08/2023	11000	--	--									
08/22/2023	12000	--	--									
09/19/2023	11000	--	--									
10/03/2023	12000	--	--									
10/10/2023	12000	--	--									
11/07/2023	12000	--	--									
11/15/2023	11000	--	--									
12/05/2023	12000	--	--									
12/12/2023	11000	--	--									
Annual Mean	12000											
Annual Max	17000											
	CALC	mg/kg	Plant 2 Dewatering Cake	01/10/2023	13000	--	--					
				01/17/2023	12000	--	--					
				02/07/2023	13000	--	--					
				02/14/2023	11000	--	--					
				03/07/2023	13000	--	--					
				03/14/2023	11000	--	--					
				04/04/2023	9600	--	--					
				04/11/2023	13000	--	--					
				05/02/2023	12000	--	--					
				05/09/2023	15000	--	--					
				06/06/2023	12000	--	--					
				06/13/2023	12000	--	--					
				07/11/2023	14000	--	--					
				07/18/2023	14000	--	--					
				08/08/2023	11000	--	--					
				08/22/2023	12000	--	--					
				09/19/2023	10000	--	--					
				10/03/2023	13000	--	--					
				10/10/2023	9700	--	--					
				11/07/2023	12000	--	--					
				11/14/2023	10000	--	--					
				12/05/2023	12000	--	--					
				12/12/2023	12000	--	--					
				Annual Mean	12000							
				Annual Max	15000							
pH	EPA 9045D	pH units	Plant 1 Dewatering Cake	01/10/2023	7.0	0.010	0.01					
				01/17/2023	7.7	0.010	0.01					
				02/07/2023	8.4	0.010	0.01					
				02/14/2023	8.1	0.010	0.01					
				03/07/2023	7.6	0.010	0.01					
				03/14/2023	8.2	0.010	0.01					
				04/04/2023	7.9	0.010	0.01					
				04/11/2023	7.7	0.010	0.01					
				05/02/2023	8.1	0.010	0.01					
				05/09/2023	7.2	0.010	0.01					
				06/06/2023	7.4	0.010	0.01					
				06/13/2023	7.9	0.010	0.01					

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL				
					07/11/2023	8.1	0.010	0.01				
					07/17/2023	7.9	0.010	0.01				
					08/08/2023	7.5	0.010	0.01				
					08/22/2023	8.0	0.010	0.01				
					09/19/2023	7.7	0.010	0.01				
					10/03/2023	8.1	0.010	0.01				
					10/10/2023	7.9	0.010	0.01				
					11/07/2023	7.7	0.010	0.01				
					11/15/2023	7.9	0.010	0.01				
					12/05/2023	7.9	0.010	0.01				
					12/12/2023	7.7	0.010	0.01				
					Annual Mean	7.8						
					Annual Max	8.4						
					EPA 9045D	pH units	Plant 2 Dewatering Cake		01/10/2023	6.9	0.010	0.01
					01/17/2023	7.7			0.010	0.01		
					02/07/2023	8.2			0.010	0.01		
					02/14/2023	8.1			0.010	0.01		
					03/07/2023	7.5			0.010	0.01		
					03/14/2023	7.9			0.010	0.01		
					04/04/2023	7.6			0.010	0.01		
					04/11/2023	7.7			0.010	0.01		
					05/02/2023	7.7			0.010	0.01		
					05/09/2023	7.3			0.010	0.01		
					06/06/2023	7.1			0.010	0.01		
					06/13/2023	7.5			0.010	0.01		
07/11/2023	7.8	0.010	0.01									
07/18/2023	7.4	0.010	0.01									
08/08/2023	7.6	0.010	0.01									
08/22/2023	7.9	0.010	0.01									
09/19/2023	7.7	0.010	0.01									
10/03/2023	7.7	0.010	0.01									
10/10/2023	8.0	0.010	0.01									
11/07/2023	7.8	0.010	0.01									
11/14/2023	8.0	0.010	0.01									
12/05/2023	7.9	0.010	0.01									
12/12/2023	7.8	0.010	0.01									
Annual Mean	7.7											
Annual Max	8.2											
Total Nitrogen	CALC	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	53000	--	--					
				01/17/2023	63000	--	--					
				02/07/2023	58000	--	--					
				02/14/2023	55000	--	--					
				03/07/2023	64000	--	--					
				03/14/2023	53000	--	--					
				04/04/2023	63000	--	--					
				04/11/2023	57000	--	--					
				05/02/2023	62000	--	--					
				05/09/2023	76000	--	--					
				06/06/2023	50000	--	--					
				06/13/2023	43000	--	--					
				07/11/2023	54000	--	--					
				07/17/2023	59000	--	--					
				08/08/2023	55000	--	--					
				08/22/2023	52000	--	--					
				09/19/2023	54000	--	--					
				10/03/2023	53000	--	--					
				10/10/2023	53000	--	--					
				11/07/2023	55000	--	--					
				11/15/2023	53000	--	--					
				12/05/2023	51000	--	--					
				12/12/2023	52000	--	--					
				Annual Mean	56000							
				Annual Max	76000							
			CALC	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	52000	--	--			
			01/17/2023	52000		--	--					
			02/07/2023	55000		--	--					
			02/14/2023	50000		--	--					
			03/07/2023	49000		--	--					
			03/14/2023	49000		--	--					
			04/04/2023	40000		--	--					
			04/11/2023	51000		--	--					
			05/02/2023	49000		--	--					
			05/09/2023	64000		--	--					
06/06/2023	52000	--	--									
06/13/2023	48000	--	--									
07/11/2023	54000	--	--									
07/18/2023	57000	--	--									
08/08/2023	50000	--	--									
08/22/2023	53000	--	--									
09/19/2023	48000	--	--									

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
Total Nitrogen wet weight	CALC		mg/kg	Plant 1 Dewatering Cake	10/03/2023	52000	--	--
					10/10/2023	40000	--	--
					11/07/2023	49000	--	--
					11/14/2023	46000	--	--
					12/05/2023	49000	--	--
					12/12/2023	55000	--	--
					Annual Mean	51000		
					Annual Max	64000		
					01/10/2023	14000	--	--
					01/17/2023	15000	--	--
					02/07/2023	14000	--	--
					02/14/2023	14000	--	--
					03/07/2023	16000	--	--
					03/14/2023	13000	--	--
	04/04/2023	16000	--	--				
	04/11/2023	14000	--	--				
	05/02/2023	15000	--	--				
	05/09/2023	18000	--	--				
	06/06/2023	12000	--	--				
	06/13/2023	10000	--	--				
	07/11/2023	13000	--	--				
	07/17/2023	14000	--	--				
	08/08/2023	13000	--	--				
	08/22/2023	13000	--	--				
	09/19/2023	14000	--	--				
	10/03/2023	13000	--	--				
	10/10/2023	13000	--	--				
	11/07/2023	13000	--	--				
	11/15/2023	13000	--	--				
	12/05/2023	13000	--	--				
	12/12/2023	13000	--	--				
	Annual Mean	14000						
Annual Max	18000							
CALC		mg/kg	Plant 2 Dewatering Cake	01/10/2023	14000	--	--	
				01/17/2023	14000	--	--	
				02/07/2023	15000	--	--	
				02/14/2023	14000	--	--	
				03/07/2023	14000	--	--	
				03/14/2023	13000	--	--	
				04/04/2023	11000	--	--	
				04/11/2023	14000	--	--	
				05/02/2023	13000	--	--	
				05/09/2023	16000	--	--	
				06/06/2023	14000	--	--	
				06/13/2023	13000	--	--	
				07/11/2023	15000	--	--	
				07/18/2023	15000	--	--	
				08/08/2023	13000	--	--	
				08/22/2023	13000	--	--	
				09/19/2023	13000	--	--	
				10/03/2023	14000	--	--	
				10/10/2023	11000	--	--	
				11/07/2023	13000	--	--	
11/14/2023	12000	--	--					
12/05/2023	13000	--	--					
12/12/2023	14000	--	--					
Annual Mean	14000							
Annual Max	16000							
Total Solids	SM 2540G		%	Plant 1 Dewatering Cake	01/10/2023	26	0.10	0.100
					01/17/2023	24	0.10	0.100
					02/07/2023	24	0.10	0.100
					02/14/2023	25	0.10	0.100
					03/07/2023	25	0.10	0.100
					03/14/2023	25	0.10	0.100
					04/04/2023	25	0.10	0.10
					04/11/2023	24	0.10	0.100
					05/02/2023	24	0.10	0.100
					05/09/2023	24	0.10	0.100
					06/06/2023	24	0.10	0.100
					06/13/2023	24	0.10	0.100
					07/11/2023	24	0.10	0.10
					07/17/2023	24	0.10	0.100
					08/08/2023	24	0.10	0.100
					08/22/2023	25	0.10	0.100
					09/19/2023	26	0.10	0.100
					10/03/2023	24	0.10	0.100
					10/10/2023	25	0.10	0.100
					11/07/2023	24	0.10	0.100
11/15/2023	24	0.10	0.100					
12/05/2023	26	0.10	0.100					

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
		SM 2540G	%	Plant 2 Dewatering Cake	12/12/2023	25	0.10	0.100	
					Annual Mean	24			
					Annual Max	26			
					01/10/2023	27	0.10	0.100	
					01/17/2023	27	0.10	0.100	
					02/07/2023	27	0.10	0.100	
					02/14/2023	28	0.10	0.100	
					03/07/2023	29	0.10	0.100	
					03/14/2023	26	0.10	0.100	
					04/04/2023	27	0.10	0.10	
					04/11/2023	28	0.10	0.100	
					05/02/2023	26	0.10	0.100	
					05/09/2023	25	0.10	0.100	
					06/06/2023	27	0.10	0.100	
					06/13/2023	27	0.10	0.100	
					07/11/2023	28	0.10	0.10	
					07/18/2023	26	0.10	0.100	
					08/08/2023	26	0.10	0.100	
					08/22/2023	24	0.10	0.100	
					09/19/2023	27	0.10	0.100	
					10/03/2023	27	0.10	0.100	
10/10/2023	27	0.10	0.100						
11/07/2023	27	0.10	0.100						
11/14/2023	26	0.10	0.100						
12/05/2023	26	0.10	0.100						
12/12/2023	25	0.10	0.100						
Annual Mean	27								
Annual Max	29								
Trace Elements	Antimony	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	5.3	0.88	1.9	
					07/11/2023	ND	12	41	
					Annual Mean	8.7 DNQ			
		Annual Max		5.3					
		EPA 6010		mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	5.2	0.90	1.9
						07/11/2023	ND	10	35
	Annual Mean		7.6 DNQ						
	Antimony wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	1.4	0.23	0.50	
					07/11/2023	ND	2.8	9.8	
					Annual Mean	2.1 DNQ			
		Annual Max		1.4					
		EPA 6010		mg/kg	Plant 2 Dewatering Cake	01/10/2023	1.4	0.24	0.50
						07/11/2023	ND	2.8	9.9
	Annual Mean		2.1 DNQ						
	Arsenic	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	11	0.95	9.5	
					01/17/2023	8.0 DNQ	1.1	11	
					02/07/2023	9.1 DNQ	5.8	12	
					02/14/2023	7.1 DNQ	5.5	12	
					03/07/2023	7.6 DNQ	5.6	12	
					03/14/2023	6.5 DNQ	5.7	13	
					04/04/2023	10 DNQ	5.5	12	
04/11/2023					10 DNQ	5.7	12		
05/02/2023					9.1 DNQ	5.8	12		
05/09/2023					9.3 DNQ	5.9	13		
06/06/2023					8.8 DNQ	5.9	13		
06/13/2023					9.8 DNQ	6.0	13		
07/11/2023					ND	5.8	12		
07/17/2023					6.3 DNQ	5.9	13		
08/08/2023					ND	5.9	12		
08/22/2023					6.0 DNQ	5.6	12		
09/19/2023					5.8 DNQ	5.4	12		
10/03/2023					ND	5.8	12		
10/10/2023					6.5 DNQ	5.7	12		
11/07/2023					ND	5.9	13		
11/15/2023					ND	5.7	12		
12/05/2023		6.6 DNQ	5.4	12					
12/12/2023		6.8 DNQ	5.6	12					
Annual Mean		7.5 DNQ							
Annual Max		11							
EPA 6010		mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	13	0.97	9.4		
				01/17/2023	8.5 DNQ	0.93	9.3		
	02/07/2023			9.5 DNQ	5.1	11			
	02/14/2023			9.4 DNQ	5.0	11			
	03/07/2023			8.4 DNQ	4.9	10			
	03/14/2023			7.9 DNQ	5.3	11			
	04/04/2023			14	5.1	11			
	04/11/2023			13	5.1	11			
	05/02/2023			10 DNQ	5.3	11			
	05/09/2023			11 DNQ	5.6	12			
06/06/2023	12	5.2	11						

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL				
					06/13/2023	13	5.2	11				
					07/11/2023	6.4 DNQ	5.0	11				
					07/18/2023	7.9 DNQ	5.3	11				
					08/08/2023	7.6 DNQ	5.3	11				
					08/22/2023	9.5 DNQ	5.8	12				
					09/19/2023	7.4 DNQ	5.2	11				
					10/03/2023	7.4 DNQ	5.2	11				
					10/10/2023	7.3 DNQ	5.1	11				
					11/07/2023	7.1 DNQ	5.3	11				
					11/14/2023	5.4 DNQ	5.4	12				
					12/05/2023	8.4 DNQ	5.3	11				
					12/12/2023	8.7 DNQ	5.5	12				
					Annual Mean	9.3 DNQ						
					Annual Max	14						
					Arsenic wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	2.8	0.25	2.5
									01/17/2023	1.9 DNQ	0.25	2.5
									02/07/2023	2.2 DNQ	1.4	2.9
									02/14/2023	1.8 DNQ	1.4	3.0
									03/07/2023	1.9 DNQ	1.4	3.0
									03/14/2023	1.6 DNQ	1.4	3.1
									04/04/2023	2.6 DNQ	1.4	3.0
									04/11/2023	2.5 DNQ	1.4	3.0
									05/02/2023	2.2 DNQ	1.4	3.0
									05/09/2023	2.2 DNQ	1.4	3.0
									06/06/2023	2.1 DNQ	1.4	3.0
06/13/2023	2.3 DNQ	1.4	3.0									
07/11/2023	ND	1.4	2.9									
07/17/2023	1.5 DNQ	1.4	3.0									
08/08/2023	ND	1.4	2.9									
08/22/2023	1.5 DNQ	1.4	3.0									
09/19/2023	1.5 DNQ	1.4	3.0									
10/03/2023	ND	1.4	3.0									
10/10/2023	1.6 DNQ	1.4	3.0									
11/07/2023	ND	1.4	3.0									
11/15/2023	ND	1.4	3.0									
12/05/2023	1.7 DNQ	1.4	3.0									
12/12/2023	1.7 DNQ	1.4	3.0									
Annual Mean	1.9 DNQ											
Annual Max	2.8											
	EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	3.4	0.26	2.5					
				01/17/2023	2.3 DNQ	0.25	2.5					
				02/07/2023	2.6 DNQ	1.4	3.0					
				02/14/2023	2.6 DNQ	1.4	3.0					
				03/07/2023	2.4 DNQ	1.4	3.0					
				03/14/2023	2.1 DNQ	1.4	3.0					
				04/04/2023	3.9	1.4	3.0					
				04/11/2023	3.6	1.4	3.0					
				05/02/2023	2.7 DNQ	1.4	3.0					
				05/09/2023	2.8 DNQ	1.4	3.0					
				06/06/2023	3.3	1.4	3.0					
				06/13/2023	3.6	1.4	3.0					
				07/11/2023	1.8 DNQ	1.4	3.0					
				07/18/2023	2.1 DNQ	1.4	3.0					
				08/08/2023	2.0 DNQ	1.4	2.9					
				08/22/2023	2.3 DNQ	1.4	3.0					
				09/19/2023	2.0 DNQ	1.4	3.0					
				10/03/2023	2.0 DNQ	1.4	3.0					
				10/10/2023	2.0 DNQ	1.4	3.0					
				11/07/2023	1.9 DNQ	1.4	3.0					
				11/14/2023	1.4 DNQ	1.4	3.0					
				12/05/2023	2.2 DNQ	1.4	3.0					
				12/12/2023	2.2 DNQ	1.4	3.0					
				Annual Mean	2.5 DNQ							
				Annual Max	3.9							
Barium	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	460	0.19	19					
				07/11/2023	460	0.58	12					
				Annual Mean	460							
				Annual Max	460							
	EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	1100	0.19	19					
				07/11/2023	1100	0.50	11					
				Annual Mean	1100							
				Annual Max	1100							
Barium wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	120	0.051	5.0					
				07/11/2023	110	0.14	2.9					
				Annual Mean	120							
				Annual Max	120							
	EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	300	0.051	5.0					
				07/11/2023	310	0.14	3.0					
				Annual Mean	300							
				Annual Max	310							

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
Beryllium	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	0.13 DNQ	0.022	0.19		
				07/11/2023	0.30 DNQ	0.28	2.0		
				Annual Mean	0.22 DNQ				
				Annual Max	0.30 DNQ				
				01/10/2023	0.12 DNQ	0.022	0.19		
				07/11/2023	0.43 DNQ	0.24	1.8		
	EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	0.12 DNQ	0.022	0.19		
				07/11/2023	0.43 DNQ	0.24	1.8		
				Annual Mean	0.28 DNQ				
				Annual Max	0.43 DNQ				
				01/10/2023	0.034 DNQ	0.0058	0.050		
				07/11/2023	0.072 DNQ	0.068	0.49		
EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	0.034 DNQ	0.0058	0.050			
			07/11/2023	0.072 DNQ	0.068	0.49			
			Annual Mean	0.053 DNQ					
			Annual Max	0.072 DNQ					
			01/10/2023	0.031 DNQ	0.0059	0.050			
			07/11/2023	0.12 DNQ	0.068	0.50			
EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	2.9	0.16	0.38			
			01/17/2023	3.5	0.18	0.42			
			02/07/2023	2.1	0.66	2.0			
			02/14/2023	1.7 DNQ	0.67	2.0			
			03/07/2023	2.2	0.64	2.0			
			03/14/2023	2.6	0.69	2.1			
			04/04/2023	3.0	0.63	2.0			
			04/11/2023	6.1	0.65	2.0			
			05/02/2023	3.5	0.66	2.1			
			05/09/2023	2.5	0.68	2.1			
			06/06/2023	ND	0.67	2.1			
			06/13/2023	ND	0.68	2.1			
			07/11/2023	3.3	0.67	2.0			
			07/17/2023	3.0	0.68	2.1			
			08/08/2023	3.2	0.68	2.1			
			08/22/2023	4.0	0.64	2.0			
			09/19/2023	3.5	0.62	1.9			
			10/03/2023	3.6	0.66	2.1			
			10/10/2023	3.8	0.65	2.0			
			11/07/2023	4.1	0.68	2.1			
			11/15/2023	ND	0.69	2.1			
			12/05/2023	3.7	0.62	1.9			
			12/12/2023	3.9	0.64	2.0			
			Annual Mean	3.0 DNQ					
			Annual Max	6.1					
			EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	0.90	0.16	0.37
						01/17/2023	1.1	0.16	0.37
						02/07/2023	1.4 DNQ	0.59	1.8
						02/14/2023	1.5 DNQ	0.61	1.8
						03/07/2023	2.1	0.59	1.8
03/14/2023	2.2	0.64				1.9			
04/04/2023	2.9	0.58				1.8			
04/11/2023	6.9	0.58				1.8			
05/02/2023	3.8	0.65				1.9			
05/09/2023	2.0	0.68				2.0			
06/06/2023	ND	0.59				1.8			
06/13/2023	ND	0.59				1.9			
07/11/2023	3.0	0.57				1.8			
07/18/2023	3.7	0.60				1.9			
08/08/2023	3.8	0.61				1.9			
08/22/2023	4.5	0.66				2.1			
09/19/2023	2.7	0.59				1.9			
10/03/2023	2.9	0.59				1.9			
10/10/2023	2.9	0.62				1.9			
11/07/2023	2.5	0.64				1.9			
11/14/2023	ND	0.66				2.0			
12/05/2023	2.2	0.61				1.9			
12/12/2023	2.2	0.63				2.0			
Annual Mean	2.5 DNQ								
Annual Max	6.9								
EPA 6010	mg/kg	Plant 1 Dewatering Cake				01/10/2023	0.77	0.042	0.099
						01/17/2023	0.84	0.042	0.099
						02/07/2023	0.51	0.16	0.49
						02/14/2023	0.44 DNQ	0.17	0.51
						03/07/2023	0.56	0.16	0.50
			03/14/2023	0.63	0.17	0.51			
			04/04/2023	0.76	0.16	0.50			
			04/11/2023	1.5	0.16	0.49			
			05/02/2023	0.85	0.16	0.50			
			05/09/2023	0.58	0.16	0.50			
			06/06/2023	ND	0.16	0.50			
			06/13/2023	ND	0.16	0.49			
			07/11/2023	0.78	0.16	0.49			
			07/17/2023	0.70	0.16	0.50			

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL			
					08/08/2023	0.76	0.16	0.49			
					08/22/2023	1.0	0.16	0.50			
					09/19/2023	0.91	0.16	0.50			
					10/03/2023	0.88	0.16	0.50			
					10/10/2023	0.94	0.16	0.50			
					11/07/2023	0.96	0.16	0.50			
					11/15/2023	ND	0.17	0.51			
					12/05/2023	0.94	0.16	0.50			
					12/12/2023	0.98	0.16	0.50			
					Annual Mean	0.73 DNQ					
					Annual Max	1.5					
					EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	0.24	0.042	0.10
								01/17/2023	0.31	0.042	0.099
				02/07/2023	0.39 DNQ	0.16		0.50			
				02/14/2023	0.43 DNQ	0.17		0.51			
				03/07/2023	0.59	0.17		0.51			
				03/14/2023	0.57	0.17		0.51			
				04/04/2023	0.79	0.16		0.50			
				04/11/2023	1.9	0.16		0.50			
				05/02/2023	1.0	0.17		0.51			
				05/09/2023	0.49 DNQ	0.17		0.51			
				06/06/2023	ND	0.16		0.49			
				06/13/2023	ND	0.16		0.50			
				07/11/2023	0.85	0.16		0.50			
				07/18/2023	0.98	0.16		0.50			
				08/08/2023	1.0	0.16		0.49			
				08/22/2023	1.1	0.16		0.50			
				09/19/2023	0.73	0.16		0.50			
				10/03/2023	0.78	0.16		0.50			
				10/10/2023	0.78	0.17		0.51			
				11/07/2023	0.67	0.17		0.51			
				11/14/2023	ND	0.17		0.51			
				12/05/2023	0.58	0.16		0.50			
				12/12/2023	0.55	0.16		0.50			
				Annual Mean	0.66 DNQ						
				Annual Max	1.9						
		Chromium	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023		34	0.61	0.95	
						01/17/2023		39	0.67	1.1	
						02/07/2023	33	0.74	4.0		
						02/14/2023	35	0.75	4.0		
						03/07/2023	39	0.76	4.0		
03/14/2023	38					0.77	4.1				
04/04/2023	43					0.75	4.0				
04/11/2023	41					0.73	4.0				
05/02/2023	33					0.79	4.1				
05/09/2023	39					0.81	4.2				
06/06/2023	36					0.75	4.1				
06/13/2023	39					0.77	4.2				
07/11/2023	41					0.75	4.1				
07/17/2023	38					0.80	4.2				
08/08/2023	32					0.76	4.2				
08/22/2023	44					0.76	4.0				
09/19/2023	38					0.70	3.9				
10/03/2023	49					0.78	4.1				
10/10/2023	49					0.73	4.0				
11/07/2023	51					0.80	4.2				
11/15/2023	45					0.78	4.1				
12/05/2023	38					0.74	3.9				
12/12/2023	37					0.76	4.0				
Annual Mean	40										
Annual Max	51										
EPA 6010	mg/kg dry weight					Plant 2 Dewatering Cake	01/10/2023	41	0.60	0.94	
							01/17/2023	37	0.59	0.93	
				02/07/2023	33		0.70	3.7			
				02/14/2023	35		0.68	3.6			
				03/07/2023	35		0.66	3.5			
				03/14/2023	35		0.72	3.8			
				04/04/2023	40		0.66	3.6			
				04/11/2023	36		0.69	3.6			
				05/02/2023	30		0.72	3.8			
				05/09/2023	40		0.76	4.0			
				06/06/2023	45		0.67	3.7			
				06/13/2023	48		0.70	3.7			
				07/11/2023	50		0.64	3.5			
				07/18/2023	53		0.72	3.8			
				08/08/2023	50	0.69	3.7				
				08/22/2023	58	0.74	4.1				
		09/19/2023	45	0.71	3.7						
		10/03/2023	59	0.71	3.7						
		10/10/2023	51	0.70	3.7						

