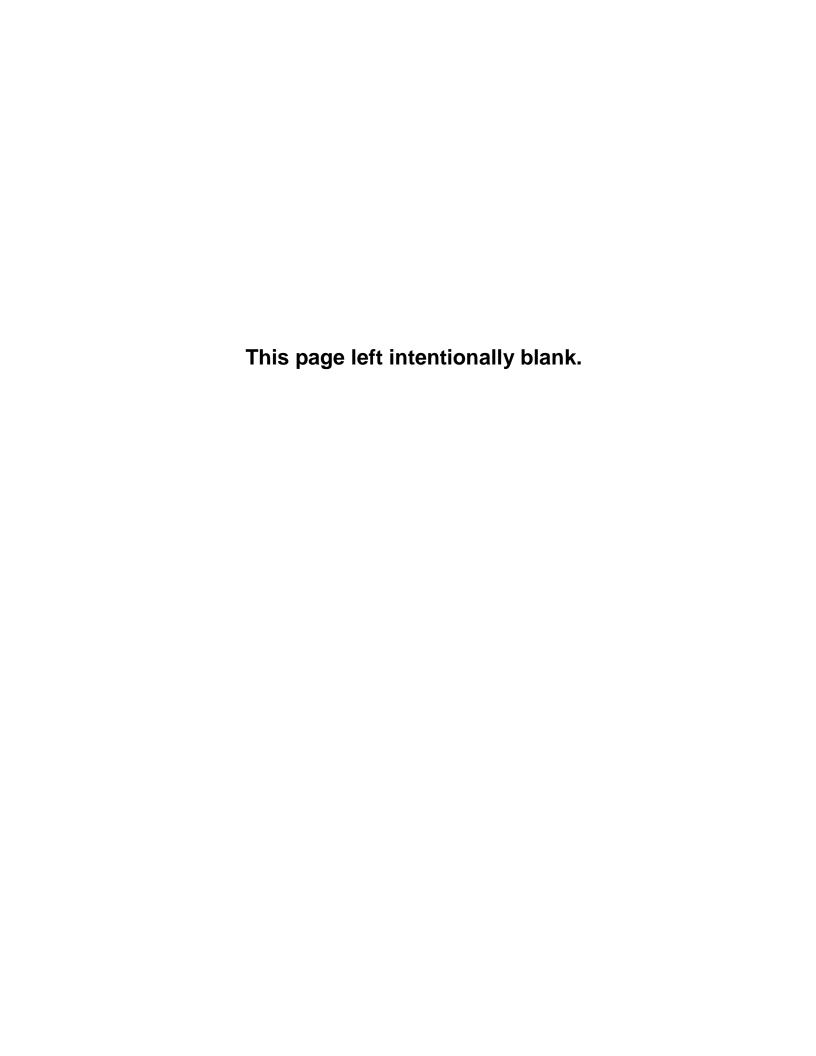
ORANGE COUNTY SANITATION DISTRICT

BIOSOLIDS MANAGEMENT COMPLIANCE REPORT

EPA 40 CFR Part 503

Year 2019





Serving:

Anaheim

Brea

Buena Park

Cypress

Fountain Valley

Fullerton

Garden Grove

Huntington Beach

Irvine

La Habra

La Palma

Los Alamitos

Newport Beach

Orange

Placentia

Santa Ana

Seal Beach

Stanton

Tustin

Villa Park

County of Orange

Costa Mesa Sanitary District

Midway City Sanitary District

> Irvine Ranch Water District

Yorba Linda Water District



Orange County Sanitation District

10844 Ellis Avenue, Fountain Valley, CA 92708 714.962.2411 • www.ocsd.com

February 13, 2020

Hope Smythe, Executive Officer California Regional Water Quality Control Board, Santa Ana Region 3737 Main Street, Suite 500 Riverside, CA 92501-3348

SUBJECT: Orange County Sanitation District's Annual Compliance Report

Enclosed please find the Orange County Sanitation District's (OCSD) Biosolids Management Compliance Report as required under the 40 CFR Part 503 regulations, Arizona Administrative Code Article 10, and the National Pollution Discharge Elimination System (NPDES) Permit No. CA0110604, Order No. R8-2012-0035.

OCSD has uploaded this report into EPA's biosolids electronic reporting database, and submitted e-mail copies to state and local regulators. A copy of OCSD's EPA electronic report is included as Appendix D.

Certification Statement

The following certifications satisfy procedural requirements as listed in section V.B.5 of the Orange County Sanitation District's NPDES Permit No. CA0110604 and 40 CFR part 503, section 503.17 for the submittal of the attached compliance report for calendar year 2018.

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.

If you have any questions or comments regarding this packet of information or require any additional data, please contact Deirdre Bingman at (714) 593-7459. I can be reached at (714) 593-7508.

Ronald Coss

Laboratory, Monitoring, and Compliance Manager

RC/DEB:bg

Our Mission: To protect public health and the environment by providing effective wastewater collection, treatment, and recycling.

Serving:

Anaheim

Brea

Buena Park

Cypress

Fountain Valley

Fullerton

Garden Grove

Huntington Beach

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> Yorba Linda Water District



Orange County Sanitation District

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February 13, 2020

Andy Koester
Arizona Department of Environmental Quality
Water Permits Section
1110 West Washington Street, 5415-B-3
Phoenix, Arizona 85007

SUBJECT: Orange County Sanitation District's Annual Compliance Report

Enclosed please find the Orange County Sanitation District's (OCSD) Biosolids Management Compliance Report as required under the 40 CFR Part 503 regulations, Arizona Administrative Code Article 10, and the National Pollution Discharge Elimination System (NPDES) Permit No. CA0110604, Order No. R8-2012-0035.

OCSD has uploaded this report into EPA's biosolids electronic reporting database and submitted e-mail copies to state and local regulators. A copy of OCSD's Arizona biosolids annual reporting form is included as Appendix E, and the EPA electronic report is included as Appendix D.

Certification Statement

The following certifications satisfy procedural requirements as listed in Arizona Administrative Code Article 10 under section R18-9-1013 for the submittal of the attached EPA 40 CFR Part 503 Compliance Report for calendar year 2018.

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.

If you have any questions or comments regarding this packet of information or require any additional data, please contact Deirdre Bingman at (714) 593-7459. I can be reached at (714) 593-7508.

Ronald Coss

Laboratory, Monitoring, and Compliance Manager

RC/DEB:bg

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Enclosure

Our Mission: To protect public health and the environment by providing effective wastewater collection, treatment, and recycling.

BIOSOLIDS MANAGEMENT COMPLIANCE REPORT

Introduction	1
Organization and Function	1
Accomplishments	1
Treatment Plants and Program Updates	
Biosolids Management	4
Summary of Pollutants	5
Determination of Hazardousness	6
Biosolids Management System	6

APPENDIX A

Table 1: OCSD Biosolids Wet and Dry Tonnage Distribution, Plant No. 1 Table 2: OCSD Biosolids Wet and Dry Tonnage Distribution, Plant No. 2 Biosolids Monthly Compliance Reports, January – December 2019

APPENDIX B

OCSD's Resource Protection Division, Pretreatment Program's
Annual Report, FY 2018-2019, Solids Management Program, Chapter 8

APPENDIX C

Summary of Priority Pollutants and Trace Constituents Analysis in Biosolids

APPENDIX D

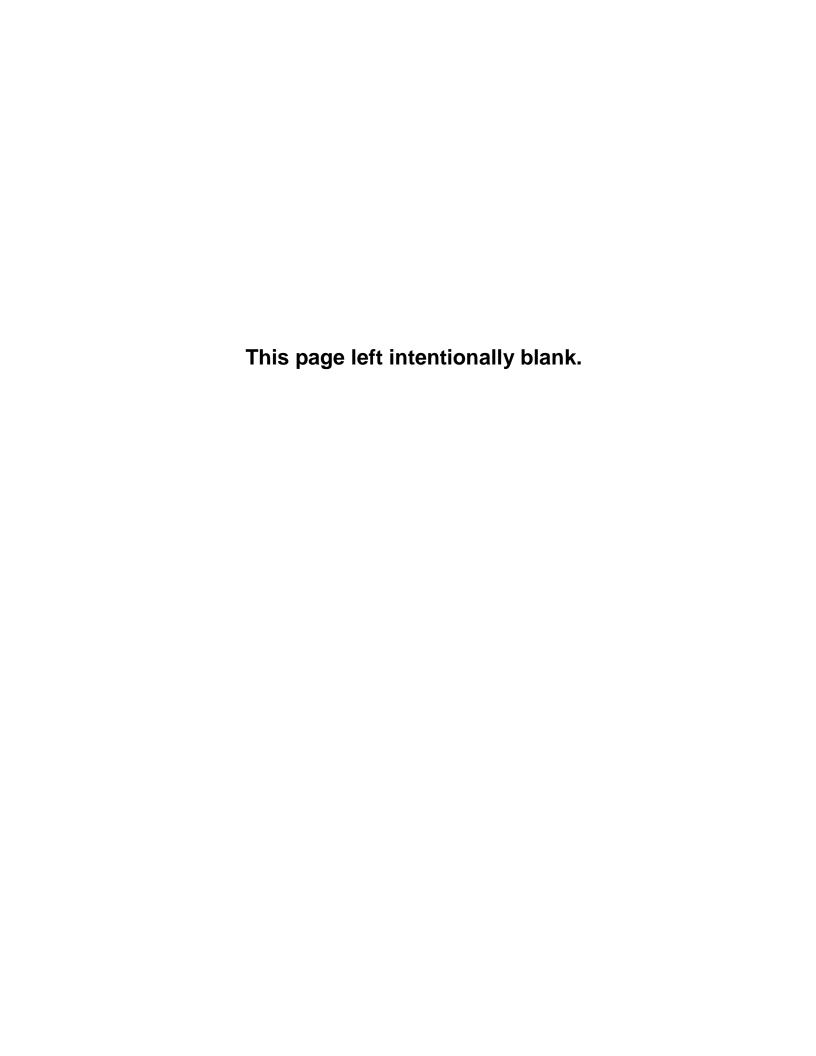
EPA Biosolids Annual Report Electronic Form, Plant No. 1 EPA Biosolids Annual Report Electronic Form, Plant No. 2

APPENDIX E

Arizona Department of Environmental Quality Biosolids Annual Report Form

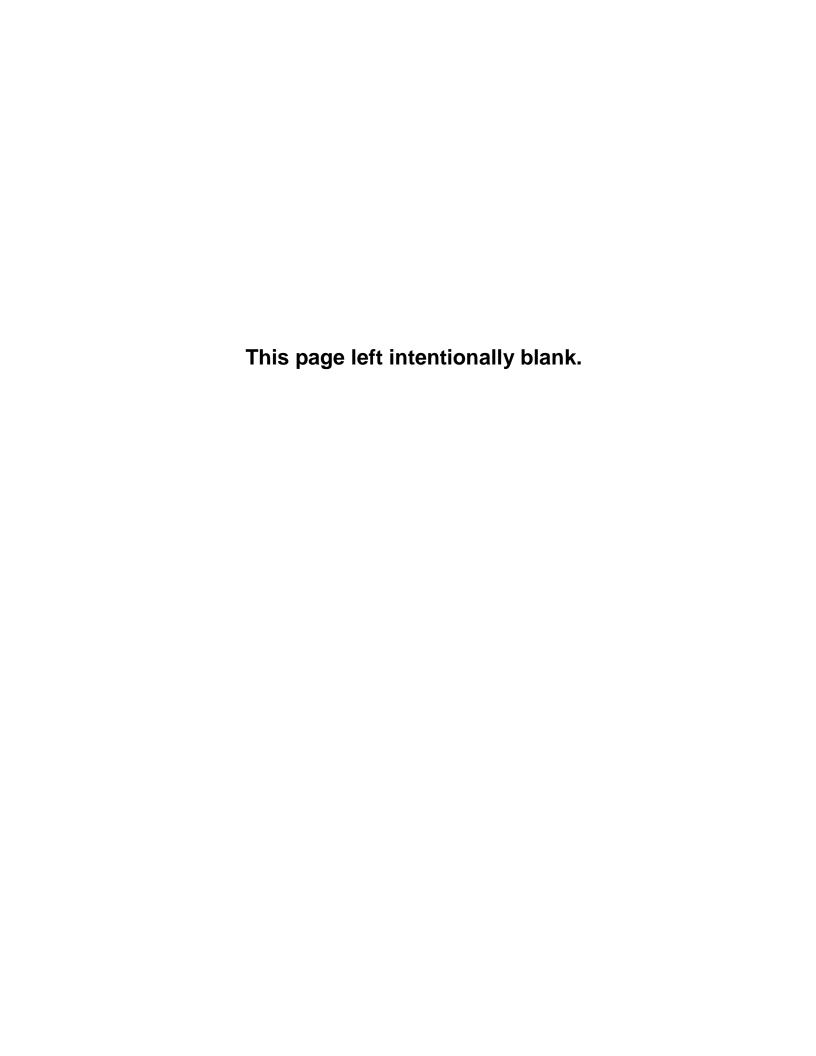
APPENDIX F

Biosolids Program History



2019 BIOSOLIDS MANAGEMENT COMPLIANCE REPORT

Introduction
Organization and Function
Accomplishments
Treatment Plants and Program Updates
Biosolids Management
Summary of Pollutants
Determination of Hazardousness
Biosolids Management System



Introduction

The Orange County Sanitation District (OCSD) treats and manages its biosolids, the nutrient-rich, organic matter recovered through the treatment of wastewater. OCSD's Biosolids Program consists of processes to ensure solids are treated onsite and used offsite (recycled) in accordance with all regulations and best management practices.

OCSD treats and manages its biosolids in accordance with OCSD's National Pollutant Discharge Elimination System (NPDES) Permit No. CA0110604 (NPDES), Arizona Administrative Code Title 18, Ch. 9, Article 10 (R18-9), and EPA Code of Federal Regulations Title 40 Part 503 (503).

The following sections summarize OCSD's activities and performance for the compliance-reporting period of January 1 to December 31, 2019.

Organization and Function

OCSD 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. OCSD is a special district that is governed by a Board of Directors consisting of 25 board members appointed from 20 cities, 4 special districts, and 1 representative from the Orange County Board of Supervisors. OCSD has two plants that treat wastewater from residential, commercial and industrial sources.

- During this budgetary fiscal year (2018-2019) OCSD treated an average daily sewage influent flow of 185 million gallons per day (MGD), on par with the previous year.
- During this last calendar year (2019) OCSD produced 230,533 wet tons of biosolids (52,003 dry metric tons), which equates to an average of 632 wet tons per day of biosolids, including digester cleanings managed as biosolids (609 tons per day excluding digester cleanings). OCSD produced 21% less biosolids than during 2018 due to the commissioning of dewatering centrifuges at both treatment plants.

Accomplishments

OCSD accomplishments this year include:

- Recycled 100% of OCSD's biosolids, including digester cleanings.
- OCSD was awarded with the National Association of Clean Water Agencies (NACWA) Platinum Award. NACWA is the nation's leader in legislative, regulatory and legal advocacy on the full spectrum of clean water issues, as well as a top technical resource for water management, sustainability and ecosystem protection interests. See OCSD's Awards and Honors webpage for many other annual recognitions throughout the agency.

- Project P1-101 at Reclamation Plant No. 1 in Fountain Valley completed commissioning dewatering and thickening centrifuges as featured on the cover of this report.
- Project P2-92 at Treatment Plant No. 2 in Huntington Beach completed commissioning dewatering centrifuges.
- OCSD cleaned eight (8) digesters at both plants.
- OCSD's Research Program continues to stay abreast of advanced technologies.
 Participation in the International Technology Advisory Group (iTAG) is an integral part of OCSD's Research Program. The iTAG screens and evaluates potential beneficial technologies for the wastewater industry.
 Annually, OCSD hosts the iTAG and invites other wastewater treatment agencies to learn of the most promising technologies at which time agencies may choose to pilot.
 OCSD continues to stay current in biosolids and energy recovery technologies through this process.



P2-92 Building and Centrifuges

- As part of the implementation of the 2017
 Biosolids Master Plan and as included in the General Manager's Work Plan goal for Fiscal Year 2017-18, OCSD has completed preliminary design of an interim food waste receiving facility. This project will be designed to receive approximately 150 wet tons of preprocessed food waste to be co-digested in OCSD's anaerobic digesters located at Plant No. 2. The added organic feedstock will account for a 10% increase of biogas production that will be used to generate electricity.
- OCSD's Board of Directors approved the 2019 Strategic Plan that includes
 Biosolids Management Policy initiatives to educate and advocate with the local,
 state, and federal agencies to assure biosolids will continue to be safely and legally
 used as a soil amendment and to monitor and research constituents of emerging
 concern such as PFAS and microplastics that may impact biosolids. In addition,
 OCSD will stay abreast of new technology options to convert organics to energy
 and other regional biosolids recycling and renewable energy partnerships within
 Southern California.
- OCSD's composting partner, Inland Empire Regional Composting Authority has a compost buy-back program that includes to OCSD member cities and agencies. This program offers discounted compost to incentivize the local use of compost, which will help cities meet SB1383 organics procurement mandates starting in 2022. In 2019, IERCA provided bagged compost for OCSD's annual "State of the District" and OCSD 65th Anniversary Open House events.

Treatment Plants and Program Updates

Reclamation Plant No. 1, located in the city of Fountain Valley, treated an average of 120 MGD of wastewater. Treatment Plant No. 2, located in the City of Huntington Beach, treated an average of 65 MGD of wastewater during the most recent fiscal year.

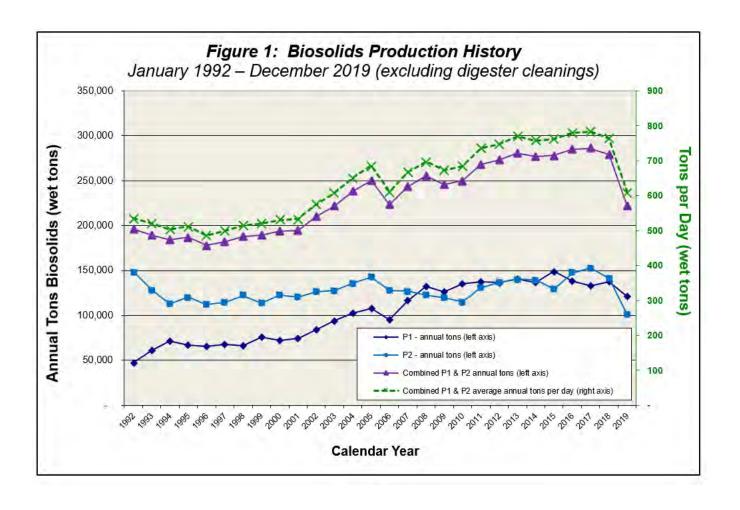
In 2019, Plant No. 1 diverted an average of approximately 10,000 cubic feet per day of primary sludge from Plant No. 1 to Plant No. 2 via the interplant sludge line. This value is down from an average of 60,000 cubic feet per day during 2018 because the new thickening centrifuges at Plant No. 1 allowed more solids to be treated at Plant No. 1, and the diversion essentially ceased by June 2019.

This year, OCSD finished commissioning new dewatering centrifuge facilities that replaced the dewatering belt filter presses at Plant No. 1 and at Plant No. 2. The total percent solids of dewatered biosolids increased significantly in 2019, resulting in approximately 25% less biosolids (wet weight) and trucks to manage (Figure 1 below). The Plant No. 1 project also installed pre-digestion centrifuges to thicken primary and secondary solids, so the existing dissolved air floatation thickening units are no longer in use. Additionally, Plant No. 1 truck loading facility was rehabilitated. With the commissioning of the centrifuges this year, the biosolids averaged about 24% total solids at Plant No. 1 and 25% total solids at Plant No. 2. More detailed data, including monthly averages, annual totals and analytical results, can be viewed in Figure 1 and Table 2 below, as well as in Appendices A, B, C, and D.

The Irvine Ranch Water District (IRWD) discharges its untreated solids (sludge) to OCSD. IRWD is currently commissioning its new solids treatment facility and plans to cease sending their solids to OCSD when the new facilities are ready to process its sludge, now estimated by 2021. This cessation is anticipated to reduce Plant No. 1's influent solids by 10 to 15 percent.

OCSD's biosolids are digested for at least 15 days at a minimum of 95 degrees Fahrenheit, with a volatile solids destruction of at least 38%. OCSD's anaerobically digested biosolids meet 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). In addition, Tule Ranch/AgTech's standard operating procedure includes biosolids incorporation within 6 hours which meets 40 CFR Part 503.33(b)(10) requirement and is a valuable redundancy in rare events when OCSD experiences challenges meeting the Vector Attraction Reduction standard.

As for digester cleaning maintenance, Digester 5 was cleaned at Plant No. 1 (and Digester 9 was started). Digesters F, I, J, K, G, O, and S were cleaned at Plant No. 2.



Biosolids Management

For this reporting period, biosolids produced at OCSD's two treatment facilities were managed by the contractors listed below in Table 1.

Table 1- Biosolids Mana	gement Contractors
Tule Ranch / Ag-Tech 4324 E. Ashlan Ave. Fresno, CA 93726 Contact: Shaen Magan Phone: (559) 970-9432 Email: kurt@westexp.com	Synagro - Nursery Products PO Box 1439 Helendale, CA 92342 Contact: Venny Vasquez Phone: (760) 265-5210 Email: vvasquez@SYNAGRO.com
Liberty Compost 12421 Holloway Rd. Lost Hills, CA 93249 Contact: Patrick McCarthy Phone: (661) 797-2914 Email: patrickmccarthy@mccarthyfarms.com	Synagro – Arizona Soils 5615 S. 91st Avenue Tolleson, AZ 85353 Contact: Craig Geyer Phone: (623) 936-6328 Email: CGeyer@SYNAGRO.com

Table 1- Biosolids Management Contractors

Inland Empire Regional Composting Authority

12645 6th Street

Rancho Cucamonga, CA 91739

Contact: Jeff Ziegenbein Phone: (909) 993-1981 Email: jziegenbein@ieua.org

These contractors provide OCSD with biosolids management diversification and reliability, and are therefore important partners to OCSD. These contractors submit their annual compliance reports directly to EPA, in accordance with OCSD's NPDES permit requirements. For this reporting period, OCSD's biosolids were beneficially reused as illustrated in Table 2. More detailed breakdowns are available in Appendices A and D.

Table 2- Biosolids Managed Tonnage Distribution

Quantity Generated	Plant No. 1	Plant No. 2	Total	Relative %
Synagro - Nusery Products CA - (compost) (wet tons)	79,269.2	5,775.5	85,044.7	37%
Synagro - Nusery Products CA - (compost) (dry metric tons)	17,152.9	2,754.9	19,907.8	
Synagro AZ Soils (compost) (wet tons)	852.3	2,281.5	3,133.7	1.4%
Synagro, AZ Soils (compost) (dry metric tons)	158.1	1,129.2	1,287.4	
Liberty Compost CA (wet tons)	30,702.9	10,537.0	41,239.9	18%
Liberty Compost CA (dry metric tons)	6,583.0	2,007.0	8,590.0	
Inland Empire Regional Composting (wet tons)	0.0	10,021.9	10,021.9	4.3%
Inland Empire Regional Composting (dry metric tons)	0.0	1,908.9	1,908.9	
Tule Ranch AZ (land application) (wet tons)	11,245.8	79,847.2	91,092.9	40%
Tule Ranch AZ (land application) (dry metric tons)	2,526.4	17,782.3	20,308.7	
Total Wet Tons	122,070.1	108,463.0	230,533.1	100%
Total Dry Metric Tons	26,420.5	25,582.3	52,002.7	

Summary of Pollutants

OCSD's Biosolids Monthly Compliance Reports (Appendix A) compare the concentration limits of the pollutants listed in 40 CFR 503 to OCSD's average biosolids concentrations for each plant. The average concentrations of all pollutants in OCSD'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, which were based on an extensive health risk assessment to ensure that biosolids are safe for recycle to build healthy soil.

Since 1976, OCSD's Pretreatment Program has been effective in lowering the average mass of metals discharged to the marine environment by 99% and the total mass of metals in the influent sewage by 86%, thereby ensuring OCSD's biosolids can be recycled to farm fields with low metals concentrations. Furthermore, OCSD's influent wastewater meets drinking water standards for metals. Appendix B contains the biosolids chapter excerpt of the OCSD Pretreatment Program Annual Report (ocsd.com/PreTreatAnnual, Chapter 8) that includes graphs of metals in OCSD's biosolids.

In accordance with OCSD's NPDES permit, biosolids are also tested semi-annually for all pollutants listed under Section 307(a) of the Clean Water Act. Appendix C contains the summary of the priority pollutants analyzed in the plants' biosolids.

Determination of Hazardousness

OCSD's biosolids' pollutant concentrations are significantly below the state and federal maximum contaminant concentrations for determining a hazardous waste. See OCSD's biosolids monitoring data in Appendix C, Summary of Priority Pollutants and Trace Constituents Analysis.

Legal Definitions

OCSD's 2012 Ocean Discharge NPDES permit requires OCSD to test its biosolids annually for hazardousness in accordance with 40 CFR Part 261. Hazardous waste is also defined under the provisions of California Code of Regulations, Title 22, Chapter 11, Article 5, and Arizona Revised Statutes, Title 49, Chapter 5, Article 2.

Determination Summary

OCSD's biosolids are determined to be non-hazardous based on the following evaluation:

- OCSD's biosolids are not ignitable, corrosive, reactive, nor toxic in accordance with the federal regulatory definitions in 40 CFR Part 261.
- OCSD performs semi-annual testing of an extensive list of organic and inorganic compounds to verify the continued non-hazardousness of our biosolids.
- When the results are non-detectable, OCSD enters the method detection limit in the evaluation spreadsheet that compares the data to regulatory limits.
- In January and July 2019, OCSD's contract laboratory analyzed the samples at a dilution that caused five constituents to have elevated method detection limits that were higher than the regulatory limits (see footnotes in Appendix C Biosolids Priority Pollutants).
- In response, OCSD corrected the issue by re-sampling in December 2019 and requested the contract laboratory to analyze at lower detection limits for December as well as into the future. For the 2019 reporting period, OCSD has at least one result with acceptable detection limits for each regulatorily-required constituent.

Biosolids Management System

OCSD continues to utilize a biosolids management system approach to effectively administer its biosolids program. The following sections highlight OCSD's continued commitment to the biosolids management system.

Communications

OCSD has continued transparent communications during this reporting period. OCSD shares timely updates including biosolids news, annual compliance reports, biosolids videos, updated OCSD resources such as the biosolids allocation map and Biosolids

Contractor Requirements document. In 2019, the following items were posted or updated on OCSD's biosolids website:

- Monthly compliance reports and data (<u>ocsd.com/nani</u>),
- Annual compliance reports (<u>ocsd.com/503</u>),
- Biosolids allocation map (<u>ocsd.com/map</u>), and
- Two news articles.

Contractor Oversight Program

OCSD has continued our strong contractor oversight program:

- No Notice of Violations (NOVs) were issued for OCSD's active biosolids contractors;
- Performed 11 contractor site inspections;
- Addressed and closed out one contractor issues:
- Addressed and closed out one inspection finding;
- No odor complaints;
- Performed 44 hauling inspections, which reached 44 out of 77 active drivers (81%) this year. There are 19 active drivers (25%) who have earned a place on OCSD's "Honor Roll" for excellence in their truck cleanliness, knowledge of biosolids and emergency protocol by successfully passing three consecutive hauler inspections; and
- Two contractor offsite incidents occurred in January and November 2019, in which an estimated of three gallons and 15 gallons, respectively, of biosolids were released and recovered with no impacts to waterways. The final report was submitted to Regional Water Control Board having jurisdiction in the area.

Goals and Targets

The 2014 – 2019 Five Year Strategic Plan is a guiding document that provides a framework that directs our work. Every two years, the Strategic Plan is reviewed, updated, and submitted for approval by the Board of Directors. A new Strategic Plan was adopted in November 2019 that will be discussed in next year's report. This plan is available on the the OCSD Strategic Planning website (https://www.ocsd.com/services/strategic-planning).

Biosolids Program Policy

The Biosolids Program Policy, originally adopted in 1999 and amended several times over the years, is a policy committing the agency to support biosolids beneficial reuse (organics recycling). The most recent commitments, OCSD Resolution 13-03 (www.ocsd.com/policy), and OCSD's performance relative to these commitments are reported below.

Table 3 – Policy Performance										
Policy Commitment	2019 Performance									
Commit to sustainable biosolids program.	OCSD has demonstrated effective pretreatment, water and solids treatment operations, compliance, capital improvements, technology									

Table 3 – Polic	cy Performance
Policy Commitment	2019 Performance
	research and planning, and biosolids contractor oversight programs.
Support the recycling of biosolids.	See this year's accomplishments at the beginning of this report.
	In addition, OCSD demonstrates its commitment and support of recycling biosolids in its outreach 2-part video. Part 1: How biosolids are created from sewage treatment plant solids, OCSD's biosolids production, and where OCSD's biosolids are recycled. Part 2: Biosolids benefits and safety and the onsite processes used to land apply and compost biosolids.
Strive to balance financial, environmental, and societal considerations when making biosolids decisions.	On a day-to-day basis, OCSD is weighing these considerations and watching for issues that would alter the balance. For instance, allocating our biosolids to our diverse locations considers this "triple bottom line," but also considers contractors performance and the 2017 Master Plan's Ten Tenets (ocsd.com/bmp).
Utilize a biosolids management system to maintain a sustainable and publicly supported biosolids program.	OCSD continues to maintain our biosolids management system as outlined in this section.
 Diversify portfolio of offsite biosolids management options with multiple biosolids contractors, markets, facilities, and maintaining fail-safe back-up capacity of at least 100% of its daily biosolids production. 	See Table 2 for breakdown of our active biosolids management options. See Ten Tenets reporting table below.
5. Research and implement ways to reduce the volume of biosolids at the treatment plants to minimize the need for offsite management.	As mentioned in the "Treatment Plants and Program Updates" section above, OCSD's production of biosolids has reduced by about one-quarter since the centrifuges fully commissioned in 2019.
	OCSD's Research program actively seeks opportunities for process area improvements, including solids.
	OCSD is continuing to monitor the Supercritical Water Oxidation technology (www.scfi.eu) and the progress towards a feasible pilot plant.
Support continuing research of biosolids benefits and potential safety concerns.	OCSD continued our support of the Northwest Biosolids' library (www.nwbiosolids.org). The library contains references to over 2,600 biosolids-related research articles references. Northwest Biosolids sends a monthly themebased, relevant summary of research to its members, so we can easily digest pertinent scientific information and better communicate with

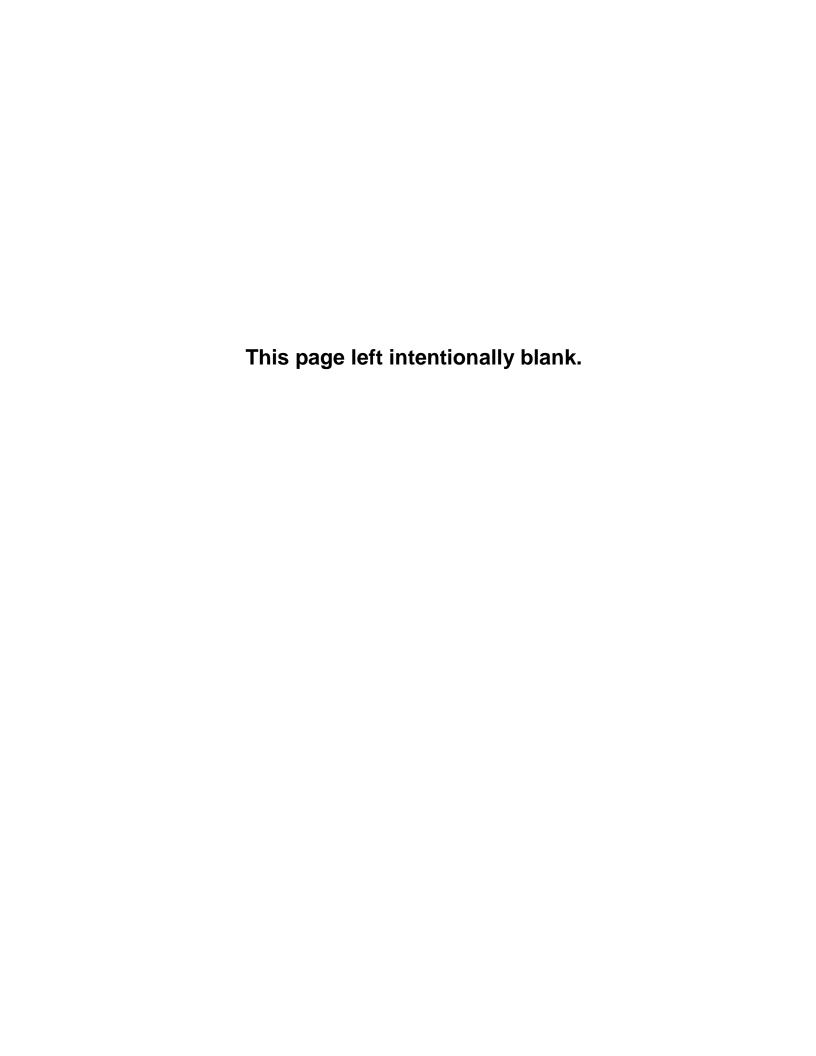
Table 3 – Polic	y Performance
Policy Commitment	2019 Performance
	interested parties. Northwest Biosolids also has a free monthly e-Bulletin for non-members. In 2015, based on extensive research, the Northwest Biosolids association published a public-friendly risk brochure explaining how long it takes for workers and other "exposed populations" to accumulate a dose-equivalent of pharmaceuticals or personal care products from exposure to biosolids (most in the thousands to hundred-thousands of years). This publication remains one of the best references to address emerging constituents of concern.
7. Demonstrate the benefits of biosolids compost by using it at the District's facilities.	OCSD maintains compost piles at each plant. This compost is available to our employees and our landscape contractor to demonstrate the benefits of compost. OCSD encourages employees to share their compost use photos. OCSD continues long-term monitoring of our composted biosolids demonstration planter that contains drought-tolerant and native species.

<u>Ten Tenets of OCSD's Biosolids Management Plan</u>
Read more on OCSD's Ten Tenets and the Biosolids Master Plan at <u>ocsd.com/bmp</u>.

Table 4 – Ten Tene	ts of Biosolids Management Performance
Tenet Commitment	2019 Performance
Allocate up to 50 percent of biosolids per biosolids contractor.	Each contractor received less than 50% of OCSD's biosolids. See Table 2 for relative tonnage distribution this year. See OCSD's current map of where OCSD's biosolids are allocated at ocsd.com/map .
2. Allocate up to 50 percent of biosolids to each geographic end use market.	Sixty percent (60%) of OCSD's biosolids were turned into compost at four (4) regional facilities. Combined, these facilities distributed about 227,000 tons of composted biosolids in the following geographic markets: • 35.7% to San Bernardino County (28% increase over last year), • 32.5% to Riverside County (7% decrease over last year), • 16.3% to Kern County (19% decrease over last year), • 8.9% to Los Angeles County, • 5.3% to Maricopa County, Arizona, and • 1.5% to Orange County, The remaining 40% of OCSD's biosolids were used to raise crops, producing 6,100 tons of barley, oats, sorghum, and alfalfa for use in Arizona, California, and New Mexico.
Maintain at least three (3) different biosolids management facilities at any time.	OCSD maintained five (5) different management facilities. See Table 2 for relative tonnage distribution this year. See OCSD's current map of where OCSD's biosolids are allocated at ocsd.com/map .

	Table 4 – Ten Tenets of Biosolids Management Performance Zenet Commitment 2019 Performance												
	Tenet Commitment	2019 Performance											
4.	Maintain at least two (2) different biosolids management practices at any time.	OCSD maintained two (2) different management practices, composting and land application (direct farming of feed crops with biosolids). See Table 2 for relative tonnage distribution this year. See OCSD's current map of where OCSD's biosolids are allocated at ocsd.com/map .											
5.	Maintain at least two (2) different hauling companies within the biosolids management portfolio.	OCSD and its biosolids management contractors utilized three (3) different hauling companies (GIC, Tule Ranch/Western Express, and Denali Water Solutions).											
6.	Maintain at least 200 percent (2 times daily production) contingency capacity at end use sites.	OCSD maintained an average of 1367% (13.7 times daily production) contingency capacity.											
7.	Maintain 20 percent (1.2 times daily production) fail-safe hauling capacity.	OCSD maintained a range of 41-76% (1.4-1.8 times daily production) fail-safe hauling capacity.											
8.	Track and encourage development of emerging markets and/or end uses for biosolids, especially for local end use options.	The 2019 Strategic Plan developed by the Board of Directors and staff defines the strategic initiatives to be pursued by OCSD and provides a basis for long-term financial, capital, and operational planning. The Biosolids Management Policy initiative in the document includes commitments to educate and advocate with the local, state, and federal agencies to assure biosolids will continue to be safely and legally used as a soil amendment and monitor and research constituents of emerging concern such as PFAS and microplastics that may impact biosolids. In 2020, OCSD will be issuing a Biosolids Energy request for information that will reflect OCSD's commitment to stay abreast of new technology options to convert organics to energy and other regional biosolids recycling and renewable energy partnerships within Southern California. In 2018, OCSD's composting partner, Inland Empire Regional Composting Authority (IERCA), expanded their buy-back program to OCSD member cities and agencies. This program offers discounted compost to incentivize the local use of compost. In 2019, IERCA provided bagged compost for OCSD's annual "State of the District" and OCSD 65th Anniversary Open House events.											
9.	Allocate up to 10 percent of total biosolids production for participation in emerging markets, including participation in pilot or demonstration projects.	OCSD'S Board of Directors approved the 2019 Strategic Plan. The strategic plan defines Biosolids Management Policy initiatives that include commitments to educate and advocate with the local, state, and federal agencies to assure biosolids will continue to be safely and legally used as a soil amendment and monitor and research constituents of emerging concern such as PFAS and microplastics that may impact biosolids. In addition, OCSD will stay abreast of new technology options to convert											

Table 4 – Ten Tene	ts of Biosolids Management Performance
Tenet Commitment	2019 Performance
	organics to energy and other regional biosolids recycling and renewable energy partnerships within Southern California. No tonnage was allocated to emerging markets or pilots for this
10. Explore partnerships with area soil blenders to allow incorporation of OCSD's Class A product into local markets.	reporting year. OCSD is following the work being done by San Francisco Public Utilities Commission on their research and development of their temperature-phase anaerobically digested biosolids soil blend product. In particular, the blend and product distribution to local markets. OCSD's efforts will follow suit at the appropriate time since OCSD facilities are expected to be commissioned in about 2030.



APPENDIX A

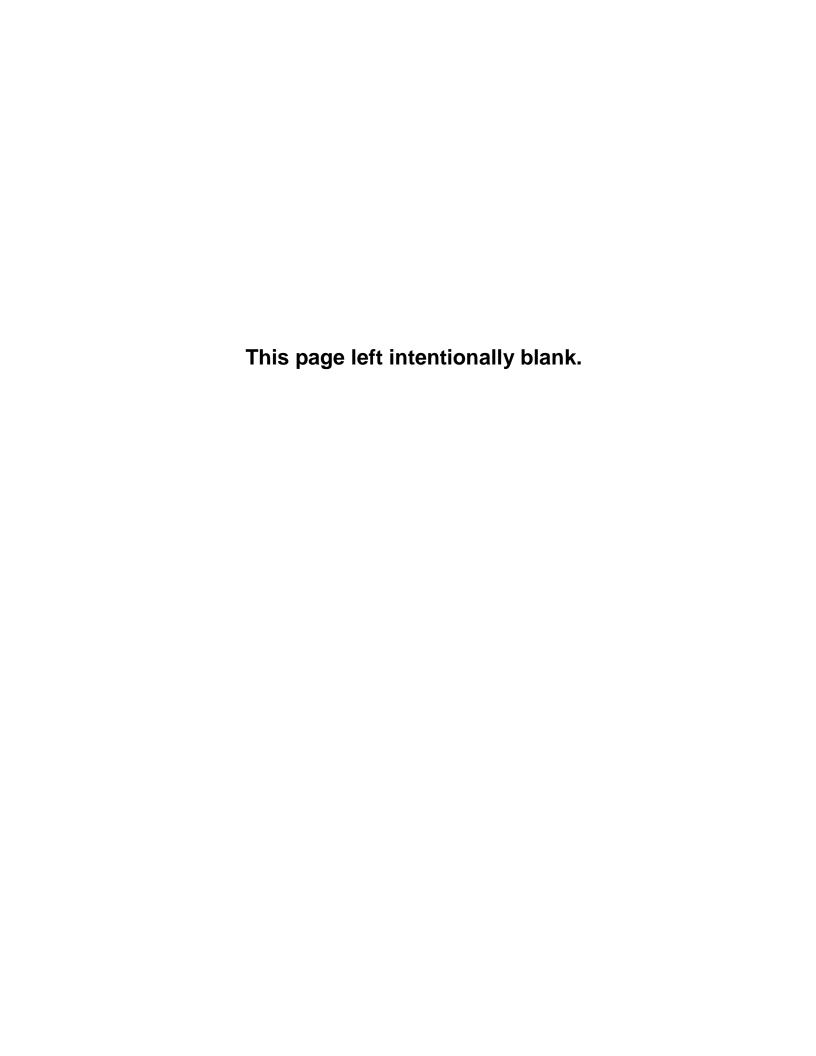


Table 1: OCSD Biosolids Wet and Dry Tonnage Distribution

Reclamation Plant No. 1, Fountain Valley, CA

		Reciamation Figure 1, Fountain valley, CA													
Process Assessment	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Annual Average		
Biosolids Total Solids (%)	20	24	23	22	22	23	24	25	26	25	26	27	24		
Quantity Generated	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Tot	al	
Synagro - Nusery Products CA - compost (wet tons)	7,546	6,526	7,291	6,788	6,627	5,522	6,660	6,391	6,165	6,567	6,089	6,286	78,458		
Synagro - Nusery Products CA -			-	-		-	·								
compost (dry metric tons)	1,369	1,421	1,521	1,324	1,322	1,127	1,450	1,420	1,426	1,459	1,408	1,539	16,786	Total	
Synagro-AZ Soils-compost (wet tons)	516	48	25	17	48	0	0	0	0	0	0	0	654	i otai	
Synagro - AZ Soils-compost (dry metric tons)	94	11	5	3	10	0	0	0	0	0	0	0	122	Wet Tons	
Tule Ranch AZ - land application (wet tons)	316	49	127	268	249	526	1,370	1,373	1,420	1,967	1,695	1,886	11,246	122,070	
Tule Ranch AZ - land application (dry metric tons)	57	11	27	52	50	107	298	305	328	437	392	462	2,526		
Liberty Compost CA (wet tons)	3,908	2,024	1,935	2,362	2,039	1,980	2,578	2,574	2,504	2,983	3,023	2,793	30,703		
Liberty Compost CA (dry metric tons)	709	441	404	461	407	404	561	572	579	663	699	684	6,583		
Inland Empire Regional Composting (wet tons)	0	0	0	0	0	0	0	0	0	0	0	0	0		
Inland Empire Regional Composting (dry metric tons)	0	0	0	0	0	0	0	0	0	0	0	0	0.0		
Total Wet Tons	12,285	8,648	9,378	9,435	8,963	8,028	10,608	10,339	10,089	11,517	10,807	10,965	121,061		
Total Dry Metric Tons	2,228	1,883	1,956	1,840	1,788	1,638	2,309	2,297	2,333	2,559	2,500	2,685	26,018		
Digester Cleanings	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Total		
				Dig 5					Dig 9			Dig 9			
Digester Cleaning Total Solids Synagro AZ Soils (average)									20%			20%			
Synagro AZ Soils (compost) (wet tons) (digester cleanings only)	0	0	0	0	0	0	0	0	174	0	0	24	198	Dry Tons	
Synagro, AZ Soils (compost) (dry metric tons)	0	0	0	0	0	0	0	0	32	0	0	4	36	26,420	
(digester cleanings only) Digester Cleaning Total Solids Synagro Nursery Products	- U	- U	O O	· ·	O O	U	· ·	· ·	OL.		O O	7	00		
(average)				59%					23%			20%			
Synagro Nursery Products (compost) (wet tons) (digester cleanings only)	0	0	0	602	0	0	0	0	187	0	0	22	811		
Synagro, Nursery Products (compost) (dry metric tons) (digester cleanings only)	0	0	0	324	0	0	0	0	39	0	0	4	367	-	
Total Wet Tons (Biosolids plus Digester Cleanings)	12,285	8,648	9,378	10,037	8,963	8,028	10,608	10,339	10,450	11,517	10,807	11,011	122,070		
Total Dry Metric Tons (Biosolids plus Digester Cleanings)	2,228	1,883	1,956	2,164	1,788	1,638	2,309	2,297	2,404	2,559	2,500	2,694	26,420		

FOOTNOTE: Digester cleanings percent total solids are sampled for each truck to calculate the dry metric tons for each truckload. The total dry metric tons reported above are based on the totals of each truckload's dry metric tons and may therefore vary slightly compared multiplying the average percent total solids times the total wet tons and conversion factor of 0.907.

Table 2: OCSD Biosolids Wet and Dry Tonnage Distribution

Wastewater Treatment Plant No. 2, Huntington Beach, CA

Wastewater Treatment Flant No. 2, Huntington Beach, CA														
Process Assessment	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Annual Average	
Biosolids Total Solids (%)	21	20	20	26	26	24	25	27	29	28	27	30	25	
Quantity Generated	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Tot	al
Synagro - Nusery Products CA - compost (wet tons)	126	428	76	0	0	0	25	0	0	25	0	0	680	
Synagro - Nusery Products CA - compost (dry metric tons)	24	78	14	0	0	0	6	0	0	6	0	0	128	
Synagro-AZ Soils-compost (wet tons)	0	74	0	0	0	0	0	0	0	0	0	0	74	
Synagro - AZ Soils-compost (dry metric tons)	0	13	0	0	0	0	0	0	0	0	0	0	13	Total
Tule Ranch AZ - land application (wet tons)	10,039	8,474	8,875	7,519	7,458	5,917	5,781	5,584	4,973	5,090	4,937	5,202	79,847	Wet Tons
Tule Ranch AZ - land application (dry metric tons)	1,912	1,537	1,610	1,773	1,759	1,288	1,311	1,367	1,308	1,293	1,209	1,415	17,782	108,463
Liberty Compost CA (wet tons)	480	1,639	1,087	1,543	1,467	964	887	755	481	454	176	606	10,537	
Liberty Compost CA (dry metric tons)	91	312	207	294	279	184	169	144	92	86	34	115	2,007	
Inland Empire Regional Composting (wet tons)	1,067	917	1,020	951	951	609	855	758	709	687	691	810	10,022	
Inland Empire Regional Composting (dry metric tons)	203	175	194	181	181	116	163	144	135	131	132	154	1,908.9	
Total Wet Tons	11,711	11,531	11,057	10,013	9,875	7,489	7,548	7,096	6,163	6,256	5,803	6,618	101,160	
Total Dry Metric Tons	2,231	2,115	2,025	2,248	2,219	1,587	1,648	1,655	1,535	1,516	1,374	1,685	21,839	
Digester Cleanings														
	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Total	
				Dig F	Dig F	Dig J & S	Dig G & S	Dig G & K		Dig I	Dig I & O			
Digester Cleaning Total Solids Synagro AZ Soils (average)						54%	57%	58%		49%	56%			Dry Tons
Synagro AZ Soils (compost) (wet tons) (digester cleanings only)	0	0	0	0	0	507	708	434	0	166	392	0	2,208	25,582
Synagro, AZ Soils (compost) (dry metric tons) (digester cleanings only)	0	0	0	0	0	248	366	228	0	74	199	0	1,116	
Digester Cleaning Total Solids Synagro Nursery Products													,	
(average) Synagro Nursery Products				55%	58%	54%	58%	59%		54%	55%			
(compost)														
(wet tons) (digester cleanings only) Synagro, Nursery Products (compost)	0	0	0	23	1431	803	1111	670	0	498	559	0	5,095	
(dry metric tons) (digester cleanings only)	0	0	0	11	757	393	585	358	0	244	279	0	2,627	
Total Wet Tons (Biosolids plus Digester Cleanings)	11,711	11,531	11,057	10,036	11,307	8,799	9,367	8,200	6,163	6,920	6,755	6,618	108,463	
Total Dry Metric Tons (Biosolids plus Digester Cleanings)	2,231	2,115	2,025	2,260	2,976	2,229	2,599	2,242	1,535	1,834	1,852	1,685	25,582	

FOOTNOTE: Digester cleanings percent total solids are sampled for each truck to calculate the dry metric tons for each truckload. The total dry metric tons reported above are based on the totals of each truckload's dry metric tons and may therefore vary slightly compared multiplying the average percent total solids times the total wet tons and conversion factor of 0.907.



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

Monitoring Period: January 1- 31, 2019

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

Sampling date(s): 01/16/19 (Plant 1),01/22/19, 1/29/19

	Mercury (mg/kg dry)	Arsenic (mg/kg dry)	Cadmium (mg/kg dry)	Chromium (mg/kg dry)			Molybdenum (mg/kg dry)		Selenium (mg/kg dry)	(mg/kg dry)		Organic Nitrogen (mg/kg dry)	Total Nitrogen (mg/kg dry)	pН	Total Solids (%)	VSR (%)
Plant 1 Max/Min*	0.63	16	1.8 DNQ	43	490	14	14	31	<2.6	680	5,500	55,000	60,000	7.6	17	55
Plant 1 Avg	0.63	16	1.8 DNQ	36	420	11	14	28	<2.6	610	5,500	53,000	58,000		20	
Plant 2 Max/Min*	0.89	24	4.4	68	570	16	18	48	<2.8	820	6,300	44,000	50,000	7.6	20	66
Plant 2 Avg	0.73	21	4.4	49	550	14	17	40	<2.8	760	5,800	42,000	47,000		21	
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)**	20	68	Out of Service	19	19	20	20	20	20	20	20
Minimum Temperature (Min 95 °F)	97	97	Out of Service	98	98	98	98	98	98	98	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)**	19	21	19	Out of Service	19	19	97	18	19	18	19	Out of Service	19	Out of Service	19	20	18	21
Minimum Temperature (Min 95 °F)	97	98	99	Out of Service	97	98	100	98	98	97	98	Out of Service	98	Out of Service	99	99	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).



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

Monitoring Period: January 1- 31, 2019

** MCRT based on a 15-Day Rolling Average. Note that Digester 7 and Digester H were brought into service at the end of the month which resulted in higher than usual MCRTs.

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@ocsd.com (714) 593-7081 Ron Coss Laboratory, Monitoring & Compliance Manager rcoss@ocsd.com (714) 593-7508

Cindy Vellucci
Cindy Vellucci (Apr 9, 2019)

DP

Peter Park
Peter Park (Apr 10, 2019)

Margil Jimenez
Margil Jimenez (Apr 15, 2019)



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

Monitoring Period: February 1- 28, 2019

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

Sampling date(s): 02/19/19, 02/26/19

	Mercury (mg/kg dry)	4 40 20 20 20 20 20		Chromium (mg/kg dry)			Molybdenum (mg/kg dry)		Selenium (mg/kg dry)			Organic Nitrogen (mg/kg dry)	Total Nitrogen (mg/kg dry)	pH	Total Solids (%)	VSR (%)
Plant 1 Max/Min*	0.91	21	1.6 DNQ	38	490	11	17	36	<48	590	5,100	50,000	55,000	7.6	23	60
Plant 1 Avg	0.89	20	1.4 DNQ	37	450	11	16	35	<48	570	5,100	47,000	52,000		24	
Plant 2 Max/Min*	0.72	23	4.0	41	500	13	17	40	<2.8	690	6,100	45,000	51,000	7.7	19	56
Plant 2 Avg	0.57	22	3.8	41	480	13	17	38	<2.8	660	6,100	43,000	49,000		20	
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)**	22	25	Out of Service	21	21	21	21	21	21	21	21
Minimum Temperature (Min 95 °F)	98	98	Out of Service	98	98	98	98	98	98	98	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	21	19	Out of Service	20	20	22	18	19	19	19	Out of Service	20	Out of Service	20	20	18	21
Minimum Temperature (Min 95 °F)	97	97	98	Out of Service	97	97	100	98	97	100	97	Out of Service	98	Out of Service	99	100	99	98

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

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

^{*} 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).



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

Monitoring Period: February 1- 28, 2019

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@ocsd.com (714) 593-7081 Ron Coss Laboratory, Monitoring & Compliance Manager rcoss@ocsd.com (714) 593-7508

Cindy Vellucci
Cindy Vellucci (Apr 15, 2019)

200

Red V- Exl

Peter Park
Peter Park (Apr 22, 2019

Margil Jimenez
Wargil Jimenez (Apr 22, 2019)



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

Monitoring Period: March 1- 31, 2019

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

Sampling date(s): 03/19/19, 03/26/19, 03/28-29/19

	Mercury (mg/kg dry)	Arsenic (mg/kg dry)	Cadmium (mg/kg dry)	Chromium (mg/kg dry)	p p		Molybdenum (mg/kg dry)		Selenium (mg/kg dry)				Total Nitrogen (mg/kg dry)	pH	Total Solids (%)	VSR (%)
Plant 1 Max/Min ¹	1.4	13	1.5 DNQ	49	440	12	15	34	<2.5	640	5,200	59,000	64,000	7.8	22	55 ²
Plant 1 Avg	1.1	11 DNQ	1.2 DNQ	41	390	9.9	13	31	<2.5	570	5,100	57,000	62,000		23	
Plant 2 Max/Min ¹	1.0	20	4.1	59	600	16	24	42	<2.9	910	6,100	55,000	61,000	8.0	20 ³	66
Plant 2 Avg	0.91	15 DNQ	3.0 DNQ	46	480	12	19	34	<2.9	730	6,000	51,000	57,000		20 ³	
Table 1 (Max/Min) ¹	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) ⁴	20	20	Out of Service	19	19	20	20	19	20	19	20
Minimum Temperature (Min 95 °F)	97	99	Out of Service	98	98	99	98	98	98	98	97

OCSD Plant 2	System Summary	Dig. C	Dig. D	Dig. E	Dig. F	Dig. G	Dig. H	Dig. I	Dig. J	Dig. L	Dig. M	Dig. N	Dig. O	Dig. P	Dig. Q	Dig. R	Dig. S	Dig. T
Minimum Mean Cell Residence Time (Min 15 days) ⁴	20	21	20	27 ⁵	20	20	21	20	Out of Service	20	20	Out of Service	20	Out of Service	20	20	20	21
Minimum Temperature (Min 95 °F)	98	100	100	102	100	100	98	99	Out of Service	100	99	Out of Service	99	Out of Service	98	101	100	98



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

Monitoring Period: March 1-31, 2019

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

¹ 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).

² OCSD's new Plant No. 1 co-thickening centrifuges began processing sludge in late March 2019. The new processed stream is called centrifuge thickened sludge (CTS) and combines and thickens solids flows from the primaries (sludge and scum) and secondaries (trickling filter sludge, activated sludge plant surface waste, and waste activated sludge). The CTS was sampled and analyzed by an Arizona-certified laboratory resulting in a volatile solids value of 4.7%. The VSR calculation could not be completed for the March 28th sampling event because the corresponding primary and secondary volatile solids samples were not taken on that same day. Based on the most conservative compliance and process data, OCSD did not drop below the 38% minimum compliance level for the reduction in volatile solids content.

³ Plant No. 2 began commissioning dewatering centrifuges in late March, which will result in higher percent total solids.

⁴ MCRT based on a 15-Day Rolling Average.

⁵ Digester E was brought into service on March 26, 2019.

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.

201

Jim Spears Operations Manager jspears@ocsd.com (714) 593-7081 Ron Coss (Aug 19, 2019)

Ron Coss Laboratory, Monitoring & Compliance Manager

Ron Coss

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Cindy Vellucci

2/2

Redel V- Exl

Peter Park (Aug 15, 2019)

Deirdre Bingman

Rachel van Exel



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

Monitoring Period: April 1-30, 2019

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

Sampling date(s): 04/09/19, 04/15-16/19

	Mercury (mg/kg dry)			Chromium (mg/kg dry)		Lead (mg/kg dry)	Molybdenum (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)	рН	Total Solids (%)	VSR (%)
Plant 1 Max/Min ¹	1.0	14	1.4 DNQ	43	720	11	18	32	<2.6	700	6,000	65,000	71,000	7.8	21	62
Plant 1 Avg	0.97	13 DNQ	1.3 DNQ	39	560	11	16	30	<2.6	640	5,600	60,000	65,000		22	
Plant 2 Max/Min ¹	0.75	14	3.0	44	860	13	20	37	<2.7	730	5,500	60,000	64,000	7.8	19	72
Plant 2 Avg	0.59	13 DNQ	3.0	44	670	13	20	37	<2.7	730	5,000	56,000	61,000		25 ³	
Table 1 (Max/Min) ¹	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) ²	19	20	Out of Service	19	19	20	20	19	19	19	19
Minimum Temperature (Min 95 °F)	98	98	Out of Service	98	98	98	98	98	98	98	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) ²	22	22	22	24	23	22	22	22	Out of Service	22	22	Out of Service	22	Out of Service	22	22	22	22
Minimum Temperature (Min 95 °F)	96	97	99	96	101	99	97	100	Out of Service	99	98	Out of Service	98	Out of Service	99	99	98	98

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

² MCRT based on a 15-Day Rolling Average.

¹ 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).

³ Plant No. 2 began commissioning dewatering centrifuges in late March, which has resulted in higher percent total solids.

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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: April 1-30, 2019

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 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.

351

Jim Spears Operations Manager jspears@ocsd.com (714) 593-7081 Ron Coss (Aug 27, 2019)

Ron Coss Laboratory, Monitoring & Compliance Manager rcoss@ocsd.com (714) 593-7508

Cindy Vellucci

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Peter Park Peter Park (Aug 20, 2019)

Deirdre Bingman

Rachel van Exel



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

Monitoring Period: May 1-31, 2019

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

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

	Mercury (mg/kg dry)			Chromium (mg/kg dry)			Molybdenum (mg/kg dry)		Selenium (mg/kg dry)				Total Nitrogen (mg/kg dry)	pH	Total Solids (%)	VSR (%)
Plant 1 Max/Min ¹	0.83	7.7 DNQ	1.2 DNQ	30	370	11	14	23	<2.5	540	12,000	49,000	60,000	7.7	22	68²
Plant 1 Avg	0.83	7.3 DNQ	1.2 DNQ	29	360	9.9	13	23	<2.5	520	12,000	47,000	59,000		22	
Plant 2 Max/Min ¹	0.73	12 DNQ	9.0	36	430	12	18	32	<2.4	630	12,000	40,000	52,000	7.9	20	41
Plant 2 Avg	0.67	9.4 DNQ	6.7	32	340	10	15	29	<2.4	500	9,700	35,000	45,000		26	
Table 1 (Max/Min) ¹	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) ^{3, 4}	23	24	Out of Service	23	23	24	24	24	24	23	23
Minimum Temperature (Min 95 °F)	97	98	Out of Service	98	97	98	98	98	98	98	97

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

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

¹ 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).

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

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, CA

Monitoring Period: May 1-31, 2019

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

Certifications:

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

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Jim Spears Operations Manager

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Cindy Vellucci

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Peter Park (Aug 20, 2019)

Deirdre Bingman

Rachel Van Exel



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

Monitoring Period: June 1- 30, 2019

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

Sampling date(s): 06/04/19, 06/10-11/19

	Mercury (mg/kg dry)	Arsenic (mg/kg dry)	Cadmium (mg/kg dry)	Chromium (mg/kg dry)	Copper (mg/kg dry)	Lead (mg/kg dry)	Molybdenum (mg/kg dry)	Nickel (mg/kg dry)	Selenium (mg/kg dry)	Zinc (mg/kg dry)	Ammonia Nitrogen (mg/kg dry)	Organic Nitrogen (mg/kg dry)	Total Nitrogen (mg/kg dry)	pН	Total Solids (%)	VSR (%)
Plant 1 Max/Min ¹	1.3	12 DNQ	2.2	44	610	13	21	38	<2.6	820	9,800	48,000	58,000	7.6	21	63
Plant 1 Avg	1.0	8.0 DNQ	2.0 DNQ	44	600	13	20	36	<2.6	810	9,200	47,000	57,000		23	1 3
Plant 2 Max/Min ¹	0.66	14	9.2	45	590	15	24	43	<2.3	780	6,700	43,000	49,000	7.7	19	52
Plant 2 Avg	0.60	9.7 DNQ	8.4	43	590	14	22	40	<2.3	780	6,600	41,000	47,000		24	
Table 1 (Max/Min) ¹	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) ^{2,3}	28	28	Out of Service	28	28	28	28	28	29	28	28
Minimum Temperature (Min 95 °F)	98	98	Out of Service	98	98	98	98	98	98	98	98

OCSD Plant 2	System Summary		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) ²	22	22	22	22	Out of Service	23	23	22	Out of Service	22	22	Out of Service	22	Out of Service	23	22	Out of Service	23
Minimum Temperature (Min 95 °F)	99	100	100	99	Out of Service	100	100	101	Out of Service	99	100	Out of Service	99	Out of Service	99	100	Out of Service	100

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

² MCRT based on a 15-Day Rolling Average.

¹ 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).

³ Plant No. 1's new centrifuge thickened sludge (CTS) facility commissioning process has resulted in higher detention times. In addition, flowmeter variations that were discovered at the end of May and resolved in June did not cause OCSD's detention time to drop below the 15-day minimum compliance level for Process to Significantly Reduce Pathogens (PSRP).

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

Monitoring Period: June 1- 30, 2019

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 Operations Manager

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Cindy Vellucci

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Peter Park (Aug 20, 2019)

Deirdre Bingman

Rachel Van Exel



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

Monitoring Period: <u>July 1- 31, 2019</u> ***REVISED on 2/18/2020***

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

Sampling date(s): 07/16/19, 7/23/19

	Mercury (mg/kg dry)	1.000	Proposition of the latest through the	Chromium (mg/kg dry)	Relician Study Soll?	The Control of the Co	Molybdenum (mg/kg dry)	00000-04-44-44-469000	Selenium (mg/kg dry)	PRINCIPLE AND ADDRESS OF THE PARTY OF THE PA		Nitrogen	Total Nitrogen (mg/kg dry)	рН	Total Solids (%)	VSR (%)
Plant 1 Max/Min ¹	0.82	<6.4	2.8	50	580	14	22	37	<3.9	800	13,000	66,000	73,000	7.9	24	74
Plant 1 Avg	0.773	<6.4	2.7	48	560	14	22	35	<3.9	800	10,000	56,000	66,000	5 527	24	
Plant 2 Max/Min ¹	0.69	<6.3	4.8	47	540	16	24	36	<3.8	740	8,400	57,000	64,000	7.8	24	58
Plant 2 Avg	0.633	<6.3	4.5	46	510	15	24	35	<3.8	740	7,700	51,000	59,000		25	
Table 1 (Max/Min) 1	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) ²	27	28	Out of Service	27	27	28	27	28	28	27	27
Minimum Temperature (Min 95 °F)	98	98	Out of Service	98	98	98	98	98	98	98	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) ²	22	22	22	22	Out of Service	22	22	22	Out of Service	22	22	Out of Service	22	464	22	22	Out of Service	22
Minimum Temperature (Min 95 °F)	98	100	98	99	Out of Service	100	99	101	Out of Service	101	100	Out of Service	99	99	99	101	Out of Service	99

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

¹ 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). ² MCRT based on a 15-Day Rolling Average.

³ Revisions have been made to the mercury Plant No. 1 and Plant No. 2 averages due to contract laboratory calculation error.

⁴ Digester P was brought into service on October 30, 2019.



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

Monitoring Period: <u>July 1- 31, 2019</u> ***REVISED on 2/18/2020***

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
Operations Manager

jspears@ocsd.com (714) 593-7081 Ron Coss (Feb 19, 2020)

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Cindy Vellucci

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Peter Park Peter Park (Feb 18, 2020) Lan C. Wiborg

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Deirdre Bingman

Rachel Van Exel

Peter Park



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

Monitoring Period: August 1-31, 2019

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

Sampling date(s): 08/20/19, 08/27/19

	Mercury (mg/kg dry)			Chromium (mg/kg dry)		Lead (mg/kg dry)	Molybden um (mg/kg dry)		Selenium (mg/kg dry)	Zinc (mg/kg dry)		Nitrogen	Total Nitrogen (mg/kg dry)	рН	Total Solids (%)	VSR (%)
Plant 1 Max/Min ¹	0.71	<6.4	2.0	44	520	13	21	32	<3.9	770	12,000	46,000	56,000	8.1	24	65
Plant 1 Avg	0.67	<6.4	2.0 DNQ	37	440	12	18	27	<3.9	760	10,000	45,000	56,000		25	
Plant 2 Max/Min ¹	0.61	<6.3	3.4	44	500	17	19	33	<3.8	760	10,000	40,000	50,000	8.1	24	44
Plant 2 Avg	0.58	<6.3	3.2	35	410	16	17	26	<3.8	740	8,900	35,000	44,000		27	
Table 1 (Max/Min) ¹	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) ²	29	29	Out of Service	29	29	29	29	29	30	29	29
Minimum Temperature (Min 95 °F)	98	98	Out of Service	98	98	98	98	98	98	98	98

OCSD Plant 2	System Summary	Dig. C	Dig. D	Dig. E	Dig. F	Dig. G	Dig. H	Dig. I	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) ²	24	23	23	23	Out of Service	Out of Service	23	Out of Service	23	23	Out of Service	23	24	24	24	Out of Service	23
Minimum Temperature (Min 95 °F)	99	99	100	99	Out of Service	Out of Service	100	Out of Service	102	102	Out of Service	100	100	100	100	Out of Service	100

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

² MCRT based on a 15-Day Rolling Average.

¹ 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).



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

Monitoring Period: August 1-31, 2019

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 Operations Manager

jspears@ocsd.com (714) 593-7081 Ron Coss (Oct 21, 2019)

Ron Coss

Laboratory, Monitoring & Compliance Manager

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Reviewers:

Cindy Vellucci

211

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Peter Park
Peter Park (Oct 15, 2019)

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Deirdre Bingman

Rachel Van Exel

Peter Park



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

Monitoring Period: September 1- 30, 2019

s compliance with requirements of the Code of Federal Regulations Title 40 Part 503 and the Arizona

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): 09/17/19, 09/24/19

	Mercury (mg/kg dry)		Cadmium (mg/kg dry)				Molybdenum (mg/kg dry)		Selenium (mg/kg dry)	(mg/kg dry)		Nitrogen	Total Nitrogen)(mg/kg dry)	pН	Total Solids (%)	VSR (%)
Plant 1 Max/Min*	1.0	<6.0	2.2	47	550	12	21	35	<3.6	820	13,000	42,000	55,000	8.1	25	41
Plant 1 Avg	0.92	<6.0	2.0 DNQ	47	530	10	21	35	<3.6	790	13,000	42,000	54,000		26	
Plant 2 Max/Min*	0.84	<5.5	3.4	43	550	16	18	33	<3.4	720	8,600	41,000	49,000	8.1	28	48
Plant 2 Avg	0.72	<5.5	3.0	43	520	14	18	33	<3.4	700	8,500	40,000	49,000		29	
Table 1 (Max/Min)*	57	75	85	3000	4300	840	75	420	100	7500	N/A	N/A	N/A	6.5	15	38
Table 3 (Avg)	17	41	39	N/A	1500	300	N/A	420	100	2800	N/A	N/A	N/A	N/A	N/A	N/A

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	Out of Service	31	27	28	28	28	28	28	28
Minimum Temperature (Min 95 °F)	97	98	Out of Service	99	98	98	98	97	98	98	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)**	24	23	23	23	Out of Service	Out of Service	23	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Out of Service	23	23	Out of Service	23	24	24	23	Out of Service	23
Minimum Temperature (Min 95 °F)	99	99	99	99	Out of Service	Out of Service	99	T 2 12 2 12 2 12 12 12 12 12 12 12 12 12	Out of Service	102	102	Out of Service	100	99	99	101	Out of Service	100

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, CA

Monitoring Period: September 1- 30, 2019

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.