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
Chromium wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	11/07/2023	60	0.71	3.8	
				11/14/2023	54	0.73	3.9	
				12/05/2023	49	0.72	3.8	
				12/12/2023	47	0.75	3.9	
				Annual Mean	45			
				Annual Max	60			
				01/10/2023	8.9	0.16	0.25	
				01/17/2023	9.4	0.16	0.25	
				02/07/2023	7.9	0.18	0.98	
				02/14/2023	8.9	0.19	1.0	
				03/07/2023	9.6	0.19	1.0	
				03/14/2023	9.4	0.19	1.0	
				04/04/2023	11	0.19	1.0	
				04/11/2023	10	0.18	0.99	
				05/02/2023	7.9	0.19	1.0	
				05/09/2023	9.2	0.19	1.0	
				06/06/2023	8.6	0.18	0.99	
				06/13/2023	9.1	0.18	0.99	
				07/11/2023	9.9	0.18	0.98	
				07/17/2023	9.0	0.19	1.0	
				08/08/2023	7.5	0.18	0.98	
				08/22/2023	11	0.19	1.0	
				09/19/2023	9.7	0.18	0.99	
				10/03/2023	12	0.19	1.0	
	10/10/2023	12	0.18	0.99				
	11/07/2023	12	0.19	1.0				
	11/15/2023	11	0.19	1.0				
	12/05/2023	9.7	0.19	1.0				
	12/12/2023	9.2	0.19	1.0				
	Annual Mean	9.7						
	Annual Max	12						
	EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	11	0.16	0.25	
			01/17/2023	9.9	0.16	0.25		
			02/07/2023	9.1	0.19	1.0		
			02/14/2023	9.6	0.19	1.0		
			03/07/2023	10	0.19	1.0		
			03/14/2023	9.2	0.19	1.0		
			04/04/2023	11	0.18	0.99		
			04/11/2023	10	0.19	1.0		
			05/02/2023	8.0	0.19	1.0		
			05/09/2023	9.9	0.19	1.0		
			06/06/2023	12	0.18	0.99		
			06/13/2023	13	0.19	1.0		
			07/11/2023	14	0.18	0.99		
			07/18/2023	14	0.19	1.0		
			08/08/2023	13	0.18	0.98		
			08/22/2023	14	0.18	0.99		
			09/19/2023	12	0.19	1.0		
			10/03/2023	16	0.19	1.0		
			10/10/2023	14	0.19	1.0		
			11/07/2023	16	0.19	1.0		
			11/14/2023	14	0.19	1.0		
			12/05/2023	13	0.19	1.0		
			12/12/2023	12	0.19	1.0		
			Annual Mean	12				
			Annual Max	16				
Cobalt	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	4.2	0.080	0.95	
				07/11/2023	6.3	0.80	4.1	
				Annual Mean	5.2			
	Annual Max	6.3						
	EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	4.5	0.079	0.94	
				07/11/2023	6.1	0.70	3.5	
Annual Mean				5.3				
Annual Max	6.1							
Cobalt wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	1.1	0.021	0.25	
				07/11/2023	1.5	0.20	0.98	
				Annual Mean	1.3			
				Annual Max	1.5			
	EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	1.2	0.021	0.25	
				07/11/2023	1.7	0.20	0.99	
				Annual Mean	1.5			
				Annual Max	1.7			
Copper	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	380	0.42	0.95	
				01/17/2023	460	0.46	1.1	
				02/07/2023	390	3.9	8.3	
				02/14/2023	430	3.8	7.9	
				03/07/2023	390	3.9	8.0	
				03/14/2023	380	4.0	8.1	
				04/04/2023	400	3.8	7.9	
				04/11/2023	400	3.8	8.2	

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL				
					05/02/2023	450	4.0	8.3				
					05/09/2023	420	4.1	8.5				
					06/06/2023	410	4.0	8.4				
					06/13/2023	470	4.0	8.5				
					07/11/2023	420	3.9	8.3				
					07/17/2023	390	4.0	8.4				
					08/08/2023	390	3.9	8.5				
					08/22/2023	480	3.8	8.0				
					09/19/2023	370	3.7	7.8				
					10/03/2023	450	4.0	8.2				
					10/10/2023	450	3.9	8.1				
					11/07/2023	420	4.1	8.4				
					11/15/2023	360	4.0	8.2				
					12/05/2023	430	3.7	7.8				
					12/12/2023	400	3.8	8.0				
					Annual Mean	410						
					Annual Max	480						
					EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake		01/10/2023	340	0.45	0.94
					01/17/2023	330			0.41	0.93		
					02/07/2023	310			3.5	7.3		
					02/14/2023	300			3.5	7.2		
		03/07/2023	300	3.4	7.0							
		03/14/2023	310	3.7	7.5							
		04/04/2023	340	3.5	7.3							
		04/11/2023	320	3.5	7.3							
		05/02/2023	350	3.7	7.6							
		05/09/2023	350	3.9	8.0							
		06/06/2023	360	3.5	7.4							
		06/13/2023	360	3.6	7.4							
		07/11/2023	320	3.4	7.1							
		07/18/2023	350	3.6	7.5							
		08/08/2023	330	3.6	7.6							
		08/22/2023	400	3.9	8.2							
		09/19/2023	310	3.6	7.4							
		10/03/2023	410	3.6	7.4							
		10/10/2023	370	3.6	7.3							
		11/07/2023	330	3.6	7.5							
		11/14/2023	270	3.7	7.7							
		12/05/2023	290	3.6	7.6							
		12/12/2023	290	3.8	7.9							
		Annual Mean	330									
Annual Max	410											
Copper wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	100	0.11	0.25					
				01/17/2023	110	0.11	0.25					
				02/07/2023	95	0.94	2.0					
				02/14/2023	110	0.97	2.0					
				03/07/2023	96	0.96	2.0					
				03/14/2023	94	0.98	2.0					
				04/04/2023	100	0.95	2.0					
				04/11/2023	98	0.94	2.0					
				05/02/2023	110	0.96	2.0					
				05/09/2023	100	0.96	2.0					
				06/06/2023	98	0.95	2.0					
				06/13/2023	110	0.94	2.0					
				07/11/2023	100	0.94	2.0					
				07/17/2023	92	0.95	2.0					
				08/08/2023	91	0.93	2.0					
				08/22/2023	120	0.95	2.0					
				09/19/2023	96	0.95	2.0					
				10/03/2023	110	0.96	2.0					
				10/10/2023	110	0.95	2.0					
				11/07/2023	100	0.96	2.0					
				11/15/2023	88	0.97	2.0					
12/05/2023	110	0.95	2.0									
12/12/2023	100	0.96	2.0									
Annual Mean	100											
Annual Max	120											
	EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	92	0.12	0.25					
				01/17/2023	90	0.11	0.25					
				02/07/2023	84	0.96	2.0					
				02/14/2023	84	0.97	2.0					
				03/07/2023	86	0.97	2.0					
				03/14/2023	82	0.97	2.0					
				04/04/2023	94	0.95	2.0					
				04/11/2023	88	0.95	2.0					
				05/02/2023	92	0.97	2.0					
				05/09/2023	87	0.97	2.0					
				06/06/2023	96	0.94	2.0					
				06/13/2023	96	0.96	2.0					
				07/11/2023	90	0.95	2.0					

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL				
					07/18/2023	93	0.96	2.0				
					08/08/2023	87	0.94	2.0				
					08/22/2023	98	0.95	2.0				
					09/19/2023	84	0.96	2.0				
					10/03/2023	110	0.96	2.0				
					10/10/2023	100	0.97	2.0				
					11/07/2023	88	0.97	2.0				
					11/14/2023	70	0.97	2.0				
					12/05/2023	77	0.95	2.0				
					12/12/2023	74	0.96	2.0				
					Annual Mean	89						
					Annual Max	110						
					Iron	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	57000	4.6	76
									07/11/2023	63000	25	100
									Annual Mean	60000		
									Annual Max	63000		
									01/10/2023	67000	4.5	75
									07/11/2023	68000	21	89
					Iron	EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	67000	4.5	75
07/11/2023	68000	21	89									
Annual Mean	68000											
Annual Max	68000											
01/10/2023	67000	4.5	75									
07/11/2023	68000	21	89									
Iron wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	15000	1.2	20					
				07/11/2023	15000	5.9	25					
				Annual Mean	15000							
				Annual Max	15000							
				01/10/2023	18000	1.2	20					
				07/11/2023	19000	6.0	25					
Iron wet weight	EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	18000	1.2	20					
				07/11/2023	19000	6.0	25					
				Annual Mean	18000							
				Annual Max	19000							
				01/10/2023	18000	1.2	20					
				07/11/2023	19000	6.0	25					
Lead	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	3.6	0.53	1.9					
				01/17/2023	6.3	0.59	2.1					
				02/07/2023	7.4 DNQ	1.7	8.3					
				02/14/2023	11	1.6	7.9					
				03/07/2023	13	1.6	8.0					
				03/14/2023	9.3	1.7	8.1					
				04/04/2023	12	1.6	7.9					
				04/11/2023	8.2	1.6	8.2					
				05/02/2023	12	1.7	8.3					
				05/09/2023	9.3	1.7	8.5					
				06/06/2023	11	1.7	8.4					
				06/13/2023	11	1.7	8.5					
				07/11/2023	10	1.7	8.3					
				07/17/2023	11	1.7	8.4					
				08/08/2023	12	1.7	8.5					
				08/22/2023	16	1.6	8.0					
				09/19/2023	9.7	1.6	7.8					
				10/03/2023	13	1.7	8.2					
				10/10/2023	13	1.6	8.1					
				11/07/2023	13	1.7	8.4					
				11/15/2023	11	1.7	8.2					
				12/05/2023	13	1.6	7.8					
				12/12/2023	ND	1.6	8.0					
				Annual Mean	10 DNQ							
				Annual Max	16							
				Lead	EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	ND	0.52	1.9	
								01/17/2023	3.0	0.52	1.8	
								02/07/2023	8.1	1.5	7.3	
								02/14/2023	4.0 DNQ	1.5	7.2	
								03/07/2023	10	1.5	7.0	
								03/14/2023	9.8	1.6	7.5	
								04/04/2023	11	1.5	7.3	
								04/11/2023	7.3	1.5	7.3	
								05/02/2023	9.5	1.6	7.6	
								05/09/2023	8.0	1.7	8.0	
								06/06/2023	12	1.5	7.4	
								06/13/2023	11	1.5	7.4	
								07/11/2023	8.6	1.4	7.1	
								07/18/2023	9.8	1.5	7.5	
								08/08/2023	11	1.5	7.6	
								08/22/2023	13	1.6	8.2	
								09/19/2023	11	1.5	7.4	
								10/03/2023	13	1.5	7.4	
								10/10/2023	13	1.5	7.3	
								11/07/2023	13	1.5	7.5	
								11/14/2023	10	1.6	7.7	
								12/05/2023	11	1.6	7.6	
12/12/2023	ND	1.6	7.9									
Annual Mean	9.1 DNQ											
Annual Max	13											
Lead wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake					01/10/2023	0.95	0.14	0.50	
								01/17/2023	1.5	0.14	0.50	

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL					
					02/07/2023	1.8 DNQ	0.40	2.0					
					02/14/2023	2.7	0.41	2.0					
					03/07/2023	3.3	0.41	2.0					
					03/14/2023	2.3	0.42	2.0					
					04/04/2023	3.1	0.41	2.0					
					04/11/2023	2.0	0.40	2.0					
					05/02/2023	2.8	0.41	2.0					
					05/09/2023	2.2	0.41	2.0					
					06/06/2023	2.7	0.40	2.0					
					06/13/2023	2.5	0.40	2.0					
					07/11/2023	2.5	0.40	2.0					
					07/17/2023	2.5	0.41	2.0					
					08/08/2023	2.8	0.40	2.0					
					08/22/2023	4.0	0.41	2.0					
					09/19/2023	2.5	0.40	2.0					
					10/03/2023	3.2	0.41	2.0					
					10/10/2023	3.2	0.40	2.0					
					11/07/2023	3.1	0.41	2.0					
					11/15/2023	2.7	0.41	2.0					
					12/05/2023	3.3	0.41	2.0					
					12/12/2023	ND	0.41	2.0					
					Annual Mean	2.5 DNQ							
					Annual Max	4.0							
							EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	0.14	0.50
										01/17/2023	0.81	0.14	0.49
										02/07/2023	2.2	0.41	2.0
										02/14/2023	1.1 DNQ	0.42	2.0
										03/07/2023	2.9	0.42	2.0
										03/14/2023	2.6	0.42	2.0
										04/04/2023	3.0	0.40	2.0
										04/11/2023	2.0	0.41	2.0
										05/02/2023	2.5	0.41	2.0
05/09/2023	2.0	0.42	2.0										
06/06/2023	3.1	0.40	2.0										
06/13/2023	2.9	0.41	2.0										
07/11/2023	2.4	0.40	2.0										
07/18/2023	2.6	0.41	2.0										
08/08/2023	2.9	0.40	2.0										
08/22/2023	3.2	0.40	2.0										
09/19/2023	2.9	0.41	2.0										
10/03/2023	3.5	0.41	2.0										
10/10/2023	3.6	0.42	2.0										
11/07/2023	3.4	0.41	2.0										
11/14/2023	2.6	0.41	2.0										
12/05/2023	2.8	0.41	2.0										
12/12/2023	ND	0.41	2.0										
Annual Mean	2.4 DNQ												
Annual Max	3.6												
	Mercury	EPA 7471B	mg/kg dry weight	Plant 1 Dewatering Cake						01/10/2023	0.53	0.12	0.32
										01/17/2023	0.55	0.13	0.34
										02/07/2023	0.87	0.13	0.34
										02/14/2023	0.71	0.13	0.34
										03/07/2023	0.56	0.12	0.33
										03/14/2023	0.77	0.13	0.35
										04/04/2023	0.87	0.12	0.32
					04/11/2023	0.86	0.13	0.33					
					05/02/2023	0.50	0.14	0.35					
					05/09/2023	0.68	0.14	0.35					
					06/06/2023	0.46	0.13	0.35					
					06/13/2023	0.68	0.13	0.34					
					07/11/2023	0.54	0.13	0.33					
					07/17/2023	0.59	0.14	0.36					
					08/08/2023	0.47	0.14	0.36					
					08/22/2023	0.64	0.13	0.34					
					09/19/2023	0.51	0.12	0.32					
					10/03/2023	0.49	0.14	0.36					
					10/10/2023	0.45	0.13	0.33					
					11/07/2023	0.46	0.14	0.35					
					11/15/2023	0.78	0.12	0.32					
					12/05/2023	0.43	0.13	0.34					
					12/12/2023	0.52	0.12	0.32					
					Annual Mean	0.61							
					Annual Max	0.87							
							EPA 7471B	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	0.45	0.12	0.31
										01/17/2023	0.74	0.11	0.30
										02/07/2023	0.59	0.12	0.31
										02/14/2023	0.61	0.12	0.30
										03/07/2023	0.56	0.11	0.29
										03/14/2023	0.45	0.12	0.32
										04/04/2023	0.58	0.11	0.30

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL				
					04/11/2023	0.44	0.12	0.31				
					05/02/2023	0.36	0.13	0.32				
					05/09/2023	0.52	0.13	0.33				
					06/06/2023	0.45	0.12	0.30				
					06/13/2023	0.37	0.11	0.30				
					07/11/2023	0.43	0.11	0.29				
					07/18/2023	0.57	0.12	0.32				
					08/08/2023	0.42	0.12	0.31				
					08/22/2023	0.49	0.12	0.33				
					09/19/2023	0.36	0.11	0.29				
					10/03/2023	0.56	0.12	0.30				
					10/10/2023	0.44	0.11	0.29				
					11/07/2023	0.41	0.12	0.31				
					11/14/2023	0.77	0.13	0.33				
					12/05/2023	0.53	0.13	0.33				
					12/12/2023	0.75	0.13	0.33				
					Annual Mean	0.52						
					Annual Max	0.77						
					Mercury wet weight	EPA 7471B	mg/kg	Plant 1 Dewatering Cake	01/10/2023	0.14	0.032	0.083
									01/17/2023	0.13	0.031	0.082
									02/07/2023	0.21	0.031	0.082
									02/14/2023	0.18	0.033	0.085
									03/07/2023	0.14	0.031	0.082
									03/14/2023	0.19	0.033	0.085
									04/04/2023	0.22	0.031	0.082
04/11/2023	0.21	0.031	0.080									
05/02/2023	0.12	0.033	0.085									
05/09/2023	0.16	0.032	0.083									
06/06/2023	0.11	0.032	0.083									
06/13/2023	0.16	0.030	0.079									
07/11/2023	0.13	0.031	0.080									
07/17/2023	0.14	0.033	0.085									
08/08/2023	0.11	0.033	0.085									
08/22/2023	0.16	0.033	0.085									
09/19/2023	0.13	0.032	0.083									
10/03/2023	0.12	0.033	0.087									
10/10/2023	0.11	0.031	0.080									
11/07/2023	0.11	0.032	0.083									
11/15/2023	0.19	0.030	0.079									
12/05/2023	0.11	0.033	0.087									
12/12/2023	0.13	0.031	0.080									
Annual Mean	0.15											
Annual Max	0.22											
	EPA 7471B	mg/kg	Plant 2 Dewatering Cake	01/10/2023	0.12	0.032	0.083					
				01/17/2023	0.20	0.031	0.082					
				02/07/2023	0.16	0.033	0.085					
				02/14/2023	0.17	0.032	0.083					
				03/07/2023	0.16	0.031	0.082					
				03/14/2023	0.12	0.033	0.085					
				04/04/2023	0.16	0.031	0.082					
				04/11/2023	0.12	0.033	0.085					
				05/02/2023	0.094	0.033	0.085					
				05/09/2023	0.13	0.032	0.083					
				06/06/2023	0.12	0.031	0.080					
				06/13/2023	0.10	0.031	0.080					
				07/11/2023	0.12	0.031	0.082					
				07/18/2023	0.15	0.033	0.085					
				08/08/2023	0.11	0.031	0.080					
				08/22/2023	0.12	0.030	0.079					
				09/19/2023	0.096	0.030	0.079					
				10/03/2023	0.15	0.031	0.080					
				10/10/2023	0.12	0.031	0.080					
				11/07/2023	0.11	0.031	0.082					
				11/14/2023	0.20	0.033	0.085					
				12/05/2023	0.14	0.033	0.087					
				12/12/2023	0.19	0.032	0.083					
				Annual Mean	0.14							
				Annual Max	0.20							
Molybdenum	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	15	0.19	1.9					
				01/17/2023	15	0.21	2.1					
				02/07/2023	14	2.1	8.3					
				02/14/2023	14	2.1	7.9					
				03/07/2023	16	2.1	8.0					
				03/14/2023	17	2.2	8.1					
				04/04/2023	17	2.0	7.9					
				04/11/2023	16	2.1	8.2					
				05/02/2023	19	2.1	8.3					
				05/09/2023	19	2.2	8.5					
				06/06/2023	21	2.1	8.4					
				06/13/2023	23	2.2	8.5					

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
					07/11/2023	18	2.1	8.3	
					07/17/2023	17	2.2	8.4	
					08/08/2023	14	2.1	8.5	
					08/22/2023	13	2.0	8.0	
					09/19/2023	13	2.0	7.8	
					10/03/2023	16	2.1	8.2	
					10/10/2023	16	2.1	8.1	
					11/07/2023	15	2.2	8.4	
					11/15/2023	11	2.1	8.2	
					12/05/2023	13	2.0	7.8	
					12/12/2023	12	2.1	8.0	
					Annual Mean	16			
					Annual Max	23			
					EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake		01/10/2023
		01/17/2023	14	0.18	1.8				
		02/07/2023	16	1.9	7.3				
		02/14/2023	17	1.9	7.2				
		03/07/2023	18	1.8	7.0				
		03/14/2023	18	2.0	7.5				
		04/04/2023	24	1.9	7.3				
		04/11/2023	22	1.9	7.3				
		05/02/2023	23	2.0	7.6				
		05/09/2023	25	2.1	8.0				
		06/06/2023	29	1.9	7.4				
		06/13/2023	30	1.9	7.4				
		07/11/2023	24	1.8	7.1				
		07/18/2023	25	2.0	7.5				
		08/08/2023	21	1.9	7.6				
		08/22/2023	20	2.1	8.2				
		09/19/2023	17	1.9	7.4				
		10/03/2023	21	1.9	7.4				
		10/10/2023	19	1.9	7.3				
		11/07/2023	15	2.0	7.5				
		11/14/2023	13	2.0	7.7				
		12/05/2023	14	1.9	7.6				
12/12/2023	14	2.0	7.9						
Annual Mean	20								
Annual Max	30								
Molybdenum wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	3.8	0.050	0.50		
				01/17/2023	3.5	0.050	0.50		
				02/07/2023	3.3	0.50	2.0		
				02/14/2023	3.6	0.52	2.0		
				03/07/2023	4.0	0.52	2.0		
				03/14/2023	4.1	0.53	2.0		
				04/04/2023	4.4	0.51	2.0		
				04/11/2023	4.0	0.51	2.0		
				05/02/2023	4.6	0.52	2.0		
				05/09/2023	4.5	0.52	2.0		
				06/06/2023	5.0	0.51	2.0		
				06/13/2023	5.3	0.51	2.0		
				07/11/2023	4.4	0.50	2.0		
				07/17/2023	4.0	0.51	2.0		
				08/08/2023	3.4	0.50	2.0		
				08/22/2023	3.3	0.51	2.0		
				09/19/2023	3.3	0.51	2.0		
				10/03/2023	3.8	0.52	2.0		
				10/10/2023	3.9	0.51	2.0		
				11/07/2023	3.5	0.52	2.0		
				11/15/2023	2.8	0.52	2.0		
	12/05/2023	3.4	0.51	2.0					
	12/12/2023	3.1	0.52	2.0					
	Annual Mean	3.9							
	Annual Max	5.3							
	EPA 6010	mg/kg	Plant 2 Dewatering Cake		01/10/2023	4.5	0.050	0.50	
	01/17/2023	3.7			0.049	0.49			
	02/07/2023	4.4			0.52	2.0			
	02/14/2023	4.7			0.52	2.0			
	03/07/2023	5.2			0.52	2.0			
	03/14/2023	4.9			0.52	2.0			
	04/04/2023	6.5			0.51	2.0			
	04/11/2023	6.1			0.51	2.0			
	05/02/2023	6.1			0.52	2.0			
	05/09/2023	6.2			0.52	2.0			
06/06/2023	7.8	0.51			2.0				
06/13/2023	8.0	0.52			2.0				
07/11/2023	6.8	0.51			2.0				
07/18/2023	6.7	0.52			2.0				
08/08/2023	5.5	0.50	2.0						
08/22/2023	4.9	0.51	2.0						
09/19/2023	4.6	0.52	2.0						

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL				
					10/03/2023	5.6	0.52	2.0				
					10/10/2023	5.2	0.52	2.0				
					11/07/2023	4.1	0.52	2.0				
					11/14/2023	3.3	0.52	2.0				
					12/05/2023	3.8	0.51	2.0				
					12/12/2023	3.6	0.52	2.0				
					Annual Mean	5.3						
					Annual Max	8.0						
					Nickel	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	26	0.53	1.9
									01/17/2023	34	0.59	2.1
									02/07/2023	31	1.4	8.3
									02/14/2023	30	1.5	7.9
									03/07/2023	36	1.4	8.0
									03/14/2023	30	1.5	8.1
									04/04/2023	38	1.4	7.9
									04/11/2023	33	1.5	8.2
									05/02/2023	29	1.5	8.3
									05/09/2023	36	1.5	8.5
									06/06/2023	27	1.5	8.4
									06/13/2023	29	1.5	8.5
									07/11/2023	34	1.5	8.3
									07/17/2023	40	1.5	8.4
									08/08/2023	30	1.5	8.5
									08/22/2023	33	1.4	8.0
									09/19/2023	28	1.4	7.8
10/03/2023	35	1.5	8.2									
10/10/2023	45	1.5	8.1									
11/07/2023	41	1.5	8.4									
11/15/2023	45	1.5	8.2									
12/05/2023	39	1.4	7.8									
12/12/2023	33	1.4	8.0									
Annual Mean	34											
Annual Max	45											
		EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	22	0.52	1.9				
					01/17/2023	23	0.52	1.8				
					02/07/2023	26	1.3	7.3				
					02/14/2023	26	1.3	7.2				
					03/07/2023	29	1.3	7.0				
					03/14/2023	25	1.4	7.5				
					04/04/2023	31	1.3	7.3				
					04/11/2023	27	1.3	7.3				
					05/02/2023	26	1.4	7.6				
					05/09/2023	30	1.5	8.0				
					06/06/2023	26	1.3	7.4				
					06/13/2023	25	1.3	7.4				
					07/11/2023	28	1.3	7.1				
					07/18/2023	32	1.4	7.5				
					08/08/2023	32	1.3	7.6				
					08/22/2023	34	1.5	8.2				
					09/19/2023	30	1.3	7.4				
					10/03/2023	45	1.3	7.4				
					10/10/2023	40	1.4	7.3				
					11/07/2023	31	1.4	7.5				
					11/14/2023	34	1.4	7.7				
					12/05/2023	27	1.4	7.6				
					12/12/2023	31	1.4	7.9				
					Annual Mean	30						
					Annual Max	45						
Nickel wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	6.7	0.14	0.50					
				01/17/2023	8.1	0.14	0.50					
				02/07/2023	7.5	0.35	2.0					
				02/14/2023	7.6	0.37	2.0					
				03/07/2023	9.0	0.36	2.0					
				03/14/2023	7.5	0.37	2.0					
				04/04/2023	9.7	0.36	2.0					
				04/11/2023	8.0	0.36	2.0					
				05/02/2023	7.1	0.36	2.0					
				05/09/2023	8.6	0.36	2.0					
				06/06/2023	6.5	0.36	2.0					
				06/13/2023	6.9	0.36	2.0					
				07/11/2023	8.1	0.35	2.0					
				07/17/2023	9.4	0.36	2.0					
				08/08/2023	7.1	0.35	2.0					
				08/22/2023	8.2	0.36	2.0					
				09/19/2023	7.1	0.36	2.0					
				10/03/2023	8.4	0.36	2.0					
				10/10/2023	11	0.36	2.0					
				11/07/2023	9.8	0.36	2.0					
				11/15/2023	11	0.37	2.0					
				12/05/2023	10	0.36	2.0					