Jim Spears

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

Monitoring Period: October 1- 31, 2019

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

Sampling date(s): 10/15/19,10/22/19

	Mercury (mg/kg dry)	Arsenic (mg/kg dry)	The second second second	Chromium (mg/kg dry)		A STREET, STORY Professional Contract of the Con-	Molybdenum (mg/kg dry)		Selenium (mg/kg dry)			Organic Nitrogen (mg/kg dry)	Total Nitrogen (mg/kg dry)	pH	Total Solids (%)	VSR (%)
Plant 1 Max/Min*	0.82	<6.3	1.9	49	560	10	21	41	<3.9	770	12,000	59,000	66,000	7.9	24	64
Plant 1 Avg	0.79	<6.3	1.8 DNQ	49	550	10	21	41	<3.9	750	9,600	51,000	61,000		25	
Plant 2 Max/Min*	0.63	<5.6	3.1	44	560	16	19	36	<3.4	720	5,500	55,000	60,000	8.0	27	58
Plant 2 Avg	0.57	<5.6	3.0	44	550	16	19	36	<3.4	710	5,500	52,000	57,000		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)**	27	27	100000000000000000000000000000000000000	Out of Service	26	27	27	27	27	27	27
Minimum Temperature (Min 95 °F)	98	98		Out of Service	98	98	98	98	98	98	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)**	21	21	21	22	Out of Service	Out of Service	22		Out of Service	22	22	Out of Service	23	21	21	21	Out of Service	22
Minimum Temperature (Min 95 °F)	98	99	99	98	Out of Service	Out of Service	99	Out of Service	Out of Service	100	99	Out of Service	98	98	98	99	Out of Service	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, CA

Monitoring Period: October 1- 31, 2019

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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Ron Coss (Jan 13, 2020)

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

Monitoring Period: November 1- 30, 2019

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

Sampling date(s): 11/12/19,11/19/19

	Mercury (mg/kg dry)			Chromium (mg/kg dry)			Molybdenum (mg/kg dry)		Selenium (mg/kg dry)	The Children of the Control of the C		With the Control of t	Total Nitrogen (mg/kg dry)	рН	Total Solids (%)	VSR (%)
Plant 1 Max/Min ¹	0.69	<6.0	1.7 DNQ	49	510	14	20	35	<3.6	780	13,000	42,000	55,000	7.7	25	60
Plant 1 Avg	0.69	<6.0	1.3 DNQ	38	510	13	16	27	<3.6	640	11,000	41,000	53,000		26	
Plant 2 ¹ Max/Min	0.68	<6.1	2.9	52	490	23	18	36	<3.7	720	8,000	46,000	54,000	8.0	25	62
Plant 2 Avg	0.66	<6.1	2.2 DNQ	38	470	19	15	28	<3.7	590	7,200	46,000	53,000		27	
Table 1 (Max/Min) ¹	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) ³	23	22	3342	Out of Service	28	22	22	22	22	22	22
Minimum Temperature (Min 95 °F)	98	98	98	Out of Service	98	98	98	98	98	98	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) ³	21	20	21	21	Out of Service	Out of Service	21	Out of Service	Out of Service	21	21	344	Out of Service	21	21	20	Out of Service	21
Minimum Temperature (Min 95 °F)	98	98	99	98	Out of Service	Out of Service	98	Out of Service	Out of Service	98	99	98	Out of Service	98	100	100	Out of Service	98



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

Monitoring Period: November 1-30, 2019

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

- ¹ 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).
- ² Digester 8 went back in service on 11/26/19 and was fed CTS at 10 cuft/cycle.
- ³ MCRT based on a 15-Day Rolling Average.
- ⁴ Digester N was placed in service on 11/14/19.

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

Monitoring Period: December 1- 31, 2019

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

Sampling date(s): 12/03/19, 12/10/19

	Mercury (mg/kg dry)		Cadmium (mg/kg dry)				Molybdenum (mg/kg dry)		Selenium (mg/kg dry)	(mg/kg dry)		Nitrogen	Total Nitrogen (mg/kg dry)	pH	Total Solids (%)	VSR (%)
Plant 1 Max/Min ¹	1.0	<6.2	1.7 DNQ	50	520	10	17	33	<3.8	740	11,000	39,000	50,000	7.9	25	75
Plant 1 Avg	0.86	<6.2	1.4 DNQ	41	520	9.8	14	33	<3.8	720	9,400	39,000	49,000		27	
Plant 2 Max/Min ¹	0.50	<5.2	2.5	43	500	16	16	34	<3.2	700	8,100	46,000	52,000	7.8	29	55
Plant 2 Avg	0.47	<5.2	2.2	37	480	15	14	31	<3.2	700	7,200	45,000	52,000		30	
Table 1 (Max/Min) ¹	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) ²	28	26	43 ³	Out of Service	33 ³	26	26	26	26	26	26
Minimum Temperature (Min 95 °F)	98	98	99	Out of Service	99	99	99	99	99	98	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) ³	26	26	26	26	Out of Service		26	Out of Service	Out of Service	26	26	27	Out of Service	26	26	26	Out of Service	26
Minimum Temperature (Min 95 °F)	98	99	99	99	Out of Service		98	Out of Service	Out of Service	98	98	98	Out of Service	99	100	99	Out of Service	100



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

Monitoring Period: December 1- 31, 2019

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

¹ 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).

² MCRT based on a 15-Day Rolling Average.

³ Digester 8 came into service late in November. Digesters 8 and 10 were both fed less than the rest of the system causing higher detention times

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 Operations Manager jspears@ocsd.com (714) 593-7081 Ron Coss (Jan 29, 2020)

Ron Coss Laboratory, Monitoring & Compliance Manager rcoss@ocsd.com (714) 593-7508

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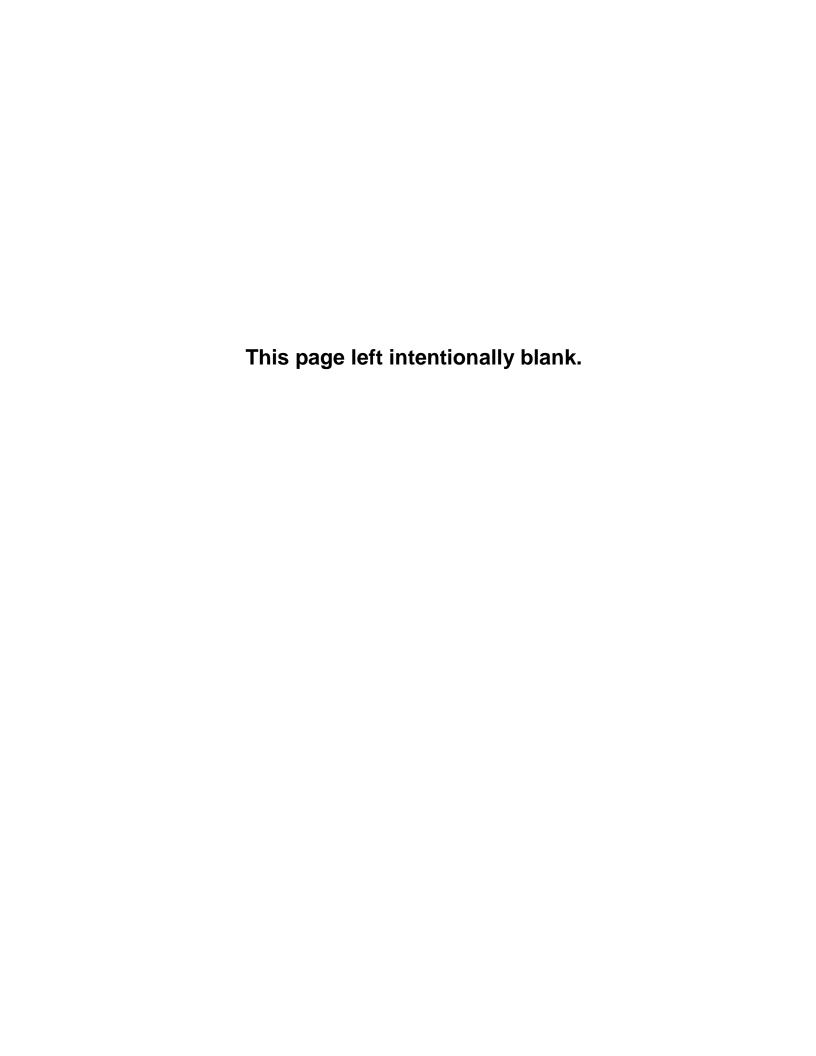
Peter Park Peter Park (Jan 29, 2020) Lan C. Wiborg

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Rachel Van Exel

Peter Park



SOLIDS MANAGEMENT PROGRAM

Introduction Biosolids Quality

SOLIDS MANAGEMENT PROGRAM

8.1 INTRODUCTION

This section provides an overview of OCSD's Biosolids Program, focusing on the 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 OCSD'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.

OCSD's annual biosolids compliance report was completed, submitted to regulators, and posted online in February. Visit OCSD.com/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

TABLE 8.1

Biosolids quality plays an important role in ensuring the continued recyclability of OCSD's biosolids. OCSD's pretreatment program has been extremely effective in reducing and maintaining levels of pollutants (e.g., OCSD's influent sewage meets drinking water standards for the biosolids monitoring metals). The ceiling concentrations and EQ (exceptional quality) concentrations promulgated by the EPA's biosolids regulations (40 CFR 503) are presented in the figures as a reference. For FY 2018/19, OCSD biosolids met the EQ limits for all the regulated parameters.

Trends in Trace Metal Content of Biosolids, Fiscal Years 2010-2019

		ation in mg/kg, c unty Sanitation D			ection Divis	ion		
		Exceptional		Plant 1			Plant 2	
	Fiscal	Quality						
Metal	Year	Limits	Min.	Max.	Avg	Min.	Max	Avg.
Arsenic		41						
	2009-10		2.0	10	5.2	4.4	10	7.2
	2010-11		7.2	9.7	8.4	8.6	12	10
	2011-12		2.3	11	7.4	6.6	66	22
	2012-13		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	23.5	16	9.4	23.5	18

TABLE 8.1 Trends in Trace Metal Content of Biosolids, Fiscal Years 2010-2019
(Concentration in mg/kg, dry weight)
Orange County Sanitation District, Resource Protection Division

		Exceptional		Plant 1			Plant 2	
	Fiscal	Quality						
Metal	Year	Limits	Min.	Max.	Avg.	Min.	Max.	Avg.
Cadmium		39						
	2009-10		1.1	4.4	2.9	1.0	4.8	2.8
	2010-11		1.2	3.8	2.6	1.4	5.0	2.5
	2011-12		0.8	6.0	3.8	1.1	4.4	3.6
	2012-13		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
		Exceptional		Plant 1			Plant 2	
	Fiscal	Quality			_			_
Metal	Year	Limits	Min.	Max.	Avg.	Min.	Max.	Avg.
Chromium		**						
	2009-10		29	56	44	30	54	47
	2010-11		41	58	47	50	66	59
	2011-12		42	74	52	40	70	56
	2012-13		42	56	49	42	59	49
	2013-14		39	52	45	40	53	46
	2014-15		30	51	40	34	70	46
	2015-16		31	89	46	28	60	46
	2016-17		30	89	49	29	67	46
	2017-18		27	38	34	38	54	44
	2018-19		29	58	39	32	53	45
	Fig. a.d	Exceptional		Plant 1			Plant 2	
Motol	Fiscal	Quality	N 4:	Mass	۸	N /1:	Max	۸
Metal	Year	Limits	Min.	Max.	Avg.	Min.	Max.	Avg.
Copper	0000 40	1,500	400	000	F 40	070	F00	F00
	2009-10		420	620	540	370	560	500
	2010-11		520	600	570	500	720	570
	2011-12		430	670	520	380	720	520
	2012-13		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

TABLE 8.1 Trends in Trace Metal Content of Biosolids, Fiscal Years 2010-2019 (Concentration in mg/kg, dry weight) Orange County Sanitation District, Resource Protection Division Plant 2 Exceptional Plant 1 Fiscal Quality Metal Year Limits Min. Max. Avg. Min. Max. Avg. Lead 300 2009-10 9.0 44 23 9.0 20 17 24 23 2010-11 21 9.0 30 20 2011-12 ND 25 9.0 ND 32 13 15 7.5 17 2012-13 7.5 19 14 2013-14* 13 17.5 14 13 17 14 2014-15* 8.7 13 9.0 17 15 13 8.3 20 12 17 13 2015-16* 8.0 2016-17* 7.9 20 11 7.5 17 12 2017-18* 8.9 19 12 16 10 13 2018-19 9.9 15 12 10.4 15 13 Exceptional Plant 1 Plant 2 Fiscal Quality Metal Year Limits Min. Max. Avg. Min. Max. Avg. 17 Mercury 2009-10 1.0 3.2 1.4 0.9 1.6 1.3 2010-11 8.0 2.2 1.3 8.0 2.3 1.2 1.4 2011-12 8.0 1.2 8.0 2.6 1.3 2012-13 0.7 4.1 1.5 8.0 3.8 1.4 2013-14 8.0 1.2 1.0 0.7 2.8 1.4 1.0 1.5 1.0 2014-15 1.5 1.1 1.0 2015-16 0.6 1.7 0.93 0.64 1.2 1.0 0.70 1.2 2016-17 0.53 1.7 0.90 0.90 2017-18 0.66 0.34 0.79 1.1 0.85 1.1 2018-19 0.6 0.6 1.1 0.86 1.0 0.77 Exceptional Plant 1 Plant 2 Quality Fiscal Limits Metal Year Min. Max. Avg. Min. Max. Avg. ** Molybdenum 2008-09 12 16 15 8.0 16 14 2009-10 6.0 16 13 6.0 14 10 2010-11 12 19 15 4.8 18 14 2011-12 6.5 18 13 12 20 17 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 14 13 18 16 15 2018-19 13 20 16 15 22 18

TABLE 8.1 Trends in Trace Metal Content of Biosolids, Fiscal Years 2010-2019 (Concentration in mg/kg, dry weight) Orange County Sanitation District, Resource Protection Division Exceptional Plant 1 Plant 2 Fiscal Quality Metal Year Limits Min. Max. Avg. Min. Max. Avg. Nickel 420 2009-10 12 36 28 9 27 21 37 14 32 2010-11 28 46 38 48 2011-12 15 35 20 39 31 48 40 23 30 2012-13 34 41 37 2013-14 36 55 43 28 56 26 47 37 26 41 34 2014-15 2015-16* 29 45 38 20 41 33 2016-17 25 45 36 21 41 32 2017-18 28 37 32 31 39 34 37 2018-19 23 44 33 29 44 Exceptional Plant 1 Plant 2 Fiscal Quality Metal Year Limits Min. Max. Avg. Min. Max. Avg. Selenium 100 2009-10 2.7 18 7.3 2.8 16 5.6 2010-11 2.8 26 11 3.7 26 9.8 2011-12 ND 26 9.0 ND 19 9.0 2012-13 0 20 9.0 0 20 8.0 2013-14* 3.5 13 7.9 4.2 13 8.3 7.1 4.5 15 7.3 2014-15* 4.1 13 2015-16* 4.4 11 8.1 3.7 10 7.6 2016-17* 10 8.4 4.1 4.8 10 8.0 2017-18* 3.0 7.8 4.9 2.7 8.0 4.9 2.3 2018-19* 2.5 48 6.6 2.9 2.7 Exceptional Plant 1 Plant 2 Quality Fiscal Limits Metal Year Min. Max. Avg. Min. Max. Avg. ** Silver 2009-10 10 18 15 7.4 13 10 2010-11 10 17 13 5.2 12 9.6 2011-12 7 14 10 4.0 12 8.5 2012-13 6.2 14 8.6 6.4 13 8.6 2013-14* 2.9 7.6 9.1 5.3 3.6 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 4.9 6.8 2017-18* 3.7 5 4.2 3.2 5.1 3.9

2.9

2018-19*

5.1

4.0

3.5

5.8

4.3

TABLE 8.1 Trends in Trace Metal Content of Biosolids, Fiscal Years 2010-2019
(Concentration in mg/kg, dry weight)
Orange County Sanitation District, Resource Protection Division

	Fiscal	Exceptional Quality		Plant 1			Plant 2	
Metal	Year	Limits	Min.	Max.	Avg.	Min.	Max.	Avg.
Zinc		2,800						
	2009-10		560	810	740	520	790	710
	2010-11		630	740	700	700	830	740
	2011-12		560	880	710	560	910	750
	2012-13		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		515	805	604	500	790	720

^{*}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.

^{**}EPA's extensive health risk analysis determined that no limits were needed for these metals (EPA 40CFR 503).

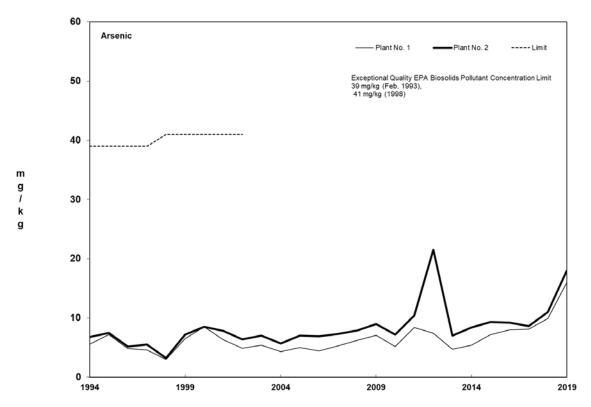


Figure 8-1 Trends in Concentrations of Arsenic in Biosolids, Fiscal Years 1994-2019
Orange County Sanitation District, Resource Protection Division

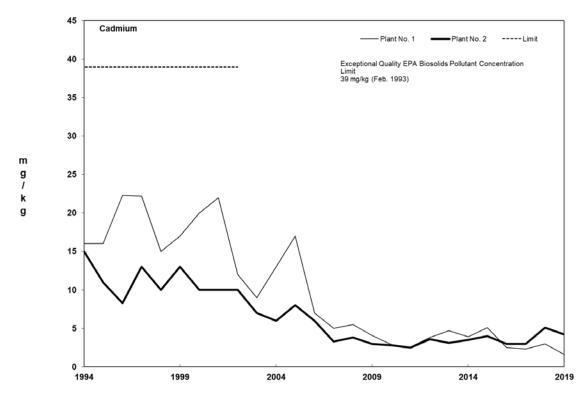


Figure 8-2 Trends in Concentrations of Cadmium in Biosolids, Fiscal Years 1994-2019
Orange County Sanitation District, Resource Protection Division

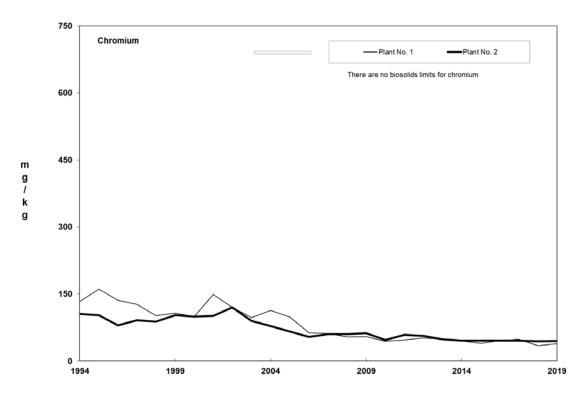


Figure 8-3 Trends in Concentrations of Chromium in Biosolids, Fiscal Years 1994-2019
Orange County Sanitation District, Resource Protection Division

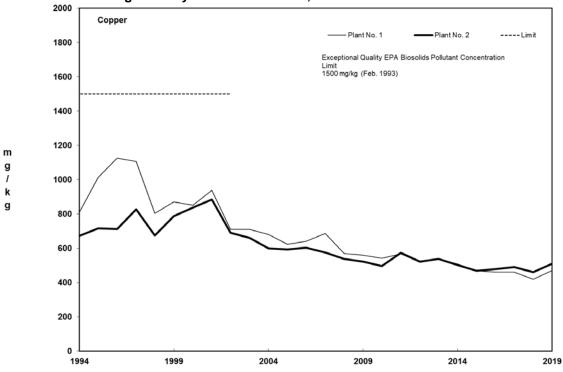


Figure 8-4 Trends in Concentrations of Copper in Biosolids, Fiscal Years 1994-2019
Orange County Sanitation District, Resource Protection Division

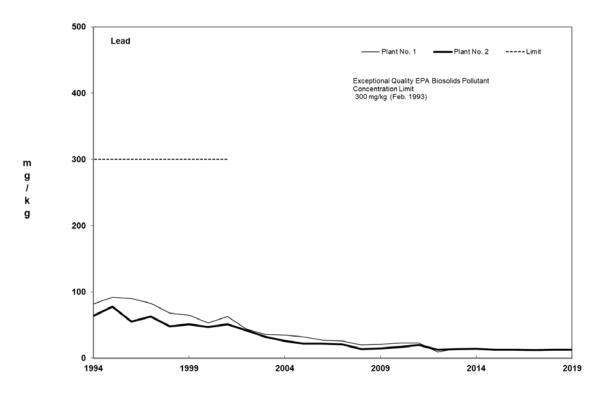


Figure 8-5 Trends in Concentrations of Lead in Biosolids, Fiscal Years 1994-2019 Orange County Sanitation District, Resource Protection Division

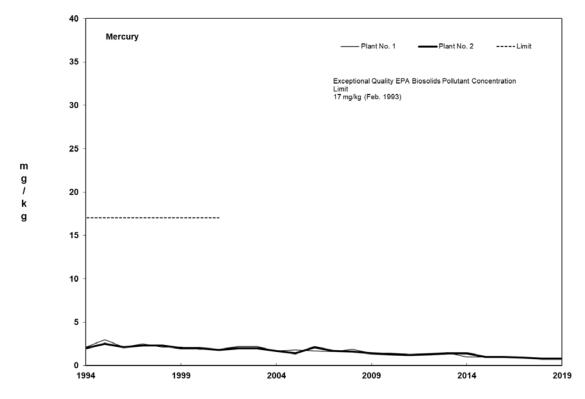


Figure 8-6 Trends in Concentrations of Mercury in Biosolids, Fiscal Years 1994-2019
Orange County Sanitation District, Resource Protection Division

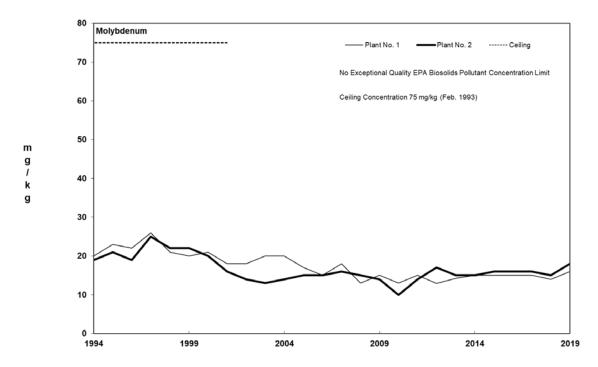


Figure 8-7 Trends in Concentrations of Molybdenum in Biosolids, Fiscal Years 1994-2019
Orange County Sanitation District, Resource Protection Division

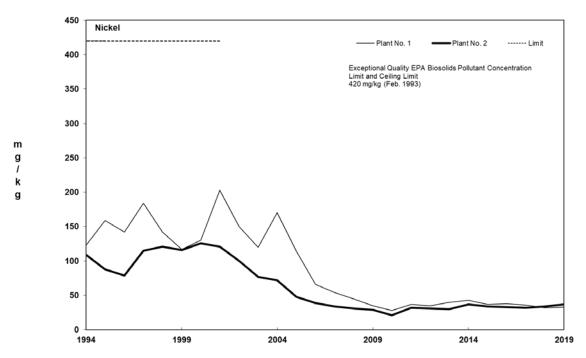


Figure 8-8 Trends in Concentrations of Nickel in Biosolids, Fiscal Years, 1994-2019
Orange County Sanitation District, Resource Protection Division

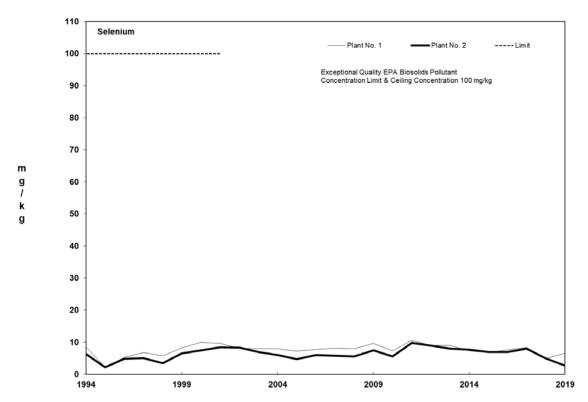


Figure 8-9 Trends in Concentrations of Selenium in Biosolids, Fiscal Years 1994-2019
Orange County Sanitation District, Resource Protection Division

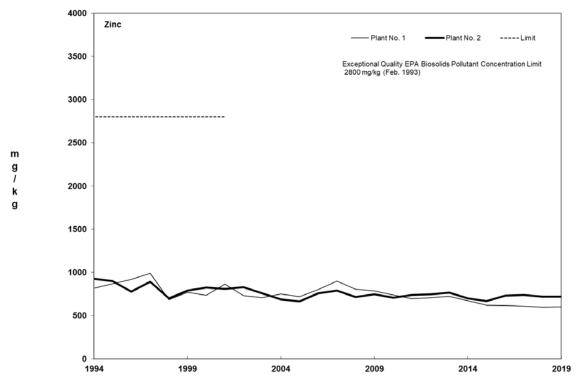
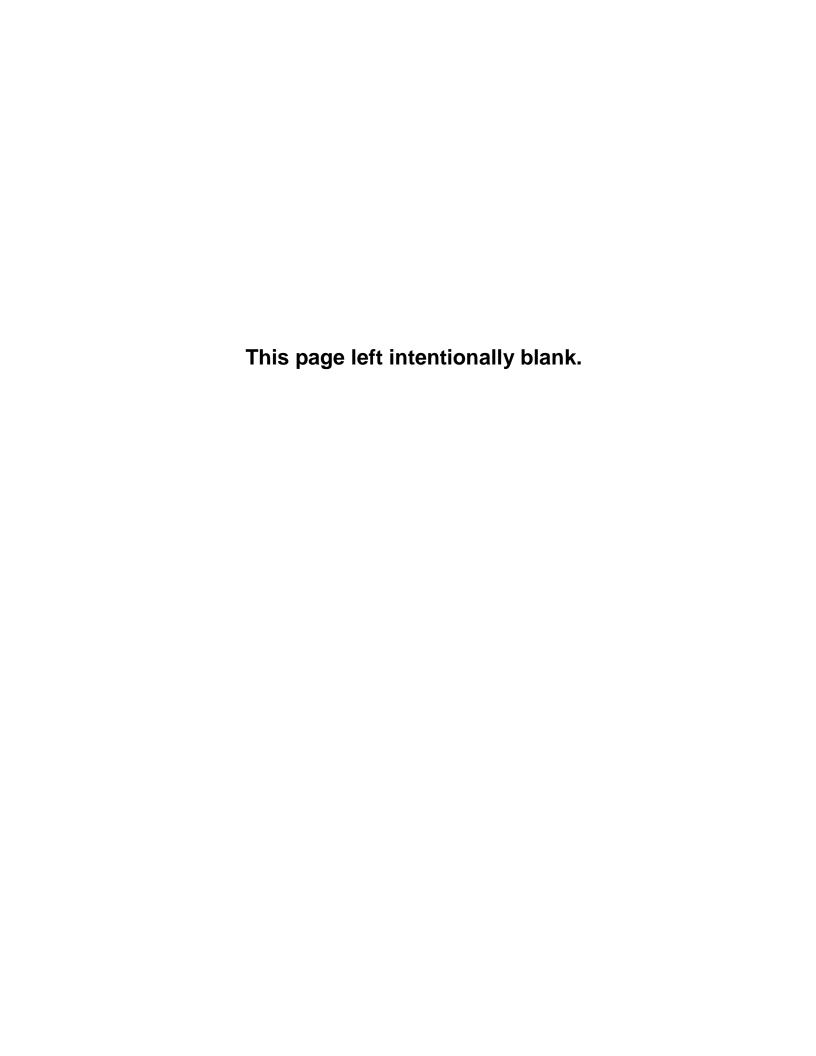
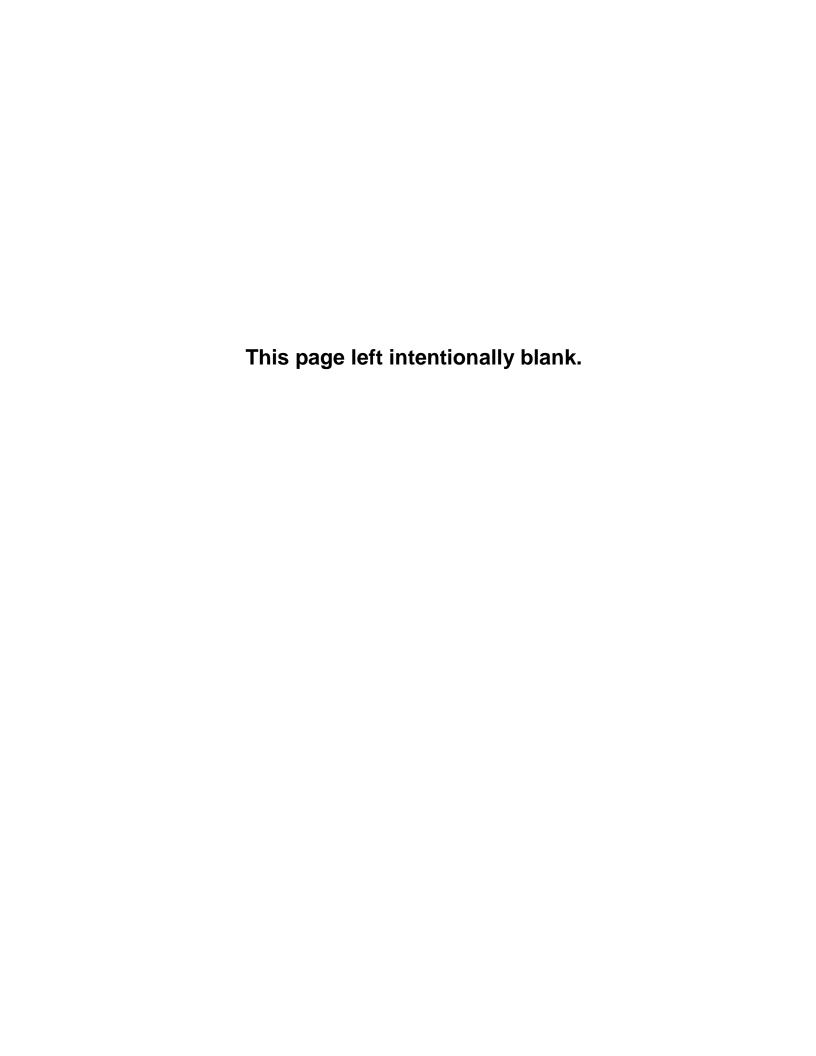


Figure 8-10 Trends in Concentrations of Zinc in Biosolids, Fiscal Years 1994-2019
Orange County Sanitation District, Resource Protection Division



APPENDIX C



Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
General	Ammonia-N	SM 4500	mg/kg dry	Plant 1	01/22/2019	5500	240	1200
Chemistry		NH3 G	weight	Dewatering	01/29/2019	5400	220	1100
				Cake	02/19/2019	5100	210	1100
					02/26/2019	5000	200	1000
					03/19/2019	4900	200	1000
					03/26/2019	5200	220	1100
					04/09/2019	5200	210	1100
					04/16/2019	6000	230	1200
					05/21/2019	11000	400	2000
					05/28/2019	12000	440	2200
					06/04/2019	9800	460	2300
					06/11/2019	8600	400	2000
					07/16/2019	7500	170	220
					07/23/2019	13000	410	2100
					08/20/2019	12000	1000	5200
					08/27/2019	8700	990	5000
					09/17/2019	12000	390	2000
					09/24/2019	13000	380	1900
					10/15/2019	7200	160	210
					10/22/2019	12000	410	2100
					11/12/2019	9600	190	970
					11/19/2019	13000	970	4800
					12/03/2019	7700	350	1800
					12/10/2019	11000	400	2000
					Annual Mean	8800		
					Annual Max	13000		
		SM 4500	mg/kg dry	Plant 2 Cake	01/22/2019	5300	220	1100
		NH3 G	weight		01/29/2019	6300	250	1300
					02/19/2019	6000	240	1200
					02/26/2019	6100	250	1300
					03/19/2019	6100	260	1300
					03/26/2019	5900	240	1200
					04/09/2019	5500	240	1200
					Annual Mean	5900		
					Annual Max	6300		

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	R
		SM 4500	mg/kg dry	Plant 2	04/16/2019	4400	180	890
		NH3 G	weight	Dewatering Cake	05/22/2019	12000	430	2200
				Cake	05/28/2019	7300	290	1400
					06/04/2019	6500	210	1000
					06/11/2019	6700	180 430 290	870
					07/16/2019	6900	170	220
					07/23/2019	8400	190	960
					08/20/2019	10000	1000	5100
					08/27/2019	7800	850	4300
					09/17/2019	8600	180	890
					09/24/2019	8300	170	860
					10/15/2019	5400	150	190
					10/22/2019	5500	180	900
					11/12/2019	6300	200	990
					11/19/2019	8000	360	1800
					12/03/2019	8100	170	840
					12/10/2019	6300	170	850
					Annual Mean	7400		
					Annual Max	12000		
	Fluoride	EPA 300.0	mg/kg dry	Plant 1	01/22/2019	26	17	24
			weight	Dewatering Cake	04/09/2019	150	15	22
				Care	07/16/2019	140	1.6	16
					Annual Mean	110		
					Annual Max	150		
		EPA 300.0	mg/kg dry	Plant 2 Cake	01/22/2019	26	16	22
			weight		04/09/2019	65	17	24
					Annual Mean	46		
					Annual Max	65		
		EPA 300.0		Plant 2	07/16/2019	160	1.6	16
			weight	Dewatering Cake	Annual Mean	160		
				Cake	Annual Max	160		
	Hexavalent	EPA 7196A	0 0 7	Plant 1	01/22/2019	ND	60	120
	Chromium		weight	Dewatering Cake	04/09/2019	ND	54	110
				Cake	07/16/2019	ND	4.1	8.3
					10/15/2019	ND	2.0	4.0
					Annual Mean	<60		
					Annual Max	<60		
		EPA 7196A		Plant 2 Cake	01/22/2019	ND	56	110
			weight		04/09/2019	ND	60	120
					Annual Mean	<60		
					Annual Max	<60		
		EPA 7196A		Plant 2	07/16/2019	ND	4.1	8.2
			weight	Dewatering Cake	10/15/2019	ND	1.8	3.6
				Cane	Annual Mean	<4.1		
					Annual Max	<4.1		

ategory	Parameter	Method	Units	Sample	Sample Date	Result	MDL	RL
	12: 11:11:12:	EDA 054 0	//	Location	0.1/00/00.10	2222	0.400	0000
	Kjeldahl Nitrogen	EPA 351.2	mg/kg dry weight	Plant 1 Dewatering	01/22/2019		6400	8600
			Weight	Cake	01/29/2019		5300	7000
					02/19/2019		6000	8000
					02/26/2019		6200	8200
					03/19/2019		7300	9700
					03/26/2019		7500	10000
					04/09/2019		7300	9800
					04/16/2019		5800	7700
					05/21/2019		7400	9800
					05/28/2019		5500	7400
					06/04/2019		6300	8400
					06/11/2019		5600	7500
					07/16/2019		1300	3800
					07/23/2019		4900	6500
					08/20/2019		4700	6300
					08/27/2019		5100	6800
					09/17/2019		4800	6400
					09/24/2019		5500	7300
					10/15/2019		1300	3800
					10/22/2019	55000	7500	10000
					11/12/2019	50000	5300	7100
					11/19/2019	55000	6300	8400
					12/03/2019	47000	6100	8100
					12/10/2019	50000	7400	9900
					Annual Mean	57000		
					Annual Max	73000		
		EPA 351.2	mg/kg dry	Plant 2 Cake	01/22/2019	44000	4800	6400
			weight		01/29/2019	50000	9900	13000
					02/19/2019	51000	6900	9200
					02/26/2019	46000	7000	9400
					03/19/2019	61000	8200	11000
					03/26/2019	53000	8800	12000
					04/09/2019	57000	6400	8500
					Annual Mean	52000		
					Annual Max	61000		1

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 351.2	mg/kg dry	Plant 2	04/16/2019	64000	5000	6600
			weight	Dewatering Cake	05/22/2019	52000	7700	10000
				Cake	05/28/2019	37000	5600	7500
					06/04/2019	49000	8400	11000
					06/11/2019	45000	5500	7300
					07/16/2019	64000	1300	3800
					07/23/2019	53000	4900	6600
					08/20/2019	50000	4600	6100
					08/27/2019	38000	3600	4900
					09/17/2019	48000	4300	5800
					09/24/2019	49000	5400	7200
					10/15/2019	60000	1200	3400
					10/22/2019	54000	6200	8300
					11/12/2019		5100	6800
					11/19/2019		5700	7600
					12/03/2019		4600	6100
					12/10/2019		5300	7000
					Annual Mean	51000		
					Annual Max	64000		
	Nitrate-N	EPA 300.0	mg/kg dry weight	Plant 1 Dewatering Cake	01/22/2019		3.9	5.3
	Nitrate-IV	2177,000.0			01/29/2019		3.6	4.9
					02/19/2019		3.4	4.7
					02/26/2019		3.2	4.4
					03/19/2019		3.3	4.6
					03/26/2019		3.6	5.0
					04/09/2019		3.5	4.8
					04/16/2019		3.8	5.2
					05/21/2019		3.2	4.5
					05/28/2019		3.6	4.9
					06/04/2019		3.7	5.1
					06/11/2019		3.2	4.4
					07/16/2019		2.1	4.1
					07/10/2019		3.3	4.6
					08/20/2019		3.3	4.6
					08/27/2019			
							3.2	4.4
					09/17/2019		3.2	4.4
					09/24/2019		3.1	4.3
					10/15/2019		2.0	3.9
					10/22/2019		3.3	4.6
					11/12/2019		3.2	4.3
					11/19/2019		3.1	4.3
					12/03/2019		2.8	3.9
					12/10/2019		3.3	4.5
					Annual Mean	3.5 DNQ		
					Annual Max	9.3	3	

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 300.0	mg/kg dry weight		01/22/2019	ND	3.6	4.9
					01/29/2019	ND	4.1	5.6
					02/19/2019	ND	3.9	5.3
					02/26/2019	ND	4.0	5.6
					03/19/2019	ND	4.3	5.9
					03/26/2019	ND	4.0	5.5
					04/09/2019	ND	3.8	5.2
					Annual Mean	<4.3		
					Annual Max	<4.3		
		EPA 300.0	mg/kg dry		04/16/2019	ND	2.9	4.0
			weight		05/22/2019	ND	3.5	4.8
					05/28/2019	ND	2.3	3.2
					06/04/2019	ND	3.4	4.6
					06/11/2019	ND	2.8	3.9
					07/16/2019	ND	2.1	4.1
					07/23/2019	ND	3.1	4.3
					08/20/2019	ND	3.3	4.6
					08/27/2019	ND	2.2	3.1
					09/17/2019	ND	2.9	4.0
					09/24/2019	ND	2.8	3.8
					10/15/2019	ND	1.8	3.5
					10/22/2019	ND	2.9	4.0
					11/12/2019	ND	3.2	4.4
					11/19/2019	ND	2.9	4.0
					12/03/2019	ND	2.7	3.7
					12/10/2019	ND	2.8	3.8
					Annual Mean	<3.5		
					Annual Max	<3.5		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Nitrite-N	EPA 300.0	mg/kg dry weight	Plant 1 Dewatering Cake	01/22/2019	ND	5.3	7.3
					01/29/2019	ND	4.9	6.7
					02/19/2019	ND	4.7	6.4
					02/26/2019	ND	4.4	6.0
					03/19/2019	ND	4.6	6.2
					03/26/2019	ND	5.0	6.8
					04/09/2019	ND	4.8	6.5
					04/16/2019	26	5.2	7.1
					05/21/2019	ND	4.5	6.1
					05/28/2019	ND	4.9	6.7
					06/04/2019	ND	5.1	6.9
					06/11/2019	ND	4.4	6.0
					07/16/2019	1.6 DNQ	1.3	4.1
					07/23/2019	ND	4.6	6.3
					08/20/2019	ND	4.6	6.3
					08/27/2019	9.0	4.4	6.0
					09/17/2019	ND	4.4	5.9
					09/24/2019	ND	4.3	5.8
					10/15/2019	1.4 DNQ	1.2	3.9
					10/22/2019	ND	4.6	6.2
					11/12/2019	ND	4.3	5.9
					11/19/2019	ND	4.3	5.9
					12/03/2019	ND	3.9	5.3
					12/10/2019	ND	4.5	6.1
					Annual Mean	5.4 DNQ		
					Annual Max	26		
		EPA 300.0	mg/kg dry	Plant 2 Cake	01/22/2019	ND	4.9	6.7
			weight		01/29/2019	ND	5.6	7.7
					02/19/2019	ND	5.3	7.2
					02/26/2019	ND	5.6	7.6
					03/19/2019	ND	5.9	8.0
					03/26/2019	ND	5.5	7.5
					04/09/2019	ND	5.2	7.1
					Annual Mean	<5.9		
					Annual Max	<5.9		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 300.0	mg/kg dry	Plant 2	04/16/2019	ND	4.0	5.4
			weight	ht Dewatering Cake	05/22/2019	ND	4.8	6.6
					05/28/2019	ND	3.2	4.3
					06/04/2019	ND	4.6	6.3
					06/11/2019	ND	3.9	5.3
					07/16/2019	ND	1.3	4.1
					07/23/2019	ND	4.3	5.8
					08/20/2019	ND	4.6	6.3
					08/27/2019	ND	3.1	4.2
					09/17/2019	ND	4.0	5.5
					09/24/2019	ND	3.8	5.2
					10/15/2019	ND	1.1	3.5
				10/22/2019	ND	4.0	5.5	
					11/12/2019	ND	4.4	6.0
					11/19/2019	ND	4.0	5.5
					12/03/2019	ND	3.7	5.0
					12/10/2019	ND	3.8	5.2
					Annual Mean	<4.8		
					Annual Max	<4.8		
	Organic Lead	HML 939-M		Plant 1	01/22/2019	ND	0.30	0.35
			weight	ght Dewatering Cake	04/09/2019	ND	0.21	0.24
					07/16/2019	ND	0.028	0.041
					10/15/2019	ND	0.051	0.073
					Annual Mean	<0.30		
					Annual Max	<0.30		
		HML 939-M		Plant 2 Cake	01/22/2019	ND	0.30	0.35
			weight		04/09/2019	ND	0.24	0.28
					Annual Mean	<0.30		
					Annual Max	<0.30		
		HML 939-M		Plant 2	07/16/2019	ND	0.027	0.040
			weight	Dewatering	10/15/2019	ND	0.049	0.071
				Cake	Annual Mean	<0.049		
					Annual Max	<0.049		

ategory	Parameter	Method	Units	Sample	Sample Date	Result	MDL	RL
				Location				
	Organic Nitrogen	CALC	mg/kg dry		01/22/2019			
			weight		01/29/2019			
					02/19/2019	50000		
					02/26/2019	43000		
					03/19/2019	59000		
					03/26/2019	55000		
					04/09/2019	54000		
					04/16/2019	65000		
					05/21/2019	49000		
					05/28/2019	45000		
					06/04/2019	48000		
					06/11/2019	46000		
					07/16/2019	66000		
					07/23/2019	45000		
					08/20/2019	44000		
					08/27/2019	46000		
					09/17/2019	41000		
					09/24/2019	42000		
					10/15/2019	59000		
					10/22/2019	43000		
					11/12/2019	40000		
		CALC			11/19/2019	42000		
					12/03/2019	39000		
					12/10/2019	39000		
					Annual Mean	49000		
					Annual Max	66000		
			mg/kg dry	Plant 2 Cake	01/22/2019	39000		
			weight		01/29/2019	44000		
					02/19/2019	45000		
					02/26/2019			
					03/19/2019			
					03/26/2019			
					04/09/2019			
					Annual Mean	46000		
					Annual Max	55000		-

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		CALC	mg/kg dry	Plant 2	04/16/2019	60000		
			weight	Dewatering Cake	05/22/2019	40000		
				Care	05/28/2019	30000		
					06/04/2019	43000		
					06/11/2019	38000		
					07/16/2019	57000		
					07/23/2019	45000		
					08/20/2019	40000		
					08/27/2019	30000		
					09/17/2019	39000		
					09/24/2019	41000		
					10/15/2019	55000		
					10/22/2019	49000		
					11/12/2019	45000		
					11/19/2019	46000		
					12/03/2019	43000		
					12/10/2019	46000		
	рН				Annual Mean	44000		
					Annual Max	60000		
		EPA 9045C	pH units	Plant 1	01/22/2019	7.8	0.10	0.1
				Dewatering	01/29/2019	7.6	0.10	0.1
				Cake	02/19/2019	7.6	0.10	0.1
					02/26/2019	7.8	0.10	0.1
					03/19/2019 7.8	7.8	0.10	0.1
					03/26/2019	7.8	0.10	0.1
					04/09/2019	8.0	0.10	0.1
					04/16/2019	7.8	0.10	0.1
					05/21/2019	8.0	0.10	0.1
					05/28/2019	7.7	0.10	0.1
					06/04/2019		0.10	0.1
					06/11/2019	7.7	0.10	0.1
					07/16/2019	7.9	1.7	1.7
					07/23/2019	8.1	0.10	0.1
					08/20/2019		0.10	0.1
					08/27/2019		0.10	0.1
					09/17/2019		0.10	0.1
					09/24/2019		0.10	0.1
					10/15/2019		1.7	1.7
					10/22/2019		0.10	0.1
					11/12/2019		0.10	0.1
					11/19/2019		0.10	0.1
					12/03/2019		0.10	0.1
				12/10/2019		0.10	0.1	
				Annual Mean	7.9	0.10	0.1	
					Annual Max	8.4		

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	R
		EPA 9045C	pH units	Plant 2 Cake	01/22/2019	7.9	0.10	0.1
					01/29/2019	7.6	0.10	0.1
					02/19/2019	7.7	0.10	0.1
					02/26/2019	8.0	0.10	0.1
					03/19/2019	8.0	0.10	0.1
					03/26/2019	8.0	0.10	0.1
					04/09/2019	8.1	0.10	0.1
					Annual Mean	7.9		
					Annual Max	8.1		
		EPA 9045C	pH units	Plant 2	04/16/2019	7.8	0.10	0.1
				Dewatering	05/22/2019	8.3	0.10	0.1
				Cake	05/28/2019	7.9	0.10	0.1
					06/04/2019	7.7	0.10	0.1
					06/11/2019	7.8	0.10	0.1
					07/16/2019	7.8	1.7	1.7
					07/23/2019	8.0	0.10	0.1
					08/20/2019	8.2	0.10	0.1
					08/27/2019	8.1	0.10	0.1
					09/17/2019	8.1	0.10	0.1
					09/24/2019	8.1	0.10	0.1
					10/15/2019	8.1	1.7	1.7
					10/22/2019	8.0	0.10	0.1
					11/12/2019	8.1	0.10	0.1
					11/19/2019	8.0	0.10	0.1
					12/03/2019	8.0	0.10	0.1
					12/10/2019	7.8	0.10	0.1
					Annual Mean	8.0		
					Annual Max	8.3		
	TETRAETHYL	HML 939-M	mg/kg dry	Plant 1	10/15/2019	ND	0.036	0.073
	LEAD		weight	Dewatering	Annual Mean	<0.036		
				Cake	Annual Max	<0.036		
		HML 939-M	mg/kg dry	Plant 2	10/15/2019	ND	0.034	0.071
			weight	Dewatering	Annual Mean	<0.034		
				Cake	Annual Max	<0.034		
	TETRAMETHYL	HML 939-M	mg/kg dry	Plant 1	10/15/2019	ND	0.051	0.073
	LEAD		weight	Dewatering	Annual Mean	<0.051		
				Cake	Annual Max	<0.051	İ	
		HML 939-M		Plant 2	10/15/2019	ND	0.049	0.071
			weight	Dewatering	Annual Mean	<0.049		
				Cake	Annual Max	<0.049		
	Total Cyanide	EPA 9014	mg/kg dry	Plant 1	01/22/2019	ND	2.1	2.5
			weight	Dewatering	04/09/2019	ND	1.8	2.1
				Cake	07/16/2019	12	0.33	0.78
					10/15/2019	5.3	1.5	3.6
					Annual Mean	5.3 DNQ		
					Annual Max	12		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 9014	mg/kg dry	Plant 2 Cake	01/22/2019	ND	1.9	2.2
			weight		04/09/2019	ND	2.0	2.4
					Annual Mean	<2.0		
					Annual Max	<2.0		
		EPA 9014	mg/kg dry	Plant 2	07/16/2019	9.7	0.33	0.78
			weight	Dewatering	10/15/2019	7.0	1.4	3.4
				Cake	Annual Mean	8.4		
					Annual Max	9.7		
	Total Nitrogen	CALC	mg/kg dry	Plant 1	01/22/2019	60000		
			weight	Dewatering	01/29/2019	55000		
				Cake	02/19/2019	55000		
					02/26/2019	48000		
					03/19/2019	64000		
					03/26/2019	60000		
					04/09/2019	59000		
					04/16/2019	71000		
					05/21/2019	60000		
					05/28/2019	57000		
					06/04/2019	58000		
					06/11/2019	55000		
					07/16/2019	73000		
					07/23/2019	58000		
					08/20/2019	56000		
					08/27/2019	55000		
					09/17/2019	53000		
					09/24/2019	55000		
					10/15/2019	66000		
					10/22/2019	55000		
					11/12/2019	50000		
					11/19/2019	55000		
					12/03/2019	47000		
					12/10/2019	50000		
					Annual Mean	57000		
					Annual Max	73000		
		CALC	mg/kg dry	Plant 2 Cake	01/22/2019	44000		
			weight		01/29/2019	50000		
				02/19/2019	51000			
				02/26/2019	46000			
					03/19/2019	61000		
					03/26/2019			
					04/09/2019			
					Annual Mean	52000		
					Annual Max	61000	+	1

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL		
		CALC	mg/kg dry	Plant 2	04/16/2019	64000				
			weight	Dewatering Cake	05/22/2019	52000				
				Cake	05/28/2019	37000				
					06/04/2019	49000				
					06/11/2019	45000				
					07/16/2019	64000				
					07/23/2019	53000				
					08/20/2019	50000				
					08/27/2019	38000				
					09/17/2019	48000				
					09/24/2019	49000				
					10/15/2019	60000				
					10/22/2019	54000				
					11/12/2019	51000				
					11/19/2019	54000				
					12/03/2019	51000				
					12/10/2019	52000				
					Annual Mean	51000				
	Total Solids SM 25				Annual Max	64000				
	Total Solids	olids SM 2540G	%	Plant 1	01/22/2019	21	0.050	0.050		
			Dewatering	01/29/2019			0.050			
				Cake	02/19/2019			0.050		
					02/26/2019			0.050		
					03/19/2019			0.050		
					03/26/2019		0.050 0.050 0.050			
					04/09/2019					
								0.050		
					04/16/2019 21 05/21/2019 22			0.050		
					05/28/2019			0.050		
					06/04/2019			0.050		
					06/11/2019			0.050		
					07/16/2019					
					07/23/2019			0.050		
					08/20/2019					
					08/27/2019			0.050		
					09/17/2019					
					09/24/2019					
					10/15/2019					
					10/13/2019					
					11/12/2019					
					11/19/2019			0.050		
					12/03/2019			0.050		
				12/10/2019		0.050	0.050			
					Annual Mean	24				
					Annual Max	28		1		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		SM 2540G	%	Plant 1 Cake	01/16/2019	17	0.050	0.050
					Annual Mean	17		
					Annual Max	17		
		SM 2540G	%	Plant 2 Cake	01/22/2019	22	0.050	0.050
					01/29/2019	20	0.050	0.050
					02/19/2019	21	0.050	0.050
					02/26/2019	19	0.050	0.050
					03/19/2019	20	0.050	0.050
					03/26/2019	20	0.050	0.050
					04/09/2019	20	0.050	0.050
					04/15/2019	19	0.050	0.050
					05/21/2019	21	0.050	0.050
					05/28/2019	22	0.050	0.050
					06/04/2019	19	0.050	0.050
					06/10/2019	19	0.050	0.050
					Annual Mean	20		
					Annual Max	22		
		SM 2540G	%	Plant 2	03/29/2019	26	0.050	0.050
				Dewatering Cake	04/09/2019	28	0.050	0.050
				Care	04/16/2019	28	0.050	0.050
					05/22/2019	20	0.050	0.050
					05/28/2019	35	0.050	0.050
					06/04/2019	24	0.050	0.050
					06/11/2019	27	0.050	0.050
					07/16/2019	24	0.10	0.10
					07/23/2019	26	0.050	0.050
					08/20/2019	24	0.050	0.050
					08/27/2019	29	0.050	0.050
					09/17/2019	28	0.050	0.050
					09/24/2019	29	0.050	0.050
					10/15/2019	28	0.050	0.050
					10/22/2019	27	0.050	0.050
					11/12/2019	25	0.050	0.050
					11/19/2019	28	0.050	0.050
					12/03/2019	30	0.050	0.050
					12/10/2019	29	0.050	0.050
					Annual Mean	27		
					Annual Max	35		
ace	Antimony	EPA 6010C		Plant 1	01/22/2019	ND	1.7	24
ements			weight	Dewatering Cake	04/09/2019	ND	1.5	21
				Cane	07/16/2019	1.9 DNQ	1.4	20
					10/15/2019	ND	1.3	19
					Annual Mean	1.6 DNQ		
					Annual Max	1.9 DNQ		

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 6010C		Plant 2 Cake	01/22/2019	ND	1.6	22
			weight		04/09/2019	ND	1.7	24
					Annual Mean	<1.7		
					Annual Max	<1.7		
		EPA 6010C		Plant 2	07/16/2019	2.1 DNQ	1.4	20
			weight	Dewatering Cake	10/15/2019	1.7 DNQ	1.2	18
				Cake	Annual Mean	1.9 DNQ		
					Annual Max	2.1 DNQ		
	Arsenic	EPA 6010C	mg/kg dry	Plant 1	01/22/2019	16	2.6	14
			weight	Dewatering Cake	01/29/2019	15	2.4	13
				Cake	02/19/2019	21	2.3	13
					02/26/2019	19	2.2	12
					03/19/2019	13	2.2	12
					03/26/2019	9.8 DNQ	2.4	13
					04/09/2019	11 DNQ	2.3	13
					04/16/2019	14	2.6	14
					05/21/2019	7.7 DNQ	2.2	12
					05/28/2019	6.8 DNQ	2.4	13
				06/04/2019	12 DNQ	2.5	14	
					06/11/2019	3.9 DNQ	2.2	12
					07/16/2019	ND	6.3	12
					07/23/2019	ND	6.4	12
					08/20/2019	ND	6.4	12
					08/27/2019	ND	6.2	12
					09/17/2019	ND	6.0	12
					09/24/2019	ND	5.9	11
					10/15/2019	ND	6.0	12
					10/22/2019	ND	6.3	12
					11/12/2019	ND	6.0	12
					11/19/2019	ND	5.9	11
					12/03/2019	ND	5.5	11
					12/10/2019	ND	6.2	12
					Annual Mean	9.3 DNQ		
					Annual Max	21		
		EPA 6010C	mg/kg dry	Plant 2 Cake	01/22/2019	24	2.5	13
			weight		01/29/2019	17	2.8	15
		"			02/19/2019	9 ND 1.6 22 9 ND 1.7 24 <1.7		
					02/26/2019	23	2.8	15
					03/19/2019	20	2.9	16
					03/26/2019	10 DNQ	2.7	15
				-	04/09/2019	12 DNQ	2.6	14
					Annual Mean	18 DNQ		
					Annual Max	24		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
		EPA 6010C	mg/kg dry	Plant 2	04/16/2019	14	2.0	11	
			weight	Dewatering Cake	05/22/2019	12 DNQ	2.4	13	
				Cake	05/28/2019	6.7 DNQ	1.6	8.4	
					06/04/2019	14	2.3	12	
					06/11/2019	5.3 DNQ	1.9	10	
					07/16/2019	ND	6.3	12	
					07/23/2019	ND	6.0	12	
					08/20/2019	ND	6.3	12	
					08/27/2019	ND	5.2	10	
					09/17/2019	ND	5.5	11	
					09/24/2019	ND	5.3	10	
					10/15/2019	ND	5.5	11	
					10/22/2019	ND	5.6	11	
					11/12/2019	ND	6.1	12	
					11/19/2019	ND	5.5	11	
					12/03/2019	ND	5.1	9.9	
					12/10/2019	ND	5.2	10	
					Annual Mean	7.0 DNQ			
					Annual Max	14			
	Barium	EPA 6010C	mg/kg dry	Plant 1	01/22/2019	340	0.47	24	
			weight		Dewatering	04/09/2019	360	0.42	21
					Cake	07/16/2019	620	8.0	20
					Annual Mean	440	0.42		
					Annual Max 620				
		EPA 6010C	mg/kg dry	Plant 2 Cake	01/22/2019		0.44	22	
			weight		04/09/2019		0.48	24	
					Annual Mean	1100			
					Annual Max	1100			
		EPA 6010C	ma/ka dry	Plant 2	07/16/2019		8.0	20	
		2.7.00.00	weight	Dewatering	Annual Mean	1200	0.0		
				Cake	Annual Max	1200			
	Beryllium	EPA 6010C	ma/ka dry	Plant 1	01/22/2019		0.057	2.4	
	201ya.iii	2.7.00.00	weight	Dewatering	04/09/2019		0.051	2.1	
				Cake	07/16/2019		0.077	2.0	
					10/15/2019		0.074	1.9	
					Annual Mean	< 0.077	0.07 1	1.0	
					Annual Max	<0.077			
		EPA 6010C	ma/ka dry	Plant 2 Cake	01/22/2019		0.054	2.2	
		LI A 00100	weight	I latt 2 Care	04/09/2019		0.057	2.4	
					Annual Mean	<0.057	0.037	۷.4	
					Annual Max	<0.057			
		EPA 6010C	ma/ka day	Plant 2	07/16/2019		0.078	2.0	
		EFA OUTUC		Dewatering	10/15/2019		0.078		
			weight	Cake			0.007	1.8	
				l l	Annual Mean	<0.078			
					Annual Max	<0.078	1		

Category	Parameter	Method	Units	Sample	Sample Date	Result	MDL	RL
		ED4 00400	// 1	Location	0.4.100.100.4.0	4 = 5110	0.40	
	Cadmium	EPA 6010C	mg/kg dry weight	Plant 1 Dewatering	01/22/2019		0.12	2.4
			Weight	Cake	01/29/2019		0.11	2.2
					02/19/2019		0.10	2.1
					02/26/2019		0.097	2.0
					03/19/2019		0.099	2.0
					03/26/2019		0.11	2.2
					04/09/2019		0.10	2.1
					04/16/2019		0.11	2.3
					05/21/2019		0.097	2.0
					05/28/2019		0.11	2.2
					06/04/2019		0.11	2.3
					06/11/2019		0.098	2.0
					07/16/2019		0.25	2.0
					07/23/2019		0.26	2.1
					08/20/2019		0.26	2.1
					08/27/2019		0.25	2.0
					09/17/2019		0.24	1.9
					09/24/2019		0.24	1.9
					10/15/2019		0.24	1.9
					10/22/2019		0.25	2.0
					11/12/2019		0.24	1.9
					11/19/2019		0.24	1.9
					12/03/2019		0.22	1.8
					12/10/2019		0.25	2.0
					Annual Mean	1.6 DNQ		
					Annual Max	2.8		
		EPA 6010C	mg/kg dry	Plant 2 Cake	01/22/2019		0.11	2.2
			weight		01/29/2019		0.12	2.5
					02/19/2019		0.12	2.3
					02/26/2019		0.12	2.5
					03/19/2019		0.13	2.6
					03/26/2019		0.12	2.4
					04/09/2019		0.12	2.4
					Annual Mean	3.6 DNQ		
					Annual Max	4.4		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 6010C		Plant 2	04/16/2019	3.0	0.088	1.8
			weight	Dewatering Cake	05/22/2019	9.0	0.11	
				Care	05/28/2019	4.3	0.069	1.4
					06/04/2019	9.2	0.10	2.0
					06/11/2019	7.5	0.084	1.7
					07/16/2019	4.8	0.25	2.0
					07/23/2019	4.2	0.24	1.9
					08/20/2019	2.9	0.25	2.0
					08/27/2019	3.4	0.21	1.7
					09/17/2019	3.4	0.22	1.8
					09/24/2019	2.6	0.21	1.7
					10/15/2019	3.1	0.22	1.8
					10/22/2019	2.9	0.22	1.8
					11/12/2019		0.24	
					11/19/2019	2.9	0.22	
					12/03/2019	2.5	0.20	1.7
					12/10/2019	1.8	0.21	1.7
					Annual Mean	4.1 DNQ		+
	Observing				Annual Max	9.0		+
	Chromium	nromium EPA 6010C	ma/ka drv	Plant 1	01/22/2019		1.0	9.4
		weight	Dewatering	01/29/2019				
				Cake	02/19/2019			
						02/26/2019		
					03/19/2019			
							0.25 2.0 0.24 1.9 0.25 2.0 0.21 1.7 0.22 1.8 0.21 1.7 0.22 1.8 0.22 1.8 0.22 1.8 0.22 1.8 0.22 1.8 0.21 1.7 0.22 1.8 0.22 1.8 0.20 1.7 0.21 1.7 0.94 0.96 8.9 0.91 8.5 0.85 7.9 0.85 7.9 0.85 7.9 0.86 8.0 0.90 8.4 1.0 9.3 0.85 7.9 0.94 8.8 0.99 9.2 0.86 8.0 2.7 8.1 2.7 8.3 2.7 8.3 2.6 8.0 2.5 7.7 2.6 7.8 2.7 8.2 2.5 7.7 2.5 7.7 2.5 7.7 2.5 7.7 2.5 7.7	
					04/09/2019 35 0.90			
					05/21/2019			
					05/28/2019			
					06/04/2019			
					06/11/2019			
					07/16/2019			
					07/10/2019			
					08/20/2019			
					08/27/2019			
					09/17/2019			
					09/24/2019			
					10/15/2019			
				10/22/2019				
				11/12/2019				
				11/19/2019			7.6	
					12/03/2019			7.0
				12/10/2019	31	2.6	8.0	
					Annual Mean	40		
					Annual Max	50		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 6010C		Plant 2 Cake	01/22/2019	41	0.96	8.9
			weight		01/29/2019	68	1.1	10
						46	1.1	10
					02/19/2019	41	1.0	9.4
					02/26/2019	41	1.1	10
					03/19/2019	59	1.1	10
					03/26/2019	32	1.1	9.8
					04/09/2019	44	1.0	9.5
					Annual Mean	46		
					Annual Max	68		
		EPA 6010C		Plant 2	04/16/2019	43	0.77	7.2
			weight	Dewatering	05/22/2019	36	0.93	8.7
				Cake	05/28/2019	28	0.60	5.6
					06/04/2019	45	0.88	8.2
					06/11/2019	40	0.74	6.9
					07/16/2019	44	2.7	8.2
					07/23/2019	47	2.5	7.7
					08/20/2019	25	2.7	8.2
					08/27/2019	19 25 2.7 19 44 2.2 19 43 2.3	2.2	6.8
					09/17/2019	43	2.3	7.1
				09/24/2019	42	2.3	6.9	
					10/15/2019	44	2.3	7.1
					10/22/2019	44	2.4	7.2
					11/12/2019	24	2.6	7.9
					11/19/2019	52	2.3	7.1
					12/03/2019		2.2	6.6
					12/10/2019		2.2	6.7
					Annual Mean	40		
					Annual Max	52		
	Cobalt	EPA 6010C	mg/kg dry	Plant 1	01/22/2019		0.26	9.4
			weight	Dewatering	04/09/2019		0.23	8.4
				Cake	07/16/2019	2.7 DNQ	0.38	8.1
					Annual Mean	2.3 DNQ		
					Annual Max	2.7 DNQ		
		EPA 6010C	mg/kg drv	Plant 2 Cake	01/22/2019		0.24	8.9
			weight		04/09/2019		0.26	9.5
					Annual Mean	3.2 DNQ	-	-
		EPA 6010C m			Annual Max	3.7 DNQ		
			ma/ka drv	Plant 2	07/16/2019		0.38	8.2
			weight	Dewatering	Annual Mean	3.3 DNQ		
				Cake	Annual Max	3.3 DNQ		+

Category	Parameter	Method	Units	Sample	Sample Date	Result	MDL	RL
				Location				
	Copper	EPA 6010C	mg/kg dry	Plant 1	01/22/2019		2.1	12
			weight	Dewatering Cake	01/29/2019		2.0	11
					02/19/2019		1.9	11
					02/26/2019		1.7	9.8
					03/19/2019		1.8	10
					03/26/2019		2.0	11
					04/09/2019		1.8	10
					04/16/2019		2.1	12
					05/21/2019	340	1.7	9.8
					05/28/2019	370	1.9	11
					06/04/2019	610	2.0	12
					06/11/2019	590	1.8	10
					07/16/2019	580	6.1	10
					07/23/2019	530	6.3	10
					08/20/2019	360	6.2	10
					08/27/2019	520	6.0	10
					09/17/2019	550	5.9	9.7
					09/24/2019	500	5.8	9.6
					10/15/2019	560	5.9	9.7
					10/22/2019	530	6.2	10
					11/12/2019	500	5.8	9.6
					11/19/2019	510	5.8	9.5
					12/03/2019	520	5.3	8.8
					12/10/2019	510	6.1	10
					Annual Mean	490		
					Annual Max	720		
		EPA 6010C	mg/kg dry	Plant 2 Cake	01/22/2019	520	2.0	11
			weight		01/29/2019	570	2.2	13
					02/19/2019	500	2.1	12
					02/26/2019	460	2.2	12
					03/19/2019	600	2.3	13
					03/26/2019	350	2.2	12
					04/09/2019	470	2.1	12
					Annual Mean	500		
					Annual Max	600		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
		EPA 6010C		Plant 2	04/16/2019		1.6	8.9	
			weight	Dewatering Cake	05/22/2019	430	1.9	11	
				Care	05/28/2019	240	1.2	7.0	
					06/04/2019	590	1.8	10	
					06/11/2019	580	1.5	8.6	
					07/16/2019	540	6.2	10	
					07/23/2019	480	5.8	9.6	
					08/20/2019	320	6.2	10	
				_	08/27/2019	500	5.1	8.4	
					09/17/2019	550	5.4	8.9	
					09/24/2019	490	5.2	8.6	
					10/15/2019		5.3		
				10/22/2019					
					11/12/2019				
					11/19/2019				
					12/03/2019				
					12/10/2019				
					Annual Mean	500	3.1	0.4	
					Annual Max	860		_	
	luon	EPA 6010C n	man ar /l car al m r	Diamet 4			4.4	47	
	Iron			ng/kg dry Plant 1 veight Dewatering Cake	01/22/2019				
			Worgin		01/29/2019				
					02/19/2019				
					02/26/2019			8.6 10 9.6 10 8.4 8.9 8.6 8.8 9.0 9.9 8.3 8.4 47 44 42 39 40 44 43 47 39 44 46 40 41 41 42 40 39 38 38 39 38 39 38 39 39 30 30 30 30 30 30 30 30 30 30	
					03/19/2019				
					03/26/2019		30 1.5 8.6 40 6.2 10 50 5.8 9.6 60 5.8 9.6 60 5.1 8.4 60 5.4 8.9 60 5.2 8.6 60 5.3 8.8 60 5.5 9.0 60 5.4 8.9 60 5.1 8.4 60 5.1 8.4 60 5.1 8.4 60 5.1 8.4 60 5.1 8.4 60 5.1 8.4 60 9.7 44 600 9.7 44 6000 9.8 44 6000 9.6 43 6000 9.7 44 6000 9.7 44 6000 9.7 44 6000 9.7 44 6000 9.7 44 6000 26 41 6000 27 42		
					04/09/2019 64000 9.6				
					04/16/2019	63000	10	47	
					05/21/2019	51000	8.8	39	
					05/28/2019	44000	9.7	44	
					06/04/2019	67000	10	46	
					06/11/2019	64000	8.9	40	
					07/16/2019	75000	26	41	
					07/23/2019	67000	27	41	
					08/20/2019	72000	27	42	
					08/27/2019	69000	26	40	
					09/17/2019	69000	25	39	
					09/24/2019	65000	25	38	
					10/15/2019	72000	25	39	
					10/22/2019			41	
					11/12/2019				
				11/19/2019					
					12/03/2019				
			Δ		12/10/2019				
				Annual Mean	64000		+10		
								-	
					Annual Max	75000			