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL				
		EPA 6010	mg/kg	Plant 2 Dewatering Cake	12/12/2023	8.3	0.36	2.0				
					Annual Mean	8.3						
					Annual Max	11						
					01/10/2023	5.8	0.14	0.50				
					01/17/2023	6.3	0.14	0.49				
					02/07/2023	7.0	0.36	2.0				
					02/14/2023	7.3	0.37	2.0				
					03/07/2023	8.4	0.37	2.0				
					03/14/2023	6.7	0.37	2.0				
					04/04/2023	8.4	0.36	2.0				
					04/11/2023	7.5	0.36	2.0				
					05/02/2023	6.8	0.37	2.0				
					05/09/2023	7.5	0.37	2.0				
					06/06/2023	7.0	0.36	2.0				
					06/13/2023	6.8	0.36	2.0				
					07/11/2023	7.8	0.36	2.0				
					07/18/2023	8.4	0.36	2.0				
					08/08/2023	8.4	0.35	2.0				
					08/22/2023	8.3	0.36	2.0				
					09/19/2023	8.0	0.36	2.0				
					10/03/2023	12	0.36	2.0				
					10/10/2023	11	0.37	2.0				
					11/07/2023	8.2	0.37	2.0				
					11/14/2023	8.7	0.37	2.0				
					12/05/2023	7.1	0.36	2.0				
					12/12/2023	7.9	0.36	2.0				
					Annual Mean	7.9						
					Annual Max	12						
					Selenium	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	3.8	0.95	1.9
									01/17/2023	7.6	1.1	2.1
									02/07/2023	8.7 DNQ	5.0	12
									02/14/2023	7.9 DNQ	4.7	12
									03/07/2023	9.6 DNQ	4.8	12
03/14/2023	7.3 DNQ	4.9	13									
04/04/2023	8.7 DNQ	4.7	12									
04/11/2023	11 DNQ	4.9	12									
05/02/2023	10 DNQ	5.0	12									
05/09/2023	11 DNQ	5.1	13									
06/06/2023	8.8 DNQ	5.0	13									
06/13/2023	8.5 DNQ	5.1	13									
07/11/2023	8.3 DNQ	5.0	12									
07/17/2023	8.0 DNQ	5.1	13									
08/08/2023	ND	5.1	12									
08/22/2023	7.2 DNQ	4.8	12									
09/19/2023	5.8 DNQ	4.7	12									
10/03/2023	7.8 DNQ	4.9	12									
10/10/2023	ND	4.9	12									
11/07/2023	6.8 DNQ	5.1	13									
11/15/2023	7.8 DNQ	4.9	12									
12/05/2023	5.4 DNQ	4.7	12									
12/12/2023	4.8 DNQ	4.8	12									
Annual Mean	7.6 DNQ											
Annual Max	7.6											
	EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023					2.7	0.94	1.9	
				01/17/2023					6.3	0.89	1.8	
				02/07/2023					8.1 DNQ	4.4	11	
				02/14/2023					5.8 DNQ	4.3	11	
				03/07/2023					8.0 DNQ	4.2	10	
				03/14/2023					6.8 DNQ	4.5	11	
				04/04/2023					8.4 DNQ	4.4	11	
				04/11/2023					11	4.4	11	
				05/02/2023	9.1 DNQ	4.6	11					
				05/09/2023	12	4.8	12					
				06/06/2023	8.6 DNQ	4.5	11					
				06/13/2023	7.4 DNQ	4.4	11					
				07/11/2023	7.9 DNQ	4.3	11					
				07/18/2023	5.7 DNQ	4.5	11					
				08/08/2023	6.1 DNQ	4.6	11					
				08/22/2023	7.8 DNQ	4.9	12					
				09/19/2023	6.3 DNQ	4.5	11					
				10/03/2023	8.9 DNQ	4.5	11					
				10/10/2023	4.4 DNQ	4.4	11					
				11/07/2023	6.0 DNQ	4.5	11					
				11/14/2023	8.9 DNQ	4.6	12					
				12/05/2023	5.7 DNQ	4.6	11					
				12/12/2023	4.7 DNQ	4.7	12					
				Annual Mean	7.2 DNQ							
				Annual Max	12							
				Selenium wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	1.0	0.25	0.50	
								01/17/2023	1.8	0.25	0.50	

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL					
					02/07/2023	2.1 DNQ	1.2	2.9					
					02/14/2023	2.0 DNQ	1.2	3.0					
					03/07/2023	2.4 DNQ	1.2	3.0					
					03/14/2023	1.8 DNQ	1.2	3.1					
					04/04/2023	2.2 DNQ	1.2	3.0					
					04/11/2023	2.6 DNQ	1.2	3.0					
					05/02/2023	2.5 DNQ	1.2	3.0					
					05/09/2023	2.6 DNQ	1.2	3.0					
					06/06/2023	2.1 DNQ	1.2	3.0					
					06/13/2023	2.0 DNQ	1.2	3.0					
					07/11/2023	2.0 DNQ	1.2	2.9					
					07/17/2023	1.9 DNQ	1.2	3.0					
					08/08/2023	ND	1.2	2.9					
					08/22/2023	1.8 DNQ	1.2	3.0					
					09/19/2023	1.5 DNQ	1.2	3.0					
					10/03/2023	1.9 DNQ	1.2	3.0					
					10/10/2023	ND	1.2	3.0					
					11/07/2023	1.6 DNQ	1.2	3.0					
					11/15/2023	1.9 DNQ	1.2	3.0					
					12/05/2023	1.4 DNQ	1.2	3.0					
					12/12/2023	1.2 DNQ	1.2	3.0					
					Annual Mean	1.9 DNQ							
					Annual Max	2.6 DNQ							
							EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	0.71	0.25	0.50
										01/17/2023	1.7	0.24	0.49
										02/07/2023	2.2 DNQ	1.2	3.0
										02/14/2023	1.6 DNQ	1.2	3.0
										03/07/2023	2.3 DNQ	1.2	3.0
										03/14/2023	1.8 DNQ	1.2	3.0
										04/04/2023	2.3 DNQ	1.2	3.0
										04/11/2023	3.1	1.2	3.0
										05/02/2023	2.4 DNQ	1.2	3.0
05/09/2023	3.1	1.2	3.0										
06/06/2023	2.3 DNQ	1.2	3.0										
06/13/2023	2.0 DNQ	1.2	3.0										
07/11/2023	2.2 DNQ	1.2	3.0										
07/18/2023	1.5 DNQ	1.2	3.0										
08/08/2023	1.6 DNQ	1.2	2.9										
08/22/2023	1.9 DNQ	1.2	3.0										
09/19/2023	1.7 DNQ	1.2	3.0										
10/03/2023	2.4 DNQ	1.2	3.0										
10/10/2023	1.2 DNQ	1.2	3.0										
11/07/2023	1.6 DNQ	1.2	3.0										
11/14/2023	2.3 DNQ	1.2	3.0										
12/05/2023	1.5 DNQ	1.2	3.0										
12/12/2023	1.2 DNQ	1.2	3.0										
Annual Mean	1.9 DNQ												
Annual Max	3.1												
	Silver	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake						01/10/2023	2.3	0.046	1.5
										01/17/2023	2.9	0.050	1.7
										02/07/2023	3.8 DNQ	0.58	6.2
										02/14/2023	3.2 DNQ	0.59	5.9
										03/07/2023	3.9 DNQ	0.56	6.0
										03/14/2023	2.6 DNQ	0.61	6.1
										04/04/2023	2.8 DNQ	0.55	5.9
					04/11/2023	2.7 DNQ	0.57	6.1					
					05/02/2023	2.4 DNQ	0.58	6.2					
					05/09/2023	2.2 DNQ	0.59	6.4					
					06/06/2023	2.7 DNQ	0.59	6.3					
					06/13/2023	3.4 DNQ	0.60	6.4					
					07/11/2023	1.3 DNQ	0.58	6.3					
					07/17/2023	ND	0.59	6.3					
					08/08/2023	1.9 DNQ	0.59	6.4					
					08/22/2023	4.4 DNQ	0.56	6.0					
					09/19/2023	1.4 DNQ	0.54	5.8					
					10/03/2023	1.8 DNQ	0.58	6.2					
					10/10/2023	1.3 DNQ	0.57	6.1					
					11/07/2023	3.2 DNQ	0.59	6.3					
					11/15/2023	3.3 DNQ	0.61	6.1					
					12/05/2023	1.8 DNQ	0.54	5.8					
					12/12/2023	1.0 DNQ	0.56	6.0					
					Annual Mean	2.5 DNQ							
					Annual Max	2.9							
							EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	1.7	0.045	1.5
										01/17/2023	1.7	0.044	1.4
										02/07/2023	2.5 DNQ	0.51	5.5
										02/14/2023	2.4 DNQ	0.54	5.4
										03/07/2023	2.2 DNQ	0.52	5.2
										03/14/2023	2.0 DNQ	0.57	5.7
										04/04/2023	1.7 DNQ	0.51	5.5

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL				
					04/11/2023	2.3 DNQ	0.51	5.5				
					05/02/2023	1.5 DNQ	0.57	5.7				
					05/09/2023	1.4 DNQ	0.60	6.0				
					06/06/2023	2.3 DNQ	0.52	5.6				
					06/13/2023	2.1 DNQ	0.52	5.6				
					07/11/2023	0.79 DNQ	0.50	5.4				
					07/18/2023	ND	0.53	5.7				
					08/08/2023	1.4 DNQ	0.53	5.7				
					08/22/2023	3.7 DNQ	0.58	6.2				
					09/19/2023	0.63 DNQ	0.52	5.6				
					10/03/2023	0.78 DNQ	0.52	5.6				
					10/10/2023	ND	0.55	5.5				
					11/07/2023	1.5 DNQ	0.56	5.6				
					11/14/2023	1.7 DNQ	0.58	5.8				
					12/05/2023	ND	0.53	5.7				
					12/12/2023	1.0 DNQ	0.55	5.9				
					Annual Mean	1.6 DNQ						
					Annual Max	1.7						
					Silver wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	0.59	0.012	0.40
									01/17/2023	0.68	0.012	0.40
									02/07/2023	0.92 DNQ	0.14	1.5
									02/14/2023	0.80 DNQ	0.15	1.5
									03/07/2023	0.98 DNQ	0.14	1.5
									03/14/2023	0.64 DNQ	0.15	1.5
									04/04/2023	0.71 DNQ	0.14	1.5
04/11/2023	0.67 DNQ	0.14	1.5									
05/02/2023	0.57 DNQ	0.14	1.5									
05/09/2023	0.53 DNQ	0.14	1.5									
06/06/2023	0.65 DNQ	0.14	1.5									
06/13/2023	0.80 DNQ	0.14	1.5									
07/11/2023	0.32 DNQ	0.14	1.5									
07/17/2023	ND	0.14	1.5									
08/08/2023	0.46 DNQ	0.14	1.5									
08/22/2023	1.1 DNQ	0.14	1.5									
09/19/2023	0.37 DNQ	0.14	1.5									
10/03/2023	0.43 DNQ	0.14	1.5									
10/10/2023	0.33 DNQ	0.14	1.5									
11/07/2023	0.75 DNQ	0.14	1.5									
11/15/2023	0.81 DNQ	0.15	1.5									
12/05/2023	0.47 DNQ	0.14	1.5									
12/12/2023	0.26 DNQ	0.14	1.5									
Annual Mean	0.61 DNQ											
Annual Max	0.68											
		EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	0.45	0.012	0.40				
					01/17/2023	0.45	0.012	0.39				
					02/07/2023	0.67 DNQ	0.14	1.5				
					02/14/2023	0.66 DNQ	0.15	1.5				
					03/07/2023	0.64 DNQ	0.15	1.5				
					03/14/2023	0.52 DNQ	0.15	1.5				
					04/04/2023	0.46 DNQ	0.14	1.5				
					04/11/2023	0.63 DNQ	0.14	1.5				
					05/02/2023	0.39 DNQ	0.15	1.5				
					05/09/2023	0.36 DNQ	0.15	1.5				
					06/06/2023	0.61 DNQ	0.14	1.5				
					06/13/2023	0.57 DNQ	0.14	1.5				
					07/11/2023	0.22 DNQ	0.14	1.5				
					07/18/2023	ND	0.14	1.5				
					08/08/2023	0.36 DNQ	0.14	1.5				
					08/22/2023	0.91 DNQ	0.14	1.5				
					09/19/2023	0.17 DNQ	0.14	1.5				
					10/03/2023	0.21 DNQ	0.14	1.5				
					10/10/2023	ND	0.15	1.5				
					11/07/2023	0.41 DNQ	0.15	1.5				
					11/14/2023	0.43 DNQ	0.15	1.5				
					12/05/2023	ND	0.14	1.5				
					12/12/2023	0.26 DNQ	0.14	1.5				
					Annual Mean	0.43 DNQ						
					Annual Max	0.45						
Thallium	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	ND	0.46	0.95					
				07/11/2023	ND	8.8	41					
				Annual Mean	<8.8							
				Annual Max	<8.8							
				Annual Mean	4.2 DNQ							
	EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	1.0	0.45	0.94					
				07/11/2023	ND	7.5	35					
				Annual Mean	4.2 DNQ							
				Annual Max	1.0							
				Annual Mean	4.2 DNQ							
Thallium wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	0.12	0.25					
				07/11/2023	ND	2.1	9.8					
				Annual Mean	<2.1							
				Annual Max	<2.1							

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
Vanadium		EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	0.28	0.12	0.25
					07/11/2023	ND	2.1	9.9
					Annual Mean	1.2 DNQ		
					Annual Max	0.28		
		EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	65	0.10	0.95
					07/11/2023	75	0.67	4.1
					Annual Mean	70		
					Annual Max	75		
		EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	130	0.10	0.94
					07/11/2023	100	0.61	3.5
					Annual Mean	120		
					Annual Max	130		
Vanadium wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	17	0.027	0.25	
				07/11/2023	18	0.16	0.98	
				Annual Mean	18			
				Annual Max	18			
	EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	34	0.027	0.25	
				07/11/2023	28	0.17	0.99	
				Annual Mean	31			
				Annual Max	34			
Zinc	EPA 6010	mg/kg dry weight	Plant 1 Dewatering Cake	01/10/2023	690	3.2	19	
				01/17/2023	800	3.6	21	
				02/07/2023	660	4.5	20	
				02/14/2023	670	4.7	20	
				03/07/2023	680	4.8	20	
				03/14/2023	650	4.9	21	
				04/04/2023	710	4.7	20	
				04/11/2023	730	4.5	20	
				05/02/2023	740	5.0	21	
				05/09/2023	760	5.1	21	
				06/06/2023	710	4.6	21	
				06/13/2023	850	4.7	21	
				07/11/2023	710	4.6	20	
				07/17/2023	680	5.1	21	
				08/08/2023	680	4.7	21	
				08/22/2023	800	4.8	20	
				09/19/2023	660	4.3	19	
				10/03/2023	780	4.9	21	
				10/10/2023	810	4.5	20	
				11/07/2023	760	5.1	21	
				11/15/2023	610	4.9	21	
				12/05/2023	740	4.7	19	
				12/12/2023	720	4.8	20	
				Annual Mean	720			
	Annual Max	850						
	EPA 6010	mg/kg dry weight	Plant 2 Dewatering Cake	01/10/2023	600	3.2	19	
				01/17/2023	590	3.1	18	
				02/07/2023	590	4.4	18	
				02/14/2023	580	4.3	18	
				03/07/2023	590	4.2	18	
				03/14/2023	570	4.5	19	
				04/04/2023	660	4.0	18	
				04/11/2023	650	4.4	18	
				05/02/2023	680	4.6	19	
				05/09/2023	680	4.8	20	
				06/06/2023	710	4.1	18	
				06/13/2023	700	4.4	19	
				07/11/2023	640	3.9	18	
				07/18/2023	720	4.5	19	
				08/08/2023	650	4.2	19	
				08/22/2023	780	4.5	21	
				09/19/2023	670	4.5	19	
				10/03/2023	860	4.5	19	
				10/10/2023	770	4.4	19	
				11/07/2023	680	4.5	19	
				11/14/2023	580	4.6	20	
				12/05/2023	610	4.6	19	
				12/12/2023	630	4.7	20	
Annual Mean				660				
Annual Max	860							
Zinc wet weight	EPA 6010	mg/kg	Plant 1 Dewatering Cake	01/10/2023	180	0.85	5.0	
				01/17/2023	190	0.85	5.0	
				02/07/2023	160	1.1	4.9	
				02/14/2023	170	1.2	5.1	
				03/07/2023	170	1.2	5.0	
				03/14/2023	160	1.2	5.1	
				04/04/2023	180	1.2	5.0	
				04/11/2023	180	1.1	4.9	
				05/02/2023	180	1.2	5.0	
				05/09/2023	180	1.2	5.0	

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					06/06/2023	170	1.1	5.0
					06/13/2023	200	1.1	4.9
					07/11/2023	170	1.1	4.9
					07/17/2023	160	1.2	5.0
					08/08/2023	160	1.1	4.9
					08/22/2023	200	1.2	5.0
					09/19/2023	170	1.1	5.0
					10/03/2023	190	1.2	5.0
					10/10/2023	200	1.1	5.0
					11/07/2023	180	1.2	5.0
					11/15/2023	150	1.2	5.1
					12/05/2023	190	1.2	5.0
					12/12/2023	180	1.2	5.0
					Annual Mean	180		
					Annual Max	200		
		EPA 6010	mg/kg	Plant 2 Dewatering Cake	01/10/2023	160	0.86	5.0
		01/17/2023	160		0.85	4.9		
		02/07/2023	160		1.2	5.0		
		02/14/2023	160		1.2	5.1		
		03/07/2023	170		1.2	5.1		
		03/14/2023	150		1.2	5.1		
		04/04/2023	180		1.1	5.0		
		04/11/2023	180		1.2	5.0		
		05/02/2023	180		1.2	5.1		
		05/09/2023	170		1.2	5.1		
		06/06/2023	190		1.1	4.9		
		06/13/2023	190		1.2	5.0		
		07/11/2023	180		1.1	5.0		
		07/18/2023	190		1.2	5.0		
		08/08/2023	170		1.1	4.9		
08/22/2023	190	1.1	5.0					
09/19/2023	180	1.2	5.0					
10/03/2023	230	1.2	5.0					
10/10/2023	210	1.2	5.1					
11/07/2023	180	1.2	5.1					
11/14/2023	150	1.2	5.1					
12/05/2023	160	1.2	5.0					
12/12/2023	160	1.2	5.0					
Annual Mean	180							
Annual Max	230							
Volatile Organic Compounds	1,1,1,2-Tetrachloroethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	220	2600
					Annual Mean	<220		
					Annual Max	<220		
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	240	2900	
	Annual Mean	<240						
	Annual Max	<240						
	1,1,1,2-Tetrachloroethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	58	690
					Annual Mean	<58		
					Annual Max	<58		
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	65	770	
	Annual Mean	<65						
	Annual Max	<65						
	1,1,1-Trichloroethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	690	2600
					Annual Mean	<690		
					Annual Max	<690		
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	790	2900	
	Annual Mean	<790						
	Annual Max	<790						
	1,1,1-Trichloroethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	180	690
					Annual Mean	<180		
					Annual Max	<180		
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	210	770	
	Annual Mean	<210						
	Annual Max	<210						
1,1,2,2-Tetrachloroethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	310	2600	
				Annual Mean	<310			
				Annual Max	<310			
EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	340	2900		
Annual Mean	<340							
Annual Max	<340							
1,1,2,2-Tetrachloroethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	81	690	
				Annual Mean	<81			
				Annual Max	<81			
EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	90	770		
Annual Mean	<90							
Annual Max	<90							
1,1,2-Trichloroethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	290	2600	
				Annual Mean	<290			
				Annual Max	<290			
EPA 8260C	µg/kg dry	Plant 2	01/10/2023	ND	310	2900		

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
				Dewatering Cake	Annual Mean	<310		
					Annual Max	<310		
	1,1,2-Trichloroethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	75	690
Annual Mean					<75			
Annual Max		<75						
EPA 8260C		µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	84	770	
	Annual Mean			<84				
					Annual Max	<84		
1,1-Dichloroethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	530	2600	
				Annual Mean	<530			
	Annual Max	<530						
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	600	2900	
Annual Mean				<600				
					Annual Max	<600		
1,1-Dichloroethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	140	690	
				Annual Mean	<140			
	Annual Max	<140						
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	160	770	
Annual Mean				<160				
					Annual Max	<160		
1,1-Dichloroethene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	530	2600	
				Annual Mean	<530			
	Annual Max	<530						
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	600	2900	
Annual Mean				<600				
					Annual Max	<600		
1,1-Dichloroethene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	140	690	
				Annual Mean	<140			
	Annual Max	<140						
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	160	770	
Annual Mean				<160				
					Annual Max	<160		
1,1-Dichloropropene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	500	2600	
				Annual Mean	<500			
	Annual Max	<500						
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	560	2900	
Annual Mean				<560				
					Annual Max	<560		
1,1-Dichloropropene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	130	690	
				Annual Mean	<130			
	Annual Max	<130						
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	150	770	
Annual Mean				<150				
					Annual Max	<150		
1,2,3-Trichlorobenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	840	2600	
				Annual Mean	<840			
	Annual Max	<840						
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	940	2900	
Annual Mean				<940				
					Annual Max	<940		
1,2,3-Trichlorobenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	220	690	
				Annual Mean	<220			
	Annual Max	<220						
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	250	770	
Annual Mean				<250				
					Annual Max	<250		
1,2,3-Trichloropropane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	500	2600	
				Annual Mean	<500			
	Annual Max	<500						
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	560	2900	
Annual Mean				<560				
					Annual Max	<560		
1,2,3-Trichloropropane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	130	690	
				Annual Mean	<130			
	Annual Max	<130						
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	150	770	
Annual Mean				<150				
					Annual Max	<150		
1,2,4-Trichlorobenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	500	2600	
				Annual Mean	<500			
	Annual Max	<500						
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	560	2900	
Annual Mean				<560				
					Annual Max	<560		
1,2,4-Trichlorobenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	130	690	
				Annual Mean	<130			
	Annual Max	<130						
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	150	770	
Annual Mean				<150				
					Annual Max	<150		