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL						
		EPA 6010C	mg/kg dry	Plant 2 Cake	01/22/2019	71000	9.9	44						
			weight		01/29/2019	65000	11	50						
					02/19/2019	66000	10	47						
					02/26/2019	63000	11	50						
					03/19/2019	78000	12	52						
					03/26/2019	49000	11	49						
					04/09/2019	63000	10	47						
					Annual Mean	65000								
					Annual Max	78000								
		EPA 6010C	mg/kg dry	Plant 2	04/16/2019	66000	8.0	36						
			weight	Dewatering	05/22/2019	60000	9.7	43						
				Cake 05/28/2019 44000 6.3 06/04/2019 78000 9.1	6.3	28								
					9.1	41								
					06/11/2019 73000	7.6	34							
				07/16/2019 820 07/23/2019 730	07/16/2019	82000	27	41						
					73000	25	38							
					08/20/2019	76000	27	41						
					08/27/2019	68000	22	34						
					09/17/2019	70000	23	36						
					09/24/2019	67000	22	34						
					10/15/2019	70000	23	35						
					10/22/2019	71000	24	36						
					11/12/2019	78000	26	39						
					11/19/2019	68000	23	36						
					12/03/2019		21	33						
												12/10/2019		22
								Annual Mean	70000					
					Annual Max	82000								

Category	Parameter	Method	Units	Sample	Sample Date	Result	MDL	RI
				Location				
	Lead	EPA 6010C	mg/kg dry	Plant 1	01/22/2019		0.65	4.7
			weight	Dewatering Cake	01/29/2019		0.61	4.4
				Jano	02/19/2019		0.58	4.2
					02/26/2019		0.54	3.9
					03/19/2019		0.55	4.0
					03/26/2019		0.61	4.4
					04/09/2019	10	0.57	4.2
					04/16/2019	11	0.64	4.7
					05/21/2019	8.7	0.54	3.9
					05/28/2019		0.60	4.4
					06/04/2019	13	0.63	4.6
					06/11/2019	13	0.55	4.0
					07/16/2019	14	3.1	4.1
					07/23/2019	13	3.1	4.1
					08/20/2019	13	3.1	4.1
					08/27/2019	11	3.0	4.0
					09/17/2019	12	2.9	3.9
					09/24/2019	8.3	2.9	3.8
					10/15/2019	10	2.9	3.9
					10/22/2019	10	3.1	4.1
					11/12/2019	11	2.9	3.9
					11/19/2019	14	2.9	3.8
					12/03/2019	9.5	2.7	3.5
					12/10/2019	10	3.0	4.0
					Annual Mean	11		
					Annual Max	14		
		EPA 6010C		Plant 2 Cake	01/22/2019	12	0.61	4.4
			weight		01/29/2019	16	0.69	5.0
					02/19/2019	13	0.64	4.7
					02/26/2019	13	0.68	5.0
					03/19/2019	16	0.71	5.2
					03/26/2019	8.6	0.67	4.9
					04/09/2019	13	0.65	4.8
					Annual Mean	13		
					Annual Max	16		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 6010C		Plant 2	04/16/2019	12	0.49	3.6
			weight	Dewatering Cake	05/22/2019	12	0.59	4.3
				Care	05/28/2019	8.7	0.38	2.8
					06/04/2019	15	0.56	4.1
					06/11/2019	13	0.47	3.4
					07/16/2019	16	3.1	4.1
					07/23/2019	14	2.9	3.8
					08/20/2019	17	3.1	4.1
					08/27/2019	14	2.6	3.4
					09/17/2019	16	2.7	3.6
					09/24/2019	12	2.6	3.4
					10/15/2019	16	2.7	3.5
				10/22/2019		2.7	3.6	
					11/12/2019		3.0	3.9
					11/19/2019		2.7	3.6
					12/03/2019		2.5	3.3
					12/10/2019		2.5	3.4
					Annual Mean	15	2.0	0.4
					Annual Max	23		
	Magnesium	EPA 6010C	ma/ka dry	Plant 1	01/22/2019		16	120
	Magnesium El A 00100	weight	Dewatering	01/29/2019		15	110	
		3	Cake	02/19/2019		14	110	
					02/26/2019		13	98
					03/19/2019		13	100
					03/26/2019		15	110
					04/09/2019		14	100
					04/16/2019		16	120
					05/21/2019		13	98
					05/28/2019		15	110
					06/04/2019		15	120
					06/11/2019		13	100
					07/16/2019		14	100
					07/23/2019		14	100
					08/20/2019		14	100
					08/27/2019	5400	13	100
					09/17/2019		13	97
					09/24/2019	5500	13	96
					10/15/2019	5700	13	97
					10/22/2019	5500	14	100
					11/12/2019	2800	13	96
					11/19/2019	5100	13	95
					12/03/2019	6700	12	88
					12/10/2019	3500	13	100
					Annual Mean	4700		
					Annual Max	6700		+

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL						
		EPA 6010C	0 0 7	Plant 2 Cake	01/22/2019	6300	15	110						
			weight		01/29/2019	7100	17	130						
					02/19/2019	6300	16	120						
					02/26/2019	6000	17	120						
					03/19/2019	7800	17	130						
					03/26/2019	4500	16	120						
					04/09/2019	6200	16	120						
					Annual Mean	6300								
					Annual Max	7800								
		EPA 6010C		Plant 2	04/16/2019	6100	12	89						
			weight	Dewatering	05/22/2019	4600	15	110						
				Cake	05/28/2019	5300	9.4	70						
						06/04/2019	6600	14	100					
											06/11/2019	5600	11	86
											07/16/2019	6300	14	100
					07/23/2019	6100	13	96						
					08/20/2019	6100 12 4600 15 5300 9.4 6600 14 5600 11 6300 14 6100 13 4200 14 7800 11 8900 12 7900 11	14	100						
					08/27/2019	7800	11	84						
					09/17/2019	8900	12	89						
					09/24/2019	7900	11	86						
					10/15/2019	7900	12	88						
					10/22/2019	7400	12	90						
					11/12/2019	3600	13	99						
					11/19/2019		12	89						
					12/03/2019		11	83						
					12/10/2019		11	84						
				Annual Mean	6200									
					Annual Max	8900								

Category	Parameter	Method	Units	Sample	Sample Date	Result	MDL	RL
				Location				
	Mercury	EPA 7471A	mg/kg dry	Plant 1	01/22/2019		0.057	0.095
			weight	Dewatering Cake	01/29/2019		0.054	0.090
					02/19/2019		0.052 0 0.047 0 0.048 0 0.11 0 0.051 0 0.057 0 0.048 0 0.053 0 0.056 0 0.048 0 0.049 0 0.050 0 0.049 0 0.048 0 0.046 0 0.049 0 0.046 0 0.046 0	0.086
					02/26/2019			0.079
					03/19/2019			0.080
					03/26/2019			0.18
					04/09/2019	1.0	0.051	0.084
					04/16/2019		0.057	0.095
					05/21/2019	0.82	0.048	0.079
					05/28/2019	0.83	0.053	0.088
					06/04/2019	1.3	0.056	0.093
					06/11/2019	0.72	0.048	0.079
					07/16/2019	0.71	0.36	0.36
					07/23/2019	0.82	0.049	0.082
					08/20/2019	0.71	0.050	0.084
					08/27/2019	0.63	0.049	0.082
					09/17/2019	0.83	0.048	0.081
					09/24/2019	1.0	0.046	0.077
					10/15/2019	0.82	0.36	0.36
					10/22/2019	0.75	0.049	0.082
					11/12/2019	0.68	0.046	0.077
					11/19/2019	0.69	0.046	0.077
					12/03/2019	1.0	0.042	0.070
					12/10/2019	0.71	0.050	0.083
					Annual Mean	0.84		
					Annual Max	1.4		
		EPA 7471A	mg/kg dry	Plant 2 Cake	01/22/2019	0.89	0.053	0.088
			weight		01/29/2019	0.57	0.061	0.10
					02/19/2019	0.72	0.057	0.094
					02/26/2019	0.41	0.060	0.10
					03/19/2019	0.81	0.063	0.10
					03/26/2019	1.0	0.058	0.097
					04/09/2019	0.43	0.056	0.094
					Annual Mean	0.69		
					Annual Max	1.0		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 7471A	mg/kg dry	Plant 2	04/16/2019	0.75	0.044	0.073
			weight	Dewatering Cake	05/22/2019	0.60	0.052	0.086
				Cake	05/28/2019	0.73	0.034	0.057
					06/04/2019	0.66	0.051	0.085
					06/11/2019	0.54	0.041	0.069
					07/16/2019	0.57	0.37	0.37
					07/23/2019	0.69	0.048	0.080
					08/20/2019	0.54	0.049	0.082
					08/27/2019	0.61	0.041	0.068
					09/17/2019	0.84	0.043	0.072
					09/24/2019	0.60	0.042	0.069
					10/15/2019	0.63	0.35	0.35
				10/22/2019	0.51	0.043	0.072	
				11/12/2019	0.68	0.048	0.080	
					11/19/2019	0.64	0.043	0.071
					12/03/2019	0.44	0.040	0.066
					12/10/2019	0.50	0.042	0.070
					Annual Mean	0.62		
					Annual Max	0.84		
	Molybdenum	EPA 6010C	mg/kg dry	Plant 1	01/22/2019	13	0.27	9.4
			weight	Dewatering	01/29/2019	14	0.25	8.9
				Cake	02/19/2019	17	0.24	8.5
					02/26/2019	14	0.22	7.9
					03/19/2019	15	0.23	8.0
					03/26/2019		0.25	8.8
					04/09/2019		0.24	8.4
					04/16/2019		0.26	9.3
					05/21/2019		0.22	7.9
					05/28/2019		0.25	8.8
					06/04/2019		0.26	9.2
					06/11/2019		0.23	8.0
					07/16/2019		0.74	8.1
					07/23/2019		0.76	8.3
					08/20/2019		0.76	8.3
					08/27/2019		0.73	8.0
					09/17/2019		0.71	7.7
					09/24/2019		0.70	7.7
					10/15/2019		0.70	7.8
					10/15/2019		0.71	8.2
					11/12/2019			
							0.71	7.7
					11/19/2019		0.70	7.6
					12/03/2019		0.64	7.0
					12/10/2019		0.74	8.0
					Annual Mean	17		
					Annual Max	22		

Category	Parameter	Method	Units	Sample	Sample Date	Result	MDL	RL							
				Location											
		EPA 6010C	mg/kg dry weight	Plant 2 Cake	01/22/2019		0.25	8.9							
			weight		01/29/2019		0.29	10							
					02/19/2019		0.26	9.4							
					02/26/2019		0.28	10							
					03/19/2019		0.29	10							
					03/26/2019	13	0.28	9.8							
					04/09/2019	19	0.27	9.5							
					Annual Mean	18									
					Annual Max	24									
		EPA 6010C		Plant 2	04/16/2019	20	0.20	7.2							
			weight	Dewatering	05/22/2019	18	0.25	8.7							
				Cake 05/28/2019 11 0. 06/04/2019 24 0.	0.16	5.6									
					0.23	8.2									
					06/11/2019	20	0.19	6.9							
					07/16/2019	23	0.75	8.2							
					07/23/2019	24	0.70	7.7							
					08/20/2019	14	0.75	8.2							
					08/27/2019	19	0.62	6.8							
					09/17/2019	18	0.65	7.1							
					09/24/2019	18	0.63	6.9							
					10/15/2019	19	0.65	7.1							
					10/22/2019	18	0.66	7.2							
					11/12/2019	11	0.72	7.9							
					11/19/2019	18	0.65	7.1							
					12/03/2019	16	0.60	6.6							
							12/10/2019	11	0.61	6.7					
														A 1.3.4	40
					Annual Mean	18									

Category	Parameter	Method	Units	Sample	Sample Date	Result	MDL	RI
				Location				
	Nickel	EPA 6010C	mg/kg dry	Plant 1	01/22/2019		0.85	9.4
			weight	Dewatering Cake	01/29/2019		0.80	8.9
				Cano	02/19/2019		0.76	8.5
					02/26/2019	34	0.71	7.9
					03/19/2019	34	0.72	8.0
					03/26/2019	27	0.79	8.8
					04/09/2019	27	0.75	8.4
					04/16/2019	32	0.84	9.3
					05/21/2019	22	0.71	7.9
					05/28/2019	23	0.79	8.8
					06/04/2019	33	0.83	9.2
					06/11/2019	38	0.72	8.0
					07/16/2019	33	2.1	8.1
					07/23/2019	37	2.1	8.3
					08/20/2019	21	2.1	8.3
					08/27/2019	32	2.0	8.0
					09/17/2019	34	2.0	7.7
					09/24/2019	35	2.0	7.7
					10/15/2019	41	2.0	7.8
					10/22/2019	41	2.1	8.2
					11/12/2019	19	2.0	7.7
					11/19/2019	35	2.0	7.6
					12/03/2019	33	1.8	7.0
					12/10/2019	32	2.1	8.0
					Annual Mean	31		
					Annual Max	41		
		EPA 6010C		Plant 2 Cake	01/22/2019	31	0.80	8.9
			weight		01/29/2019	48	0.90	10
					02/19/2019	35	0.84	9.4
					02/26/2019	40	0.89	10
					03/19/2019	42	0.93	10
					03/26/2019	26	0.88	9.8
					04/09/2019	37	0.85	9.5
					Annual Mean	37		
					Annual Max	48		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL	
		EPA 6010C		Plant 2	04/16/2019	36	0.64	7.2	
			weight	Dewatering Cake	05/22/2019	32	0.78	8.7	
				Cake	05/28/2019	25	0.50	5.6	
					06/04/2019	43	0.73	8.2	
					06/11/2019	37	0.62	6.9	
					07/16/2019	34	2.1	8.2	
					07/23/2019	36	2.0	7.7	
					08/20/2019	19	2.1	8.2	
					08/27/2019	33	1.7	6.8	
				09/17/2019	32	1.8	7.1		
					09/24/2019	33	1.8	6.9	
					10/15/2019	36	1.8	7.1	
					10/22/2019	35	1.9	7.2	
					11/12/2019	19	2.0	7.9	
					11/19/2019		1.8	7.1	
					12/03/2019		1.7	6.6	
					12/10/2019		1.7	6.7	
					Annual Mean	32		+	
					Annual Max	43		+	
	Selenium	EPA 6010C	ma/ka drv	Plant 1	01/22/2019		2.6	24	
				weight	Dewatering	01/29/2019		2.5	22
					Cake	02/19/2019		48	420
						02/26/2019		2.2	20
					03/19/2019		2.3	20	
					03/26/2019		2.5	22	
					04/09/2019		2.3	21	
					04/16/2019		2.6	23	
					05/21/2019		2.2	20	
					05/28/2019		2.5	22	
					06/04/2019		2.6	23	
					06/11/2019		2.2	20	
					07/16/2019				
							3.8	20	
					07/23/2019 08/20/2019		3.9	21	
							3.9	21	
					08/27/2019		3.7	20	
					09/17/2019		3.6	19	
					09/24/2019		3.6	19	
					10/15/2019		3.7	19	
					10/22/2019		3.9	20	
					11/12/2019		3.6	19	
					11/19/2019		3.6	19	
					12/03/2019		3.3	18	
					12/10/2019	ND	3.8	20	
					Annual Mean	<48			
					Annual Max	<48			

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 6010C		Plant 2 Cake	01/22/2019	ND	2.5	22
			weight		01/29/2019	ND	2.8	25
					02/19/2019	ND	2.6	23
					02/26/2019	ND	2.8	25
					03/19/2019	ND	2.9	26
					03/26/2019	ND	2.7	24
					04/09/2019	ND	2.7	24
					Annual Mean	<2.9		
					Annual Max	<2.9		
		EPA 6010C		Plant 2	04/16/2019	ND	2.0	18
			weight	Dewatering	05/22/2019	ND	2.4	22
				Cake	05/28/2019	ND	1.6	14
					06/04/2019		2.3	20
					06/11/2019 ND	1.9	17	
					3.8	20		
					07/23/2019	ND	3.6	19
					08/20/2019	ND	3.8	20
					08/27/2019	ND	3.2	17
					09/17/2019	ND	3.4	18
					09/24/2019	ND	3.2	17
					10/15/2019	ND	3.3	18
					10/22/2019	ND	3.4	18
					11/12/2019	ND	3.7	20
					11/19/2019	ND	3.4	18
					12/03/2019	ND	3.1	17
				12/10/2019		3.2	17	
					Annual Mean	<3.8		
					Annual Max	<3.8		

Category	Parameter	Method	Units	Sample	Sample Date	Result	MDL	RI
				Location				
	Silver	EPA 6010C	mg/kg dry	Plant 1	01/22/2019		0.67	12
			weight	Dewatering Cake	01/29/2019		0.63	11
				Cano	02/19/2019		0.60	11
					02/26/2019	3.5 DNQ	0.56	9.8
					03/19/2019		0.57	10
					03/26/2019		0.62	11
					04/09/2019	3.3 DNQ	0.59	10
					04/16/2019		0.66	12
					05/21/2019	3.0 DNQ	0.56	9.8
					05/28/2019	2.7 DNQ	0.62	11
					06/04/2019	5.0 DNQ	0.65	12
					06/11/2019	4.8 DNQ	0.56	10
					07/16/2019	4.6 DNQ	0.47	10
					07/23/2019	4.6 DNQ	0.48	10
					08/20/2019	4.0 DNQ	0.48	10
					08/27/2019	3.9 DNQ	0.46	10
					09/17/2019	5.0 DNQ	0.45	9.7
					09/24/2019	4.1 DNQ	0.44	9.6
					10/15/2019	4.9 DNQ	0.45	9.7
					10/22/2019	4.3 DNQ	0.48	10
					11/12/2019	2.5 DNQ	0.45	9.6
					11/19/2019	3.7 DNQ	0.44	9.5
					12/03/2019	3.8 DNQ	0.41	8.8
					12/10/2019	2.4 DNQ	0.47	10
					Annual Mean	3.9 DNQ		
					Annual Max	5.0 DNQ		
		EPA 6010C		Plant 2 Cake	01/22/2019	5.0 DNQ	0.63	11
			weight		01/29/2019	5.7 DNQ	0.71	13
					02/19/2019	4.0 DNQ	0.66	12
					02/26/2019	4.0 DNQ	0.70	12
					03/19/2019	5.2 DNQ	0.73	13
					03/26/2019	2.6 DNQ	0.69	12
					04/09/2019	3.6 DNQ	0.67	12
					Annual Mean	4.3 DNQ		
					Annual Max	5.7 DNQ		

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RI
		EPA 6010C	0 0 ,	Plant 2	04/16/2019	4.4 DNQ	0.51	8.9
			weight	Dewatering Cake	05/22/2019	4.6 DNQ	0.61	11
				Cake	05/28/2019	2.5 DNQ	0.40	7.0
					06/04/2019	6.3 DNQ	0.58	10
					06/11/2019	5.2 DNQ	0.48	8.6
					07/16/2019	4.3 DNQ	0.47	10
					07/23/2019	4.4 DNQ	0.45	9.6
					08/20/2019	4.0 DNQ	0.47	10
					08/27/2019	4.7 DNQ	0.39	8.4
					09/17/2019	4.4 DNQ	0.41	8.9
					09/24/2019	4.1 DNQ	0.40	8.6
					10/15/2019	5.9 DNQ	0.41	8.8
					10/22/2019	3.7 DNQ	0.42	9.0
					11/12/2019	2.2 DNQ	0.46	9.9
					11/19/2019	3.8 DNQ	0.41	8.9
					12/03/2019	3.8 DNQ	0.38	8.3
					12/10/2019	2.8 DNQ	0.39	8.4
					Annual Mean	4.2 DNQ		
					Annual Max	6.3 DNQ		
	Thallium	EPA 6010C	mg/kg dry	Plant 1	01/22/2019	ND	1.5	24
		W	weight	ght Dewatering Cake	04/09/2019	ND	1.4	21
					07/16/2019	ND	2.4	20
					10/15/2019	ND	0.39 8.4 1.5 24 1.4 21	19
					Annual Mean	<2.4		
					Annual Max	<2.4		
		EPA 6010C	mg/kg dry	Plant 2 Cake	01/22/2019	ND	1.4	22
			weight		04/09/2019	ND		
					Annual Mean	<1.5	-	
						<1.5		
		EPA 6010C	ma/ka drv	Plant 2	07/16/2019		2.4	20
			weight	Dewatering	10/15/2019		2.1	18
				Cake	Annual Mean	<2.4		1
					Annual Max	<2.4		
	Vanadium	EPA 6010C	ma/ka drv	Plant 1	01/22/2019		2.5	4.7
			weight	Dewatering	04/09/2019		2.2	4.2
				Cake	07/16/2019		0.20	4.1
					Annual Mean	24	0.20	
					Annual Max	29		
		EPA 6010C	ma/ka dry	Plant 2 Cake	01/22/2019		2.3	4.4
			weight	l Z Gano	04/09/2019		2.5	4.8
		EPA 6010C mg			Annual Mean	72	2.3	
					Annual Max	78		
			ma/ka dry	Plant 2	07/16/2019		0.20	4.1
		L17.00100	weight	Dewatering	Annual Mean	95	0.20	7.1
				Cake	Annual Max	95		
					Allinal Max	30	1	

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Zinc	EPA 6010C	mg/kg dry	Plant 1	01/22/2019	530	8.2	24
			weight	Dewatering	01/29/2019	680	7.7	22
				Cake	02/19/2019	590	7.3	21
					02/26/2019	550	6.8	20
					03/19/2019	640	7.0	20
					03/26/2019	490	7.6	22
					04/09/2019	570	7.2	21
					04/16/2019	700	8.1	23
					05/21/2019	490	6.8	20
					05/28/2019	540	7.6	22
					06/04/2019	790	8.0	23
					06/11/2019	820	6.9	20
					07/16/2019	800	8.2	20
					07/23/2019	800	8.3	21
					08/20/2019	750	8.3	21
					08/27/2019	770	8.0	20
					09/17/2019	820	7.8	19
					09/24/2019	750	7.7	19
					10/15/2019	770	7.8	19
					10/22/2019	720	8.2	20
					11/12/2019	500	7.8	19
					11/19/2019	780	7.7	19
					12/03/2019	740	7.1	18
					12/10/2019	700	8.1	20
					Annual Mean	680		
					Annual Max	820		
		EPA 6010C		Plant 2 Cake	01/22/2019	690	7.7	22
			weight		01/29/2019	820	8.7	25
					02/19/2019	630	8.1	23
					02/26/2019	690	8.6	25
					03/19/2019	910	8.9	26
					03/26/2019	550	8.4	24
					04/09/2019	730	8.2	24
					Annual Mean	720		
					Annual Max	910		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 6010C	mg/kg dry	Plant 2	04/16/2019	720	6.2	18
			weight	Dewatering Cake	05/22/2019	630	7.5	22
				Cake	05/28/2019	370	4.9	14
	nic Tetrachloroethane				06/04/2019	770	7.1	20
					06/11/2019	780	5.9	17
					07/16/2019	740	8.2	20
					07/23/2019	730	7.7	19
					08/20/2019	720	8.2	20
					08/27/2019	760	6.8	17
					09/17/2019	720	7.2	18
					09/24/2019	680	6.9	17
					10/15/2019	720	7.1	18
					10/22/2019	690	7.3	18
					11/12/2019	450	7.9	20
					11/19/2019	720	7.2	18
					12/03/2019	700	6.6	17
					12/10/2019	700	6.7	17
					Annual Mean	680		
					Annual Max	780		
/olatile		EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	120
rganic	Tetrachloroethane			Dewatering	04/09/2019	ND	20	100
Compounds				Cake	10/15/2019	ND	880	2200
				Annual Mean <880				
					Annual Max	<880		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	110
					04/09/2019	ND	23	110
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	830	2100
				Dewatering	Annual Mean	<830		
				Cake	Annual Max	<830		
	1,1,1-	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
	Trichloroethane			Dewatering	04/09/2019	ND	20	40
				Cake	10/15/2019	ND	440	880
					Annual Mean	<440		
					Annual Max	<440		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019		23	45
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019		410	830
			. 5 5 7	Dewatering	Annual Mean	<410		
				Cake	Annual Max	<410	-	

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	R
	1,1,2,2-	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
	Tetrachloroethane			Dewatering	04/09/2019	ND	20	40
				Cake	10/15/2019	ND	440	880
					Annual Mean	<440		
					Annual Max	<440		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	410	830
				Dewatering	Annual Mean	<410		
				Cake	Annual Max	<410		
	1,1,2-	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
	Trichloroethane			Dewatering	04/09/2019	ND	20	40
				Cake	10/15/2019	ND	440	880
					Annual Mean	<440		
					Annual Max	<440		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B		0B μg/kg dry Plant 2	10/15/2019	ND	410	830
				Dewatering	Annual Mean	<410		
				Cake	Annual Max	<410		
	1,1-Dichloroethane	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
				Dewatering	04/09/2019	ND	20	40
				Cake	10/15/2019	ND	440	880
					Annual Mean	<440		
					Annual Max	<440		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019		22	44
					04/09/2019		23	45
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	410	830
				Dewatering	Annual Mean	<410		
				Cake	Annual Max	<410		
	1,1-Dichloroethene	EPA 8260B	μg/kg dry	Plant 1	01/22/2019		24	120
	,		15 5 7	Dewatering	04/09/2019		20	100
				Cake	10/15/2019		880	2200
					Annual Mean	<880		
	Ī				Annual Max	<880		+
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019		22	110
			r-5,5 417	lan 2 Gano	04/09/2019		23	110
					Annual Mean	<23		1.0
					Annual Max	<23		-

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	R
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	830	2100
				Dewatering	Annual Mean	<830		
				Cake	Annual Max	<830		
	1,1-	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
	Dichloropropene			Dewatering	04/09/2019	ND	20	40
				Cake	10/15/2019	ND	440	880
					Annual Mean	<440		
					Annual Max	<440		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	410	830
				Dewatering	Annual Mean	<410		
				Cake	Annual Max	<410		
	1,2,3-	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	120
	Trichlorobenzene			Dewatering	04/09/2019	ND	20	100
				Cake	10/15/2019	ND	880	2200
					Annual Mean	<880		
		EPA 8260B μg/			Annual Max	<880		
			μg/kg dry	g dry Plant 2 Cake	01/22/2019	ND	22	110
					04/09/2019	ND	23	110
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	830	2100
				Dewatering	Annual Mean	<830		
				Cake	Annual Max	<830		
	1,2,3-	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	240
	Trichloropropane			Dewatering	04/09/2019	ND	20	200
				Cake	Annual Mean	<24		
					Annual Max	<24		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	220
					04/09/2019	ND	23	230
					Annual Mean	<23		
					Annual Max	<23		
	1,2,4-	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	120
	Trichlorobenzene			Dewatering	04/09/2019	ND	20	100
				Cake	10/15/2019	ND	880	2200
					Annual Mean	<880		
					Annual Max	<880		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	110
					04/09/2019	ND	23	110
					Annual Mean	<23		
					Annual Max	<23		

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	R
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	830	2100
	1,2,4- Trimethylbenzene 1,2-Dibromo-3- chloropropane 1,2-Dibromoethane			Dewatering	Annual Mean	<830		
				Cake	Annual Max	<830		
		EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
	Trimethylbenzene			Dewatering	04/09/2019	22 DNQ	20	40
				Cake	Annual Mean	23 DNQ		
					Annual Max	23 DNQ		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	48	120
	chloropropane			Dewatering Cake	04/09/2019	ND	40	100
				Cake	10/15/2019	ND	880	2200
					Annual Mean	<880		
					Annual Max	<880		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	44	110
					04/09/2019	ND	45	110
					Annual Mean	<45		
					Annual Max	<45		
		EPA 8260B	μg/kg dry	Dewatering Cake	10/15/2019	ND	830	2100
					Annual Mean	<830		
					Annual Max	<830		
	1,2-Dibromoethane	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
				Dewatering Cake	04/09/2019		20	40
				Oake	10/15/2019	ND	440	880
					Annual Mean	<440		
					Annual Max	<440		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	410	830
				Dewatering Cake	Annual Mean	<410		
				Care	Annual Max	<410		
	1,2-	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
	Dichlorobenzene			Dewatering Cake	04/09/2019		20	40
				June	10/15/2019	ND	440	880
					Annual Mean	<440		
					Annual Max	<440		
	I	EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
				A	Annual Mean	<23		
					Annual Max	<23		

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	R
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	410	830
				Dewatering	Annual Mean	<410		
				Cake	Annual Max	<410		
	1,2-Dichloroethane	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
				Dewatering	04/09/2019	ND	20	40
				Cake	10/15/2019	ND	440	880
					Annual Mean	<440		
					Annual Max	<440		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	410	830
				Dewatering	Annual Mean	<410		
				Cake	Annual Max	<410		
	1,2-	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
	Dichloropropane			Dewatering	04/09/2019	ND	20	40
				Cake	10/15/2019	ND	440	880
					Annual Mean	<440		
		EDA 8260B			Annual Max	<440		
		EPA 8260B	μg/kg dry		01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	410	830
				Dewatering	Annual Mean	<410		
				Cake	Annual Max	<410		
	1,3,5-	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
	Trichlorobenzene			Dewatering	04/09/2019	ND	20	40
				Cake	10/15/2019	ND	880	1800
					Annual Mean	<880		
					Annual Max	<880		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019		830	1700
				Dewatering	Annual Mean	<830		
				Cake	Annual Max	<830		+
	1,3,5-	EPA 8260B	μg/kg dry	Plant 1	01/22/2019		24	48
	Trimethylbenzene		. 5 5,	Dewatering	04/09/2019		20	40
				Cake	Annual Mean	<24		+
					Annual Max	<24		

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	R
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		
	1,3-	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
	Dichlorobenzene			Dewatering Cake	04/09/2019	ND	20	40
				Cake	10/15/2019	ND	440	880
					Annual Mean	<440		
					Annual Max	<440		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	410	830
				Dewatering	Annual Mean	<410		
				Cake	Annual Max	<410		
	1,3-	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
	Dichloropropane			Dewatering	04/09/2019	ND	20	40
				Cake	10/15/2019	ND	440	880
					Annual Mean	<440		
		EPA 8260B I			Annual Max	<440		
		EPA 8260B	μg/kg dry		01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	410	830
				Dewatering	Annual Mean	<410		
				Cake	Annual Max	<410		
	1,4-	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
	Dichlorobenzene			Dewatering	04/09/2019	ND	20	40
				Cake	10/15/2019	ND	440	880
					Annual Mean	<440		
					Annual Max	<440		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	410	830
				Dewatering	Annual Mean	<410		
				Cake	Annual Max	<410		
	2,2-	EPA 8260B	μg/kg dry	Plant 1	01/22/2019		24	48
	2,2- Dichloropropane			Dewatering	04/09/2019		20	40
				Cake	10/15/2019		880	1800
					Annual Mean	<880		+
					Annual Max	<880		+

tegory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RI
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	830	1700
				Dewatering	Annual Mean	<830		
				Cake	Annual Max	<830		
	2-Chlorotoluene	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	120
				Dewatering	04/09/2019	ND	20	100
				Cake	10/15/2019	ND	880	2200
					Annual Mean	<880		
					Annual Max	<880		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	110
					04/09/2019	ND	23	110
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	830	2100
				Dewatering	Annual Mean	<830		
				Cake	Annual Max	<830		
	2-Hexanone	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	120	610
				Dewatering	04/09/2019	ND	100	500
				Cake	Annual Mean	<120		
					Annual Max	<120		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	110	550
					04/09/2019	ND	110	560
					Annual Mean	<110		
					Annual Max	<110		
	4-Chlorotoluene	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	120
				Dewatering	04/09/2019	ND	20	100
				Cake	10/15/2019	ND	440	2200
					Annual Mean	<440		
					Annual Max	<440		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	110
					04/09/2019	ND	23	110
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	410	2100
				Dewatering	Annual Mean	<410		
				Cake	Annual Max	<410		
	Acrolein	EPA 8260B	μg/kg dry	Plant 1	01/22/2019		240	2400
				Dewatering	04/09/2019		200	2000
				Cake	10/15/2019		18000	44000
					Annual Mean	<18000		
					Annual Max	<18000	-	-

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RI	
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	220	2200	
					04/09/2019	ND	230	2300	
					Annual Mean	<230			
					Annual Max	<230			
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	17000	41000	
				Dewatering	Annual Mean	<17000			
				Cake	Annual Max	<17000			
	Acrylonitrile	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	480	2400	
				Dewatering	04/09/2019	ND	400	2000	
				Cake	10/15/2019	ND	8800	44000	
					Annual Mean	<8800			
					Annual Max	<8800			
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	440	2200	
					04/09/2019	ND	450	2300	
					Annual Mean	<450			
					Annual Max	<450			
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	8300	41000	
				Dewatering	Annual Mean	<8300			
				Cake	Annual Max	<8300			
	Benzene	EPA 8260B	μg/kg dry	Plant 1	01/22/2019		24	48	
		EPA 8260B			Dewatering	04/09/2019		20	40
				Cake	10/15/2019		440	880	
					<440	111			
					Annual Mean Annual Max	<440			
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019		22	44	
			ريد وبروس		04/09/2019		23	45	
					Annual Mean	<23		-	
					Annual Max	<23			
		EPA 8260B	ua/ka drv	Plant 2	10/15/2019		410	830	
			ريد وبروس	Dewatering	Annual Mean	<410	1	-	
				Cake	Annual Max	<410			
	Bromobenzene	EPA 8260B	μg/kg dry	Plant 1	01/22/2019		24	120	
	Bromosonzono	2.7.02002	pg/ng ary	Dewatering	04/09/2019		20	100	
				Cake	10/15/2019		880	2200	
					Annual Mean	<880	000		
					Annual Max	<880			
		EPA 8260B μ	μg/kg dry	Plant 2 Cake	01/22/2019		22	110	
			ry ny diy	. Idin 2 Gano	04/09/2019		23	110	
	EPA 8260B U			Annual Mean	<23	123	1.10		
				Annual Max	<23		-		
		ua/ka dry	Plant 2	10/15/2019		830	2100		
		EPA 8260B μg/k	µg/kg ury		Annual Mean	<830	030	2100	
				Cake					
					Annual Max	<830			

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RI
	Bromochlorometha	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	120
	Bromochlorometha ne Bromodichlorometh ane Bromoform			Dewatering	04/09/2019	ND	20	100
				Cake	10/15/2019	ND	880	2200
					Annual Mean	<880		
					Annual Max	<880		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	110
					04/09/2019	ND	23	110
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	830	2100
				Dewatering Cake	Annual Mean	<830		
				Cake	Annual Max	<830		
		EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
	ane			Dewatering Cake	04/09/2019	ND	20	40
				Cake	10/15/2019	ND	440	880
					Annual Mean	<440		
					Annual Max	<440		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
			3 µg/kg dry		Annual Max	<23		
		EPA 8260B	Dewatering A	10/15/2019	ND	410	830	
				Annual Mean	<410			
				Саке	Annual Max	<410		
	Bromoform	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	48	120
				Dewatering	04/09/2019	ND	40	100
				Cake	10/15/2019	ND	880	2200
					Annual Mean	<880		
					Annual Max	<880		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	44	110
					04/09/2019	ND	45	110
					Annual Mean	<45		
					Annual Max	<45		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	830	2100
				Dewatering	Annual Mean	<830		
				Cake	Annual Max	<830		
	Bromomethane	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	120
				Dewatering	04/09/2019	ND	20	100
				Cake	10/15/2019	ND	880	2200
					Annual Mean	<880		
	-				Annual Max	<880		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	110
					04/09/2019		23	110
					Annual Mean	<23		
					Annual Max	<23		

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	R
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	830	2100
				Dewatering	Annual Mean	<830		
				Cake	Annual Max	<830		
	Carbon	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	120
	tetrachloride			Dewatering Cake	04/09/2019	ND	20	100
				Саке	10/15/2019	ND	880	2200
					Annual Mean	<880		
					Annual Max	<880		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	110
					04/09/2019	ND	23	110
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	830	2100
				Dewatering Cake	Annual Mean	<830		
				Саке	Annual Max	<830		
	Chlorobenzene	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
				Dewatering Cake	04/09/2019	ND	20	40
				Cake	10/15/2019	ND	440	880
					Annual Mean	<440		
					Annual Max	<440		
		EPA 8260B	μg/kg dry	/kg dry Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	410	830
				Dewatering Cake	Annual Mean	<410		
				Cake	Annual Max	<410		
	Chloroethane	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	48	120
				Dewatering Cake	04/09/2019	ND	40	100
				Cake	10/15/2019	ND	880	2200
					Annual Mean	<880		
					Annual Max	<880		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	44	110
					04/09/2019	ND	45	110
					Annual Mean	<45		
					Annual Max	<45		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	830	2100
				Dewatering	Annual Mean	<830		
				Cake	Annual Max	<830		
	Chloroform	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
				Dewatering	04/09/2019	ND	20	40
				Cake	10/15/2019	ND	440	880
					Annual Mean	<440		
					Annual Max	<440		

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	R
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	410	830
				Dewatering	Annual Mean	<410		
				Cake	Annual Max	<410		
	Chloromethane	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	120
				Dewatering	04/09/2019	ND	20	100
				Cake	10/15/2019	ND	880	2200
					Annual Mean	<880		
					Annual Max	<880		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	110
					04/09/2019	ND	23	110
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	830	2100
				Dewatering	Annual Mean	<830		
				Cake	Annual Max	<830		
	cis-1,2-	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
	Dichloroethene				04/09/2019	ND	20	40
					10/15/2019	ND	440	880
					Annual Mean	<440		
					Annual Max	<440		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	410	830
				Dewatering	Annual Mean	<410		
				Cake	Annual Max	<410		
	cis-1,3-	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
	Dichloropropene			Dewatering	04/09/2019	ND	20	40
				Cake	10/15/2019	ND	440	880
					Annual Mean	<440		
					Annual Max	<440		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		+
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019		410	830
				Dewatering	Annual Mean	<410		+
				Cake	Annual Max	<410		-

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RI
	Dibromochlorometh	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
	Dibromochlorometh ane			Dewatering	04/09/2019	ND	20	40
				Cake	10/15/2019	ND	440	880
					Annual Mean	<440		
					Annual Max	<440		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	410	830
				Dewatering Cake	Annual Mean	<410		
				Cake	Annual Max	<410		
	Dibromomethane	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
				Dewatering	04/09/2019	ND	20	40
				Cake	10/15/2019	ND	440	880
					Annual Mean	<440		
					Annual Max	<440		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry		10/15/2019	ND	410	830
				Dewatering	Annual Mean	<410		
				Cake	Annual Max	<410		
	Dichlorodifluoromet	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	48	120
	hane			Dewatering	04/09/2019	ND	40	100
				Cake	10/15/2019	ND	880	2200
					Annual Mean	<880		
					Annual Max	<880		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	44	110
					04/09/2019	ND	45	110
					Annual Mean	<45		
					Annual Max	<45		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	830	2100
				Dewatering	Annual Mean	<830		
				Cake	Annual Max	<830		
	Ethylbenzene	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
				Dewatering	04/09/2019	ND	20	40
				Cake	10/15/2019	ND	440	880
					Annual Mean	<440		+
					Annual Max	<440		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019		22	44
					04/09/2019		23	45
					Annual Mean	<23		
					Annual Max	<23		1

tegory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	R
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	410	830
				Dewatering	Annual Mean	<410		
				Cake	Annual Max	<410		
	Hexachlorobutadie	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	120
	ne			Dewatering	04/09/2019	ND	20	100
				Cake	10/15/2019	ND	880	2200
					Annual Mean	<880		
					Annual Max	<880		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	110
					04/09/2019	ND	23	110
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	830	2100
				Dewatering	Annual Mean	<830		
				Cake	Annual Max	<830		
	Isobutyl alcohol	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	610	1200
				Dewatering	04/09/2019	ND	500	1000
				Cake	Annual Mean	<610		
					Annual Max	<610		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	550	1100
					04/09/2019	ND	560	1100
					Annual Mean	<560		
					Annual Max	<560		
	Isopropylbenzene	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
				Dewatering	04/09/2019	ND	20	40
				Cake	Annual Mean	<24		
					Annual Max	<24		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		
	m,p-Xylenes	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	48	97
				Dewatering	04/09/2019	ND	40	80
				Cake	Annual Mean	<48		
					Annual Max	<48		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	44	89
					04/09/2019	ND	45	90
					Annual Mean	<45		
					Annual Max	<45		
	Methyl ethyl ketone	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	6300	120	240
				Dewatering	04/09/2019	4000	100	200
				Cake	10/15/2019	ND	4400	8800
					Annual Mean	4900 DNQ		
					Annual Max	6300	+	_

tegory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	R
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	110	220
					04/09/2019	ND	110	230
					Annual Mean	<110		
					Annual Max	<110		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	4100	8300
				Dewatering	Annual Mean	<4100		
				Cake	Annual Max	<4100		
	Methylene Chloride	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	120	480
				Dewatering	04/09/2019	ND	100	400
				Cake	10/15/2019	ND	4400	8800
					Annual Mean	<4400		
					Annual Max	<4400		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	110	440
					04/09/2019	ND	110	450
					Annual Mean	<110		
					Annual Max	<110		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	4100	8300
				Dewatering	Annual Mean	<4100		
				Cake	Annual Max	<4100		
	MIBK	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	83 DNQ	61	120
				Dewatering	04/09/2019	62 DNQ	50	100
				Cake	Annual Mean	72 DNQ		
					Annual Max	83 DNQ		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	55	110
					04/09/2019	ND	56	110
					Annual Mean	<56		
					Annual Max	<56		
	Naphthalene	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	48	120
				Dewatering	04/09/2019	ND	40	100
				Cake	10/15/2019	ND	880	2200
					Annual Mean	<880		
					Annual Max	<880		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	44	110
					04/09/2019	ND	45	110
					Annual Mean	<45		
					Annual Max	<45		+
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019		830	2100
				Dewatering	Annual Mean	<830		
				Cake	Annual Max	<830		+
	n-Butylbenzene	EPA 8260B	μg/kg dry	Plant 1	01/22/2019		24	120
				Dewatering	04/09/2019		20	100
				Cake	Annual Mean	<24		+
					Annual Max	<24		-

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	R
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	110
					04/09/2019	ND	23	110
					Annual Mean	<23		
					Annual Max	<23		48 40 44 45 48 40 44 45 120 100 110 48 40 44 45
	n-Propylbenzene	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
				Dewatering	04/09/2019	ND	20	40
				Cake	Annual Mean	<24		
					Annual Max	<24		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		
	o-Xylene	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
				Dewatering	04/09/2019	ND	20	40
				Cake	Annual Mean	<24		
					Annual Max	<24		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		
	sec-Butylbenzene	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	120
				Dewatering	04/09/2019	ND	20	100
				Cake	Annual Mean	<24		
					Annual Max	<24		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	110
					04/09/2019	ND	23	110
					Annual Mean	<23		
					Annual Max	<23		
	Styrene	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
				Dewatering	04/09/2019		20	
				Cake	Annual Mean	<24		
					Annual Max	<24		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		
	tert-Butylbenzene	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	120
				Dewatering	04/09/2019	ND	20	100
				Cake	Annual Mean	<24		
					Annual Max	<24		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019		22	110
					04/09/2019		23	110
					Annual Mean	<23		+
					Annual Max	<23	-	

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RI
	Tetrachloroethene	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
				Dewatering Cake	04/09/2019	ND	20	40
				Cake	10/15/2019	ND	440	880
					Annual Mean	<440		
					Annual Max	<440		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	410	830
				Dewatering	Annual Mean	<410		
				Cake	Annual Max	<410		
	Toluene	EPA 8260B	μg/kg dry	Plant 1	01/22/2019		24	48
			F-9/9)	Dewatering	04/09/2019		20	40
				Cake	10/15/2019		440	880
					Annual Mean	180 DNQ	1	
					Annual Max	77		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019		22	44
		LI A 0200D	ружу агу	I lain 2 Care	04/09/2019		23	45
					Annual Mean	<23	23	70
		EPA 8260B μ			Annual Max	<23		
			ug/kg dn/	Plant 2	10/15/2019		410	830
			100	Dewatering	Annual Mean	<410	410	030
			0B μg/kg dry	Cake	Annual Max	<410		
	tropo 1 2	EDA 9260B	ua/ka da	Dlont 1			24	40
		EPA 8260B	μg/kg dry	Plant 1 Dewatering	01/22/2019		24	48
				Cake	04/09/2019		20	40
					10/15/2019		440	880
					Annual Mean	<440		
						<440		
		EPA 8260B	µg/kg dry	Plant 2 Cake	01/22/2019		22	44
					04/09/2019		23	45
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2 Dewatering	10/15/2019		410	830
				Cake	Annual Mean	<410		
					Annual Max	<410		
	trans-1,3-	EPA 8260B	μg/kg dry	Plant 1	01/22/2019		24	48
	Dichloropropene			Dewatering Cake	04/09/2019		20	40
					10/15/2019		440	880
					Annual Mean	<440		
	-				Annual Max	<440		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	410	830
				Dewatering	Annual Mean	<410		
				Cake	Annual Max	<410		
	Trichloroethene	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	48
				Dewatering	04/09/2019	ND	20	40
				Cake	10/15/2019	ND	440	880
					Annual Mean	<440		
					Annual Max	<440		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	44
					04/09/2019	ND	23	45
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	410	830
				Dewatering	Annual Mean	<410		
				Cake	Annual Max	<410		
	Trichlorofluorometh	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	120
	ane			Dewatering	04/09/2019	ND	20	100
				Cake	10/15/2019	ND	880	2200
					Annual Mean	<880		
					Annual Max	<880		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019	ND	22	110
					04/09/2019	ND	23	110
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019	ND	830	2100
				Dewatering	Annual Mean	<830		
				Cake	Annual Max	<830		
	Vinyl chloride	EPA 8260B	μg/kg dry	Plant 1	01/22/2019	ND	24	120
				Dewatering	04/09/2019	ND	20	100
				Cake	10/15/2019		880	2200
					Annual Mean	<880		
					Annual Max	<880		
		EPA 8260B	μg/kg dry	Plant 2 Cake	01/22/2019		22	110
					04/09/2019		23	110
					Annual Mean	<23		
					Annual Max	<23		
		EPA 8260B	μg/kg dry	Plant 2	10/15/2019		830	2100
			F-9/9)	Dewatering	Annual Mean	<830	1	
				Cake	Annual Max	<830		
mi-Volatile	1,2,4-	EPA 8270C	μg/kg dry	Plant 1	01/22/2019		1900	4800
ganic	Trichlorobenzene		רט ייט און	Dewatering	04/09/2019		3000	7500
mpounds				Cake	07/16/2019		4900	15000
					10/22/2019		3300	8300
					Annual Mean	<4900		2000
					Annual Max	<4900		-

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	1800	4500
					04/09/2019	ND	3600	9100
					Annual Mean	<3600		
					Annual Max	<3600		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	ND	5100	16000
				Dewatering	10/22/2019	ND	2900	7300
				Cake	Annual Mean	<5100		
					Annual Max	<5100		
	1,2-	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	990	4800
	Dichlorobenzene			Dewatering	04/09/2019	ND	1600	7500
				Cake	07/16/2019	ND	4600	31000
					10/22/2019	ND	1700	8300
					Annual Mean	<4600		
					Annual Max	<4600		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	930	4500
					04/09/2019	ND	1900	9100
					Annual Mean	<1900		
					Annual Max	<1900		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	ND	4900	32000
				Dewatering	10/22/2019	ND	1500	7300
				Cake	Annual Mean	<4900		
					Annual Max	<4900		
	1,2-	EPA 8270C	μg/kg dry	Plant 1	07/16/2019	ND	4400	15000
	DIPHENYLHYDRA			Dewatering	Annual Mean	<4400		
	ZINE			Cake	Annual Max	<4400		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019		4700	16000
				Dewatering	Annual Mean	<4700		
				Cake	Annual Max	<4700		
	1,3-	EPA 8270C	ua/ka drv	Plant 1	01/22/2019		1900	4800
	Dichlorobenzene		F-9/9)	Dewatering	04/09/2019		3000	7500
				Cake	07/16/2019		4000	15000
					10/22/2019		3300	8300
					Annual Mean	<4000	10000	
					Annual Max	<4000		
		EPA 8270C	ua/ka drv	Plant 2 Cake	01/22/2019		1800	4500
			ניי פייים	2 3410	04/09/2019		3600	9100
	E				Annual Mean	<3600		0.00
					Annual Max	<3600		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019		4200	16000
		LI A 02/00	µg/kg ury	Dewatering	10/22/2019		2900	7300
				Cake	Annual Mean	<4200	2900	1 300
					Annual Max	<4200		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	1,4-	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	1900	4800
	Dichlorobenzene			Dewatering	04/09/2019	ND	3000	7500
				Cake	07/16/2019	ND	3800	15000
					10/22/2019	ND	3300	8300
					Annual Mean	<3800		
					Annual Max	<3800		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	1800	4500
					04/09/2019	ND	3600	9100
					Annual Mean	<3600		
					Annual Max	<3600		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	ND	4000	16000
				Dewatering	10/22/2019	ND	2900	7300
				Cake	Annual Mean	<4000		
					Annual Max	<4000		
	2,4,5-	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	3800	9500
	Trichlorophenol			Dewatering	04/09/2019	ND	6000	15000
				Cake	07/16/2019	ND	4900	15000
					10/22/2019		6600	17000
					Annual Mean	<6600		
					Annual Max	<6600		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	3600	8900
					04/09/2019		7300	18000
					Annual Mean	<7300		
					Annual Max	<7300		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	ND	5200	16000
			15 5 7	Dewatering	10/22/2019		5800	15000
				Cake	Annual Mean	<5800		1
					Annual Max	<5800		
	2,4,6-	EPA 8270C	ua/ka drv	Plant 1	01/22/2019		3000	9500
	Trichlorophenol		[F-9/1-9 -1-7	Dewatering	04/09/2019		4800	15000
				Cake	07/16/2019		6100	15000
					10/22/2019		5300	17000
					Annual Mean	<6100		
					Annual Max	<6100		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019		2900	8900
			F9/119 41.)	i iain = cano	04/09/2019		5800	18000
					Annual Mean	<5800		
					Annual Max	<5800		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019		6400	16000
		217.02700	F9/Ng diy	Dewatering	10/22/2019		4600	15000
				Cake	Annual Mean	<6400	1000	10000
					Annual Max	<6400		-

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	2,4-Dichlorophenol	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	950	4800
				Dewatering	04/09/2019	ND	1500	7500
				Cake	07/16/2019	ND	4800	15000
					10/22/2019	ND	1700	8300
					Annual Mean	<4800		
					Annual Max	<4800		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	890	4500
					04/09/2019	ND	1800	9100
					Annual Mean	<1800		
					Annual Max	<1800		
		EPA 8270C	ug/kg dry	Plant 2	07/16/2019	ND	5100	16000
				Dewatering	10/22/2019		1500	7300
				Cake	Annual Mean	<5100		
					Annual Max	<5100		
	2,4-Dimethylphenol	FPA 8270C	μg/kg dry	Plant 1	01/22/2019		1900	4800
			F9/119 41.)	Dewatering	04/09/2019		2900	7500
				Cake	07/16/2019		4600	15000
					10/22/2019		3300	8300
					Annual Mean	<4600		0000
					Annual Max	<4600		
		EPA 8270C	ua/ka dry	Plant 2 Cake	01/22/2019		1700	4500
		LINGLIGO	pg/itg dry	I Idili 2 Gallo	04/09/2019		3600	9100
					Annual Mean	<3600	0000	0100
					Annual Max	<3600		-
		EPA 8270C	ua/ka dry	Plant 2	07/16/2019		4900	16000
		LI / (02/00	pg/kg dry	Dewatering	10/22/2019		2800	7300
				Cake	Annual Mean	<4900	2000	7300
					Annual Max	<4900		
	2,4-Dinitrophenol	EPA 8270C	ug/kg dn/	Plant 1	01/22/2019		14000	19000
	z,4-Dirittophenoi	LI A 02/0C	µg/kg diy	Dewatering	04/09/2019		23000	30000
				Cake	07/16/2019		42000	15000
					10/22/2019		25000	33000
					Annual Mean	<42000	25000	33000
					Annual Max	<42000		
		EPA 8270C	ua/ka dru	Plant 2 Cake	01/22/2019		13000	18000
		EFA 02/00	µg/kg diy	Plant 2 Cake				
					04/09/2019		27000	36000
					Annual Mean	<27000		
		EDA 00702		DI t C	Annual Max	<27000	44000	40000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering	07/16/2019		44000	16000
				Dewatering Cake	10/22/2019		22000	29000
					Annual Mean	<44000		
					Annual Max	<44000		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	2,4-Dinitrotoluene	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	1100	4800
				Dewatering	04/09/2019	ND	1800	7500
				Cake	07/16/2019	ND	5600	15000
					10/22/2019	ND	2000	8300
					Annual Mean	<5600		
					Annual Max	<5600		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	1100	4500
					04/09/2019	ND	2200	9100
					Annual Mean	<2200		
					Annual Max	<2200		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	ND	5900	16000
				Dewatering	10/22/2019	ND	1700	7300
				Cake	Annual Mean	<5900		
					Annual Max	<5900		
	2,6-Dinitrotoluene	EPA 8270C	ua/ka drv	Plant 1	01/22/2019		1400	4800
	_, -,		[F-9/1-9 -1-7	Dewatering	04/09/2019		2100	7500
				Cake	07/16/2019		5500	15000
					10/22/2019		2400	8300
					Annual Mean	<5500		
					Annual Max	<5500		
		EPA 8270C	ua/ka dry	Plant 2 Cake	01/22/2019		1300	4500
		217(02700	pg/itg dry	riam 2 dano	04/09/2019		2600	9100
					Annual Mean	<2600	2000	0.00
					Annual Max	<2600		
		EPA 8270C	ua/ka dry	Plant 2	07/16/2019		5800	16000
		LI // 02/00	pg/kg dry	Dewatering	10/22/2019		2100	7300
				Cake	Annual Mean	<5800	2100	7000
					Annual Max	<5800		
	2-	EPA 8270C	ua/ka dry	Plant 1	01/22/2019		950	4800
	Chloronaphthalene	LI A 02700	ружу агу	Dewatering	04/09/2019		1500	7500
				Cake	07/16/2019		5300	15000
					10/22/2019		1700	8300
					Annual Mean	<5300	1700	0300
					Annual Max	<5300		
		EPA 8270C	ug/kg dn/	Plant 2 Cake	01/22/2019		890	4500
		LFA 02/0C	µg/kg dry	Flant 2 Cake	04/09/2019		1800	9100
					Annual Mean	<1800	1000	9100
					Annual Max	<1800		
		EDA 00700	110/km d=:	Dlant 2			E600	16000
		EPA 8270C	µg/kg ary	Plant 2 Dewatering	07/16/2019		5600	16000
				Cake	10/22/2019		1500	7300
					Annual Mean	<5600		
					Annual Max	<5600		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	2-Chlorophenol	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	990	4800
				Dewatering	04/09/2019	ND	1600	7500
				Cake	07/16/2019	ND	3900	15000
					10/22/2019	ND	1700	8300
					Annual Mean	<3900		
					Annual Max	<3900		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	930	4500
					04/09/2019	ND	1900	9100
					Annual Mean	<1900		
					Annual Max	<1900		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	ND	4100	16000
				Dewatering	10/22/2019		1500	7300
				Cake	Annual Mean	<4100		
					Annual Max	<4100		
	2-	EPA 8270C	ua/ka drv	Plant 1	01/22/2019		990	4800
			F9/119 41.)	Dewatering	04/09/2019		1600	7500
				Cake	07/16/2019		4300	31000
					10/22/2019		1700	8300
					Annual Mean	<4300	11.00	0000
		EDA 00700			Annual Max	<4300		
		EPA 8270C	ua/ka dry	Plant 2 Cake	01/22/2019		930	4500
		217102700	pg/itg dry	riant 2 Gano	04/09/2019		1900	9100
					Annual Mean	<1900	1000	0.00
					Annual Max	<1900		
		EPA 8270C	ua/ka dry	Plant 2	07/16/2019		4500	32000
		LI /(02/ 00	pg/kg dry	Dewatering	10/22/2019		1500	7300
				Cake	Annual Mean	<4500	1000	7000
					Annual Max	<4500		
	2-Methylphenol	EPA 8270C	ua/ka dry	Plant 1	01/22/2019		1100	4800
	2-Methylphenol	LI A 02700	ружу агу	Dewatering	04/09/2019		1800	7500
				Cake	07/16/2019		4800	15000
					10/22/2019		2000	8300
					Annual Mean	<4800	2000	0300
					Annual Max	<4800		
		EPA 8270C	ug/kg dn/	Plant 2 Cake	01/22/2019		1100	4500
		EPA 02/00	µg/kg dry	Platit 2 Cake				
					04/09/2019 Annual Mean		2200	9100
						<2200		
		EDA 00700		Dlaut 0	Annual Max	<2200	5000	40000
		EPA 8270C	µg/kg dry	Plant 2 Dewatering	07/16/2019		5000	16000
				Cake	10/22/2019		1700	7300
					Annual Mean	<5000		
					Annual Max	<5000		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RI
	2-Nitroaniline	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	3200	4800
				Dewatering	04/09/2019	ND	5100	7500
				Cake	07/16/2019	ND	4600	15000
					10/22/2019	ND	5600	8300
					Annual Mean	<5600		
					Annual Max	<5600		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	3000	4500
					04/09/2019	ND	6200	9100
					Annual Mean	<6200		
					Annual Max	<6200		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	ND	4800	16000
				Dewatering	10/22/2019	ND	4900	7300
				Cake	Annual Mean	<4900		
					Annual Max	<4900		
	2-Nitrophenol	EPA 8270C	μg/kg dry	Plant 1	01/22/2019		1900	4800
	, spiriting.		13.3.7	Dewatering	04/09/2019		3000	7500
				Cake	07/16/2019		4400	15000
					10/22/2019		3300	8300
					Annual Mean	<4400		0000
					Annual Max	<4400		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019		1800	4500
		LI A 02700	ружу агу	I lain 2 Cake	04/09/2019		3600	9100
					Annual Mean	<3600	3000	3100
					Annual Max	<3600		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019		4600	16000
		LFA 02/0C	µg/kg dry	Dewatering	10/22/2019		2900	7300
				Cake	Annual Mean	<4600	2900	7300
	0.0.4	EDA 00700		Dis-rate 4	Annual Max	<4600	4000	04000
	3 & 4 METHYLPHENOL	EPA 8270C	µg/kg ary	Plant 1 Dewatering	07/16/2019		4600	31000
				Cake	Annual Mean	<4600		
		EDA 00700	/1:	Dlaut 0	Annual Max	<4600	4000	2000
		EPA 8270C	µg/kg ary	Plant 2 Dewatering	07/16/2019		4800	32000
				Cake	Annual Mean	8500 DNQ		
	0.0	EDA 00700		Disast	Annual Max	8500 DNQ	0400	0500
	3,3- Dichlorobenzidine	EPA 8270C	μg/kg dry	Plant 1 Dewatering	01/22/2019		2100	9500
	Did not oberizionile			Cake	04/09/2019		3300	15000
					07/16/2019		4200	15000
					10/22/2019		3700	17000
					Annual Mean	<4200		
					Annual Max	<4200		
		EPA 8270C	µg/kg dry	Plant 2 Cake	01/22/2019		2000	8900
					04/09/2019		4000	18000
					Annual Mean	<4000		
					Annual Max	<4000		

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	ND	4400	16000
				Dewatering	10/22/2019	ND	3200	15000
				Cake	Annual Mean	<4400		
					Annual Max	<4400		
	3-Nitroaniline	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	1900	4800
				Dewatering	04/09/2019	ND	3000	7500
				Cake	07/16/2019	ND	5000	15000
					10/22/2019	ND	3300	16000 15000 4800 7500 15000 8300 4500 16000 7300 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000 15000
					Annual Mean	<5000		
					Annual Max	<5000		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	1800	4500
					04/09/2019	ND	3600	9100
					Annual Mean	<3600		
					Annual Max	<3600		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019		5300	16000
			F9/119 G.)	Dewatering	10/22/2019		2900	
				Cake	Annual Mean	<5300	2000	7000
					Annual Max	<5300		
	4,6-Dinitro-2-	EPA 8270C	μg/kg dry	Plant 1	01/22/2019		1900	8000
	methylphenol	LI A 0270C	pg/kg dry	Dewatering	04/09/2019		3000	
				Cake	07/16/2019		32000	13000 150000 14000
					10/22/2019		3300	
					Annual Mean	<32000	3300	14000
					Annual Max	<32000		
		EPA 8270C	μg/kg dry	g dry Plant 2 Cake			1000	7500
		EPA 8270C			01/22/2019 04/09/2019		1800	
							3600	15000
					Annual Mean	<3600		
		EDA 00700		DI 10	Annual Max	<3600	0.4000	40000
		EPA 8270C	µg/kg ary	Plant 2 Dewatering	07/16/2019		34000	
				Cake	10/22/2019		2900	12000
					Annual Mean	<34000		
					Annual Max	<34000		
	4-Bromophenyl phenyl ether	EPA 8270C	μg/kg dry	Plant 1 Dewatering	01/22/2019		1100	
	prierryi etrier			Cake	04/09/2019		1700	
					07/16/2019		5500	
					10/22/2019		1900	8300
					Annual Mean	<5500		
					Annual Max	<5500		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	1000	4500
					04/09/2019	ND	2000	9100
					Annual Mean	<2000		
					Annual Max	<2000		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	ND	5800	16000
			Dewatering	10/22/2019	ND	1600	7300	
				Cake	Annual Mean	<5800		
					Annual Max	<5800		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	4-Chloro-3-	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	2900	7600
	methylphenol			Dewatering	04/09/2019	ND	4500	12000
				Cake	07/16/2019	ND	4500	15000
					10/22/2019	ND	5000	13000
					Annual Mean	<5000		
					Annual Max	<5000		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	2700	7100
					04/09/2019	ND	5500	15000
					Annual Mean	<5500		
					Annual Max	<5500		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	ND	4700	16000
				Dewatering	10/22/2019	ND	4400	12000
				Cake	Annual Mean	<4700		
					Annual Max	<4700		
	4-Chloroaniline	EPA 8270C	ua/ka drv	Plant 1	01/22/2019		2900	9500
			F-9/9)	Dewatering	04/09/2019		4500	15000
				Cake	07/16/2019		3100	31000
					10/22/2019		5000	17000
					Annual Mean	<5000	0000	11000
					Annual Max	<5000		
		EPA 8270C	ua/ka dry	Plant 2 Cake	01/22/2019		2700	8900
			F9 M9 any		04/09/2019		5500	18000
					Annual Mean	<5500	0000	10000
					Annual Max	<5500		
		EPA 8270C	μg/kg dry	y Plant 2 Dewatering	07/16/2019		3300	32000
		L17(02700	pg/kg dry		10/22/2019		4400	15000
				Cake	Annual Mean	<4400	1100	10000
					Annual Max	<4400		
	4-Chlorophenyl	EPA 8270C	ua/ka dn/	Plant 1	01/22/2019		3800	9500
	phenyl ether	LI A 0270C	µg/kg diy	Dewatering	04/09/2019		6000	15000
				Cake	07/16/2019		4900	15000
					10/22/2019		6600	17000
					Annual Mean	<6600	6600	17000
						<6600		
		EDA 90700	וומ/ונמ לייי	Plant 2 Cake	Annual Max		2600	9000
		EPA 8270C	µg/kg ary	Plant 2 Cake	01/22/2019		3600	8900
					04/09/2019		7300	18000
					Annual Mean	<7300		-
		EDA 20722	//	DI 16	Annual Max	<7300	5400	40000
		EPA 8270C	µg/kg dry	Plant 2	07/16/2019		5100	16000
					10/22/2019		5800	15000
					Annual Mean	<5800		
					Annual Max	<5800		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	4-Methylphenol	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	2500 DNQ	1900	4800
				Dewatering	04/09/2019	3900 DNQ	3000	7500
				Cake	10/22/2019	ND	3300	8300
					Annual Mean	3200 DNQ		
					Annual Max	3900 DNQ		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	1800	4500
					04/09/2019	ND	3600	9100
					Annual Mean	<3600		
					Annual Max	<3600		
		EPA 8270C	μg/kg dry	Plant 2	10/22/2019	ND	2900	7300
				Dewatering	Annual Mean	<2900		
				Cake	Annual Max	<2900		
	4-Nitroaniline	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	1900	9500
				Dewatering	04/09/2019	ND	3000	15000
				Cake	07/16/2019	ND	5000	15000
					10/22/2019		3300	17000
					Annual Mean	<5000		
					Annual Max	<5000		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019		1800	8900
					04/09/2019		3600	18000
					Annual Mean	<3600		-
			C well-reading		Annual Max	<3600		
		EPA 8270C μ	C μg/kg dry	ug/kg dry Plant 2	07/16/2019		5300	16000
			15 5 7	Dewatering	10/22/2019		2900	15000
				Cake	Annual Mean	<5300		
					Annual Max	<5300		
	4-Nitrophenol	EPA 8270C	μg/kg dry	Plant 1	01/22/2019		9500	19000
			F9/119 41.)	Dewatering	04/09/2019		15000	30000
				Cake	07/16/2019		11000	31000
					10/22/2019		17000	33000
					Annual Mean	<17000	1	
					Annual Max	<17000		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019		8900	18000
			F9/119 G.7		04/09/2019		18000	36000
					Annual Mean	<18000		
					Annual Max	<18000		
		EPA 8270C	ua/ka dry	Plant 2	07/16/2019		11000	32000
		2.7.02.00	pg/ng ary	Dewatering	10/22/2019		15000	29000
				Cake	Annual Mean	<15000	10000	20000
					Annual Max	<15000		
	Acenaphthene	EPA 8270C	μg/kg dry	Plant 1	01/22/2019		2500	4800
	, tooliapililielle	217.02700	pg/kg dry	Dewatering	04/09/2019		3900	7500
				Cake	07/16/2019		4600	15000
					10/22/2019		4300	8300
					Annual Mean	<4600	4300	0300
						<4600 <4600		
					Annual Max	< 4 000		