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	1,2,4-Trimethylbenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	330	2600
					Annual Mean	<330		
					Annual Max	<330		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	360	2900
					Annual Mean	<360		
					Annual Max	<360		
	1,2,4-Trimethylbenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	86	690
					Annual Mean	<86		
					Annual Max	<86		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	96	770
					Annual Mean	<96		
					Annual Max	<96		
	1,2-Dibromo-3-chloropropane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	920	5300
					Annual Mean	<920		
					Annual Max	<920		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	1000	5600
					Annual Mean	<1000		
					Annual Max	<1000		
	1,2-Dibromo-3-chloropropane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	240	1400
					Annual Mean	<240		
					Annual Max	<240		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	270	1500
					Annual Mean	<270		
					Annual Max	<270		
	1,2-Dibromoethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	610	2600
					Annual Mean	<610		
					Annual Max	<610		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	670	2900
					Annual Mean	<670		
					Annual Max	<670		
	1,2-Dibromoethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	160	690
					Annual Mean	<160		
					Annual Max	<160		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	180	770
					Annual Mean	<180		
					Annual Max	<180		
	1,2-Dichlorobenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	990	2600
					Annual Mean	<990		
					Annual Max	<990		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	1100	2900
					Annual Mean	<1100		
					Annual Max	<1100		
	1,2-Dichlorobenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	260	690
					Annual Mean	<260		
					Annual Max	<260		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	290	770
					Annual Mean	<290		
					Annual Max	<290		
	1,2-Dichloroethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	260	2600
					Annual Mean	<260		
					Annual Max	<260		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	290	2900
					Annual Mean	<290		
					Annual Max	<290		
	1,2-Dichloroethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	69	690
					Annual Mean	<69		
					Annual Max	<69		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	77	770
					Annual Mean	<77		
					Annual Max	<77		
	1,2-Dichloropropane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	500	2600
					Annual Mean	<500		
					Annual Max	<500		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	520	2900
					Annual Mean	<520		
					Annual Max	<520		
	1,2-Dichloropropane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	130	690
					Annual Mean	<130		
					Annual Max	<130		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	140	770
					Annual Mean	<140		
					Annual Max	<140		
	1,3,5-Trichlorobenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	170	2600
					Annual Mean	<170		
					Annual Max	<170		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	190	2900
					Annual Mean	<190		
					Annual Max	<190		
	1,3,5-Trichlorobenzene	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	44	690
					Annual Mean	<44		

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	wet weight	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	Annual Max	<44	50	770
					01/10/2023	ND		
					Annual Mean	<50		
	1,3,5- Trimethylbenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	Annual Max	<50	420	2600
					01/10/2023	ND		
					Annual Mean	<420		
	1,3,5- Trimethylbenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	Annual Max	<420	450	2900
					01/10/2023	ND		
					Annual Mean	<450		
	1,3- Dichlorobenzene	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	Annual Max	<450	110	690
					01/10/2023	ND		
					Annual Mean	<110		
	1,3- Dichlorobenzene wet weight	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	Annual Max	<110	120	770
					01/10/2023	ND		
					Annual Mean	<120		
	1,3- Dichlorobenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	Annual Max	<120	420	2600
					01/10/2023	ND		
					Annual Mean	<420		
	1,3- Dichlorobenzene wet weight	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	Annual Max	<420	490	2900
					01/10/2023	ND		
					Annual Mean	<490		
	1,3- Dichlorobenzene	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	Annual Max	<490	110	690
					01/10/2023	ND		
					Annual Mean	<110		
	1,3- Dichlorobenzene wet weight	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	Annual Max	<110	130	770
					01/10/2023	ND		
					Annual Mean	<130		
	1,3- Dichloropropane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	Annual Max	<130	300	2600
					01/10/2023	ND		
					Annual Mean	<300		
	1,3- Dichloropropane	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	Annual Max	<300	330	2900
					01/10/2023	ND		
					Annual Mean	<330		
	1,3- Dichloropropane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	Annual Max	<330	78	690
					01/10/2023	ND		
					Annual Mean	<78		
	1,4- Dichlorobenzene	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	Annual Max	<78	87	770
					01/10/2023	ND		
					Annual Mean	<87		
	1,4- Dichlorobenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	Annual Max	<87	260	2600
					01/10/2023	ND		
					Annual Mean	<260		
	1,4- Dichlorobenzene wet weight	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	Annual Max	<260	290	2900
					01/10/2023	ND		
					Annual Mean	<290		
	1,4- Dichlorobenzene	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	Annual Max	<290	69	690
					01/10/2023	ND		
					Annual Mean	<69		
	1,4- Dichlorobenzene wet weight	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	Annual Max	<69	77	770
					01/10/2023	ND		
					Annual Mean	<77		
	2,2- Dichloropropane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	Annual Max	<77	650	2600
					01/10/2023	ND		
					Annual Mean	<650		
	2,2- Dichloropropane	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	Annual Max	<650	710	2900
					01/10/2023	ND		
					Annual Mean	<710		
	2,2- Dichloropropane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	Annual Max	<710	170	690
					01/10/2023	ND		
					Annual Mean	<170		
	2- Chlorotoluene	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	Annual Max	<170	190	770
					01/10/2023	ND		
					Annual Mean	<190		
	2- Chlorotoluene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	Annual Max	<190	270	2600
					01/10/2023	ND		
					Annual Mean	<270		
	2- Chlorotoluene wet weight	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	Annual Max	<270	300	2900
					01/10/2023	ND		
					Annual Mean	<300		
	2- Chlorotoluene	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	Annual Max	<300	72	690
					01/10/2023	ND		
					Annual Mean	<72		
	2- Chlorotoluene wet weight	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	Annual Max	<72	81	770
					01/10/2023	ND		
					Annual Mean	<81		
	2- Hexanone wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	Annual Max	<81	600	2800
					01/10/2023	ND		
					Annual Mean	<600		
	2- Hexanone wet weight	EPA 8260C	µg/kg	Plant 2	Annual Max	<600	670	3100
					01/10/2023	ND		

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
				Dewatering Cake	Annual Mean	<670		
					Annual Max	<670		
	4-Chlorotoluene	EPA 8260C	µg/kg dry	Plant 1	01/10/2023	ND	240	2600
				Dewatering Cake	Annual Mean	<240		
					Annual Max	<240		
		EPA 8260C	µg/kg dry	Plant 2	01/10/2023	ND	270	2900
				Dewatering Cake	Annual Mean	<270		
					Annual Max	<270		
	4-Chlorotoluene wet weight	EPA 8260C	µg/kg	Plant 1	01/10/2023	ND	64	690
				Dewatering Cake	Annual Mean	<64		
					Annual Max	<64		
		EPA 8260C	µg/kg	Plant 2	01/10/2023	ND	71	770
				Dewatering Cake	Annual Mean	<71		
					Annual Max	<71		
	Acrolein	EPA 8260C	µg/kg dry	Plant 1	01/10/2023	ND	12000	53000
				Dewatering Cake	Annual Mean	<12000		
					Annual Max	<12000		
		EPA 8260C	µg/kg dry	Plant 2	01/10/2023	ND	13000	56000
				Dewatering Cake	Annual Mean	<13000		
					Annual Max	<13000		
	Acrolein wet weight	EPA 8260C	µg/kg	Plant 1	01/10/2023	ND	3200	14000
				Dewatering Cake	Annual Mean	<3200		
					Annual Max	<3200		
		EPA 8260C	µg/kg	Plant 2	01/10/2023	ND	3600	15000
				Dewatering Cake	Annual Mean	<3600		
					Annual Max	<3600		
	Acrylonitrile	EPA 8260C	µg/kg dry	Plant 1	01/10/2023	ND	2700	53000
				Dewatering Cake	Annual Mean	<2700		
					Annual Max	<2700		
		EPA 8260C	µg/kg dry	Plant 2	01/10/2023	ND	3000	56000
				Dewatering Cake	Annual Mean	<3000		
					Annual Max	<3000		
	Acrylonitrile wet weight	EPA 8260C	µg/kg	Plant 1	01/10/2023	ND	720	14000
				Dewatering Cake	Annual Mean	<720		
					Annual Max	<720		
		EPA 8260C	µg/kg	Plant 2	01/10/2023	ND	810	15000
				Dewatering Cake	Annual Mean	<810		
					Annual Max	<810		
	Benzene	EPA 8260C	µg/kg dry	Plant 1	01/10/2023	ND	500	2600
				Dewatering Cake	Annual Mean	<500		
					Annual Max	<500		
		EPA 8260C	µg/kg dry	Plant 2	01/10/2023	ND	520	2900
				Dewatering Cake	Annual Mean	<520		
					Annual Max	<520		
	Benzene wet weight	EPA 8260C	µg/kg	Plant 1	01/10/2023	ND	130	690
				Dewatering Cake	Annual Mean	<130		
					Annual Max	<130		
		EPA 8260C	µg/kg	Plant 2	01/10/2023	ND	140	770
				Dewatering Cake	Annual Mean	<140		
					Annual Max	<140		
	Bromobenzene	EPA 8260C	µg/kg dry	Plant 1	01/10/2023	ND	200	2600
				Dewatering Cake	Annual Mean	<200		
					Annual Max	<200		
		EPA 8260C	µg/kg dry	Plant 2	01/10/2023	ND	220	2900
				Dewatering Cake	Annual Mean	<220		
					Annual Max	<220		
	Bromobenzene wet weight	EPA 8260C	µg/kg	Plant 1	01/10/2023	ND	53	690
				Dewatering Cake	Annual Mean	<53		
					Annual Max	<53		
		EPA 8260C	µg/kg	Plant 2	01/10/2023	ND	59	770
				Dewatering Cake	Annual Mean	<59		
					Annual Max	<59		
	Bromochloromethane	EPA 8260C	µg/kg dry	Plant 1	01/10/2023	ND	500	2600
				Dewatering Cake	Annual Mean	<500		
					Annual Max	<500		
		EPA 8260C	µg/kg dry	Plant 2	01/10/2023	ND	560	2900
				Dewatering Cake	Annual Mean	<560		
					Annual Max	<560		
	Bromochloromethane wet weight	EPA 8260C	µg/kg	Plant 1	01/10/2023	ND	130	690
				Dewatering Cake	Annual Mean	<130		
					Annual Max	<130		
		EPA 8260C	µg/kg	Plant 2	01/10/2023	ND	150	770
				Dewatering Cake	Annual Mean	<150		
					Annual Max	<150		
	Bromodichloromethane	EPA 8260C	µg/kg dry	Plant 1	01/10/2023	ND	990	2600
				Dewatering Cake	Annual Mean	<990		
					Annual Max	<990		
		EPA 8260C	µg/kg dry	Plant 2	01/10/2023	ND	1100	2900
				Dewatering Cake	Annual Mean	<1100		
					Annual Max	<1100		

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
Bromodichloromethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	260	690	
				Annual Mean	<260			
				Annual Max	<260			
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	290	770	
				Annual Mean	<290			
				Annual Max	<290			
Bromoform	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	1700	2600	
				Annual Mean	<1700			
				Annual Max	<1700			
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	1900	2900	
				Annual Mean	<1900			
				Annual Max	<1900			
Bromoform wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	440	690	
				Annual Mean	<440			
				Annual Max	<440			
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	500	770	
				Annual Mean	<500			
				Annual Max	<500			
Bromomethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	500	5300	
				Annual Mean	<500			
				Annual Max	<500			
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	560	5600	
				Annual Mean	<560			
				Annual Max	<560			
Bromomethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	130	1400	
				Annual Mean	<130			
				Annual Max	<130			
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	150	1500	
				Annual Mean	<150			
				Annual Max	<150			
Carbon tetrachloride	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	180	2600	
				Annual Mean	<180			
				Annual Max	<180			
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	200	2900	
				Annual Mean	<200			
				Annual Max	<200			
Carbon tetrachloride wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	47	690	
				Annual Mean	<47			
				Annual Max	<47			
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	53	770	
				Annual Mean	<53			
				Annual Max	<53			
Chlorobenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	140	2600	
				Annual Mean	<140			
				Annual Max	<140			
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	150	2900	
				Annual Mean	<150			
				Annual Max	<150			
Chlorobenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	36	690	
				Annual Mean	<36			
				Annual Max	<36			
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	41	770	
				Annual Mean	<41			
				Annual Max	<41			
Chloroethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	1800	5300	
				Annual Mean	<1800			
				Annual Max	<1800			
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	1900	5600	
				Annual Mean	<1900			
				Annual Max	<1900			
Chloroethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	460	1400	
				Annual Mean	<460			
				Annual Max	<460			
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	520	1500	
				Annual Mean	<520			
				Annual Max	<520			
Chloroform	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	500	2600	
				Annual Mean	<500			
				Annual Max	<500			
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	520	2900	
				Annual Mean	<520			
				Annual Max	<520			
Chloroform wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	130	690	
				Annual Mean	<130			
				Annual Max	<130			
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	140	770	
				Annual Mean	<140			
				Annual Max	<140			
Chloromethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	530	5300	
				Annual Mean	<530			

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	Annual Max	<530		
					01/10/2023	ND	560	5600
					Annual Mean	<560		
Chloromethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	140	1400	
				Annual Mean	<140			
				Annual Max	<140			
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	150	1500	
				Annual Mean	<150			
				Annual Max	<150			
cis-1,2- Dichloroethene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	230	1300	
				Annual Mean	<230			
				Annual Max	<230			
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	250	1500	
				Annual Mean	<250			
				Annual Max	<250			
cis-1,2- Dichloroethene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	61	350	
				Annual Mean	<61			
				Annual Max	<61			
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	68	390	
				Annual Mean	<68			
				Annual Max	<68			
cis-1,3- Dichloropropene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	1300	3200	
				Annual Mean	<1300			
				Annual Max	<1300			
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	1400	3500	
				Annual Mean	<1400			
				Annual Max	<1400			
cis-1,3- Dichloropropene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	330	830	
				Annual Mean	<330			
				Annual Max	<330			
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	370	930	
				Annual Mean	<370			
				Annual Max	<370			
Dibromochlorome thane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	350	2600	
				Annual Mean	<350			
				Annual Max	<350			
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	370	2900	
				Annual Mean	<370			
				Annual Max	<370			
Dibromochlorome thane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	92	690	
				Annual Mean	<92			
				Annual Max	<92			
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	100	770	
				Annual Mean	<100			
				Annual Max	<100			
Dibromomethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	320	2600	
				Annual Mean	<320			
				Annual Max	<320			
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	350	2900	
				Annual Mean	<350			
				Annual Max	<350			
Dibromomethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	83	690	
				Annual Mean	<83			
				Annual Max	<83			
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	93	770	
				Annual Mean	<93			
				Annual Max	<93			
Dichlorodifluorom ethane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	690	5300	
				Annual Mean	<690			
				Annual Max	<690			
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	750	5600	
				Annual Mean	<750			
				Annual Max	<750			
Dichlorodifluorom ethane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	180	1400	
				Annual Mean	<180			
				Annual Max	<180			
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	200	1500	
				Annual Mean	<200			
				Annual Max	<200			
Ethylbenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	360	2600	
				Annual Mean	<360			
				Annual Max	<360			
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	410	2900	
				Annual Mean	<410			
				Annual Max	<410			
Ethylbenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	94	690	
				Annual Mean	<94			
				Annual Max	<94			
	EPA 8260C	µg/kg	Plant 2	01/10/2023	ND	110	770	

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
Hexachlorobutadiene	Hexachlorobutadiene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	Annual Mean	<110		
					Annual Max	<110		
					01/10/2023	ND	530	2600
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	Annual Mean	<530		
					Annual Max	<530		
					01/10/2023	ND	560	2900
	Hexachlorobutadiene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	Annual Mean	<140		
					Annual Max	<140		
					01/10/2023	ND	140	690
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	Annual Mean	<150		
					Annual Max	<150		
					01/10/2023	ND	150	770
	Isobutyl alcohol	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	Annual Mean	<16000		
					Annual Max	<16000		
					01/10/2023	ND	16000	110000
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	Annual Mean	<17000		
					Annual Max	<17000		
					01/10/2023	ND	17000	120000
	Isobutyl alcohol wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	Annual Mean	<4200		
					Annual Max	<4200		
					01/10/2023	ND	4200	28000
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	Annual Mean	<4600		
					Annual Max	<4600		
					01/10/2023	ND	4600	31000
Isopropylbenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	Annual Mean	<310			
				Annual Max	<310			
				01/10/2023	ND	310	2600	
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	Annual Mean	<340			
				Annual Max	<340			
				01/10/2023	ND	340	2900	
Isopropylbenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	Annual Mean	<81			
				Annual Max	<81			
				01/10/2023	ND	81	690	
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	Annual Mean	<90			
				Annual Max	<90			
				01/10/2023	ND	90	770	
m,p-Xylenes	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	Annual Mean	<840			
				Annual Max	<840			
				01/10/2023	ND	840	2600	
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	Annual Mean	<900			
				Annual Max	<900			
				01/10/2023	ND	900	2900	
m,p-Xylenes wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	Annual Mean	<220			
				Annual Max	<220			
				01/10/2023	ND	220	690	
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	Annual Mean	<240			
				Annual Max	<240			
				01/10/2023	ND	240	770	
Methyl ethyl ketone	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	Annual Mean	<8000			
				Annual Max	<8000			
				01/10/2023	ND	8000	21000	
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	Annual Mean	<8600			
				Annual Max	<8600			
				01/10/2023	ND	8600	23000	
Methyl ethyl ketone wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	Annual Mean	<2100			
				Annual Max	<2100			
				01/10/2023	ND	2100	5600	
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	Annual Mean	<2300			
				Annual Max	<2300			
				01/10/2023	ND	2300	6200	
Methylene Chloride	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	Annual Mean	<730			
				Annual Max	<730			
				01/10/2023	ND	730	2600	
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	Annual Mean	<790			
				Annual Max	<790			
				01/10/2023	ND	790	2900	
Methylene Chloride wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	Annual Mean	<190			
				Annual Max	<190			
				01/10/2023	ND	190	690	
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	Annual Mean	<210			
				Annual Max	<210			
				01/10/2023	ND	210	770	
MIBK	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	Annual Mean	<6500			
				Annual Max	<6500			
				01/10/2023	ND	6500	14000	
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	Annual Mean	<7100			
				Annual Max	<7100			
				01/10/2023	ND	7100	15000	

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	MIBK wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	1700	3600
					Annual Mean	<1700		
					Annual Max	<1700		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	1900	4000
					Annual Mean	<1900		
					Annual Max	<1900		
	Naphthalene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	1800	5300
					Annual Mean	<1800		
					Annual Max	<1800		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	1900	5600
					Annual Mean	<1900		
					Annual Max	<1900		
	Naphthalene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	460	1400
					Annual Mean	<460		
					Annual Max	<460		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	520	1500
					Annual Mean	<520		
					Annual Max	<520		
	n-Butylbenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	840	2600
					Annual Mean	<840		
					Annual Max	<840		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	940	2900
					Annual Mean	<940		
					Annual Max	<940		
	n-Butylbenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	220	690
					Annual Mean	<220		
					Annual Max	<220		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	250	770
					Annual Mean	<250		
					Annual Max	<250		
	n-Propylbenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	1200	2600
					Annual Mean	<1200		
					Annual Max	<1200		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	1300	2900
					Annual Mean	<1300		
					Annual Max	<1300		
	n-Propylbenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	310	690
					Annual Mean	<310		
					Annual Max	<310		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	340	770
					Annual Mean	<340		
					Annual Max	<340		
	o-Xylene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	370	1300
					Annual Mean	<370		
					Annual Max	<370		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	410	1500
					Annual Mean	<410		
					Annual Max	<410		
	o-Xylene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	97	350
					Annual Mean	<97		
					Annual Max	<97		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	110	390
					Annual Mean	<110		
					Annual Max	<110		
	sec-Butylbenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	420	2600
					Annual Mean	<420		
					Annual Max	<420		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	450	2900
					Annual Mean	<450		
					Annual Max	<450		
	sec-Butylbenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	110	690
					Annual Mean	<110		
					Annual Max	<110		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	120	770
					Annual Mean	<120		
					Annual Max	<120		
	Styrene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	1500	3200
					Annual Mean	<1500		
					Annual Max	<1500		
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	1600	3500
					Annual Mean	<1600		
					Annual Max	<1600		
	Styrene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	380	830
					Annual Mean	<380		
					Annual Max	<380		
		EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	420	930
					Annual Mean	<420		
					Annual Max	<420		
	tert-Butylbenzene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	300	2600
					Annual Mean	<300		

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	Annual Max	<300		
					01/10/2023	ND	330	2900
					Annual Mean	<330		
tert-Butylbenzene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	78	690	
				Annual Mean	<78			
				Annual Max	<78			
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	87	770	
				Annual Mean	<87			
				Annual Max	<87			
Tetrachloroethene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	290	2600	
				Annual Mean	<290			
				Annual Max	<290			
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	310	2900	
				Annual Mean	<310			
				Annual Max	<310			
Tetrachloroethene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	75	690	
				Annual Mean	<75			
				Annual Max	<75			
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	84	770	
				Annual Mean	<84			
				Annual Max	<84			
Toluene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	420	2600	
				Annual Mean	<420			
				Annual Max	<420			
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	450	2900	
				Annual Mean	<450			
				Annual Max	<450			
Toluene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	110	690	
				Annual Mean	<110			
				Annual Max	<110			
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	120	770	
				Annual Mean	<120			
				Annual Max	<120			
trans-1,2- Dichloroethene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	460	1300	
				Annual Mean	<460			
				Annual Max	<460			
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	520	1500	
				Annual Mean	<520			
				Annual Max	<520			
trans-1,2- Dichloroethene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	120	350	
				Annual Mean	<120			
				Annual Max	<120			
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	140	390	
				Annual Mean	<140			
				Annual Max	<140			
trans-1,3- Dichloropropene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	1900	4200	
				Annual Mean	<1900			
				Annual Max	<1900			
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	2100	4500	
				Annual Mean	<2100			
				Annual Max	<2100			
trans-1,3- Dichloropropene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	500	1100	
				Annual Mean	<500			
				Annual Max	<500			
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	560	1200	
				Annual Mean	<560			
				Annual Max	<560			
Trichloroethene	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	240	2600	
				Annual Mean	<240			
				Annual Max	<240			
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	270	2900	
				Annual Mean	<270			
				Annual Max	<270			
Trichloroethene wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	64	690	
				Annual Mean	<64			
				Annual Max	<64			
	EPA 8260C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	71	770	
				Annual Mean	<71			
				Annual Max	<71			
Trichlorofluoromet hane	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	530	5300	
				Annual Mean	<530			
				Annual Max	<530			
	EPA 8260C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	560	5600	
				Annual Mean	<560			
				Annual Max	<560			
Trichlorofluoromet hane wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	140	1400	
				Annual Mean	<140			
				Annual Max	<140			
	EPA 8260C	µg/kg	Plant 2	01/10/2023	ND	150	1500	

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Vinyl chloride	EPA 8260C	µg/kg dry	Plant 1 Dewatering Cake	Annual Mean	<150		
					Annual Max	<150		
				01/10/2023	ND	290	5300	
		Plant 2 Dewatering Cake	Annual Mean	<290				
			Annual Max	<290				
			01/10/2023	ND	310	5600		
	Vinyl chloride wet weight	EPA 8260C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	75	1400
					Annual Mean	<75		
				Annual Max	<75			
		Plant 2 Dewatering Cake	01/10/2023	ND	84	1500		
			Annual Mean	<84				
			Annual Max	<84				
Semi-Volatile Organic Compounds	1,2,4-Trichlorobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000
					03/07/2023	ND	7200	40000
					04/04/2023	ND	11000	36000
					05/02/2023	ND	5800	19000
					Annual Mean	<15000		
					Annual Max	<15000		
		Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000		
			03/07/2023	ND	6300	35000		
			04/04/2023	ND	24000	77000		
			05/02/2023	ND	5300	17000		
			Annual Mean	<24000				
			Annual Max	<24000				
	1,2,4-Trichlorobenzene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4000	13000
					03/07/2023	ND	1800	10000
					04/04/2023	ND	2900	9000
					05/02/2023	ND	1400	4500
					Annual Mean	<4000		
					Annual Max	<4000		
		Plant 2 Dewatering Cake	01/10/2023	ND	3900	12000		
			03/07/2023	ND	1800	10000		
			04/04/2023	ND	6600	21000		
			05/02/2023	ND	1400	4400		
			Annual Mean	<6600				
			Annual Max	<6600				
1,2-Dichlorobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	95000	
				03/07/2023	ND	6000	40000	
				04/04/2023	ND	11000	71000	
				05/02/2023	ND	5800	38000	
				Annual Mean	<15000			
				Annual Max	<15000			
	Plant 2 Dewatering Cake	01/10/2023	ND	14000	94000			
		03/07/2023	ND	5200	35000			
		04/04/2023	ND	23000	150000			
		05/02/2023	ND	4900	33000			
		Annual Mean	<23000					
		Annual Max	<23000					
1,2-Dichlorobenzene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3800	25000	
				03/07/2023	ND	1500	10000	
				04/04/2023	ND	2700	18000	
				05/02/2023	ND	1400	9100	
				Annual Mean	<3800			
				Annual Max	<3800			
	Plant 2 Dewatering Cake	01/10/2023	ND	3800	25000			
		03/07/2023	ND	1500	10000			
		04/04/2023	ND	6400	42000			
		05/02/2023	ND	1300	8800			
		Annual Mean	<6400					
		Annual Max	<6400					
1,3-Dichlorobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	27000	50000	
				03/07/2023	ND	5600	40000	
				04/04/2023	ND	20000	36000	
				05/02/2023	ND	11000	19000	
				Annual Mean	<27000			
				Annual Max	<27000			
	Plant 2 Dewatering Cake	01/10/2023	ND	27000	45000			
		03/07/2023	ND	4900	35000			
		04/04/2023	ND	44000	77000			
		05/02/2023	ND	9500	17000			
		Annual Mean	<44000					
		Annual Max	<44000					
1,3-Dichlorobenzene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	7100	13000	
				03/07/2023	ND	1400	10000	
				04/04/2023	ND	5100	9000	
				05/02/2023	ND	2600	4500	
				Annual Mean	<7100			
				Annual Max	<7100			

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL				
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	7100	12000				
					03/07/2023	ND	1400	10000				
					04/04/2023	ND	12000	21000				
					05/02/2023	ND	2500	4400				
					Annual Mean	<12000						
					Annual Max	<12000						
					1,4-Dichlorobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	27000	50000
									03/07/2023	ND	5600	40000
									04/04/2023	ND	20000	36000
									05/02/2023	ND	10000	19000
Annual Mean	<27000											
Annual Max	<27000											
EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	26000	45000						
			03/07/2023	ND	4900	35000						
			04/04/2023	ND	44000	77000						
			05/02/2023	ND	9500	17000						
			Annual Mean	<44000								
			Annual Max	<44000								
1,4-Dichlorobenzene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	7000	13000					
				03/07/2023	ND	1400	10000					
				04/04/2023	ND	5100	9000					
				05/02/2023	ND	2500	4500					
				Annual Mean	<7000							
	Annual Max	<7000										
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	7000	12000					
				03/07/2023	ND	1400	10000					
				04/04/2023	ND	12000	21000					
				05/02/2023	ND	2500	4400					
Annual Mean				<12000								
Annual Max	<12000											
2,4,5-Trichlorophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000					
				03/07/2023	ND	5600	40000					
				04/04/2023	ND	11000	36000					
				05/02/2023	ND	6200	19000					
				Annual Mean	<15000							
	Annual Max	<15000										
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000					
				03/07/2023	ND	4900	35000					
				04/04/2023	ND	24000	77000					
				05/02/2023	ND	5300	17000					
Annual Mean				<24000								
Annual Max	<24000											
2,4,5-Trichlorophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4000	13000					
				03/07/2023	ND	1400	10000					
				04/04/2023	ND	2900	9000					
				05/02/2023	ND	1500	4500					
				Annual Mean	<4000							
	Annual Max	<4000										
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4000	12000					
				03/07/2023	ND	1400	10000					
				04/04/2023	ND	6700	21000					
				05/02/2023	ND	1400	4400					
Annual Mean				<6700								
Annual Max	<6700											
2,4,6-Trichlorophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	19000	50000					
				03/07/2023	ND	6400	40000					
				04/04/2023	ND	14000	36000					
				05/02/2023	ND	7400	19000					
				Annual Mean	<19000							
	Annual Max	<19000										
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	18000	45000					
				03/07/2023	ND	5600	35000					
				04/04/2023	ND	30000	77000					
				05/02/2023	ND	6500	17000					
Annual Mean				<30000								
Annual Max	<30000											
2,4,6-Trichlorophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	5000	13000					
				03/07/2023	ND	1600	10000					
				04/04/2023	ND	3600	9000					
				05/02/2023	ND	1800	4500					
				Annual Mean	<5000							
	Annual Max	<5000										
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4900	12000					
				03/07/2023	ND	1600	10000					
				04/04/2023	ND	8300	21000					
				05/02/2023	ND	1700	4400					
Annual Mean				<8300								
Annual Max	<8300											
2,4-Dichlorophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000					
				03/07/2023	ND	8400	40000					

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL			
					04/04/2023	ND	11000	36000			
					05/02/2023	ND	5800	19000			
					Annual Mean	<15000					
					Annual Max	<15000					
					EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000
					03/07/2023			ND	7300	35000	
					04/04/2023			ND	24000	77000	
					05/02/2023			ND	5300	17000	
	Annual Mean	<24000									
	Annual Max	<24000									
	2,4-Dichlorophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023			ND	3900	13000	
		03/07/2023			ND			2100	10000		
		04/04/2023			ND	2800	9000				
		05/02/2023			ND	1400	4500				
		Annual Mean			<3900						
		Annual Max			<3900						
EPA 8270C		µg/kg			Plant 2 Dewatering Cake	01/10/2023	ND	3900	12000		
03/07/2023						ND	2100	10000			
04/04/2023	ND		6600	21000							
05/02/2023	ND		1400	4400							
Annual Mean	<6600										
Annual Max	<6600										
2,4-Dimethylphenol	EPA 8270C		µg/kg dry	Plant 1 Dewatering Cake		03/07/2023	ND	3700	40000		
	04/04/2023					ND	11000	36000			
	05/02/2023	ND			5800	19000					
	Annual Mean	<11000									
	Annual Max	<11000									
	EPA 8270C	µg/kg dry			Plant 2 Dewatering Cake	03/07/2023	ND	3200	35000		
	04/04/2023					ND	23000	77000			
	05/02/2023					ND	4900	17000			
Annual Mean	<23000										
Annual Max	<23000										
2,4-Dimethylphenol wet weight	EPA 8270C		µg/kg	Plant 1 Dewatering Cake		03/07/2023	ND	910	10000		
	04/04/2023					ND	2700	9000			
	05/02/2023					ND	1400	4500			
	Annual Mean	<2700									
	Annual Max	<2700									
	EPA 8270C	µg/kg			Plant 2 Dewatering Cake	03/07/2023	ND	910	10000		
	04/04/2023					ND	6300	21000			
	05/02/2023					ND	1300	4400			
Annual Mean	<6300										
Annual Max	<6300										
2,4-Dinitrophenol	EPA 8270C		µg/kg dry	Plant 1 Dewatering Cake		01/10/2023	ND	130000	500000		
	03/07/2023					ND	130000	160000			
	04/04/2023					ND	99000	360000			
	05/02/2023	ND			50000	190000					
	Annual Mean	<130000									
	Annual Max	<130000									
	EPA 8270C	µg/kg dry			Plant 2 Dewatering Cake	01/10/2023	ND	130000	450000		
	03/07/2023					ND	110000	140000			
	04/04/2023		ND	210000		770000					
	05/02/2023		ND	46000		170000					
	Annual Mean		<210000								
	Annual Max		<210000								
2,4-Dinitrophenol wet weight	EPA 8270C		µg/kg	Plant 1 Dewatering Cake		01/10/2023	ND	34000	130000		
	03/07/2023					ND	32000	40000			
	04/04/2023	ND			25000	90000					
	05/02/2023	ND			12000	45000					
	Annual Mean	<34000									
	Annual Max	<34000									
	EPA 8270C	µg/kg			Plant 2 Dewatering Cake	01/10/2023	ND	34000	120000		
	03/07/2023					ND	32000	40000			
	04/04/2023		ND	57000		210000					
	05/02/2023		ND	12000		44000					
	Annual Mean		<57000								
	Annual Max		<57000								
2,4-Dinitrotoluene	EPA 8270C		µg/kg dry	Plant 1 Dewatering Cake		01/10/2023	ND	1400	3800		
	03/07/2023					ND	8400	40000			
	05/02/2023	ND			7000	19000					
	Annual Mean	<8400									
	Annual Max	<8400									
	EPA 8270C	µg/kg dry			Plant 2 Dewatering Cake	01/10/2023	ND	1300	3700		
	03/07/2023					ND	7300	35000			
	05/02/2023					ND	6100	17000			
	Annual Mean		<7300								
	Annual Max		<7300								
	2,4-Dinitrotoluene wet weight		EPA 8270C	µg/kg		Plant 1 Dewatering Cake	01/10/2023	ND	360	1000	
			03/07/2023				ND	2100	10000		
05/02/2023			ND				1700	4500			
Annual Mean		<2100									

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	Annual Max	<2100		
					01/10/2023	ND	360	1000
					03/07/2023	ND	2100	10000
					05/02/2023	ND	1600	4400
					Annual Mean	<2100		
	Annual Max	<2100						
	2,6-Dinitrotoluene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	17000	50000
					03/07/2023	ND	4800	40000
					04/04/2023	ND	13000	36000
					05/02/2023	ND	6600	19000
					Annual Mean	<17000		
		Annual Max	<17000					
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16000	45000
					03/07/2023	ND	4200	35000
					04/04/2023	ND	27000	77000
					05/02/2023	ND	6100	17000
	Annual Mean				<27000			
	Annual Max	<27000						
	2,6-Dinitrotoluene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4500	13000
					03/07/2023	ND	1200	10000
04/04/2023					ND	3200	9000	
05/02/2023					ND	1600	4500	
Annual Mean					<4500			
Annual Max		<4500						
EPA 8270C		µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4400	12000	
				03/07/2023	ND	1200	10000	
				04/04/2023	ND	7500	21000	
				05/02/2023	ND	1600	4400	
	Annual Mean			<7500				
Annual Max	<7500							
2-Chloronaphthalene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	17000	50000	
				03/07/2023	ND	4400	40000	
				04/04/2023	ND	12000	36000	
				05/02/2023	ND	6600	19000	
				Annual Mean	<17000			
	Annual Max	<17000						
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16000	45000	
				03/07/2023	ND	3800	35000	
				04/04/2023	ND	27000	77000	
				05/02/2023	ND	5700	17000	
Annual Mean				<27000				
Annual Max	<27000							
2-Chloronaphthalene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4400	13000	
				03/07/2023	ND	1100	10000	
				04/04/2023	ND	3100	9000	
				05/02/2023	ND	1600	4500	
				Annual Mean	<4400			
	Annual Max	<4400						
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4300	12000	
				03/07/2023	ND	1100	10000	
				04/04/2023	ND	7300	21000	
				05/02/2023	ND	1500	4400	
Annual Mean				<7300				
Annual Max	<7300							
2-Chlorophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	26000	50000	
				03/07/2023	ND	8000	40000	
				04/04/2023	ND	19000	36000	
				05/02/2023	ND	10000	19000	
				Annual Mean	<26000			
	Annual Max	<26000						
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	25000	45000	
				03/07/2023	ND	7000	35000	
				04/04/2023	ND	40000	77000	
				05/02/2023	ND	9100	17000	
Annual Mean				<40000				
Annual Max	<40000							
2-Chlorophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	6800	13000	
				03/07/2023	ND	2000	10000	
				04/04/2023	ND	4900	9000	
				05/02/2023	ND	2500	4500	
				Annual Mean	<6800			
	Annual Max	<6800						
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	6800	12000	
				03/07/2023	ND	2000	10000	
				04/04/2023	ND	11000	21000	
				05/02/2023	ND	2400	4400	
Annual Mean				<11000				
Annual Max	<11000							
2-Methylnaphthalene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	13000	95000	
				03/07/2023	ND	4400	40000	

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL			
	e				04/04/2023	ND	9900	71000			
					05/02/2023	ND	5400	38000			
					Annual Mean	<13000					
					Annual Max	<13000					
					EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	13000	94000
								03/07/2023	ND	3800	35000
			04/04/2023	ND	21000	150000					
			05/02/2023	ND	4600	33000					
			Annual Mean	<21000							
			Annual Max	<21000							
	2-Methylnaphthalene wet weight	EPA 8270C	µg/kg		Plant 1 Dewatering Cake	01/10/2023	ND	3500	25000		
						03/07/2023	ND	1100	10000		
						04/04/2023	ND	2500	18000		
						05/02/2023	ND	1300	9100		
						Annual Mean	<3500				
						Annual Max	<3500				
		EPA 8270C	µg/kg		Plant 2 Dewatering Cake	01/10/2023	ND	3500	25000		
						03/07/2023	ND	1100	10000		
04/04/2023						ND	5800	42000			
05/02/2023						ND	1200	8800			
Annual Mean						<5800					
Annual Max						<5800					
2-Methylphenol	EPA 8270C	µg/kg dry		Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000			
					03/07/2023	ND	7600	40000			
					04/04/2023	ND	11000	36000			
					05/02/2023	ND	5800	19000			
					Annual Mean	<15000					
					Annual Max	<15000					
	EPA 8270C	µg/kg dry		Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000			
					03/07/2023	ND	6600	35000			
					04/04/2023	ND	24000	77000			
					05/02/2023	ND	5300	17000			
					Annual Mean	<24000					
					Annual Max	<24000					
2-Methylphenol wet weight	EPA 8270C	µg/kg		Plant 1 Dewatering Cake	01/10/2023	ND	3900	13000			
					03/07/2023	ND	1900	10000			
					04/04/2023	ND	2800	9000			
					05/02/2023	ND	1400	4500			
					Annual Mean	<3900					
					Annual Max	<3900					
	EPA 8270C	µg/kg		Plant 2 Dewatering Cake	01/10/2023	ND	3900	12000			
					03/07/2023	ND	1900	10000			
					04/04/2023	ND	6500	21000			
					05/02/2023	ND	1400	4400			
					Annual Mean	<6500					
					Annual Max	<6500					
2-Nitroaniline	EPA 8270C	µg/kg dry		Plant 1 Dewatering Cake	01/10/2023	ND	14000	50000			
					03/07/2023	ND	5200	40000			
					04/04/2023	ND	11000	36000			
					05/02/2023	ND	5800	19000			
					Annual Mean	<14000					
					Annual Max	<14000					
	EPA 8270C	µg/kg dry		Plant 2 Dewatering Cake	01/10/2023	ND	14000	45000			
					03/07/2023	ND	4500	35000			
					04/04/2023	ND	23000	77000			
					05/02/2023	ND	4900	17000			
					Annual Mean	<23000					
					Annual Max	<23000					
2-Nitroaniline wet weight	EPA 8270C	µg/kg		Plant 1 Dewatering Cake	01/10/2023	ND	3700	13000			
					03/07/2023	ND	1300	10000			
					04/04/2023	ND	2700	9000			
					05/02/2023	ND	1400	4500			
					Annual Mean	<3700					
					Annual Max	<3700					
	EPA 8270C	µg/kg		Plant 2 Dewatering Cake	01/10/2023	ND	3700	12000			
					03/07/2023	ND	1300	10000			
					04/04/2023	ND	6300	21000			
					05/02/2023	ND	1300	4400			
					Annual Mean	<6300					
					Annual Max	<6300					
2-Nitrophenol	EPA 8270C	µg/kg dry		Plant 1 Dewatering Cake	01/10/2023	ND	35000	50000			
					03/07/2023	ND	8800	40000			
					04/04/2023	ND	26000	36000			
					05/02/2023	ND	14000	19000			
					Annual Mean	<35000					
					Annual Max	<35000					
	EPA 8270C	µg/kg dry		Plant 2 Dewatering Cake	01/10/2023	ND	35000	45000			
					03/07/2023	ND	7700	35000			
					04/04/2023	ND	58000	77000			
					05/02/2023	ND	13000	17000			

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
2-Nitrophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	Annual Mean	<58000			
				Annual Max	<58000			
				01/10/2023	ND	9300	13000	
				03/07/2023	ND	2200	10000	
				04/04/2023	ND	6700	9000	
				05/02/2023	ND	3400	4500	
				Annual Mean	<9300			
	Annual Max	<9300						
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	9300	12000	
				03/07/2023	ND	2200	10000	
				04/04/2023	ND	16000	21000	
				05/02/2023	ND	3300	4400	
				Annual Mean	<16000			
				Annual Max	<16000			
Annual Max				<16000				
3&4-Methylphenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	14000	95000	
				03/07/2023	ND	17000	80000	
				04/04/2023	ND	11000	71000	
				05/02/2023	ND	5800	38000	
				Annual Mean	<17000			
	Annual Max	<17000						
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	14000	94000	
				03/07/2023	ND	15000	70000	
				04/04/2023	ND	23000	150000	
				05/02/2023	22000 DNQ	4900	33000	
Annual Mean				18000 DNQ				
Annual Max	22000 DNQ							
3&4-Methylphenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3700	25000	
				03/07/2023	ND	4300	20000	
				04/04/2023	ND	2700	18000	
				05/02/2023	ND	1400	9100	
				Annual Mean	<4300			
	Annual Max	<4300						
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3700	25000	
				03/07/2023	ND	4300	20000	
				04/04/2023	ND	6200	42000	
				05/02/2023	5900 DNQ	1300	8800	
Annual Mean				5000 DNQ				
Annual Max	5900 DNQ							
3,3-Dichlorobenzidine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	13000	50000	
				04/04/2023	ND	9900	36000	
				05/02/2023	ND	5000	19000	
				Annual Mean	<13000			
				Annual Max	<13000			
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	13000	45000	
				04/04/2023	ND	21000	77000	
				05/02/2023	ND	4600	17000	
				Annual Mean	<21000			
				Annual Max	<21000			
3,3-Dichlorobenzidine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3400	13000	
				04/04/2023	ND	2500	9000	
				05/02/2023	ND	1200	4500	
				Annual Mean	<3400			
				Annual Max	<3400			
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3400	12000	
				04/04/2023	ND	5800	21000	
				05/02/2023	ND	1200	4400	
				Annual Mean	<5800			
				Annual Max	<5800			
3-Nitroaniline	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16000	50000	
				03/07/2023	ND	9600	40000	
				04/04/2023	ND	11000	36000	
				05/02/2023	ND	6200	19000	
				Annual Mean	<16000			
	Annual Max	<16000						
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000	
				03/07/2023	ND	8400	35000	
				04/04/2023	ND	25000	77000	
				05/02/2023	ND	5300	17000	
Annual Mean				<25000				
Annual Max	<25000							
3-Nitroaniline wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4100	13000	
				03/07/2023	ND	2400	10000	
				04/04/2023	ND	2900	9000	
				05/02/2023	ND	1500	4500	
				Annual Mean	<4100			
	Annual Max	<4100						
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4100	12000	
				03/07/2023	ND	2400	10000	
				04/04/2023	ND	6800	21000	
				05/02/2023	ND	1400	4400	
Annual Mean				<4100				
Annual Max	<4100							

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL		
4,6-Dinitro-2-methylphenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	Annual Mean	<6800					
				Annual Max	<6800					
				01/10/2023	ND	99000	500000			
				03/07/2023	ND	76000	200000			
				04/04/2023	ND	75000	360000			
				05/02/2023	ND	39000	190000			
				Annual Mean	<99000					
				Annual Max	<99000					
				EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	97000	450000
							03/07/2023	ND	66000	170000
	04/04/2023	ND	160000				770000			
	05/02/2023	ND	35000				170000			
	Annual Mean	<160000								
	Annual Max	<160000								
	EPA 8270C	µg/kg	Plant 1 Dewatering Cake				01/10/2023	ND	26000	130000
							03/07/2023	ND	19000	50000
							04/04/2023	ND	19000	90000
							05/02/2023	ND	9500	45000
				Annual Mean	<26000					
				Annual Max	<26000					
EPA 8270C				µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	26000	120000	
						03/07/2023	ND	19000	50000	
						04/04/2023	ND	44000	210000	
						05/02/2023	ND	9200	44000	
	Annual Mean	<44000								
	Annual Max	<44000								
	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake			01/10/2023	ND	17000	50000	
						03/07/2023	ND	4800	40000	
						04/04/2023	ND	13000	36000	
						05/02/2023	ND	6600	19000	
Annual Mean				<17000						
Annual Max				<17000						
EPA 8270C				µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16000	45000	
						03/07/2023	ND	4200	35000	
						04/04/2023	ND	27000	77000	
						05/02/2023	ND	6100	17000	
	Annual Mean	<27000								
	Annual Max	<27000								
	EPA 8270C	µg/kg	Plant 1 Dewatering Cake			01/10/2023	ND	4500	13000	
						03/07/2023	ND	1200	10000	
						04/04/2023	ND	3200	9000	
						05/02/2023	ND	1600	4500	
Annual Mean				<4500						
Annual Max				<4500						
EPA 8270C				µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4400	12000	
						03/07/2023	ND	1200	10000	
						04/04/2023	ND	7500	21000	
						05/02/2023	ND	1600	4400	
	Annual Mean	<7500								
	Annual Max	<7500								
	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake			01/10/2023	ND	14000	50000	
						03/07/2023	ND	6800	40000	
						04/04/2023	ND	10000	36000	
						05/02/2023	ND	5400	19000	
Annual Mean				<14000						
Annual Max				<14000						
EPA 8270C				µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	13000	45000	
						03/07/2023	ND	5900	35000	
						04/04/2023	ND	22000	77000	
						05/02/2023	ND	4900	17000	
	Annual Mean	<22000								
	Annual Max	<22000								
	EPA 8270C	µg/kg	Plant 1 Dewatering Cake			01/10/2023	ND	3700	13000	
						03/07/2023	ND	1700	10000	
						04/04/2023	ND	2600	9000	
						05/02/2023	ND	1300	4500	
Annual Mean				<3700						
Annual Max				<3700						
EPA 8270C				µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3600	12000	
						03/07/2023	ND	1700	10000	
						04/04/2023	ND	6100	21000	
						05/02/2023	ND	1300	4400	
	Annual Mean	<6100								
	Annual Max	<6100								
	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake			01/10/2023	ND	9900	95000	
						03/07/2023	ND	5600	40000	
						04/04/2023	ND	7100	71000	
						05/02/2023	ND	3800	38000	
Annual Mean				<9900						
Annual Max				<9900						

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	01/10/2023	ND	9400	94000
					03/07/2023	ND	4900	35000
					04/04/2023	ND	16000	150000
					05/02/2023	ND	3400	33000
					Annual Mean	<16000		
					Annual Max	<16000		
	4-Chloroaniline wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	2600	25000
					03/07/2023	ND	1400	10000
					04/04/2023	ND	1800	18000
					05/02/2023	ND	930	9100
					Annual Mean	<2600		
					Annual Max	<2600		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	2500	25000
					03/07/2023	ND	1400	10000
					04/04/2023	ND	4300	42000
					05/02/2023	ND	900	8800
					Annual Mean	<4300		
					Annual Max	<4300		
4-Chlorophenyl phenyl ether	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000	
				03/07/2023	ND	5600	40000	
				04/04/2023	ND	11000	36000	
				05/02/2023	ND	5800	19000	
				Annual Mean	<15000			
	Annual Max	<15000						
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000	
				03/07/2023	ND	4900	35000	
				04/04/2023	ND	24000	77000	
				05/02/2023	ND	5300	17000	
Annual Mean				<24000				
Annual Max	<24000							
4-Chlorophenyl phenyl ether wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4000	13000	
				03/07/2023	ND	1400	10000	
				04/04/2023	ND	2900	9000	
				05/02/2023	ND	1400	4500	
				Annual Mean	<4000			
	Annual Max	<4000						
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4000	12000	
				03/07/2023	ND	1400	10000	
				04/04/2023	ND	6700	21000	
				05/02/2023	ND	1400	4400	
Annual Mean				<6700				
Annual Max	<6700							
4-Nitroaniline	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16000	50000	
				03/07/2023	ND	8400	40000	
				04/04/2023	ND	12000	36000	
				05/02/2023	ND	6200	19000	
				Annual Mean	<16000			
	Annual Max	<16000						
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000	
				03/07/2023	ND	7300	35000	
				04/04/2023	ND	25000	77000	
				05/02/2023	ND	5300	17000	
Annual Mean				<25000				
Annual Max	<25000							
4-Nitroaniline wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4100	13000	
				03/07/2023	ND	2100	10000	
				04/04/2023	ND	3000	9000	
				05/02/2023	ND	1500	4500	
				Annual Mean	<4100			
	Annual Max	<4100						
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4100	12000	
				03/07/2023	ND	2100	10000	
				04/04/2023	ND	6900	21000	
				05/02/2023	ND	1400	4400	
Annual Mean				<6900				
Annual Max	<6900							
4-Nitrophenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	69000	95000	
				03/07/2023	ND	13000	40000	
				04/04/2023	ND	51000	71000	
				05/02/2023	ND	28000	38000	
				Annual Mean	<69000			
	Annual Max	<69000						
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	67000	94000	
				03/07/2023	ND	12000	35000	
				04/04/2023	ND	110000	150000	
				05/02/2023	ND	24000	33000	
Annual Mean				<110000				
Annual Max	<110000							
4-Nitrophenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	18000	25000	
				03/07/2023	ND	3300	10000	