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RI
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	2300	4500
					04/09/2019	ND	4700	9100
					Annual Mean	<4700		
					Annual Max	<4700		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	ND	4900	16000
				Dewatering	10/22/2019	ND	3800	7300
				Cake	Annual Mean	<4900		
					Annual Max	<4900		
	Acenaphthylene	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	990	4800
				Dewatering	04/09/2019	ND	1600	7500
				Cake	07/16/2019	ND	4900	15000
					10/22/2019	ND	1700	8300
					Annual Mean	<4900		
					Annual Max	<4900		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	930	4500
					04/09/2019	ND	1900	9100
					Annual Mean	<1900		
					Annual Max	<1900		
	EF	EPA 8270C	μg/kg dry	Plant 2	07/16/2019	ND	5200	16000
				Dewatering	10/22/2019	ND	1500	7300
		554 6656		Cake	Annual Mean	<5200		
					Annual Max	<5200		
	Aniline	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	2700	9500
				Dewatering	04/09/2019	ND	4200	15000
				Cake	10/22/2019	ND	4600	17000
					Annual Mean	<4600		
					Annual Max	<4600		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	2500	8900
					04/09/2019	ND	5100	18000
					Annual Mean	<5100		
					Annual Max	<5100		
		EPA 8270C	μg/kg dry	Plant 2	10/22/2019	ND	4100	15000
				Dewatering	Annual Mean	<4100		
				Cake	Annual Max	<4100		
	Anthracene	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	1100	4800
				Dewatering	04/09/2019	ND	1800	7500
				Cake	07/16/2019	ND	5100	15000
					10/22/2019	ND	2000	8300
					Annual Mean	<5100		
					Annual Max	<5100		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	1100	4500
				riaiii ∠ Cake	04/09/2019	ND	2200	9100
					Annual Mean	<2200		
				Annual Max	<2200	1		

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	ND	5300	16000
				Dewatering	10/22/2019	ND	1700	7300
				Cake	Annual Mean	<5300		
					Annual Max	<5300		
	Azobenzene/1,2-	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	990	4800
	Diphenylhydrazine			Dewatering	04/09/2019	ND	1600	7500
				Cake	10/22/2019	ND	5300 160 1700 730 990 480 1600 750 1700 830 930 450 1900 910 1500 730 1700 830 1700 830 1600 750 1700 830 1700 830 1700 830 1700 830 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700 910 1700	8300
					Annual Mean	<1700		
					Annual Max	<1700		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	930	4500
					04/09/2019	ND	1900	9100
					Annual Mean	<1900		
					Annual Max	<1900		
		EPA 8270C	μg/kg dry	Plant 2	10/22/2019	ND	1500	7300
				Dewatering	Annual Mean	<1500		
				Cake	Annual Max	<1500		
	Benz(a)anthracene	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	990	4800
				Dewatering	04/09/2019	ND	1600	7500
				Cake	07/16/2019	ND	5200	15000
					10/22/2019	ND	1700	8300
		FPA 8270C ug/kg dr			Annual Mean	<5200		
					Annual Max	<5200		
		EPA 8270C μg/kg	μg/kg dry	Plant 2 Cake	01/22/2019	ND	930	4500
					04/09/2019	ND	1900	9100
					Annual Mean	<1900		
					Annual Max	<1900		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	ND	5500	16000
				Dewatering	10/22/2019	ND	1500	7300
				Cake	Annual Mean	<5500		
					Annual Max	<5500		
	Benzidine	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	3200	25000
				Dewatering	04/09/2019	ND	5100	39000
				Cake	07/16/2019	ND	36000	92000
					10/22/2019	ND	5600	43000
					Annual Mean	<36000		
					Annual Max	<36000		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	3000	23000
					04/09/2019	ND	6200	47000
					Annual Mean	<6200		
					Annual Max	<6200		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019		38000	97000
				Dewatering	10/22/2019		4900	38000
				Cake	Annual Mean	<38000		
				Annual Max	<38000			

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Benzo(a)pyrene	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	950	4800
				Dewatering	04/09/2019	ND	1500	7500
				Cake	07/16/2019	ND	5300	15000
					10/22/2019	ND	1700	8300
					Annual Mean	<5300		
					Annual Max	<5300		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	890	4500
					04/09/2019	ND	1800	9100
					Annual Mean	<1800		
					Annual Max	<1800		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	ND	5600	16000
				Dewatering	10/22/2019	ND	1500	7300
				Cake	Annual Mean	<5600		
					Annual Max	<5600		
	Benzo(b)fluoranthe	EPA 8270C	ug/kg dry	Plant 1	01/22/2019	ND	990	4800
	ne			Dewatering	04/09/2019		1600	7500
				Cake	07/16/2019		4800	15000
					10/22/2019		1700	8300
					Annual Mean	<4800		1
					Annual Max	<4800		
		EPA 8270C	ua/ka drv		01/22/2019	ND	930	4500
					04/09/2019		1900	9100
					Annual Mean	<1900		
					Annual Max	<1900		
		EPA 8270C	ua/ka drv	Plant 2	07/16/2019		5100	16000
			[F-9/1-9 -1-7	Dewatering	10/22/2019		1500	7300
				Cake	Annual Mean	<5100		
					Annual Max	<5100		
	Benzo(g,h,i)perylen	FPA 8270C	ua/ka dry	Plant 1	01/22/2019		1600	4800
	e		F9/119 G.7	Dewatering	04/09/2019		2500	7500
				Cake	07/16/2019		5300	15000
					10/22/2019		2700	8300
					Annual Mean	<5300		0000
					Annual Max	<5300		
		EPA 8270C	ua/ka dry	Plant 2 Cake	01/22/2019		1500	4500
			r-5,5 417		04/09/2019		3000	9100
					Annual Mean	<3000		2.30
					Annual Max	<3000		-
	1	EPA 8270C	ua/ka dry	Plant 2	07/16/2019		5500	16000
		LI A 02/00	µg/kg ury	Dewatering	10/22/2019		2400	7300
				Cake	Annual Mean	<5500	2400	7 300
								1
					Annual Max	<5500		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Benzo(k)fluoranthe	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	990	4800
	ne			Dewatering	04/09/2019	ND	1600	7500
				Cake	07/16/2019	ND	5600	15000
					10/22/2019	ND	1700	8300
					Annual Mean	<5600		
					Annual Max	<5600		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	930	4500
					04/09/2019	ND	1900	9100
					Annual Mean	<1900		
					Annual Max	<1900		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	ND	5900	16000
				Dewatering	10/22/2019	ND	1500	7300
				Cake	Annual Mean	<5900		
					Annual Max	<5900		
	Benzoic acid	EPA 8270C	ua/ka drv	Plant 1	01/22/2019		6800	14000
	20.120.0 00.0		F9/119 G.)	Dewatering	04/09/2019		11000	23000
				Cake	07/16/2019		17000	61000
					10/22/2019		12000	25000
					Annual Mean	<17000	12000	20000
					Annual Max	<17000		
		EPA 8270C	ua/ka dry	Plant 2 Cake	01/22/2019		6400	13000
		EPA 8270C	pg/kg diy		04/09/2019		13000	27000
					Annual Mean	<13000	10000	27000
					Annual Max	<13000		
		EPA 8270C	ua/ka dn/	U Dlont 2	07/16/2019		18000	65000
		LI A 02100	ружу агу	Plant 2 Dewatering	10/22/2019		10000	22000
				Cake	Annual Mean	<18000	10000	22000
					Annual Max	<18000		
	Don Tul alaahal	EDA 0270C	ua/ka da	Dlant 1			7000	25000
	Benzyl alcohol	EPA 8270C	µg/kg ary	Plant 1 Dewatering	01/22/2019		7800	25000
				Cake	04/09/2019		12000	39000
					07/16/2019		4700	15000
					10/22/2019		14000	43000
					Annual Mean	<14000		
			, ,		Annual Max	<14000		
		EPA 8270C	µg/kg dry	Plant 2 Cake	01/22/2019		7300	23000
					04/09/2019		15000	47000
					Annual Mean	<15000		
					Annual Max	<15000		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019		5000	16000
			Dewatering Cake	10/22/2019		12000	38000	
				Cake	Annual Mean	<12000		
					Annual Max	<12000		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Bis(2-	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	1900	4800
	chloroethoxy)metha			Dewatering	04/09/2019	ND	3000	7500
	ne			Cake	07/16/2019	ND	4400	15000
					10/22/2019	ND	3300	8300
					Annual Mean	<4400		
					Annual Max	<4400		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	1800	4500
					04/09/2019	ND	3600	9100
					Annual Mean	<3600		
					Annual Max	<3600		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	ND	4700	16000
				Dewatering	10/22/2019	ND	2900	7300
				Cake	Annual Mean	<4700		
					Annual Max	<4700		
	Bis(2-	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	990	4800
	chloroethyl)ether			Dewatering	04/09/2019	3500 DNQ	1600	7500
				Cake	07/16/2019	ND	5300	15000
					10/22/2019		1700	8300
					Annual Mean	3400 DNQ		
		EDA 00700			Annual Max	3800 DNQ		
		EPA 8270C	ug/kg dry	Plant 2 Cake	01/22/2019	ND	930	4500
					04/09/2019		1900	9100
					Annual Mean	<1900		
					Annual Max	<1900		
		EPA 8270C	ug/kg dry	Plant 2	07/16/2019	ND	5500	16000
				Dewatering	10/22/2019		1500	7300
				Cake	Annual Mean	<5500		
					Annual Max	<5500		
	Bis(2-	EPA 8270C	ua/ka drv	Plant 1	01/22/2019		1900	4800
	chloroisopropyl)eth		15 5 7	Dewatering	04/09/2019		3000	7500
	er			Cake	07/16/2019		4700	15000
					10/22/2019		3300	8300
					Annual Mean	<4700		
					Annual Max	<4700		
		EPA 8270C	ua/ka drv	Plant 2 Cake	01/22/2019		1800	4500
			[F-9/1-9 -1-7		04/09/2019		3600	9100
					Annual Mean	<3600		1
					Annual Max	<3600		
		EPA 8270C	ua/ka drv	Plant 2	07/16/2019		4900	16000
			רט ייט אין	Dewatering	10/22/2019		2900	7300
			Cake			2000	7.000	
				P				1
				Cant	Annual Mean Annual Max	<4900 <4900		_

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Bis(2-	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	15000	1300	4800
	ethylhexyl)phthalat			Dewatering	04/09/2019	23000	2000	7500
	е			Cake	07/16/2019	42000	5500	15000
					10/22/2019	34000	2300	8300
					Annual Mean	28000		
					Annual Max	42000		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	26000	1200	4500
					04/09/2019	44000	2500	9100
					Annual Mean	35000		
					Annual Max	44000		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	41000	5800	16000
				Dewatering	10/22/2019	28000	2000	7300
				Cake	Annual Mean	34000		
					Annual Max	41000		
	Butyl benzyl	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	1100	4800
	phthalate			Dewatering	04/09/2019	ND	1800	7500
				Cake	07/16/2019	ND	5100	15000
					10/22/2019		2000	8300
					Annual Mean	<5100		
					Annual Max	<5100		
		EPA 8270C	ug/kg dry	Plant 2 Cake	01/22/2019	ND	1100	4500
					04/09/2019		2200	9100
					Annual Mean	<2200		
					Annual Max	<2200		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	ND	5400	16000
				Dewatering	10/22/2019		1700	7300
				Cake	Annual Mean	<5400		
					Annual Max	<5400		
	Chrysene	EPA 8270C	ua/ka drv	Plant 1	01/22/2019		1100	4800
	, , , ,		15 5 7	Dewatering	04/09/2019		1700	7500
				Cake	07/16/2019		5400	15000
					10/22/2019		1900	8300
					Annual Mean	<5400		11111
					Annual Max	<5400		
		EPA 8270C	ua/ka drv	Plant 2 Cake	01/22/2019		1000	4500
			3 3 3		04/09/2019		2000	9100
					Annual Mean	<2000		
					Annual Max	<2000	+	
		EPA 8270C	ua/ka drv	Plant 2	07/16/2019		5700	16000
			רט ייט אין	Dewatering	10/22/2019		1600	7300
				Cake	Annual Mean	<5700	1000	, 500
					Annual Max	<5700 <5700		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Dibenz(a,h)anthrac	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	1400	4800
	ene			Dewatering	04/09/2019	ND	2300	7500
				Cake	07/16/2019	ND	15000	15000
					10/22/2019	ND	2500	8300
					Annual Mean	<15000		
					Annual Max	<15000		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	1300	4500
					04/09/2019	ND	2700	9100
					Annual Mean	<2700		
					Annual Max	<2700		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	ND	15000	16000
				Dewatering	10/22/2019	ND	2200	7300
				Cake	Annual Mean	<15000		
					Annual Max	<15000		
	Dibenzofuran	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	2700	4800
				Dewatering	04/09/2019	ND	4200	7500
				Cake	07/16/2019	ND	5000	15000
					10/22/2019		4600	8300
					Annual Mean	<5000		
					Annual Max	<5000		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	2500	4500
					04/09/2019		5100	9100
					Annual Mean	<5100		
					Annual Max	<5100		
		EPA 8270C	ua/ka dry	Plant 2 Dewatering Cake	07/16/2019	ND	5300	16000
			13.3.7		10/22/2019		4100	7300
					Annual Mean	<5300		
					Annual Max	<5300		
	Diethyl phthalate	EPA 8270C	ua/ka drv	Plant 1	01/22/2019		1400	4800
	, . p		F-9/-1-9 7	Dewatering	04/09/2019		2100	7500
				Cake	07/16/2019		4800	15000
					10/22/2019		2400	8300
					Annual Mean	<4800		
					Annual Max	<4800		
		EPA 8270C	ua/ka drv	Plant 2 Cake	01/22/2019		1300	4500
			F9/119 G.)		04/09/2019		2600	9100
					Annual Mean	<2600		0.00
					Annual Max	<2600		1
		EPA 8270C	ua/ka dry	Plant 2	07/16/2019		5000	16000
			rg/ng dry	Dewatering	10/22/2019		2100	7300
				Cake	Annual Mean	<5000	2100	7 300
						<5000		
					Annual Max	<5000		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Dimethyl phthalate	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	950	4800
				Dewatering	04/09/2019	ND	1500	7500
				Cake	07/16/2019	ND	4700	15000
					10/22/2019	ND	1700	8300
					Annual Mean	<4700		
					Annual Max	<4700		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	890	4500
					04/09/2019	ND	1800	9100
					Annual Mean	<1800		
					Annual Max	<1800		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	ND	5000	16000
				Dewatering	10/22/2019		1500	7300
				Cake	Annual Mean	<5000		
					Annual Max	<5000		
	Di-n-butyl phthalate	EPA 8270C	ua/ka drv	Plant 1	01/22/2019		1300	4800
			J. 9. 1.9)	Dewatering	04/09/2019		2000	7500
				Cake	07/16/2019		5200	15000
					10/22/2019		2300	8300
					Annual Mean	<5200	2000	0000
					Annual Max	<5200		
		EPA 8270C	ua/ka dry	Plant 2 Cake	01/22/2019		1200	4500
			pg/kg dry	Tiant 2 Ganc	04/09/2019		2500	9100
					Annual Mean	<2500	2000	0.00
					Annual Max	<2500		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019		5500	16000
		LI A 02700	µg/kg diy	Dewatering	10/22/2019		2000	7300
				Cake	Annual Mean	<5500	2000	7000
					Annual Max	<5500 <5500		
	Di-n-octyl phthalate	EDA 8270C	ua/ka dn/	Plant 1	01/22/2019		1300	4800
	Di-II-Octyl pritrialate	LI A 0270C	µg/kg diy	Dewatering	04/09/2019		2000	7500
				Cake	07/16/2019		4900	15000
					10/22/2019		2300	8300
					Annual Mean	<4900	2300	0300
					Annual Max	<4900 <4900		
		EDA 0270C	ua/ka dak	Dlant 2 Calca			1200	4500
		EPA 8270C	µg/kg ary	Plant 2 Cake	01/22/2019		1200	4500
					04/09/2019		2500	9100
					Annual Mean	<2500		-
	Ī	EDA 63-33		DI 16	Annual Max	<2500	- 100	1000
		EPA 8270C	µg/kg dry	Plant 2	07/16/2019		5100	16000
			Dev	Dewatering Cake	10/22/2019		2000	7300
					Annual Mean	<5100		
					Annual Max	<5100		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Fluoranthene	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	3000	6300
				Dewatering	04/09/2019	ND	4800	9900
				Cake	07/16/2019	ND	5000	15000
					10/22/2019	ND	5300	11000
					Annual Mean	<5300		
					Annual Max	<5300		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	2900	5900
					04/09/2019	ND	5800	12000
					Annual Mean	<5800		
					Annual Max	<5800		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	ND	5200	16000
				Dewatering	10/22/2019	ND	4600	9600
				Cake	Annual Mean	<5200		
					Annual Max	<5200		
	Fluorene	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	990	4800
				Dewatering	04/09/2019	ND	1600	7500
				Cake	07/16/2019		5100	15000
					10/22/2019		1700	8300
					Annual Mean	<5100		1
					Annual Max	<5100		
		EPA 8270C	ua/ka drv	Plant 2 Cake	01/22/2019		930	4500
					04/09/2019		1900	9100
					Annual Mean	<1900		
					Annual Max	<1900		
		EPA 8270C	μg/kg dry	y Plant 2	07/16/2019		5300	16000
			[F-9/-1-9 -1-7	Dewatering	10/22/2019		1500	7300
				Cake	Annual Mean	<5300		
					Annual Max	<5300		
	Hexachlorobenzen	FPA 8270C	ua/ka dry	Plant 1	01/22/2019		990	4800
	е	217102700	pg/ng ary	Dewatering	04/09/2019		1600	7500
				Cake	07/16/2019		4500	15000
					10/22/2019		1700	8300
					Annual Mean	<4500	1100	0000
					Annual Max	<4500		
		EPA 8270C	ua/ka dry	Plant 2 Cake	01/22/2019		930	4500
			F9/Ng diy	. Idin 2 Odine	04/09/2019		1900	9100
					Annual Mean	<1900	1000	5 100
					Annual Max	<1900		
		EPA 8270C	ua/ka dry	Plant 2	07/16/2019		4700	16000
		LI A 02/00	µg/kg ury	Dewatering	10/22/2019		1500	7300
			Cake	Annual Mean		1500	7 300	
				P		<4700		1
					Annual Max	<4700		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Hexachlorobutadie	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	1900	4800
	ne			Dewatering	04/09/2019	ND	3000	7500
				Cake	07/16/2019	ND	6300	15000
					10/22/2019	ND	3300	8300
					Annual Mean	<6300		
					Annual Max	<6300		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	1800	4500
					04/09/2019	ND	3600	9100
					Annual Mean	<3600		
					Annual Max	<3600		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	ND	6600	16000
				Dewatering	10/22/2019	ND	2900	7300
				Cake	Annual Mean	<6600		
					Annual Max	<6600		
	Hexachlorocyclope	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	5900	14000
	ntadiene			Dewatering	04/09/2019	ND	9300	23000
				Cake	07/16/2019	ND	8700	31000
					10/22/2019		10000	25000
					Annual Mean	<10000		
		EDA 00700			Annual Max	<10000		
		EPA 8270C	ua/ka drv	kg dry Plant 2 Cake	01/22/2019	ND	5500	13000
					04/09/2019		11000	27000
					Annual Mean	<11000		
					Annual Max	<11000		
		EPA 8270C	ua/ka drv	Plant 2 Dewatering Cake	07/16/2019		9100	32000
			F-9/-1-9 7		10/22/2019		9000	22000
					Annual Mean	<9100		
					Annual Max	<9100		
	Hexachloroethane	FPA 8270C	ua/ka drv	Plant 1	01/22/2019		1300	4800
	, rendermered mane		F9/119 G.)	Dewatering	04/09/2019		2100	7500
				Cake	07/16/2019		4000	31000
					10/22/2019		2300	8300
					Annual Mean	<4000		
					Annual Max	<4000		
		EPA 8270C	ua/ka drv	Plant 2 Cake	01/22/2019		1200	4500
			F9/119 G.)		04/09/2019		2500	9100
					Annual Mean	<2500		- 100
					Annual Max	<2500		
		EPA 8270C	ua/ka dry	Plant 2	07/16/2019		4200	32000
		LI A 02/00	µg/kg ury	Dewatering	10/22/2019		2000	7300
				Cake	Annual Mean	<4200	2000	1 300
					Annual Max	<4200 <4200		
					Annual Max	<4ZUU		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Indeno(1,2,3-	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	1900	4800
	cd)pyrene			Dewatering	04/09/2019	ND	2900	7500
				Cake	07/16/2019	ND	6300	15000
					10/22/2019	ND	3300	8300
					Annual Mean	<6300		
					Annual Max	<6300		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	1700	4500
					04/09/2019	ND	3600	9100
					Annual Mean	<3600		
					Annual Max	<3600		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019		6700	16000
				Dewatering	10/22/2019		2800	7300
				Cake	Annual Mean	<6700		1.000
					Annual Max	<6700		
	Isophorone	EPA 8270C	μg/kg dry	Plant 1	01/22/2019		950	4800
	Isophorone	LI A 02700	µg/kg diy	Dewatering	04/09/2019		1500	7500
				Cake			5400	15000
							1700	8300
							1700	0300
	EPA 8270C		Diamet O Calaa			000	4500	
	EPA 8270	EPA 8270C	µg/kg ary	Plant 2 Cake			890	4500
							1800	9100
			O7/16/2019 ND					
			ua/ka dry	Plant 2				
		EPA 8270C	μg/kg dry				5700	16000
							1500	7300
				Cuite				
	Kepone ²	EPA 8270C	μg/kg dry	Plant 1	01/22/2019		14000	76000
				Dewatering Cake	04/09/2019		23000	120000
				Gano	10/22/2019	ND	25000	130000
					Annual Mean	<25000		
					Annual Max	<25000		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	13000	71000
					04/09/2019	ND	27000	150000
					Annual Mean	<27000		
					Annual Max	<27000		
		EPA 8270C	μg/kg dry	Plant 2	10/22/2019	ND	22000	120000
				Dewatering	Annual Mean	<22000		
				Cake	Annual Max	<22000		
	Naphthalene EP	EPA 8270C	μg/kg dry	Plant 1	01/22/2019		950	4800
				Dewatering	04/09/2019		1500	7500
				Cake	07/16/2019		5000	31000
					07/16/2019 ND 10/22/2019 ND		1700	8300
					Annual Mean	<5000	1	
					Annual Max	<5000		
					, unidativiax	.0000		

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	890	4500
					04/09/2019	ND	1800	9100
					Annual Mean	<1800		
					Annual Max	<1800		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	ND	5300	32000
				Dewatering	10/22/2019	ND	1500	7300
				Cake	Annual Mean	<5300		
					Annual Max	<5300		
	Nitrobenzene	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	990	4800
				Dewatering	04/09/2019	ND	1600	7500
				Cake	07/16/2019	ND	5200	15000
					10/22/2019	ND	1700	8300
					Annual Mean	<5200		
					Annual Max	<5200		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019		930	4500
			J. 9. 1.9)		04/09/2019		1900	9100
					Annual Mean	<1900	1000	
					Annual Max	<1900		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019		5500	16000
			J. 9. 1.9)	Dewatering	10/22/2019		1500	7300
				Cake	Annual Mean	<5500		1.000
					Annual Max	<5500		
	N-	EPA 8270C	C μg/kg dry		01/22/2019		990	4800
	Nitrosodimethylami		µg/kg diy	Dewatering Cake	04/09/2019		1600	7500
	ne				07/16/2019		8200	15000
					10/22/2019		1700	8300
					Annual Mean	<8200	11.00	0000
					Annual Max	<8200		
		EPA 8270C	ua/ka dry	Plant 2 Cake	01/22/2019		930	4500
		LI / (02/00	pg/kg dry	Tiditi 2 dake	04/09/2019		1900	9100
					Annual Mean	<1900	1000	0100
					Annual Max	<1900		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019		8600	16000
		2.7.02.00	pg/ng ary	Dewatering	10/22/2019		1500	7300
				Cake	Annual Mean	<8600	1000	1.000
					Annual Max	<8600		
	N-Nitroso-di-n-	EPA 8270C	μg/kg dry	Plant 1	01/22/2019		990	4800
	propylamine		רשייש מיז	Dewatering	04/09/2019		1600	7500
				Cake	07/16/2019		4400	31000
					10/22/2019		1700	8300
					Annual Mean	<4400	1700	5500
					Annual Max	<4400		-
		EPA 8270C	ua/ka dry	Plant 2 Cake	01/22/2019		930	4500
		LI / (02/ 00	µg/kg ury	I Idill 2 Oake	04/09/2019		1900	9100
					Annual Mean	<1900	1300	3100
					Annual Max	<1900		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	ND	4700	32000
				Dewatering	10/22/2019	ND	1500	7300
				Cake	Annual Mean	<4700		
					Annual Max	<4700		
	N-	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	ND	3000	9500
	Nitrosodiphenylami			Dewatering	04/09/2019	ND	4800	15000
	ne			Cake	07/16/2019	ND	4900	15000
					10/22/2019	ND	5300	32000 7300 9500 15000 17000 18000 16000
					Annual Mean	<5300		
					Annual Max	<5300		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	2900	8900
					04/09/2019	ND	5800	18000
					Annual Mean	<5800		
					Annual Max	<5800		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	ND	5200	16000
				Dewatering	10/22/2019	ND	4600	15000
				Cake	Annual Mean	<5200		
					Annual Max	<5200		
	Pentachlorophenol	EPA 8270C	μg/kg dry	Plant 1	01/22/2019		4900	9500
			F3/13 417	Dewatering	04/09/2019		7800	
				Cake	07/16/2019		30000 6	
					10/22/2019		8600	
					Annual Mean	<30000		
					Annual Max	<30000		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019		4600	8900
		217102100	µg/kg ury	y Tiant 2 Care	04/09/2019		9500	
					Annual Mean	<9500	0000	10000
					Annual Max	<9500		
		EPA 8270C	ua/ka dry	Plant 2	07/16/2019		32000	65000
		LI /(02/ 00	pg/kg dry	Dewatering	10/22/2019		7600	
				Cake	Annual Mean	<32000	7000	10000
					Annual Max	<32000		
	Phenanthrene	EPA 8270C	ua/ka dry	Plant 1	01/22/2019		2900	6300
	Thoriantinone	LITTOZIOO	pg/kg dry	Dewatering	04/09/2019		4500	
				Cake	07/16/2019		4800	
					10/22/2019		5000	
					Annual Mean	<5000	3000	11000
					Annual Max	<5000		
		EPA 8270C	ua/ka dn/	Plant 2 Cake	01/22/2019		2700	5000
		EFA 02/0C	µg/kg ury	Flatil 2 Cake				
					04/09/2019		5500	12000
					Annual Mean	<5500		
		EDA 00700	//	Diant 0	Annual Max	<5500	F400	40000
		EPA 8270C µg	µg/kg dry	Plant 2 Dewatering	07/16/2019		5100	16000
			Dewate	Dewatering Cake	10/22/2019		4400	9600
					Annual Mean	<5100		
					Annual Max	<5100		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	Phenol	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	2700 DNQ	1300	4800
				Dewatering	04/09/2019	2000 DNQ	2000	7500
				Cake	07/16/2019	27000 DNQ	4800	31000
					10/22/2019	62000	2300	8300
					Annual Mean	23000 DNQ		
					Annual Max	62000	1300 4800 2000 7500 4800 3100 2300 8300 1200 4500 2500 9100 5000 3200 2000 7300 1900 4800 3000 7500 5400 1500 3300 8300 1800 4500 3600 9100 5700 1600 2900 7300 2100 6500 3300 1000 5100 3100 3700 1100 2000 6100 4000 1200	
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	ND	1200	4500
					04/09/2019	ND	2500	9100
					Annual Mean	<2500		
					Annual Max	<2500		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	18000 DNQ	5000	32000
				Dewatering	10/22/2019	ND	2000	7300
				Cake	Annual Mean	10000 DNQ		
					Annual Max	18000 DNQ		
	Pyrene	EPA 8270C	ug/kg dry	Plant 1	01/22/2019	ND	1900	4800
				Dewatering	04/09/2019			7500
				Cake	07/16/2019			15000
					10/22/2019			8300
					Annual Mean	<5400		
		EDA 02700			Annual Max	<5400		
		EPA 8270C μ	μg/kg dry	Plant 2 Cake	01/22/2019		1800	4500
			J. 9. 1.9)		04/09/2019			9100
					Annual Mean	<3600		
					Annual Max	<3600		
		EPA 8270C	μg/kg dry	Plant 2 Dewatering	07/16/2019		5700	16000
			J. 9. 1.9)		10/22/2019			
				Cake	Annual Mean	<5700	1	
					Annual Max	<5700		
	Pyridine	EPA 8270C	ua/ka dry	Plant 1	01/22/2019		2100	6500
	, yriairio	2.7.02.00	pg/itg di y	Dewatering	04/09/2019			
				Cake	07/16/2019			
					10/22/2019			11000
					Annual Mean	<5100	0.00	11000
					Annual Max	<5100		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019		2000	6100
		217(02700	pg/kg dry	I Idili 2 Gallo	04/09/2019			
					Annual Mean	<4000	1000	12000
					Annual Max	<4000		
		EPA 8270C	ua/ka dry	Plant 2	07/16/2019		5300	32000
		LI A 02/00	µg/kg ury		10/22/2019		3200	9900
			Dewatering Cake	Annual Mean		3200	9900	
						<5300		
					Annual Max	<5300		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
Organochlorin	Aldrin	EPA 8081A	μg/kg dry	Plant 1	01/22/2019	ND	1200	8200
e Pesticides				Dewatering	04/09/2019	ND	420	2900
				Cake	07/16/2019	ND	410	2800
					10/15/2019	ND	200	1300
					12/03/2019	ND	110	350
			Location 8081A μg/kg dry Plant 1 Dewatering Cake 8081A μg/kg dry Plant 2 Dewatering 	Annual Mean	<1200			
					Annual Max	<1200		
		EPA 8081A	μg/kg dry	Plant 2 Cake	01/22/2019	ND	1200 8200 420 2900 410 2800 200 1300 110 350 110 750 480 3200 410 2800 180 1200 100 330 110 350 110 350 110 350 110 350 110 350 110 350 110 350 110 350 110 350 110 350 110 350 110 350 110 350 110 350 110 350 110 350 110 350	750
					04/09/2019	ND	480	3200
					Annual Mean	<480		
					Annual Max	<480		
		EPA 8081A	μg/kg dry	Plant 2	07/16/2019	ND	410	2800
					10/15/2019	ND	180	1200
				Саке	12/03/2019	ND	100	330
					Annual Mean	<410		
					Annual Max	<410		
	alpha-BHC	EPA 8081A	μg/kg dry		01/22/2019	ND	1000	8200
					04/09/2019	ND	360	2900
				Cake	07/16/2019	ND	350	2800
					10/15/2019	ND	170	1300
					12/03/2019	ND	110	350
					Annual Mean	<1000		
			A μg/kg dry		Annual Max	<1000		
		EPA 8081A	Cake Annu Annu Annu Annu Annu Annu Annu An	01/22/2019	ND	95	750	
					04/09/2019	ND	410	3200
					Annual Mean	<410		
					Annual Max	<410		
		EPA 8081A	μg/kg dry	Plant 2	07/16/2019	ND	350	2800
					10/15/2019	ND	150	1200
				Cake	12/03/2019	ND	100	330
					Annual Mean	<350		
					Annual Max	<350		
	beta-BHC	EPA 8081A	μg/kg dry	Plant 1	01/22/2019	ND	3200	8200
					04/09/2019	ND	470	2900
				Cake	07/16/2019	1400 DNQ	1100	2800
					10/15/2019	ND	520	1300
					12/03/2019	ND	110	350
					Annual Mean	1100 DNQ		
					Annual Max	1400 DNQ		
		EPA 8081A	μg/kg dry	Plant 2 Cake	01/22/2019	ND	290	750
					04/09/2019		530	3200
					Annual Mean	<530		
					Annual Max	<530	+	

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8081A	μg/kg dry	Plant 2	07/16/2019	2600 DNQ	1100	2800
				Dewatering	10/15/2019	ND	470	1200
				Cake	12/03/2019	ND	100	330
					Annual Mean	1100 DNQ		330 330 330 330 330 330 300 300 41000 3500 3500 3500 3500 3500 3500 3500
					Annual Max	2600 DNQ		
	Chlordane ²	EPA 8081A	μg/kg dry	Plant 1	01/22/2019	ND	38000	12000
				Dewatering	04/09/2019	ND	13000	42000
				Cake	07/16/2019	ND	13000	41000
					10/15/2019	ND	6100	19000
					12/03/2019	ND	1100	3500
					Annual Mean	<38000		
					Annual Max	<38000		
		EPA 8081A	μg/kg dry	Plant 2 Cake	01/22/2019	ND	3400	11000
					04/09/2019	ND	15000	48000
					Annual Mean	<15000		
					Annual Max	<15000		
		EPA 8081A	μg/kg dry	Plant 2	07/16/2019	ND	13000	40000
				Dewatering	10/15/2019	ND	5500	18000
				Cake	12/03/2019	ND	1000	3300
					Annual Mean	<13000		
		EDA 8081A I			Annual Max	<13000		
	delta-BHC	EPA 8081A	μg/kg dry	Plant 1	01/22/2019		1900	8200
				Dewatering	04/09/2019	ND	680	2900
				Cake	07/16/2019		660	2800
					10/15/2019		310	
					12/03/2019		110	
					Annual Mean	<1900		
					Annual Max	<1900		
		EPA 8081A	ua/ka drv	Plant 2 Cake	01/22/2019		180	750
			J. 9. 1.9)		04/09/2019		770	
					Annual Mean	<770	1	
					Annual Max	<770		
		EPA 8081A	ua/ka drv	Plant 2	07/16/2019		650	2800
			F9/119 4.1	Dewatering	10/15/2019		280	
				Cake	12/03/2019		100	
					Annual Mean	<650		0.0
					Annual Max	<650		
	Dieldrin	EPA 8081A	ua/ka dry	Plant 1	01/22/2019		1000	8200
	2.0.0		רטייט אין	Dewatering	04/09/2019		350	2900
				Cake	07/16/2019		340	2800
					10/15/2019		160	1300
					12/03/2019		110	350
					Annual Mean	<1000	1.10	330
					Annual Max	<1000	-	
					Allilual Max	< 1000		