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
					04/04/2023	ND	13000	18000	
					05/02/2023	ND	6700	9100	
					Annual Mean	<18000			
					Annual Max	<18000			
					01/10/2023	ND	18000	25000	
					03/07/2023	ND	3400	10000	
					04/04/2023	ND	31000	42000	
					05/02/2023	ND	6400	8800	
	Annual Mean	<31000							
	Annual Max	<31000							
	Acenaphthene	EPA 8270C		µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000
						03/07/2023	ND	4400	40000
						04/04/2023	ND	11000	36000
						05/02/2023	ND	5800	19000
		Annual Mean	<15000						
		Annual Max	<15000						
EPA 8270C			µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	14000	45000	
					03/07/2023	ND	3800	35000	
	04/04/2023				ND	23000	77000		
	05/02/2023				ND	4900	17000		
Annual Mean	<23000								
Annual Max	<23000								
Acenaphthene wet weight	EPA 8270C		µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3800	13000	
					03/07/2023	ND	1100	10000	
					04/04/2023	ND	2700	9000	
					05/02/2023	ND	1400	4500	
	Annual Mean	<3800							
	Annual Max	<3800							
	EPA 8270C		µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3800	12000	
					03/07/2023	ND	1100	10000	
04/04/2023					ND	6300	21000		
05/02/2023					ND	1300	4400		
Annual Mean	<6300								
Annual Max	<6300								
Acenaphthylene	EPA 8270C		µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000	
					03/07/2023	ND	7600	40000	
					04/04/2023	ND	11000	36000	
					05/02/2023	ND	6200	19000	
	Annual Mean	<15000							
	Annual Max	<15000							
	EPA 8270C		µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000	
					03/07/2023	ND	6600	35000	
04/04/2023					ND	24000	77000		
05/02/2023					ND	5300	17000		
Annual Mean	<24000								
Annual Max	<24000								
Acenaphthylene wet weight	EPA 8270C		µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4000	13000	
					03/07/2023	ND	1900	10000	
					04/04/2023	ND	2900	9000	
					05/02/2023	ND	1500	4500	
	Annual Mean	<4000							
	Annual Max	<4000							
	EPA 8270C		µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4000	12000	
					03/07/2023	ND	1900	10000	
04/04/2023					ND	6700	21000		
05/02/2023					ND	1400	4400		
Annual Mean	<6700								
Annual Max	<6700								
Aniline	EPA 8270C		µg/kg dry	Plant 1 Dewatering Cake	03/07/2023	ND	9200	40000	
					Annual Mean	<9200			
	EPA 8270C		µg/kg dry	Plant 2 Dewatering Cake	03/07/2023	ND	8000	35000	
					Annual Mean	<8000			
Aniline wet weight	EPA 8270C		µg/kg	Plant 1 Dewatering Cake	03/07/2023	ND	2300	10000	
					Annual Mean	<2300			
	EPA 8270C		µg/kg	Plant 2 Dewatering Cake	03/07/2023	ND	2300	10000	
					Annual Mean	<2300			
Anthracene	EPA 8270C		µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16000	50000	
					03/07/2023	ND	4000	40000	
					04/04/2023	ND	12000	36000	
					05/02/2023	ND	6200	19000	
	Annual Mean	<16000							
	Annual Max	<16000							
	EPA 8270C		µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000	
					03/07/2023	ND	3500	35000	
04/04/2023					ND	25000	77000		
05/02/2023					ND	5700	17000		

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL		
Anthracene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	Annual Mean	<25000					
				Annual Max	<25000					
				01/10/2023	ND	4100	13000			
				03/07/2023	ND	1000	10000			
				04/04/2023	ND	3000	9000			
				05/02/2023	ND	1500	4500			
				Annual Mean	<4100					
				Annual Max	<4100					
				EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4100	12000
							03/07/2023	ND	1000	10000
	04/04/2023	ND	6900				21000			
	05/02/2023	ND	1500				4400			
	Annual Mean	<6900								
	Annual Max	<6900								
	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake				01/10/2023	ND	28000	50000
							03/07/2023	ND	12000	40000
							04/04/2023	ND	21000	36000
							05/02/2023	ND	11000	19000
				Annual Mean	<28000					
				Annual Max	<28000					
EPA 8270C				µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	27000	45000	
						03/07/2023	ND	10000	35000	
						04/04/2023	ND	44000	77000	
						05/02/2023	ND	9900	17000	
	Annual Mean	<44000								
	Annual Max	<44000								
	EPA 8270C	µg/kg	Plant 1 Dewatering Cake			01/10/2023	ND	7400	13000	
						03/07/2023	ND	2900	10000	
						04/04/2023	ND	5300	9000	
						05/02/2023	ND	2700	4500	
Annual Mean				<7400						
Annual Max				<7400						
EPA 8270C				µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	7300	12000	
						03/07/2023	ND	2900	10000	
						04/04/2023	ND	12000	21000	
						05/02/2023	ND	2600	4400	
	Annual Mean	<12000								
	Annual Max	<12000								
	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake			01/10/2023	ND	16000	50000	
						03/07/2023	ND	3700	40000	
						04/04/2023	ND	12000	36000	
						05/02/2023	ND	6200	19000	
Annual Mean				<16000						
Annual Max				<16000						
EPA 8270C				µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16000	45000	
						03/07/2023	ND	3200	35000	
						04/04/2023	ND	26000	77000	
						05/02/2023	ND	5700	17000	
	Annual Mean	<26000								
	Annual Max	<26000								
	EPA 8270C	µg/kg	Plant 1 Dewatering Cake			01/10/2023	ND	4300	13000	
						03/07/2023	ND	910	10000	
						04/04/2023	ND	3100	9000	
						05/02/2023	ND	1500	4500	
Annual Mean				<4300						
Annual Max				<4300						
EPA 8270C				µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4200	12000	
						03/07/2023	ND	910	10000	
						04/04/2023	ND	7200	21000	
						05/02/2023	ND	1500	4400	
	Annual Mean	<7200								
	Annual Max	<7200								
	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake			05/02/2023	ND	18000	110000	
						Annual Mean	<18000			
						Annual Max	<18000			
						EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	05/02/2023	ND
Annual Mean				<16000						
Annual Max				<16000						
EPA 8270C	µg/kg	Plant 1 Dewatering Cake	05/02/2023	ND	4300	27000				
			Annual Mean	<4300						
			Annual Max	<4300						
			EPA 8270C	µg/kg	Plant 2 Dewatering Cake	05/02/2023	ND	4200	26000	
Annual Mean	<4200									
Annual Max	<4200									
EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake				01/10/2023	ND	16000	50000	
			03/07/2023	ND	6000	40000				
			04/04/2023	ND	12000	36000				
			05/02/2023	ND	6600	19000				
			Annual Mean	<16000						
			Annual Max	<16000						

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16000	45000
					03/07/2023	ND	5200	35000
					04/04/2023	ND	27000	77000
					05/02/2023	ND	5700	17000
					Annual Mean	<27000		
	Annual Max	<27000						
	Benzo(a)pyrene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4300	13000
					03/07/2023	ND	1500	10000
					04/04/2023	ND	3100	9000
					05/02/2023	ND	1600	4500
					Annual Mean	<4300		
	Annual Max	<4300						
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4300	12000
					03/07/2023	ND	1500	10000
					04/04/2023	ND	7300	21000
					05/02/2023	ND	1500	4400
					Annual Mean	<7300		
	Annual Max	<7300						
	Benzo(b)fluoranthene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000
					03/07/2023	ND	6400	40000
04/04/2023					ND	11000	36000	
05/02/2023					ND	5800	19000	
Annual Mean					<15000			
Annual Max		<15000						
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000
					03/07/2023	ND	5600	35000
					04/04/2023	ND	24000	77000
					05/02/2023	ND	5300	17000
	Annual Mean				<24000			
Annual Max	<24000							
Benzo(b)fluoranthene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3900	13000	
				03/07/2023	ND	1600	10000	
				04/04/2023	ND	2800	9000	
				05/02/2023	ND	1400	4500	
				Annual Mean	<3900			
	Annual Max	<3900						
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3900	12000
					03/07/2023	ND	1600	10000
					04/04/2023	ND	6600	21000
					05/02/2023	ND	1400	4400
Annual Mean					<6600			
Annual Max	<6600							
Benzo(g,h,i)perylene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16000	50000	
				03/07/2023	ND	6800	40000	
				04/04/2023	ND	12000	36000	
				05/02/2023	ND	6600	19000	
				Annual Mean	<16000			
	Annual Max	<16000						
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16000	45000
					03/07/2023	ND	5900	35000
					04/04/2023	ND	26000	77000
					05/02/2023	ND	5700	17000
Annual Mean					<26000			
Annual Max	<26000							
Benzo(g,h,i)perylene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4300	13000	
				03/07/2023	ND	1700	10000	
				04/04/2023	ND	3100	9000	
				05/02/2023	ND	1600	4500	
				Annual Mean	<4300			
	Annual Max	<4300						
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4300	12000
					03/07/2023	ND	1700	10000
					04/04/2023	ND	7200	21000
					05/02/2023	ND	1500	4400
Annual Mean					<7200			
Annual Max	<7200							
Benzo(k)fluoranthene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	17000	50000	
				03/07/2023	ND	7600	40000	
				04/04/2023	ND	13000	36000	
				05/02/2023	ND	6600	19000	
				Annual Mean	<17000			
	Annual Max	<17000						
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	17000	45000
					03/07/2023	ND	6600	35000
					04/04/2023	ND	28000	77000
					05/02/2023	ND	6100	17000
Annual Mean					<28000			
Annual Max	<28000							
Benzo(k)fluoranthene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4500	13000	
				03/07/2023	ND	1900	10000	

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL			
					04/04/2023	ND	3300	9000			
					05/02/2023	ND	1600	4500			
					Annual Mean	<4500					
					Annual Max	<4500					
					EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4500	12000
					03/07/2023			ND	1900	10000	
					04/04/2023			ND	7600	21000	
					05/02/2023			ND	1600	4400	
					Annual Mean			<7600			
					Annual Max			<7600			
	Benzoic acid	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	53000	190000			
					03/07/2023	ND	130000	200000			
					04/04/2023	ND	40000	140000			
					05/02/2023	ND	21000	74000			
		Annual Mean	<130000								
		Annual Max	<130000								
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	52000	190000			
					03/07/2023	ND	110000	170000			
	04/04/2023				ND	84000	310000				
	05/02/2023				ND	19000	68000				
Annual Mean	<110000										
Annual Max	<110000										
Benzoic acid wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	14000	50000				
				03/07/2023	ND	32000	50000				
				04/04/2023	ND	10000	36000				
				05/02/2023	ND	5100	18000				
				Annual Mean	<32000						
	Annual Max	<32000									
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	14000	50000				
				03/07/2023	ND	32000	50000				
				04/04/2023	ND	23000	84000				
				05/02/2023	ND	4900	18000				
Annual Mean				<32000							
Annual Max	<32000										
Benzyl alcohol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000				
				03/07/2023	ND	6800	40000				
				04/04/2023	ND	11000	36000				
				05/02/2023	ND	5800	19000				
				Annual Mean	<15000						
	Annual Max	<15000									
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	14000	45000				
				03/07/2023	ND	5900	35000				
				04/04/2023	ND	24000	77000				
				05/02/2023	ND	5300	17000				
Annual Mean				<24000							
Annual Max	<24000										
Benzyl alcohol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3900	13000				
				03/07/2023	ND	1700	10000				
				04/04/2023	ND	2800	9000				
				05/02/2023	ND	1400	4500				
				Annual Mean	<3900						
	Annual Max	<3900									
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3800	12000				
				03/07/2023	ND	1700	10000				
				04/04/2023	ND	6500	21000				
				05/02/2023	ND	1400	4400				
Annual Mean				<6500							
Annual Max	<6500										
Bis(2-chloroethoxy)met hane	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	14000	50000				
				03/07/2023	ND	4800	40000				
				04/04/2023	ND	10000	36000				
				05/02/2023	ND	5400	19000				
				Annual Mean	<14000						
	Annual Max	<14000									
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	13000	45000				
				03/07/2023	ND	4200	35000				
				04/04/2023	ND	22000	77000				
				05/02/2023	ND	4900	17000				
Annual Mean				<22000							
Annual Max	<22000										
Bis(2-chloroethoxy)met hane wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3600	13000				
				03/07/2023	ND	1200	10000				
				04/04/2023	ND	2600	9000				
				05/02/2023	ND	1300	4500				
				Annual Mean	<3600						
	Annual Max	<3600									
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3600	12000				
				03/07/2023	ND	1200	10000				
				04/04/2023	ND	6100	21000				
				05/02/2023	ND	1300	4400				
Annual Mean				<3600							
Annual Max	<3600										

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
Bis(2-chloroethyl)ether	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	Annual Mean	<6100			
				Annual Max	<6100			
				01/10/2023	ND	16000	50000	
				03/07/2023	ND	8000	200000	
				04/04/2023	ND	12000	36000	
				05/02/2023	ND	6600	19000	
				Annual Mean	<16000			
	Annual Max	<16000						
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16000	45000	
				03/07/2023	ND	7000	170000	
				04/04/2023	ND	26000	77000	
				05/02/2023	ND	5700	17000	
				Annual Mean	<26000			
				Annual Max	<26000			
Bis(2-chloroethyl)ether wet weight				EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND
	03/07/2023	ND	2000				50000	
	04/04/2023	ND	3100				9000	
	05/02/2023	ND	1600				4500	
	Annual Mean	<4300						
	Annual Max	<4300						
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake				01/10/2023	ND
				03/07/2023	ND	2000	50000	
				04/04/2023	ND	7200	21000	
				05/02/2023	ND	1500	4400	
				Annual Mean	<7200			
				Annual Max	<7200			
				Bis(2-chloroisopropyl)ether	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023
	03/07/2023	ND	4800					40000
04/04/2023	ND	11000	36000					
05/02/2023	ND	5800	19000					
Annual Mean	<15000							
Annual Max	<15000							
EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023					ND
			03/07/2023		ND	4200	35000	
			04/04/2023		ND	23000	77000	
			05/02/2023		ND	4900	17000	
			Annual Mean		<23000			
			Annual Max		<23000			
			Bis(2-chloroisopropyl)ether wet weight		EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023
03/07/2023	ND	1200						10000
04/04/2023	ND	2800		9000				
05/02/2023	ND	1400		4500				
Annual Mean	<3800							
Annual Max	<3800							
EPA 8270C	µg/kg	Plant 2 Dewatering Cake		01/10/2023				ND
				03/07/2023	ND	1200	10000	
				04/04/2023	ND	6400	21000	
				05/02/2023	ND	1300	4400	
				Annual Mean	<6400			
				Annual Max	<6400			
				Bis(2-ethylhexyl)phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023
03/07/2023	38000 DNQ	20000						40000
04/04/2023	31000 DNQ	13000	36000					
05/02/2023	33000	6600	19000					
Annual Mean	30000 DNQ							
Annual Max	33000							
EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023					ND
			03/07/2023		33000 DNQ	17000	35000	
			04/04/2023		ND	28000	77000	
			05/02/2023		31000	6100	17000	
			Annual Mean		27000 DNQ			
			Annual Max		31000			
			Bis(2-ethylhexyl)phthalate wet weight		EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023
03/07/2023	9400 DNQ	5000						10000
04/04/2023	7900 DNQ	3300		9000				
05/02/2023	7900	1600		4500				
Annual Mean	7400 DNQ							
Annual Max	7900							
EPA 8270C	µg/kg	Plant 2 Dewatering Cake		01/10/2023				ND
				03/07/2023	9500 DNQ	5000	10000	
				04/04/2023	ND	7600	21000	
				05/02/2023	8100	1600	4400	
				Annual Mean	7400 DNQ			
				Annual Max	8100			
				Butyl benzyl phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023
03/07/2023	ND	18000						40000
04/04/2023	ND	12000	36000					
05/02/2023	ND	6200	19000					
Annual Mean	<18000							
Annual Max	<18000							

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	01/10/2023	ND	15000	45000
					03/07/2023	ND	15000	35000
					04/04/2023	ND	26000	77000
					05/02/2023	ND	5700	17000
					Annual Mean	<26000		
					Annual Max	<26000		
	Butyl benzyl phthalate wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4200	13000
					03/07/2023	ND	4400	10000
					04/04/2023	ND	3000	9000
					05/02/2023	ND	1500	4500
					Annual Mean	<4400		
					Annual Max	<4400		
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4100	12000
					03/07/2023	ND	4400	10000
					04/04/2023	ND	7000	21000
					05/02/2023	ND	1500	4400
					Annual Mean	<7000		
					Annual Max	<7000		
	Chrysene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	17000	50000
					03/07/2023	ND	5200	40000
04/04/2023					ND	13000	36000	
05/02/2023					ND	6600	19000	
Annual Mean					<17000			
Annual Max		<17000						
EPA 8270C		µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16000	45000	
				03/07/2023	ND	4900	35000	
				04/04/2023	ND	27000	77000	
				05/02/2023	ND	6100	17000	
	Annual Mean			<27000				
Annual Max	<27000							
Chrysene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4400	13000	
				03/07/2023	ND	1300	10000	
				04/04/2023	ND	3200	9000	
				05/02/2023	ND	1600	4500	
				Annual Mean	<4400			
	Annual Max	<4400						
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4400	12000	
				03/07/2023	ND	1400	10000	
				04/04/2023	ND	7400	21000	
				05/02/2023	ND	1600	4400	
Annual Mean				<7400				
Annual Max	<7400							
Dibenz(a,h)anthra cene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	46000	50000	
				03/07/2023	ND	8400	40000	
				04/04/2023	ND	34000	36000	
				05/02/2023	ND	18000	19000	
				Annual Mean	<46000			
	Annual Max	<46000						
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	45000	45000	
				03/07/2023	ND	7300	35000	
				04/04/2023	ND	73000	77000	
				05/02/2023	ND	16000	17000	
Annual Mean				<73000				
Annual Max	<73000							
Dibenz(a,h)anthra cene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	12000	13000	
				03/07/2023	ND	2100	10000	
				04/04/2023	ND	8600	9000	
				05/02/2023	ND	4300	4500	
				Annual Mean	<12000			
	Annual Max	<12000						
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	12000	12000	
				03/07/2023	ND	2100	10000	
				04/04/2023	ND	20000	21000	
				05/02/2023	ND	4200	4400	
Annual Mean				<20000				
Annual Max	<20000							
Dibenzofuran	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16000	50000	
				03/07/2023	ND	7600	40000	
				04/04/2023	ND	12000	36000	
				05/02/2023	ND	6200	19000	
				Annual Mean	<16000			
	Annual Max	<16000						
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000	
				03/07/2023	ND	6600	35000	
				04/04/2023	ND	25000	77000	
				05/02/2023	ND	5300	17000	
Annual Mean				<25000				
Annual Max	<25000							
Dibenzofuran wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4100	13000	
				03/07/2023	ND	1900	10000	

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					04/04/2023	ND	3000	9000
					05/02/2023	ND	1500	4500
					Annual Mean	<4100		
					Annual Max	<4100		
					01/10/2023	ND	4100	12000
					03/07/2023	ND	1900	10000
					04/04/2023	ND	6900	21000
					05/02/2023	ND	1400	4400
					Annual Mean	<6900		
					Annual Max	<6900		
	Diethyl phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000
					03/07/2023	ND	4800	40000
					04/04/2023	ND	11000	36000
					05/02/2023	ND	5800	19000
					Annual Mean	<15000		
					Annual Max	<15000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000
					03/07/2023	ND	4200	35000
					04/04/2023	ND	24000	77000
					05/02/2023	ND	5300	17000
				Annual Mean	<24000			
				Annual Max	<24000			
Diethyl phthalate wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3900	13000	
				03/07/2023	ND	1200	10000	
				04/04/2023	ND	2800	9000	
				05/02/2023	ND	1400	4500	
				Annual Mean	<3900			
				Annual Max	<3900			
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3900	12000	
				03/07/2023	ND	1200	10000	
				04/04/2023	ND	6600	21000	
				05/02/2023	ND	1400	4400	
				Annual Mean	<6600			
				Annual Max	<6600			
Dimethyl phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000	
				03/07/2023	ND	5200	40000	
				04/04/2023	ND	11000	36000	
				05/02/2023	ND	5800	19000	
				Annual Mean	<15000			
				Annual Max	<15000			
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	14000	45000	
				03/07/2023	ND	4500	35000	
				04/04/2023	ND	24000	77000	
				05/02/2023	ND	5300	17000	
				Annual Mean	<24000			
				Annual Max	<24000			
Dimethyl phthalate wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3900	13000	
				03/07/2023	ND	1300	10000	
				04/04/2023	ND	2800	9000	
				05/02/2023	ND	1400	4500	
				Annual Mean	<3900			
				Annual Max	<3900			
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3800	12000	
				03/07/2023	ND	1300	10000	
				04/04/2023	ND	6500	21000	
				05/02/2023	ND	1400	4400	
				Annual Mean	<6500			
				Annual Max	<6500			
Di-n-butyl phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16000	50000	
				03/07/2023	ND	6000	40000	
				04/04/2023	ND	12000	36000	
				05/02/2023	ND	6200	19000	
				Annual Mean	<16000			
				Annual Max	<16000			
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16000	45000	
				03/07/2023	ND	5200	35000	
				04/04/2023	ND	26000	77000	
				05/02/2023	ND	5700	17000	
				Annual Mean	<26000			
				Annual Max	<26000			
Di-n-butyl phthalate wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4300	13000	
				03/07/2023	ND	1500	10000	
				04/04/2023	ND	3100	9000	
				05/02/2023	ND	1500	4500	
				Annual Mean	<4300			
				Annual Max	<4300			
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4200	12000	
				03/07/2023	ND	1500	10000	
				04/04/2023	ND	7100	21000	
				05/02/2023	ND	1500	4400	

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL			
Di-n-octyl phthalate	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	Annual Mean	<7100						
				Annual Max	<7100						
				01/10/2023	ND	15000	50000				
				03/07/2023	ND	29000	40000				
				04/04/2023	ND	11000	36000				
				05/02/2023	ND	5800	19000				
				Annual Mean	<29000						
				Annual Max	<29000						
				EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000	
							03/07/2023	ND	25000	35000	
	04/04/2023	ND	24000				77000				
	05/02/2023	ND	5300				17000				
	Annual Mean	<25000									
	Annual Max	<25000									
	Di-n-octyl phthalate wet weight	EPA 8270C	µg/kg				Plant 1 Dewatering Cake	01/10/2023	ND	4000	13000
								03/07/2023	ND	7200	10000
								04/04/2023	ND	2900	9000
								05/02/2023	ND	1400	4500
				Annual Mean	<7200						
		Annual Max	<7200								
EPA 8270C		µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3900	12000				
				03/07/2023	ND	7200	10000				
				04/04/2023	ND	6600	21000				
				05/02/2023	ND	1400	4400				
	Annual Mean			<7200							
Annual Max	<7200										
Fluoranthene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16000	50000				
				03/07/2023	ND	4800	40000				
				04/04/2023	ND	11000	36000				
				05/02/2023	ND	6200	19000				
				Annual Mean	<16000						
	Annual Max	<16000									
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000				
				03/07/2023	ND	4200	35000				
				04/04/2023	ND	25000	77000				
				05/02/2023	ND	5300	17000				
Annual Mean				<25000							
Annual Max	<25000										
Fluoranthene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4100	13000				
				03/07/2023	ND	1200	10000				
				04/04/2023	ND	2900	9000				
				05/02/2023	ND	1500	4500				
				Annual Mean	<4100						
	Annual Max	<4100									
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4000	12000				
				03/07/2023	ND	1200	10000				
				04/04/2023	ND	6800	21000				
				05/02/2023	ND	1400	4400				
Annual Mean				<6800							
Annual Max	<6800										
Fluorene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16000	50000				
				03/07/2023	ND	5200	40000				
				04/04/2023	ND	12000	36000				
				05/02/2023	ND	6200	19000				
				Annual Mean	<16000						
	Annual Max	<16000									
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000				
				03/07/2023	ND	4500	35000				
				04/04/2023	ND	25000	77000				
				05/02/2023	ND	5700	17000				
Annual Mean				<25000							
Annual Max	<25000										
Fluorene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4100	13000				
				03/07/2023	ND	1300	10000				
				04/04/2023	ND	3000	9000				
				05/02/2023	ND	1500	4500				
				Annual Mean	<4100						
	Annual Max	<4100									
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4100	12000				
				03/07/2023	ND	1300	10000				
				04/04/2023	ND	6900	21000				
				05/02/2023	ND	1500	4400				
Annual Mean				<6900							
Annual Max	<6900										
Hexachlorobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	1100	3800				
				03/07/2023	ND	7200	40000				
				04/04/2023	ND	10000	36000				
				05/02/2023	ND	5400	19000				
				Annual Mean	<10000						
				Annual Max	<10000						

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
Hexachlorobenzene wet weight	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	1100	3700	
				03/07/2023	ND	6300	35000	
				05/02/2023	ND	4900	17000	
				Annual Mean	<6300			
				Annual Max	<6300			
	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	290	1000	
				03/07/2023	ND	1800	10000	
				04/04/2023	ND	2600	9000	
				05/02/2023	ND	1300	4500	
				Annual Mean	<2600			
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	290	1000	
				03/07/2023	ND	1800	10000	
				05/02/2023	ND	1300	4400	
				Annual Mean	<1800			
				Annual Max	<1800			
Hexachlorobutadiene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	1600	3800	
				03/07/2023	ND	4000	40000	
				04/04/2023	ND	15000	36000	
				05/02/2023	ND	7900	19000	
				Annual Mean	<15000			
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	1500	3700	
				03/07/2023	ND	3500	35000	
				04/04/2023	ND	31000	77000	
				05/02/2023	ND	6800	17000	
				Annual Mean	<31000			
Hexachlorobutadiene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	410	1000	
				03/07/2023	ND	1000	10000	
				04/04/2023	ND	3700	9000	
				05/02/2023	ND	1900	4500	
				Annual Mean	<3700			
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	410	1000	
				03/07/2023	ND	1000	10000	
				04/04/2023	ND	8600	21000	
				05/02/2023	ND	1800	4400	
				Annual Mean	<8600			
Hexachlorocyclopentadiene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	27000	95000	
				03/07/2023	ND	30000	120000	
				04/04/2023	ND	20000	71000	
				05/02/2023	ND	11000	38000	
				Annual Mean	<30000			
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	26000	94000	
				03/07/2023	ND	26000	100000	
				04/04/2023	ND	44000	150000	
				05/02/2023	ND	9500	33000	
				Annual Mean	<44000			
	Hexachlorocyclopentadiene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	7100	25000
					03/07/2023	ND	7500	30000
					04/04/2023	ND	5100	18000
					05/02/2023	ND	2600	9100
					Annual Mean	<7500		
EPA 8270C		µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	7000	25000	
				03/07/2023	ND	7500	30000	
				04/04/2023	ND	12000	42000	
				05/02/2023	ND	2500	8800	
				Annual Mean	<12000			
Hexachloroethane		EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	26000	95000
					03/07/2023	ND	8800	40000
					04/04/2023	ND	19000	71000
					05/02/2023	ND	10000	38000
					Annual Mean	<26000		
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	25000	94000	
				03/07/2023	ND	7700	35000	
				04/04/2023	ND	40000	150000	
				05/02/2023	ND	9100	33000	
				Annual Mean	<40000			
Hexachloroethane wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	6800	25000	
				03/07/2023	ND	2200	10000	
				04/04/2023	ND	4900	18000	
				05/02/2023	ND	2500	9100	
				Annual Mean	<40000			

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	Annual Mean	<6800		
					Annual Max	<6800		
					01/10/2023	ND	6700	25000
					03/07/2023	ND	2200	10000
					04/04/2023	ND	11000	42000
					05/02/2023	ND	2400	8800
	Annual Mean	<11000						
	Annual Max	<11000						
	Indeno(1,2,3-cd)pyrene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	20000	50000
					03/07/2023	ND	7200	40000
					04/04/2023	ND	15000	36000
					05/02/2023	ND	7900	19000
		Annual Mean	<20000					
		Annual Max	<20000					
EPA 8270C		µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	19000	45000	
				03/07/2023	ND	6300	35000	
	04/04/2023			ND	31000	77000		
	05/02/2023			ND	6800	17000		
Annual Mean	<31000							
Annual Max	<31000							
Indeno(1,2,3-cd)pyrene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	5200	13000	
				03/07/2023	ND	1800	10000	
				04/04/2023	ND	3700	9000	
				05/02/2023	ND	1900	4500	
				Annual Mean	<5200			
	Annual Max	<5200						
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	5100	12000	
				03/07/2023	ND	1800	10000	
				04/04/2023	ND	8600	21000	
				05/02/2023	ND	1800	4400	
Annual Mean				<8600				
Annual Max	<8600							
Isophorone	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	17000	50000	
				03/07/2023	ND	5600	40000	
				04/04/2023	ND	13000	36000	
				05/02/2023	ND	6600	19000	
				Annual Mean	<17000			
	Annual Max	<17000						
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16000	45000	
				03/07/2023	ND	4900	35000	
				04/04/2023	ND	27000	77000	
				05/02/2023	ND	5700	17000	
Annual Mean				<27000				
Annual Max	<27000							
Isophorone wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4400	13000	
				03/07/2023	ND	1400	10000	
				04/04/2023	ND	3200	9000	
				05/02/2023	ND	1600	4500	
				Annual Mean	<4400			
	Annual Max	<4400						
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4400	12000	
				03/07/2023	ND	1400	10000	
				04/04/2023	ND	7400	21000	
				05/02/2023	ND	1500	4400	
Annual Mean				<7400				
Annual Max	<7400							
Naphthalene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16000	95000	
				03/07/2023	ND	4400	40000	
				04/04/2023	ND	11000	71000	
				05/02/2023	ND	6200	38000	
				Annual Mean	<16000			
	Annual Max	<16000						
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	94000	
				03/07/2023	ND	4200	35000	
				04/04/2023	ND	25000	150000	
				05/02/2023	ND	5300	33000	
Annual Mean				<25000				
Annual Max	<25000							
Naphthalene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4100	25000	
				03/07/2023	ND	1100	10000	
				04/04/2023	ND	2900	18000	
				05/02/2023	ND	1500	9100	
				Annual Mean	<4100			
	Annual Max	<4100						
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4000	25000	
				03/07/2023	ND	1200	10000	
				04/04/2023	ND	6800	42000	
				05/02/2023	ND	1400	8800	
Annual Mean				<6800				
Annual Max	<6800							

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Nitrobenzene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	16000	50000
					03/07/2023	ND	7200	160000
					04/04/2023	ND	12000	36000
					05/02/2023	ND	6200	19000
					Annual Mean	<16000		
					Annual Max	<16000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16000	45000
					03/07/2023	ND	6300	140000
					04/04/2023	ND	26000	77000
					05/02/2023	ND	5700	17000
	Annual Mean	<26000						
	Annual Max	<26000						
	Nitrobenzene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4300	13000
					03/07/2023	ND	1800	40000
04/04/2023					ND	3100	9000	
05/02/2023					ND	1500	4500	
Annual Mean					<4300			
Annual Max					<4300			
EPA 8270C		µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4200	12000	
				03/07/2023	ND	1800	40000	
				04/04/2023	ND	7200	21000	
				05/02/2023	ND	1500	4400	
Annual Mean	<7200							
Annual Max	<7200							
N-Nitrosodimethylamine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	4600	15000	
				03/07/2023	ND	6000	40000	
				05/02/2023	ND	21000	74000	
				Annual Mean	<21000			
				Annual Max	<21000			
				EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND
	03/07/2023	ND	5200				35000	
	05/02/2023	ND	20000				68000	
	Annual Mean	<20000						
	Annual Max	<20000						
N-Nitrosodimethylamine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	1200	4000	
				03/07/2023	ND	1500	10000	
				05/02/2023	ND	5200	18000	
				Annual Mean	<5200			
				Annual Max	<5200			
				EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND
	03/07/2023	ND	1500				10000	
	05/02/2023	ND	5200				18000	
	Annual Mean	<5200						
	Annual Max	<5200						
N-Nitroso-di-n-propylamine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	14000	95000	
				03/07/2023	ND	5200	40000	
				04/04/2023	ND	10000	71000	
				05/02/2023	ND	5400	38000	
				Annual Mean	<14000			
				Annual Max	<14000			
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	13000	94000	
				03/07/2023	ND	4500	35000	
				04/04/2023	ND	22000	150000	
				05/02/2023	ND	4900	33000	
Annual Mean	<22000							
Annual Max	<22000							
N-Nitroso-di-n-propylamine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3600	25000	
				03/07/2023	ND	1300	10000	
				04/04/2023	ND	2600	18000	
				05/02/2023	ND	1300	9100	
				Annual Mean	<3600			
				Annual Max	<3600			
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3600	25000	
				03/07/2023	ND	1300	10000	
				04/04/2023	ND	6000	42000	
				05/02/2023	ND	1300	8800	
Annual Mean	<6000							
Annual Max	<6000							
N-Nitrosodiphenylamine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000	
				03/07/2023	ND	7600	40000	
				04/04/2023	ND	11000	36000	
				05/02/2023	ND	6200	19000	
				Annual Mean	<15000			
				Annual Max	<15000			
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000	
				03/07/2023	ND	6600	35000	
				04/04/2023	ND	24000	77000	
				05/02/2023	ND	5300	17000	
Annual Mean	<24000							
Annual Max	<24000							

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL		
N-Nitrosodiphenylamine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4000	13000			
				03/07/2023	ND	1900	10000			
				04/04/2023	ND	2900	9000			
				05/02/2023	ND	1500	4500			
				Annual Mean	<4000					
	Annual Max	<4000								
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4000	12000			
				03/07/2023	ND	1900	10000			
				04/04/2023	ND	6700	21000			
				05/02/2023	ND	1400	4400			
Annual Mean				<6700						
EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	05/02/2023	ND	37000	74000				
			Annual Mean	<37000						
			Annual Max	<37000						
			EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	05/02/2023	ND	33000	68000	
						Annual Mean	<33000			
Annual Max	<33000									
Pentachlorophenol wet weight	EPA 8270C	µg/kg				Plant 1 Dewatering Cake	05/02/2023	ND	9000	18000
							Annual Mean	<9000		
			Annual Max	<9000						
			EPA 8270C	µg/kg	Plant 2 Dewatering Cake		05/02/2023	ND	8700	18000
							Annual Mean	<8700		
Annual Max	<8700									
Phenanthrene	EPA 8270C	µg/kg dry				Plant 1 Dewatering Cake	01/10/2023	ND	15000	50000
							03/07/2023	ND	4800	40000
			04/04/2023	ND	11000		36000			
			05/02/2023	ND	5800		19000			
			Annual Mean	<15000						
	Annual Max	<15000								
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	45000			
				03/07/2023	ND	4200	35000			
				04/04/2023	ND	24000	77000			
				05/02/2023	ND	5300	17000			
Annual Mean				<24000						
Annual Max	<24000									
Phenanthrene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3900	13000			
				03/07/2023	ND	1200	10000			
				04/04/2023	ND	2800	9000			
				05/02/2023	ND	1400	4500			
				Annual Mean	<3900					
	Annual Max	<3900								
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3900	12000			
				03/07/2023	ND	1200	10000			
				04/04/2023	ND	6600	21000			
				05/02/2023	ND	1400	4400			
Annual Mean				<6600						
Annual Max	<6600									
Phenol	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	46000 DNQ	30000	95000			
				03/07/2023	15000 DNQ	7600	40000			
				04/04/2023	ND	23000	71000			
				05/02/2023	54000	12000	38000			
				Annual Mean	34000 DNQ					
	Annual Max	54000								
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	100000	30000	94000			
				03/07/2023	ND	6600	35000			
				04/04/2023	ND	47000	150000			
				05/02/2023	53000	11000	33000			
Annual Mean				52000 DNQ						
Annual Max	100000									
Phenol wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	12000 DNQ	7900	25000			
				03/07/2023	3800 DNQ	1900	10000			
				04/04/2023	ND	5700	18000			
				05/02/2023	13000	2900	9100			
				Annual Mean	8600 DNQ					
	Annual Max	13000								
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	27000	7900	25000			
				03/07/2023	ND	1900	10000			
				04/04/2023	ND	13000	42000			
				05/02/2023	14000	2800	8800			
Annual Mean				14000 DNQ						
Annual Max	27000									
Pyrene	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	17000	50000			
				03/07/2023	ND	6000	40000			
				04/04/2023	ND	13000	36000			
				05/02/2023	ND	6600	19000			
				Annual Mean	<17000					
	Annual Max	<17000								
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16000	45000			
03/07/2023	ND	5200	35000							

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Pyrene wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	04/04/2023	ND	27000	77000
					05/02/2023	ND	5700	17000
					Annual Mean	<27000		
					Annual Max	<27000		
					01/10/2023	ND	4400	13000
					03/07/2023	ND	1500	10000
		04/04/2023	ND	3200	9000			
		05/02/2023	ND	1600	4500			
		Annual Mean	<4400					
		Annual Max	<4400					
		EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4400	12000
		03/07/2023	ND	1500	10000			
	04/04/2023	ND	7400	21000				
	05/02/2023	ND	1500	4400				
	Annual Mean	<7400						
	Annual Max	<7400						
	Pyridine	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	46000	95000
					03/07/2023	ND	6400	40000
					04/04/2023	ND	35000	71000
					05/02/2023	ND	18000	38000
					Annual Mean	<46000		
					Annual Max	<46000		
		EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	45000	94000
		03/07/2023	5900 DNQ	5600	35000			
		04/04/2023	ND	73000	150000			
		05/02/2023	ND	16000	33000			
		Annual Mean	35000 DNQ					
		Annual Max	5900 DNQ					
Pyridine wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	12000	25000	
				03/07/2023	ND	1600	10000	
				04/04/2023	ND	8800	18000	
				05/02/2023	ND	4400	9100	
				Annual Mean	<12000			
				Annual Max	<12000			
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	12000	25000	
	03/07/2023	1700 DNQ	1600	10000				
	04/04/2023	ND	20000	42000				
	05/02/2023	ND	4300	8800				
	Annual Mean	9500 DNQ						
	Annual Max	1700 DNQ						
Total Cresols	EPA 8270C	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	15000	95000	
				03/07/2023	ND	17000	80000	
				04/04/2023	ND	11000	71000	
				05/02/2023	ND	5800	38000	
				Annual Mean	<17000			
				Annual Max	<17000			
	EPA 8270C	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	15000	94000	
	03/07/2023	ND	15000	70000				
	04/04/2023	ND	24000	150000				
	05/02/2023	22000 DNQ	5300	33000				
	Annual Mean	19000 DNQ						
	Annual Max	22000 DNQ						
Total Cresols wet weight	EPA 8270C	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3900	25000	
				03/07/2023	ND	4300	20000	
				04/04/2023	ND	2800	18000	
				05/02/2023	ND	1400	9100	
				Annual Mean	<4300			
				Annual Max	<4300			
	EPA 8270C	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3900	25000	
	03/07/2023	ND	4300	20000				
	04/04/2023	ND	6500	42000				
	05/02/2023	5900 DNQ	1400	8800				
	Annual Mean	5200 DNQ						
	Annual Max	5900 DNQ						
Organochlorine Pesticides	Aldrin	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	24	76
					Annual Mean	<24		
					Annual Max	<24		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	22	71
		Annual Mean	<22					
		Annual Max	<22					
	Aldrin wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	6.3	20
					Annual Mean	<6.3		
					Annual Max	<6.3		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	6.0	19
		Annual Mean	<6.0					
		Annual Max	<6.0					
alpha-BHC	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	8.8	76	
				Annual Mean	<8.8			
				Annual Max	<8.8			
EPA 8081B	µg/kg dry	Plant 2	01/10/2023	ND	8.2	71		

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
	alpha-BHC wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	Annual Mean	<8.2			
					Annual Max	<8.2			
					01/10/2023	ND	2.3	20	
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	Annual Mean	<2.3			
					Annual Max	<2.3			
					01/10/2023	ND	2.2	19	
	alpha-Chlordane wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	Annual Mean	<2.2			
					Annual Max	<2.2			
					01/10/2023	ND	2.2	20	
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	Annual Mean	<2.1			
					Annual Max	<2.1			
					01/10/2023	ND	2.1	19	
	beta-BHC	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	Annual Mean	<14			
					Annual Max	<14			
					01/10/2023	ND	14	76	
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	Annual Mean	<13			
					Annual Max	<13			
					01/10/2023	ND	13	71	
	beta-BHC wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	Annual Mean	<3.6			
					Annual Max	<3.6			
					01/10/2023	ND	3.6	20	
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	Annual Mean	<3.4			
					Annual Max	<3.4			
					01/10/2023	ND	3.4	19	
Chlordane	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	Annual Mean	<61				
				Annual Max	<61				
				01/10/2023	ND	61	380		
	EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	Annual Mean	<56				
				Annual Max	<56				
				01/10/2023	ND	56	350		
Chlordane wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	Annual Mean	<16				
				Annual Max	<16				
				01/10/2023	ND	16	99		
	EPA 8081B	µg/kg	Plant 2 Dewatering Cake	Annual Mean	<15				
				Annual Max	<15				
				01/10/2023	ND	15	94		
delta-BHC	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	Annual Mean	<14				
				Annual Max	<14				
				01/10/2023	ND	14	76		
	EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	Annual Mean	<13				
				Annual Max	<13				
				01/10/2023	ND	13	71		
delta-BHC wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	Annual Mean	<3.7				
				Annual Max	<3.7				
				01/10/2023	ND	3.7	20		
	EPA 8081B	µg/kg	Plant 2 Dewatering Cake	Annual Mean	<3.5				
				Annual Max	<3.5				
				01/10/2023	ND	3.5	19		
Dieldrin	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	Annual Mean	<8.4				
				Annual Max	<8.4				
				01/10/2023	ND	8.4	76		
	EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	Annual Mean	<7.9				
				Annual Max	<7.9				
				01/10/2023	ND	7.9	71		
Dieldrin wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	Annual Mean	<2.2				
				Annual Max	<2.2				
				01/10/2023	ND	2.2	20		
	EPA 8081B	µg/kg	Plant 2 Dewatering Cake	Annual Mean	<2.1				
				Annual Max	<2.1				
				01/10/2023	ND	2.1	19		
Endosulfan 1	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	Annual Mean	<16				
				Annual Max	<16				
				01/10/2023	ND	16	76		
	EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	Annual Mean	<15				
				Annual Max	<15				
				01/10/2023	ND	15	71		
Endosulfan 1 wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	Annual Mean	<4.2				
				Annual Max	<4.2				
				01/10/2023	ND	4.2	20		
	EPA 8081B	µg/kg	Plant 2 Dewatering Cake	Annual Mean	<4.0				
				Annual Max	<4.0				
				01/10/2023	ND	4.0	19		
Endosulfan 2	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	Annual Mean	73 DNQ				
				Annual Max	73 DNQ				
				01/10/2023	73 DNQ				
	EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	Annual Mean	<7.9				
				Annual Max	<7.9				
				01/10/2023	ND	7.9	71		

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Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Endosulfan 2 wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	19 DNQ	2.2	20
					Annual Mean	19 DNQ		
					Annual Max	19 DNQ		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	2.1	19
					Annual Mean	<2.1		
					Annual Max	<2.1		
	Endosulfan Sulfate	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	9.5	76
					Annual Mean	<9.5		
					Annual Max	<9.5		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	9.0	71
					Annual Mean	<9.0		
					Annual Max	<9.0		
	Endosulfan Sulfate wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	2.5	20
					Annual Mean	<2.5		
					Annual Max	<2.5		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	2.4	19
					Annual Mean	<2.4		
					Annual Max	<2.4		
	Endrin	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	10	76
					Annual Mean	<10		
					Annual Max	<10		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	9.4	71
					Annual Mean	<9.4		
					Annual Max	<9.4		
	Endrin wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	2.7	20
					Annual Mean	<2.7		
					Annual Max	<2.7		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	2.5	19
					Annual Mean	<2.5		
					Annual Max	<2.5		
	Endrin Aldehyde	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	50	76
					Annual Mean	<50		
					Annual Max	<50		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	45	71
					Annual Mean	<45		
					Annual Max	<45		
	Endrin Aldehyde wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	13	20
					Annual Mean	<13		
					Annual Max	<13		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	12	19
					Annual Mean	<12		
					Annual Max	<12		
	Endrin Ketone	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	14	76
					Annual Mean	<14		
					Annual Max	<14		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	13	71
					Annual Mean	<13		
					Annual Max	<13		
	Endrin Ketone wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3.6	20
					Annual Mean	<3.6		
					Annual Max	<3.6		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3.4	19
					Annual Mean	<3.4		
					Annual Max	<3.4		
	gamma-BHC	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	7.6	76
					Annual Mean	<7.6		
					Annual Max	<7.6		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	7.1	71
					Annual Mean	<7.1		
					Annual Max	<7.1		
	gamma-BHC wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	2.0	20
					Annual Mean	<2.0		
					Annual Max	<2.0		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	1.9	19
					Annual Mean	<1.9		
					Annual Max	<1.9		
	gamma-Chlordane wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	13	20
					Annual Mean	<13		
					Annual Max	<13		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	13	19
					Annual Mean	<13		
					Annual Max	<13		
	Heptachlor	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	9.2	76
					Annual Mean	<9.2		
					Annual Max	<9.2		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	8.6	71
					Annual Mean	<8.6		
					Annual Max	<8.6		
	Heptachlor wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	2.4	20
					Annual Mean	<2.4		

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	Annual Max	<2.4	2.3	19
					01/10/2023	ND		
					Annual Mean	<2.3		
Heptachlor Epoxide	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	Annual Max	<2.3	8.0	76	
				01/10/2023	ND			
				Annual Mean	<8.0			
	EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	Annual Max	<8.0	7.5	71	
				01/10/2023	ND			
				Annual Mean	<7.5			
Heptachlor Epoxide wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	Annual Max	<7.5	2.1	20	
				01/10/2023	ND			
				Annual Mean	<2.1			
	EPA 8081B	µg/kg	Plant 2 Dewatering Cake	Annual Max	<2.1	2.0	19	
				01/10/2023	ND			
				Annual Mean	<2.0			
Kepone	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	Annual Max	<2.0	130	380	
				01/10/2023	ND			
				Annual Mean	<130			
	EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	Annual Max	<130	120	350	
				01/10/2023	ND			
				Annual Mean	<120			
Kepone wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	Annual Max	<120	33	99	
				01/10/2023	ND			
				Annual Mean	<33			
	EPA 8081B	µg/kg	Plant 2 Dewatering Cake	Annual Max	<33	31	94	
				01/10/2023	ND			
				Annual Mean	<31			
Methoxychlor	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	Annual Max	<31	18	76	
				01/10/2023	ND			
				Annual Mean	<18			
	EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	Annual Max	<18	16	71	
				01/10/2023	ND			
				Annual Mean	<16			
Methoxychlor wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	Annual Max	<16	4.7	20	
				01/10/2023	ND			
				Annual Mean	<4.7			
	EPA 8081B	µg/kg	Plant 2 Dewatering Cake	Annual Max	<4.7	4.4	19	
				01/10/2023	ND			
				Annual Mean	<4.4			
Mirex	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	Annual Max	<4.4	17	76	
				01/10/2023	ND			
				Annual Mean	<17			
	EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	Annual Max	<17	16	71	
				01/10/2023	ND			
				Annual Mean	<16			
Mirex wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	Annual Max	<16	4.4	20	
				01/10/2023	ND			
				Annual Mean	<4.4			
	EPA 8081B	µg/kg	Plant 2 Dewatering Cake	Annual Max	<4.4	4.2	19	
				01/10/2023	ND			
				Annual Mean	<4.2			
o,p'-DDD	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	Annual Max	<4.2	11	76	
				01/10/2023	ND			
				Annual Mean	<11			
	EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	Annual Max	<11	10	71	
				01/10/2023	ND			
				Annual Mean	<10			
o,p'-DDD wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	Annual Max	<10	2.9	20	
				01/10/2023	ND			
				Annual Mean	<2.9			
	EPA 8081B	µg/kg	Plant 2 Dewatering Cake	Annual Max	<2.9	2.8	19	
				01/10/2023	ND			
				Annual Mean	<2.8			
o,p'-DDE	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	Annual Max	<2.8	53	380	
				01/10/2023	ND			
				Annual Mean	<53			
	EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	Annual Max	<53	49	350	
				01/10/2023	ND			
				Annual Mean	<49			
o,p'-DDE wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	Annual Max	<49	14	99	
				01/10/2023	ND			
				Annual Mean	<14			
	EPA 8081B	µg/kg	Plant 2 Dewatering Cake	Annual Max	<14	13	94	
				01/10/2023	ND			
				Annual Mean	<13			
o,p'-DDT	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	Annual Max	<13	14	76	
				01/10/2023	ND			
				Annual Mean	<14			
	EPA 8081B	µg/kg dry	Plant 2	Annual Max	<14	13	71	
				01/10/2023	ND			
				Annual Mean	<13			

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
				Dewatering Cake	Annual Mean	<13		
					Annual Max	<13		
	o,p'-DDT wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	3.6	20
						<3.6		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	3.4	19
						<3.4		
	p,p'-DDD	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	11	76
						<11		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	10	71
						<10		
	p,p'-DDD wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	2.8	20
						<2.8		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	2.7	19
						<2.7		
	p,p'-DDE	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	10	76
						<10		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	9.7	71
						<9.7		
	p,p'-DDE wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	2.7	20
						<2.7		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	2.6	19
						<2.6		
	p,p'-DDT	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	18	76
						<18		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	16	71
						<16		
	p,p'-DDT wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	4.6	20
						<4.6		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	4.4	19
						<4.4		
	Total DDTs	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	53	380
						<53		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	49	350
						<49		
	Total DDTs wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	14	99
						<14		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	13	94
						<13		
	Total Heptachlors	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	9.2	76
						<9.2		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	8.6	71
						<8.6		
	Total Heptachlors wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	2.4	20
						<2.4		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	2.3	19
						<2.3		
	Toxaphene	EPA 8081B	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	230	380
						<230		
		EPA 8081B	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	220	350
						<220		
	Toxaphene wet weight	EPA 8081B	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	61	99
						<61		
		EPA 8081B	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	58	94
						<58		

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
PCBs	PCB 1016	EPA 8082A	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	570	730
					Annual Mean	<570		
					Annual Max	<570		
	EPA 8082A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	560	710	
				Annual Mean	<560			
				Annual Max	<560			
	PCB 1016 wet weight	EPA 8082A	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	150	190
					Annual Mean	<150		
					Annual Max	<150		
	EPA 8082A	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	150	190	
				Annual Mean	<150			
				Annual Max	<150			
	PCB 1221	EPA 8082A	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	570	730
					Annual Mean	<570		
					Annual Max	<570		
	EPA 8082A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	560	710	
				Annual Mean	<560			
				Annual Max	<560			
	PCB 1221 wet weight	EPA 8082A	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	150	190
					Annual Mean	<150		
					Annual Max	<150		
	EPA 8082A	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	150	190	
				Annual Mean	<150			
				Annual Max	<150			
	PCB 1232	EPA 8082A	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	570	730
					Annual Mean	<570		
					Annual Max	<570		
	EPA 8082A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	560	710	
				Annual Mean	<560			
				Annual Max	<560			
	PCB 1232 wet weight	EPA 8082A	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	150	190
					Annual Mean	<150		
					Annual Max	<150		
	EPA 8082A	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	150	190	
				Annual Mean	<150			
				Annual Max	<150			
	PCB 1242	EPA 8082A	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	570	730
					Annual Mean	<570		
					Annual Max	<570		
	EPA 8082A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	560	710	
				Annual Mean	<560			
				Annual Max	<560			
	PCB 1242 wet weight	EPA 8082A	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	150	190
					Annual Mean	<150		
					Annual Max	<150		
	EPA 8082A	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	150	190	
				Annual Mean	<150			
				Annual Max	<150			
PCB 1248	EPA 8082A	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	570	730	
				Annual Mean	<570			
				Annual Max	<570			
EPA 8082A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	560	710		
			Annual Mean	<560				
			Annual Max	<560				
PCB 1248 wet weight	EPA 8082A	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	150	190	
				Annual Mean	<150			
				Annual Max	<150			
EPA 8082A	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	150	190		
			Annual Mean	<150				
			Annual Max	<150				
PCB 1254	EPA 8082A	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	370	730	
				Annual Mean	<370			
				Annual Max	<370			
EPA 8082A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	370	710		
			Annual Mean	<370				
			Annual Max	<370				
PCB 1254 wet weight	EPA 8082A	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	98	190	
				Annual Mean	<98			
				Annual Max	<98			
EPA 8082A	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	99	190		
			Annual Mean	<99				
			Annual Max	<99				
PCB 1260	EPA 8082A	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	370	730	
				Annual Mean	<370			
				Annual Max	<370			
EPA 8082A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	370	710		
			Annual Mean	<370				
			Annual Max	<370				
PCB 1260 wet weight	EPA 8082A	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	98	190	

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL		
		EPA 8082A	µg/kg	Plant 2 Dewatering Cake	Annual Max	<98	99	190		
					01/10/2023	ND				
					Annual Mean	<99				
	Total PCBs	EPA 8082A	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	570	730		
					Annual Mean	<570				
					Annual Max	<570				
		EPA 8082A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	560	710		
					Annual Mean	<560				
					Annual Max	<560				
	Total PCBs wet weight	EPA 8082A	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	150	190		
					Annual Mean	<150				
					Annual Max	<150				
		EPA 8082A	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	150	190		
					Annual Mean	<150				
					Annual Max	<150				
Herbicides	2,4,5-TP (Silvex)	EPA 8151A	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	600	1200		
					Annual Mean	<600				
					Annual Max	<600				
		EPA 8151A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	610	1200		
					Annual Mean	<610				
					Annual Max	<610				
	2,4,5-TP (Silvex) wet weight	EPA 8151A	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	160	311		
					Annual Mean	<160				
					Annual Max	<160				
		EPA 8151A	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	160	328		
					Annual Mean	<160				
					Annual Max	<160				
	2,4-D	EPA 8151A	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	7900	16000		
					Annual Mean	<7900				
					Annual Max	<7900				
		EPA 8151A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	8200	16000		
					Annual Mean	<8200				
					Annual Max	<8200				
2,4-D wet weight	EPA 8151A	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	2100	4150			
				Annual Mean	<2100					
				Annual Max	<2100					
	EPA 8151A	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	2200	4370			
				Annual Mean	<2200					
				Annual Max	<2200					
Pentachloropheno l	EPA 8151A	µg/kg dry	Plant 1 Dewatering Cake	01/10/2023	ND	790	1600			
				Annual Mean	<790					
				Annual Max	<790					
	EPA 8151A	µg/kg dry	Plant 2 Dewatering Cake	01/10/2023	ND	820	1600			
				Annual Mean	<820					
				Annual Max	<820					
Pentachloropheno l wet weight	EPA 8151A	µg/kg	Plant 1 Dewatering Cake	01/10/2023	ND	210	415			
				Annual Mean	<210					
				Annual Max	<210					
	EPA 8151A	µg/kg	Plant 2 Dewatering Cake	01/10/2023	ND	220	437			
				Annual Mean	<220					
				Annual Max	<220					
Dioxins/Furans	2,3,7,8-TCDD	EPA 8290A	pg/g	Plant 1 Dewatering Cake	01/10/2023	ND	0.097	1.0		
					Annual Mean	<0.097				
					Annual Max	<0.097				
					01/10/2023	ND			0.37	3.8
		Annual Mean	<0.37							
		Annual Max	<0.37							
		EPA 8290A	pg/g	Plant 2 Dewatering Cake	01/10/2023	ND	0.086	0.99		
		Annual Mean			<0.086					
Annual Max	<0.086									
01/10/2023	ND	0.32			3.7					
Annual Mean	<0.32									
Annual Max	<0.32									
Other	Asbestos		EPA/600/R-93/116	%		Plant 1 Dewatering Cake	01/10/2023	ND	--	1
		07/11/2023			ND					
		Annual Mean			<1					
		Annual Max			<1					
		01/10/2023			ND		--	4		
		07/11/2023			ND					
		Annual Mean	<4							
		Annual Max	<4							
		EPA/600/R-93/116	%	Plant 2 Dewatering Cake	01/10/2023	ND			--	1
		07/11/2023			ND					
		Annual Mean			<1					
		Annual Max			<1					
01/10/2023	ND	--			4					
07/11/2023	ND									
Annual Mean	<4									
Annual Max	<4									

Appendix C: Summary of Biosolids Monitoring Results

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
DEFINITIONS AND FOOTNOTES								
<p>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</p> <p>Annual Mean: - If all results for a parameter were ND, the Annual Mean is reported as < the highest MDL (or RL if not MDL) for that parameter during the year. - If only some results for a parameter were ND, the ND is replaced by the MDL value for calculating the Annual Mean - For any parameter that had a DNQ result, the Annual Mean is also designated as DNQ.</p> <p>Annual Max: - If all results for a parameter were ND, the Annual Max is reported as < the highest MDL (or RL if not MDL) for that parameter during the year. - Quantified values take priority for determining the maximum (ND and DNQ values are ignored). If there are only ND and DNQ values, the highest DNQ value is reported as the maximum with a DNQ notation.</p>								

Appendix D. EPA Biosolids Annual Report Electronic Forms



EPA's sewage sludge regulations require certain publicly owned treatment works (POTWs) and Class I sewage sludge management facilities to submit to a Sewage Sludge (Biosolids) Annual Report (see 40 CFR 503.18 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_118), 503.28 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_128), 503.48 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_148)). Facilities that must submit a Sewage Sludge (Biosolids) Annual Report include POTWs with a design flow rate equal to or greater than one million gallons per day, POTWs that serve 10,000 people or more, Class I Sludge Management Facilities (as defined by 40 CFR 503.9 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_19)), and facilities otherwise required to file this report (e.g., permit condition, enforcement action, state law). This is the electronic form for Sewage Sludge (Biosolids) Annual Report filers to use if they are located in one of the states, tribes, or territories (<https://www.epa.gov/npdes/npdes-state-program-information>) where EPA administers the Federal biosolids program.

For the purposes of this form, the term 'sewage sludge' (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_19) also refers to the material that is commonly referred to as 'biosolids'. EPA does not have a regulatory definition for biosolids but this material is commonly referred to as sewage sludge that is placed on, or applied to the land to use the beneficial properties of the material as a soil amendment, conditioner, or fertilizer. EPA's use of the term 'biosolids' in this form is to confirm that information about beneficially used sewage sludge (a.k.a. biosolids) should be reported on this form.

Public Availability of Information Submitted on and with this Program Report

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the NPDES eReporting Help Desk (NPDESereporting@epa.gov (mailto:NPDESereporting@epa.gov)) for further guidance.

Please note that EPA may contact you after you submit this report for more information regarding your sewage sludge management program.

Burden Statement

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with EPA NPDES regulations (40 CFR 503.18, 503.28, and 503.48). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average one to five hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Facility Information

Facility Name: ORANGE COUNTY SD #1

NPDES ID: CAL110604

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).

28679

Reporting Period Start Date: 01/01/2023

Reporting Period End Date: 12/31/2023

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: 7210

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):

7210

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. 1	Compliance Monitoring Period Start Date:	Compliance Monitoring Period End Date:
	01/01/2023	02/28/2023

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	=	3.5	
Copper	=	460	
Lead	=	11	
Mercury	=	0.87	
Molybdenum	=	15	
Nickel	=	34	
Selenium	=	7.6	
Zinc	=	800	

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\(f\)](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	=	63	

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\(k\)](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\(b\)\(1\)](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\(l\)](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\(h\)](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	J (Below RL but Above MDL)	2.6	
Copper	=	420	
Lead	J (Below RL but Above MDL)	7.1	
Mercury	=	0.67	
Nickel	=	30	
Selenium	J (Below RL but Above MDL)	7	
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)	=	57000	

Compliance Monitoring Event No. 2

Compliance Monitoring Period Start Date:

Compliance Monitoring Period End Date: 04/30/2023

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	=	6.1	
Copper	=	400	
Lead	=	13	
Mercury	=	0.87	
Molybdenum	=	17	
Nickel	=	38	
Selenium	J (Below RL but Above MDL)	11	
Zinc	=	730	

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\(f\)](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\(k\)](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\(b\)\(1\)](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\(l\)](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\(h\)](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)	8.5	
Cadmium	=	3.5	
Copper	=	390	
Lead	=	11	
Mercury	=	0.77	
Nickel	=	34	
Selenium	J (Below RL but Above MDL)	9.2	
Zinc	=	690	

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)	=	59000	

Compliance Monitoring Event No. 3 **Compliance Monitoring Period Start Date:** 05/01/2023 **Compliance Monitoring Period End Date:** 06/30/2023

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)	9.8	

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	=	470	
Lead	=	12	
Mercury	=	0.68	
Molybdenum	=	23	
Nickel	=	36	
Selenium	J (Below RL but Above MDL)	11	
Zinc	=	850	

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\(f\)](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	=	60	

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\(k\)](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\(b\)\(1\)](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\(l\)](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\(h\)](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)	9.3	
Cadmium	J (Below RL but Above MDL)	1.8	

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	=	440	
Lead	=	11	
Mercury	=	0.58	
Nickel	=	30	
Selenium	J (Below RL but Above MDL)	9.6	
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)	=	58000	

Compliance Monitoring Event No. 4

Compliance Monitoring Period Start Date:
07/01/2023

Compliance Monitoring Period End Date:
08/31/2023

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)	6.3	
Cadmium	=	4	
Copper	=	480	
Lead	=	16	
Mercury	=	0.64	
Molybdenum	=	18	
Nickel	=	40	
Selenium	J (Below RL but Above MDL)	8.3	
Zinc	=	800	

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\(f\)](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	=	63	

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\(k\)](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\(b\)\(1\)](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\(l\)](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\(h\)](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	
Cadmium	=	3.4	
Copper	=	420	
Lead	=	12	
Mercury	=	0.56	
Nickel	=	34	
Selenium	J (Below RL but Above MDL)	7.2	
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)	=	55000	

Compliance Monitoring Event No. 5

Compliance Monitoring Period Start Date:

Compliance Monitoring Period End Date: 10/31/2023

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)	6.5	
Cadmium	=	3.8	
Copper	=	450	
Lead	=	13	
Mercury	=	0.51	
Molybdenum	=	16	
Nickel	=	45	
Selenium	J (Below RL but Above MDL)	7.8	
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\(f\)](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	=	65	

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\(k\)](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\(b\)\(1\)](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\(l\)](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\(h\)](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	
Cadmium	=	3.6	
Copper	=	420	
Lead	=	12	
Mercury	=	0.48	
Nickel	=	36	
Selenium	J (Below RL but Above MDL)	6.2	
Zinc	=	750	

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)	=	53000	

Compliance Monitoring Event No. 6 **Compliance Monitoring Period Start Date:** 11/01/2023 **Compliance Monitoring Period End Date:** 12/31/2023

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)	6.8	

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	=	4.1	
Copper	=	430	
Lead	=	13	
Mercury	=	0.78	
Molybdenum	=	15	
Nickel	=	45	
Selenium	J (Below RL but Above MDL)	7.8	
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\(f\)](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\(k\)](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\(b\)\(1\)](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\(l\)](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\(h\)](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)	6.3	
Cadmium	J (Below RL but Above MDL)	3.1	

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	=	400	
Lead	J (Below RL but Above MDL)	9.7	
Mercury	=	0.55	
Nickel	=	40	
Selenium	J (Below RL but Above MDL)	6.2	
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)	=	53000	

Sludge Management - Surface Disposal

Sludge Management - Incineration

Sludge Management - Other Management Practice

ID: 002

Amount: 5432

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
760-265-5210
vvasquez@synagro.com

Pathogen Class: Class A EQ

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

ID: 003

Amount: 7224

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 Compost Manufacturing 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: 004

Amount: 8063

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: 005

Amount: 637

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 - Arizona Soils
5615 S. 91st Ave.
Tolleson, AZ 85353
US

Contact Information:

Brian Millage
Site Manager
623-626-0974
bmillage@synagro.com

Pathogen Class: Class A EQ

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

ID: 006

Amount: 111

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 Composting Facility
12645 6th Street
Rancho Cucamonga, CA 91739
US

Contact Information:

Jeff Ziegenbein
Site Manager
909-993-1981
jziegenbein@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.

OC San has attached the electronic version of the annual report broken into smaller sections. Alternatively, the complete file is available at www.ocsan.gov/503. Please contact Matthew Smith at msmith@ocsan.gov or 714-593-7439 if you have any questions.

Additional Attachments

Name	Created Date	Size
OC_San_Biosolids_Annual_Report_2023_Part-1_Report-Body.pdf	02/15/2024 7:39 PM	1.17 MB
OC_San_Biosolids_Annual_Report_2023_Part-2_Appx-A.pdf	02/15/2024 7:39 PM	2.70 MB
OC_San_Biosolids_Annual_Report_2023_Part-3_Appx-B,C,E.pdf	02/15/2024 7:40 PM	2.26 MB
OC_San_Biosolids_Annual_Report_2023_Cover_Letter.pdf	02/15/2024 8:49 PM	286.95 KB

Certification Information

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 gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than 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. Signing an electronic document on behalf of another person is subject to criminal, civil, administrative, or other lawful action.

Certified By: Lan Wiborg (LWIBORG@OCSD.COM)

Certified On: 02/15/2024 6:03 PM ET



EPA's sewage sludge regulations require certain publicly owned treatment works (POTWs) and Class I sewage sludge management facilities to submit to a Sewage Sludge (Biosolids) Annual Report (see 40 CFR 503.18 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_118), 503.28 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_128), 503.48 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_148)). Facilities that must submit a Sewage Sludge (Biosolids) Annual Report include POTWs with a design flow rate equal to or greater than one million gallons per day, POTWs that serve 10,000 people or more, Class I Sludge Management Facilities (as defined by 40 CFR 503.9 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_19)), and facilities otherwise required to file this report (e.g., permit condition, enforcement action, state law). This is the electronic form for Sewage Sludge (Biosolids) Annual Report filers to use if they are located in one of the states, tribes, or territories (<https://www.epa.gov/npdes/npdes-state-program-information>) where EPA administers the Federal biosolids program.

For the purposes of this form, the term 'sewage sludge' (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_19) also refers to the material that is commonly referred to as 'biosolids'. EPA does not have a regulatory definition for biosolids but this material is commonly referred to as sewage sludge that is placed on, or applied to the land to use the beneficial properties of the material as a soil amendment, conditioner, or fertilizer. EPA's use of the term 'biosolids' in this form is to confirm that information about beneficially used sewage sludge (a.k.a. biosolids) should be reported on this form.

Public Availability of Information Submitted on and with this Program Report

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the NPDES eReporting Help Desk (NPDESereporting@epa.gov (mailto:NPDESereporting@epa.gov)) for further guidance.

Please note that EPA may contact you after you submit this report for more information regarding your sewage sludge management program.

Burden Statement

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with EPA NPDES regulations (40 CFR 503.18, 503.28, and 503.48). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average one to five hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Facility Information

Facility Name: ORANGE COUNTY SD #2

NPDES ID: CAL120604

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).

15989

Reporting Period Start Date: 01/01/2023

Reporting Period End Date: 12/31/2023

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 Method 9056 - Nitrite Nitrogen (IC)

Sludge Management - Land Application

ID: 001

Amount: 11615

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):

11615

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. 1	Compliance Monitoring Period Start Date: 01/01/2023	Compliance Monitoring Period End Date: 02/28/2023
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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	=	13	
Cadmium	=	1.1	
Copper	=	340	
Lead	=	8.1	
Mercury	=	0.74	
Molybdenum	=	17	
Nickel	=	26	
Selenium	=	6.3	
Zinc	=	600	

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\(f\)](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\(k\)](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\(b\)\(1\)](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\(l\)](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\(h\)](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	J (Below RL but Above MDL)	1.2	
Copper	=	320	
Lead	J (Below RL but Above MDL)	3.9	
Mercury	=	0.6	
Nickel	=	24	
Selenium	J (Below RL but Above MDL)	5.7	
Zinc	=	590	

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:

Compliance Monitoring Period End Date: 04/30/2023

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	=	14	
Cadmium	=	6.9	
Copper	=	340	
Lead	=	11	
Mercury	=	0.58	
Molybdenum	=	24	
Nickel	=	31	
Selenium	=	11	
Zinc	=	660	

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\(f\)](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	=	70	

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\(k\)](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\(b\)\(1\)](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\(l\)](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\(h\)](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)	11	
Cadmium	=	3.5	
Copper	=	320	
Lead	=	9.5	
Mercury	=	0.51	
Nickel	=	28	
Selenium	J (Below RL but Above MDL)	8.6	
Zinc	=	620	

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)	=	47000	

Compliance Monitoring Event No. 3 **Compliance Monitoring Period Start Date:** 05/01/2023 **Compliance Monitoring Period End Date:** 06/30/2023

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	=	13	
Cadmium	=	3.8	
Copper	=	360	

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	=	0.52	
Molybdenum	=	30	
Nickel	=	30	
Selenium	=	12	
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\(f\)](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	=	63	

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\(k\)](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\(b\)\(1\)](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\(l\)](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\(h\)](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)	12	
Cadmium	J (Below RL but Above MDL)	1.7	
Copper	=	360	
Lead	=	10	
Mercury	=	0.43	

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
Nickel	=	27	
Selenium	J (Below RL but Above MDL)	9.3	
Zinc	=	690	

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)	=	53000	

Compliance Monitoring Event No. 4 **Compliance Monitoring Period Start Date:** 07/01/2023 **Compliance Monitoring Period End Date:** 08/31/2023

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)	9.5	
Cadmium	=	4.5	
Copper	=	400	
Lead	=	13	
Mercury	=	0.57	
Molybdenum	=	25	
Nickel	=	34	
Selenium	J (Below RL but Above MDL)	7.9	
Zinc	=	780	

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\(f\)](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\(k\)](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\(b\)\(1\)](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\(l\)](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\(h\)](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	=	350	
Lead	=	11	
Mercury	=	0.48	
Nickel	=	32	
Selenium	J (Below RL but Above MDL)	6.9	
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)	=	54000	

Compliance Monitoring Event No. 5 **Compliance Monitoring Period Start Date:** 09/01/2023 **Compliance Monitoring Period End Date:** 10/31/2023

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)	7.4	
Cadmium	=	2.9	
Copper	=	410	
Lead	=	13	
Mercury	=	0.56	
Molybdenum	=	21	
Nickel	=	45	
Selenium	J (Below RL but Above MDL)	8.9	
Zinc	=	860	

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\(f\)](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\(k\)](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\(b\)\(1\)](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\(l\)](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\(h\)](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)	7.4	
Cadmium	=	2.8	
Copper	=	360	
Lead	=	12	
Mercury	=	0.45	
Nickel	=	38	
Selenium	J (Below RL but Above MDL)	6.5	
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)	=	47000	

Compliance Monitoring Event No. 6 **Compliance Monitoring Period Start Date:** 11/01/2023 **Compliance Monitoring Period End Date:** 12/31/2023

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)	8.7	
Cadmium	=	2.5	
Copper	=	330	

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	=	13	
Mercury	=	0.77	
Molybdenum	=	15	
Nickel	=	34	
Selenium	J (Below RL but Above MDL)	8.9	
Zinc	=	680	

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\(f\)](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	=	60	

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\(k\)](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\(b\)\(1\)](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\(l\)](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\(h\)](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)	7.4	
Cadmium	J (Below RL but Above MDL)	1.9	
Copper	=	300	

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	J (Below RL but Above MDL)	8.9	
Mercury	=	0.62	
Nickel	=	31	
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)	=	50000	

Sludge Management - Surface Disposal

Sludge Management - Incineration

Sludge Management - Other Management Practice

ID: 002

Amount: 252

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
760-265-5210
vvasquez@synagro.com

Pathogen Class: Class A EQ

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

ID: 003

Amount: 106

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 Compost Manufacturing 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: 004

Amount: 1987

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: 006

Amount: 2030

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 Composting Facility
12645 6th Street
Rancho Cucamonga, CA 91739
US

Contact Information:

Jeff Ziegenbein
Site Manager
909-993-1981
jziegenbein@synagro.com

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.

OC San has attached the electronic version of the annual report broken into smaller sections. Alternatively, the complete file is available at www.ocsan.gov/503. Please contact Matthew Smith at msmith@ocsan.gov or 714-593-7439 if you have any questions.

Additional Attachments

Name	Created Date	Size
<u>OC_San_Biosolids_Annual_Report_2023_Part-1_Report-Body.pdf</u>	<u>02/15/2024 7:49 PM</u>	<u>1.17 MB</u>
<u>OC_San_Biosolids_Annual_Report_2023_Part-2_Appx-A.pdf</u>	<u>02/15/2024 7:49 PM</u>	<u>2.70 MB</u>
<u>OC_San_Biosolids_Annual_Report_2023_Part-3_Appx-B,C,E.pdf</u>	<u>02/15/2024 7:49 PM</u>	<u>2.26 MB</u>
<u>OC_San_Biosolids_Annual_Report_2023_Cover_Letter.pdf</u>	<u>02/15/2024 8:50 PM</u>	<u>286.95 KB</u>

Certification Information

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 gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than

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. Signing an electronic document on behalf of another person is subject to criminal, civil, administrative, or other lawful action.

Certified By: Lan Wiborg (LWIBORG@OCSD.COM)

Certified On: 02/15/2024 6:05 PM ET

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: 1/1/2023	Reporting End Date: 12/31/2023
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: 10844 Ellis Ave., Fountain Valley, CA 92708	E-mail: lwiborg@ocsan.gov
Phone: 714-593-7450	
Please select one of the following options pertaining to your obligation to submit a Biosolids Annual Report. My facility is a:	
<input checked="" type="checkbox"/> POTW with a design flow equal to or greater than 1 MGD Per Day <input checked="" type="checkbox"/> POTW that serves 10,000 people or more <input type="checkbox"/> Class I Sludge Management Facility as defined by 40 CFR 503.9 <input type="checkbox"/> Biosolids Applicator (Complete Section 5 only) <input type="checkbox"/> 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)?	
44,668	
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.	
<i>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.</i>	
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:	Date: 2/15/2024
Title: Director of Environmental Services	

BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

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

BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

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.

BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

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.	18,825
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	5,684	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	637	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.

BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

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	2,141	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	10,050	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	7,331	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.

BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

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 a sewage sludge incinerator, must be collected and analyzed. These regulations specify the analytical methods that must be used to analyzed samples of sewage sludge.

<i>Parameter</i>	<i>Method Number or Author</i>	<i>Results (if tested)</i>	<i>Comments (required if other)</i>
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.

BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

		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

BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

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				
<i>Example:</i> 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

BIOSOLIDS SEWAGE SLUDGE ANNUAL REPORT

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.	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.	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.	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=