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RI
		EPA 8081A	μg/kg dry	Plant 2 Cake	01/22/2019	ND	93	750
					04/09/2019	ND	400	3200
					Annual Mean	<400		
					Annual Max	<400		
		EPA 8081A	μg/kg dry	Plant 2	07/16/2019	ND	340	2800
				Dewatering	10/15/2019	ND	150	1200
				Cake	12/03/2019	ND	100	330
					Annual Mean	<340		
					Annual Max	<340		
	Endosulfan 1	EPA 8081A	μg/kg dry	Plant 1	01/22/2019	ND	850	8200
				Dewatering	04/09/2019	ND	300	2900
				Cake	07/16/2019	ND	290	2800
					10/15/2019	ND	140	1300
					12/03/2019	ND	110	350
					Annual Mean	<850		
					Annual Max	<850		
		EPA 8081A	μg/kg dry	Plant 2 Cake	01/22/2019	ND	78	750
					04/09/2019	ND	340	3200
		EPA 8081A μ			Annual Mean	<340		
					Annual Max	<340		
			μg/kg dry	Dewatering	07/16/2019	ND	280	2800
					10/15/2019	ND	120	1200
				Cake	12/03/2019		100	330
					Annual Mean	<280		
					Annual Max	<280		
	Endosulfan 2 ³	EPA 8081A	μg/kg dry	Plant 1	01/22/2019		1400	8200
	Ziidoodiidii Z			Dewatering	04/09/2019	ND	480	2900
				Cake	07/16/2019		470	2800
					10/15/2019		220	1300
					12/03/2019		110	350
					Annual Mean	1300 DNQ		
					Annual Max	4400		
		EPA 8081A	µg/kg dry	Plant 2 Cake	01/22/2019		130	750
					04/09/2019		550	3200
					Annual Mean	<550		0200
		EPA 8081A µg			Annual Max	<550		+
			ug/ka drv	Plant 2	07/16/2019		460	2800
			rg/ng diy	Dewatering	10/15/2019		200	1200
				Cake	12/03/2019		100	330
					Annual Mean	<460	100	330
				Annual Max	<460			
					Allilual Max	\ 4 00		

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RI
	Endosulfan Sulfate	EPA 8081A	μg/kg dry	Plant 1	01/22/2019	ND	1300	8200
				Dewatering	04/09/2019	ND	470	2900
				Cake	07/16/2019	ND	450	2800
					10/15/2019	ND	210	1300
					12/03/2019	ND	140	710
					Annual Mean	<1300		
					Annual Max	<1300		
		EPA 8081A	μg/kg dry	Plant 2 Cake	01/22/2019	ND	120	750
					04/09/2019	ND	530	3200
					Annual Mean	<530		
					Annual Max	<530		
		EPA 8081A	μg/kg dry	Plant 2	07/16/2019	ND	450	2800
				Dewatering	10/15/2019	ND	190	1200
				Cake	12/03/2019	ND	130	670
					Annual Mean	<450		
					Annual Max	<450		
	Endrin ²	EPA 8081A	μg/kg dry	Plant 1	01/22/2019	ND	1500	8200
				Dewatering	04/09/2019	ND	520	2900
				Cake	07/16/2019	ND	500	2800
					10/15/2019	ND	240	1300
					12/03/2019	ND	110	350
					Annual Mean	<1500		
					Annual Max	<1500		
		EPA 8081A	μg/kg dry	Plant 2 Cake	01/22/2019	ND	140	750
					04/09/2019	ND	580	3200
					Annual Mean	<580		
					Annual Max	<580		
		EPA 8081A	μg/kg dry	Plant 2	07/16/2019	ND	500	2800
				Dewatering	10/15/2019	ND	210	1200
				Cake	12/03/2019		100	330
					Annual Mean	<500		
					Annual Max	<500		
	Endrin Aldehyde	EPA 8081A	μg/kg dry	Plant 1	01/22/2019	ND	830	8200
	•			Dewatering	04/09/2019	ND	290	2900
				Cake	07/16/2019		280	2800
					10/15/2019		130	1300
					12/03/2019		110	350
					Annual Mean	<830	-	-
					Annual Max	<830		
		EPA 8081A	ua/ka drv	Plant 2 Cake	01/22/2019		76	750
					04/09/2019		330	3200
					Annual Mean	<330		
					Annual Max	<330		

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RI
		EPA 8081A	μg/kg dry	Plant 2	07/16/2019	ND	280	2800
				Dewatering Cake	10/15/2019	ND	120	1200
				Cake	12/03/2019	ND	100	330
					Annual Mean	<280		
					Annual Max	<280		
	Endrin Ketone	EPA 8081A	μg/kg dry	Plant 1	01/22/2019	ND	2400	8200
				Dewatering Cake	04/09/2019	ND	820	2900
				Cake	07/16/2019	ND	330	2800
					10/15/2019	ND	160	1300
					12/03/2019	ND	140	350
					Annual Mean	<2400		
					Annual Max	<2400		
		EPA 8081A	μg/kg dry	Plant 2 Cake	01/22/2019	ND	220	750
					04/09/2019	ND	930	3200
					Annual Mean	<930		
					Annual Max	<930		
		EPA 8081A	μg/kg dry	Plant 2	07/16/2019	ND	330	2800
				Dewatering Cake	10/15/2019	ND	140	1200
				Cake	12/03/2019	ND	130	330
					Annual Mean	<330		
					Annual Max	<330		
	gamma-BHC	EPA 8081A	μg/kg dry	Plant 1	01/22/2019	ND	2200	8200
				Dewatering Cake	04/09/2019	ND	780	2900
				Cake	07/16/2019	ND	320	2800
					10/15/2019	ND	150	1300
					12/03/2019	ND	110	350
					Annual Mean	<2200		
					Annual Max	<2200		
		EPA 8081A	μg/kg dry	Plant 2 Cake	01/22/2019	ND	210	750
					04/09/2019	ND	890	3200
					Annual Mean	<890		
					Annual Max	<890		
		EPA 8081A	μg/kg dry	Plant 2	07/16/2019	ND	320	2800
				Dewatering	10/15/2019	ND	140	1200
				Cake	12/03/2019	ND	100	330
					Annual Mean	<320		
					Annual Max	<320	1	
	Heptachlor	EPA 8081A	μg/kg dry	Plant 1	01/22/2019	ND	1000	8200
				Dewatering	04/09/2019	ND	360	2900
				Cake	07/16/2019	ND	350	2800
					10/15/2019	ND	170	1300
				12/03/2019	ND	140	350	
					Annual Mean	<1000		
					Annual Max	<1000		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8081A	μg/kg dry	Plant 2 Cake	01/22/2019	ND	95	750
					04/09/2019	ND	410	3200
					Annual Mean	<410		
					Annual Max	<410		
		EPA 8081A	μg/kg dry	Plant 2	07/16/2019	ND	350	2800
				Dewatering	10/15/2019	ND	150	1200
				Cake	12/03/2019	ND	130	330
					Annual Mean	<350		
					Annual Max	<350		
	Heptachlor Epoxide	EPA 8081A	μg/kg dry	Plant 1	01/22/2019	ND	2100	8200
				Dewatering	04/09/2019	ND	720	2900
				Cake	07/16/2019	ND	700	2800
					10/15/2019	ND	330	1300
					12/03/2019		140	350
					Annual Mean	<2100		
					Annual Max	<2100		
		EPA 8081A	μg/kg dry	Plant 2 Cake	01/22/2019		190	750
		217(0001)(pg/itg dry	riant 2 dano	04/09/2019		810	3200
					Annual Mean	<810	0.10	0200
					Annual Max	<810		
		EPA 8081A	μg/kg dry	Plant 2	07/16/2019		690	2800
		LIAGOOTA	µg/kg ury	Dewatering	10/15/2019		300	1200
				Cake	12/03/2019		130	330
					Annual Mean	<690	130	330
					Annual Max	<690 <690		
	2	EPA 8081A	ua/ka da	Plant 1			120000	260000
	Kepone ²	EPA 6061A	μg/kg dry	Dewatering	01/22/2019			360000
				Cake	04/09/2019		42000	130000
					07/16/2019		41000	120000
					10/15/2019		19000	58000
					Annual Mean	<120000		
					Annual Max	<120000		
		EPA 8081A	μg/kg dry	Plant 2 Cake	01/22/2019		11000	33000
					04/09/2019		48000	140000
					Annual Mean	<48000		
					Annual Max	<48000		
		EPA 8081A	μg/kg dry	Plant 2	07/16/2019		40000	120000
				Dewatering Cake	10/15/2019		18000	53000
				Gaile	Annual Mean	<40000		
					Annual Max	<40000		
	Methoxychlor	EPA 8081A	μg/kg dry	Plant 1	01/22/2019	ND	2200	16000
				Dewatering Cake	04/09/2019	ND	760	5600
				Cake	07/16/2019	ND	740	5400
					10/15/2019	ND	350	2600
					12/03/2019	ND	110	350
					Annual Mean	<2200		
					Annual Max	<2200		-

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RI
		EPA 8081A	μg/kg dry	Plant 2 Cake	01/22/2019	ND	200	1500
					04/09/2019	ND	860	6300
					Annual Mean	<860		
					Annual Max	<860		
		EPA 8081A	μg/kg dry	Plant 2	07/16/2019	ND	730	5300
				Dewatering	10/15/2019		320	2300
				Cake	12/03/2019		100	330
					Annual Mean	<730		
					Annual Max	<730		
	Mirex ²	EPA 8081A	μg/kg dry	Plant 1	01/22/2019		1300	8200
	WIII GX		3 3 7	Dewatering	04/09/2019		450	2900
				Cake	07/16/2019		440	2800
					10/15/2019		210	1300
					Annual Mean	<1300	2.0	1000
					Annual Max	<1300		+
		EPA 8081A	μg/kg dry	Plant 2 Cake	01/22/2019		120	750
		L1 7(000 17(pg/kg dry	Tiant 2 dake	04/09/2019		510	3200
					Annual Mean	<510	310	3200
					Annual Max	<510		-
		EPA 8081A	μg/kg dry	Plant 2	07/16/2019		430	2800
	EPA 8	EFA 6061A	µg/kg dry	Dewatering Cake	10/15/2019		190	1200
					Annual Mean	<430	190	1200
					Annual Max	<430		
		EPA 8081A	ua/ka da	ug/kg dry Plant 1			870	8200
	o,p'-DDD ²	EPA 6061A	µg/kg ary	Dewatering	01/22/2019			2900
				Cake	07/16/2019		300 590	2800
					10/15/2019		280	1300
					12/03/2019		110	350
						<870		
		EDA 00011	//	DI 1001	Annual Max	<870	20	
		EPA 8081A	µg/kg dry	Plant 2 Cake	01/22/2019		80	750
					04/09/2019		340	3200
					Annual Mean	<340		-
		EDA 2224	4	DI 16	Annual Max	<340	500	0000
		EPA 8081A	μg/kg dry	Plant 2 Dewatering	07/16/2019		580	2800
				Cake	10/15/2019		250	1200
					12/03/2019		100	330
					Annual Mean	<580		
	o,p'-DDE ² EPA 808				Annual Max	<580		
		EPA 8081A	μg/kg dry	Plant 1 Dewatering	01/22/2019		1600	8200
				Cake	04/09/2019		550	2900
					07/16/2019		1100	2800
					10/15/2019		510	1300
					12/03/2019		110	350
					Annual Mean	<1600		
					Annual Max	<1600		

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	R
		EPA 8081A	μg/kg dry	Plant 2 Cake	01/22/2019	ND	140	750
					04/09/2019	ND	620	3200
					Annual Mean	<620		
					Annual Max	<620		
		EPA 8081A	μg/kg dry	Plant 2	07/16/2019	ND	1100	2800
				Dewatering	10/15/2019	ND	460	1200
				Cake	12/03/2019	ND	100	330
					Annual Mean	<1100		
					Annual Max	<1100		
	o,p'-DDT ²	EPA 8081A	μg/kg dry	Plant 1	01/22/2019	ND	1300	8200
	7			Dewatering	04/09/2019	ND	450	2900
				Cake	07/16/2019	ND	870	2800
					10/15/2019	ND	410	1300
					12/03/2019	ND	110	350
					Annual Mean	<1300		
					Annual Max	<1300		
		EPA 8081A	μg/kg dry	Plant 2 Cake	01/22/2019	ND	120	750
					04/09/2019	ND	510	3200
					Annual Mean	<510		
					Annual Max	<510		
		EPA 8081A	μg/kg dry		07/16/2019	ND	860	2800
				Dewatering	10/15/2019	ND	370	1200
				Cake	12/03/2019	ND	100	330
					Annual Mean	<860		
					Annual Max	<860		
	p,p'-DDD ²	EPA 8081A	μg/kg dry	Plant 1	01/22/2019		2600	8200
	p,p 222			Dewatering	04/09/2019	ND	920	2900
				Cake	07/16/2019	ND	890	2800
					10/15/2019	ND	420	1300
					12/03/2019		110	350
					Annual Mean	<2600		
					Annual Max	<2600		
		EPA 8081A	μg/kg dry	Plant 2 Cake	01/22/2019		240	750
					04/09/2019	ND	1000	3200
					Annual Mean	<1000		
					Annual Max	<1000		
		EPA 8081A	µg/kg dry	Plant 2	07/16/2019		880	2800
			. 5 5,	Dewatering	10/15/2019		380	1200
				Cake	12/03/2019		100	330
					Annual Mean	<880		
					Annual Max	<880		

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	p,p'-DDE ²	EPA 8081A	μg/kg dry	Plant 1	01/22/2019	ND	1100	8200
				Dewatering	04/09/2019	ND	400	2900
				Cake	07/16/2019	ND	390	2800
					10/15/2019	ND	190	1300
					12/03/2019	ND	110	350
					Annual Mean	<1100		_
					Annual Max	<1100		+
		EPA 8081A	μg/kg dry	Plant 2 Cake	01/22/2019	ND	110	750
					04/09/2019	ND	450	3200
					Annual Mean	<450		+
					Annual Max	<450		+
		EPA 8081A	μg/kg dry	Plant 2	07/16/2019		390	2800
			F9/119 41.)	Dewatering	10/15/2019		170	1200
				Cake	12/03/2019		100	330
					Annual Mean	<390	100	
					Annual Max	<390		+
	p,p'-DDT ²	EPA 8081A	μg/kg dry	Plant 1	01/22/2019		2800	8200
	ו טט- p,p	LI A 0001A	ружу агу	Dewatering	04/09/2019		990	2900
				Cake	07/16/2019		960	2800
					10/15/2019		460	1300
					12/03/2019		110	350
				Annual Mean	<2800	110	350	
					Annual Max	<2800		-
		EDA 0004A	μg/kg dry	/kg dry Plant 2 Cake			200	750
		EPA 8081A	µg/кд агу	Plant 2 Cake	01/22/2019		260	
					04/09/2019 Annual Mean		1100	3200
						<1100		
		EDA 0004A	/1 1	DI 10	Annual Max	<1100	000	0000
		EPA 8081A	µg/kg ary	Plant 2 Dewatering	07/16/2019		960	2800
				Cake	10/15/2019		410	1200
					12/03/2019		100	330
					Annual Mean	<960		
					Annual Max	<960		
	Total DDTs ²	EPA 8081A	μg/kg dry	Plant 1 Dewatering	01/22/2019			
				Cake	04/09/2019			
					07/16/2019			
					10/15/2019			
					12/03/2019			
					Annual Mean	0.0		
					Annual Max	0.0		
		EPA 8081A	μg/kg dry	Plant 2 Cake	01/22/2019			
					04/09/2019	0.0		
					Annual Mean	0.0		
					Annual Max	0.0		
		EPA 8081A	μg/kg dry	Plant 2	07/16/2019	0.0		
				Dewatering	10/15/2019	0.0		
				Cake	12/03/2019	0.0		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
					Annual Mean	0.0		
					Annual Max	0.0		
	Toxaphene ² PCB 1016 PCB 1221	EPA 8081A μ EPA 8081A μ EPA 8082 μ EPA 8082 μ	μg/kg dry	Plant 1	01/22/2019	ND	76000	320000
				Dewatering	04/09/2019	ND	27000	110000
				Cake	07/16/2019	ND	26000	110000
					10/15/2019	ND	12000	52000
					12/03/2019	ND	3500	14000
					Annual Mean	<76000		
					Annual Max	<76000		
		EPA 8081A	μg/kg dry	Plant 2 Cake	01/22/2019	ND	7000	30000
					04/09/2019	ND	30000	130000
					Annual Mean	<30000		
					Annual Max	<30000		
		EPA 8081A	μg/kg dry	Plant 2	07/16/2019	ND	26000	110000
				Dewatering	10/15/2019	ND	11000	47000
				Cake	12/03/2019	ND	3300	13000
					Annual Mean	<26000		+
					Annual Max	<26000		+
CBs	PCB 1016	EPA 8082	μg/kg dry	Plant 1	01/22/2019	ND	1600	4800
				Dewatering	04/09/2019	ND	140	430
				Cake	07/16/2019		97	200
					10/15/2019		900	1900
					Annual Mean	<1600		+
					Annual Max	<1600		+
		EPA 8082	μg/kg dry	Plant 2 Cake	01/22/2019		75	220
			Jan 19)		04/09/2019		160	480
					Annual Mean	<160		1.00
					Annual Max	<160		
		FPA 8082	μg/kg dry	Plant 2	07/16/2019		480	1000
			mg/.1.g w.)	Dewatering	10/15/2019		830	1700
				Cake	Annual Mean	<830		
					Annual Max	<830		-
	PCB 1221	FPA 8082	μg/kg dry	Plant 1	01/22/2019		1600	4800
	. 02 .22.		mg/.1.g w.)	Dewatering	04/09/2019		140	430
				Cake	07/16/2019		120	200
					10/15/2019		1100	1900
					Annual Mean	<1600	1100	1.000
					Annual Max	<1600		-
		EPA 8082	μg/kg dry	Plant 2 Cake	01/22/2019		75	220
			rg/ng dry	. Idin 2 Odino	04/09/2019		160	480
					Annual Mean	<160	100	130
					Annual Max	<160		+
		EPA 8082	μg/kg dry	Plant 2	07/16/2019		580	1000
		EFA 0002	µg/kg diy	Dewatering	10/15/2019			1700
				Cake	Annual Mean		1000	1700
						<1000		-
					Annual Max	<1000		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	PCB 1232	EPA 8082	μg/kg dry	Plant 1	01/22/2019	ND	1600	4800
				Dewatering	04/09/2019	ND	140	430
				Cake	07/16/2019	ND	130	200
					10/15/2019	ND	1200	1900
					Annual Mean	<1600		
					Annual Max	<1600		
		EPA 8082	μg/kg dry	Plant 2 Cake	01/22/2019	ND	75	220
					04/09/2019	ND	160	480
					Annual Mean	<160		
					Annual Max	<160		
		EPA 8082	μg/kg dry	Plant 2	07/16/2019	ND	640	1000
				Dewatering	10/15/2019	ND	1100	1700
				Cake	Annual Mean	<1100		
					Annual Max	<1100		
	PCB 1242	EPA 8082	μg/kg dry	Plant 1	01/22/2019	ND	1600	4800
			13 3 7	Dewatering	04/09/2019		140	430
				Cake	07/16/2019		62	200
					10/15/2019		580	1900
					Annual Mean	<1600		
					Annual Max	<1600		
		EPA 8082	μg/kg dry	Plant 2 Cake	01/22/2019		75	220
			F9/119 W.)		04/09/2019		160	480
					Annual Mean	<160	1.00	
					Annual Max	<160		
		EPA 8082	μg/kg dry	Plant 2	07/16/2019		310	1000
		2.7.0002	pg/ng ary	Dewatering	10/15/2019		530	1700
				Cake	Annual Mean	<530	000	1100
					Annual Max	<530		
	PCB 1248	EPA 8082	ua/ka dry	Plant 1	01/22/2019		1600	4800
	1 05 12 10	217(0002	pg/kg dry	Dewatering	04/09/2019		140	430
				Cake	07/16/2019		65	200
					10/15/2019		600	1900
					Annual Mean	<1600	000	1300
					Annual Max	<1600		
		EPA 8082	μg/kg dry	Plant 2 Cake	01/22/2019		75	220
		LI A 000Z	µg/ng uly	I Idill 2 Cake	04/09/2019		160	480
					Annual Mean	<160	100	400
					Annual Max	<160		
		EDA 9090	וומ/גמ להי	Plant 2			220	1000
		EPA 8082	μg/kg dry	Dewatering	07/16/2019		320	
				Cake	10/15/2019		550	1700
					Annual Mean	<550		
					Annual Max	<550		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
	PCB 1254	EPA 8082	μg/kg dry	Plant 1	01/22/2019	ND	1600	4800
				Dewatering	04/09/2019	ND	140	430
				Cake	07/16/2019	ND	63	200
					10/15/2019	ND	580	1900
					Annual Mean	<1600		
					Annual Max	<1600		
		EPA 8082	μg/kg dry	Plant 2 Cake	01/22/2019	ND	75	220
					04/09/2019	ND	160	480
					Annual Mean	<160		
					Annual Max	<160		
		EPA 8082	μg/kg dry	Plant 2	07/16/2019	ND	310	1000
				Dewatering	10/15/2019	ND	530	1700
				Cake	Annual Mean	<530		
					Annual Max	<530		
	PCB 1260	EPA 8082	μg/kg dry	Plant 1	01/22/2019		1600	4800
	. 52 .255		F9/119 W.)	Dewatering	04/09/2019		140	430
				Cake	07/16/2019		63	200
					10/15/2019		580	1900
					Annual Mean	<1600	300	1300
					Annual Max	<1600		
		EPA 8082	ua/ka day	Plant 2 Cake	01/22/2019		75	220
		EPA 6062	μg/kg dry	Platit 2 Cake	04/09/2019		160	480
					Annual Mean	<160	100	400
		EDA 0000		Plant 2	Annual Max	<160	040	4000
		EPA 8082	μg/kg dry	Dewatering	07/16/2019		310	1000
				Cake	10/15/2019		530	1700
					Annual Mean	<530		
					Annual Max	<530		
	PCB_HR_DM	EPA 8082	μg/kg dry	Plant 1 Dewatering	01/22/2019		1600	4800
				Cake	04/09/2019		140	430
					Annual Mean	<1600		
					Annual Max	<1600		
		EPA 8082	μg/kg dry	Plant 2 Cake	01/22/2019		75	220
					04/09/2019		160	480
					Annual Mean	<160		
					Annual Max	<160		
	Total PCBs	EPA 8082	μg/kg dry	Plant 1	01/22/2019	0		
				Dewatering Cake	04/09/2019	0		
				Jake	07/16/2019	0		
					10/15/2019	0		
					Annual Mean	0		
					Annual Max	0		
		EPA 8082	μg/kg dry	Plant 2 Cake	01/22/2019	0		
					04/09/2019	0		
					Annual Mean	0		
					Annual Max	0		_

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8082	μg/kg dry	Plant 2	07/16/2019	0		
				Dewatering	10/15/2019	0		
				Cake	Annual Mean	0		
					Annual Max	0		
erbicides	2,4,5-T	EPA 8151A	μg/kg dry	Plant 1	04/09/2019	ND	49	180
				Dewatering	Annual Mean	<49		
				Cake	Annual Max	<49		
		EPA 8151A	μg/kg dry	Plant 2 Cake	04/09/2019	ND	11	39
					Annual Mean	<11		
					Annual Max	<11		
	2,4,5-TP (Silvex)	EPA 8151A	μg/kg dry	Plant 1	01/22/2019	ND	7.6	40
	, ,			Dewatering	04/09/2019		34	180
				Cake	07/16/2019		780	
					Annual Mean	<780		1
					Annual Max	<780		
		EPA 8151A	ua/ka drv	Plant 2 Cake	01/22/2019		710	3700
		217(01017(pg/itg di y	riam 2 Gano	04/09/2019		7.5	
					Annual Mean	<710	7.0	
					Annual Max	<710		
		EPA 8151A	ua/ka dry	Plant 2	07/16/2019		670	1340
		217(01017(pg/kg dry	Dewatering	Annual Mean	<670	010	1040
2				Cake	Annual Max	<670		
	2 /LD	EDΔ 8151Δ	μg/kg dry	Plant 1	01/22/2019		24	40
	2,4-D EP	LIAGISIA	pg/kg dry	Dewatering Cake	04/09/2019		110	
					07/16/2019		100000	
					Annual Mean	<100000	100000	20900
		EDA 0454A			Annual Max	<100000	0000	0700
		EPA 8151A	µg/kg ary	Plant 2 Cake	01/22/2019		2200	
					04/09/2019		23	39
					Annual Mean	<2200		
					Annual Max	<2200		
		EPA 8151A	μg/kg dry	Plant 2 Dewatering	07/16/2019		8900	17800
				Cake	Annual Mean	<8900		
					Annual Max	<8900		
	4-Nitrophenol	EPA 8151A	µg/kg dry	Plant 1	04/09/2019		66	710
				Dewatering Cake	Annual Mean	<66		
					Annual Max	<66		
		EPA 8151A	μg/kg dry	Plant 2 Cake	04/09/2019		14	150
					Annual Mean	<14		
					Annual Max	<14		
	Dalapon	EPA 8151A	μg/kg dry	Plant 1	04/09/2019	ND	62	2100
				Dewatering Cake	Annual Mean	<62		
				Jake	Annual Max	<62		
		EPA 8151A	μg/kg dry	Plant 2 Cake	04/09/2019	ND	14	470
					Annual Mean	<14		
					Annual Max	<14		

tegory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RI
	Dicamba	EPA 8151A	μg/kg dry	Plant 1	04/09/2019	ND	41	180
				Dewatering	Annual Mean	<41		
				Cake	Annual Max	<41		
		EPA 8151A	μg/kg dry	Plant 2 Cake	04/09/2019	ND	8.9	39
					Annual Mean	<8.9		
					Annual Max	<8.9		
	Dichlorprop (2,4-	EPA 8151A	μg/kg dry	Plant 1	04/09/2019	310	24	180
	DP)			Dewatering	Annual Mean	310		
				Cake	Annual Max	310		
		EPA 8151A	μg/kg dry	Plant 2 Cake	04/09/2019	ND	5.1	39
					Annual Mean	<5.1		
					Annual Max	<5.1		
	Dinoseb (DNBP)	EPA 8151A	μg/kg dry	Plant 1	04/09/2019	ND	99	1100
				Dewatering	Annual Mean	<99		
				Cake	Annual Max	<99		
		EPA 8151A	μg/kg dry	Plant 2 Cake	04/09/2019	ND	22	230
					Annual Mean	<22		
					Annual Max	<22		
	MCPA	EPA 8151A	μg/kg dry	Plant 1	04/09/2019	ND	4100	43000
				Dewatering	Annual Mean	<4100		
				Cake	Annual Max	<4100		
		EPA 8151A	μg/kg dry	kg dry Plant 2 Cake	04/09/2019		890	9400
					Annual Mean	<890		
					Annual Max	<890		
	MCPP	EPA 8151A	ua/ka drv	Plant 1	04/09/2019		3600	43000
			J. 9. 1.9)	Dewatering	Annual Mean	<3600		
				Cake	Annual Max	<3600		
		EPA 8151A	ua/ka dry	Plant 2 Cake	04/09/2019		790	9400
		2171010171	pg/itg di y	riant 2 dans	Annual Mean	<790		0.00
					Annual Max	<790		
	Pentachlorophenol	FPA 8151A	ua/ka dry	Plant 1	01/22/2019		2.0	40
	r ornaornoropriorior	2171010171	pg/itg di y	Dewatering	04/09/2019		9.0	180
				Cake	07/16/2019		1000	2090
					Annual Mean	<1000	1000	2000
					Annual Max	<1000		
		EPA 8151A	ua/ka dry	Plant 2 Cake	01/22/2019		190	3700
		LITTOIOIT	pg/kg dry	I Idili 2 Odko	04/09/2019		2.0	39
					Annual Mean	<190	2.0	00
					Annual Max	<190		
		EPA 8151A	ua/ka dry	Plant 2	07/16/2019		890	1780
		LIAGISTA	µg/kg ury	Dewatering	Annual Mean	<890	030	1700
				Cake	Annual Max	<890 <890		
	Picloram	EPA 8151A	ua/ka day	Plant 1	04/09/2019		39	180
	ricioralli	EFAOISIA	µg/kg diy	Dewatering	Annual Mean		39	100
				Cake		<39		
					Annual Max	<39		

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8151A	μg/kg dry	Plant 2 Cake	04/09/2019	ND	8.4	39
					Annual Mean	<8.4		
					Annual Max	<8.4		
ioxins/Furans	2,3,7,8-TCDD	EPA 1613B	pg/g dry	Plant 1	01/22/2019	4.2 DNQ	1.2	48
				Dewatering	04/09/2019	ND	2.3	21
				Cake	07/16/2019	ND	2.1	21
					10/15/2019	ND	0.87	7.8
					Annual Mean	2.4 DNQ		
					Annual Max	4.2 DNQ		
		EPA 1613B	pg/g dry	Plant 2 Cake	01/22/2019	11 DNQ	1.3	45
					04/09/2019	ND	2.9	24
					Annual Mean	7.0 DNQ		
					Annual Max	11 DNQ		
		EPA 1613B	pg/g dry	Plant 2	07/16/2019	ND	2.3	21
				Dewatering Cake	10/15/2019	ND	0.74	7.1
				Cake	Annual Mean	<2.3		
					Annual Max	<2.3		
Other	Asbestos	EPA/600/R-	%	Plant 1	07/16/2019	ND		1
		93/116		Dewatering Cake	10/15/2019	ND		1
				Cake	Annual Mean	ND		
					Annual Max	ND		7.1
			% dry weight		01/22/2019	ND		
				Dewatering Cake	04/09/2019	ND		
				Cake	Annual Mean	ND		
					Annual Max	ND		
			% dry weight	Plant 2 Cake	01/22/2019	ND		
		93/116			04/09/2019	ND		
					Annual Mean	ND		
					Annual Max	ND		
		EPA/600/R-	%	Plant 2	07/16/2019	ND		1
		93/116		Dewatering Cake	10/15/2019	ND		1
				Cake	Annual Mean	ND		
					Annual Max	ND		
	Total Volatile	SM 2540G	%	Plant 2	04/09/2019	13	0.050	0.050
	Solids			Dewatering Cake	Annual Mean	13		
					Annual Max	13		
		SM 2540G	%	Plant 2 Cake	04/15/2019	11	0.050	0.050
					Annual Mean	11		
					Annual Max	11		
entatively	.GAMMA	EPA 8270C	μg/kg dry	Plant 2 Cake	04/09/2019	330000		18000
dentified Compounds	SITOSTEROL				Annual Mean	330000		
στιρομιμο					Annual Max	330000		
		EPA 8270C	μg/kg dry	Plant 2	10/22/2019	530000		15000
		LFA 02700 μg/κ		Dewatering	Annual Mean	530000		
			Cake	Cane	Annual Max	530000		

ategory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RI
	1000147-77-7	EPA 8270C	μg/kg dry	Plant 1	04/09/2019	780000		15000
				Dewatering	Annual Mean	780000		
				Cake	Annual Max	780000		
	17-(1,5-	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	190000		9500
	DIMETHYLHEXYL)-			Dewatering	Annual Mean	190000		
	10,13-DIMETHYL-4-			Cake	Annual Max	190000		
	2,6,10,14,18,22-	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	150000		9500
	TETRACOSAHEXA			Dewatering	07/16/2019	280000		
	ENE, 2,6,10			Cake	Annual Mean	220000		
					Annual Max	280000		
		EPA 8270C	μg/kg dry	Plant 2 Cake	04/09/2019	250000		18000
					Annual Mean	250000		
					Annual Max	250000		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	68000		
				Dewatering	Annual Mean	68000		
				Cake	Annual Max	68000		
	2-HYDROXY-6-	EPA 8270C	μg/kg dry	Plant 1	10/22/2019	460000		17000
	HEPTADEC-			Dewatering	Annual Mean	460000		
	8Z,11Z,14Z- TRIENYLB			Cake	Annual Max	460000		
	3-Penten-2-one, 4-	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	270000		9500
	methyl-			Dewatering	Annual Mean	270000		
				Cake	Annual Max	270000		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	280000		8900
					Annual Mean	280000		
					Annual Max	280000		
	5-Cholestene-3-ol,	EPA 8270C	μg/kg dry	Plant 1	07/16/2019	190000		
	24-methyl-			Dewatering	Annual Mean	190000		
				Cake	Annual Max	190000		
	6-	EPA 8270C	μg/kg dry	Plant 1	07/16/2019	160000		
	OCTADECENOIC			Dewatering	Annual Mean	160000		
	ACID, (Z)-			Cake	Annual Max	160000		
	9-	EPA 8270C	μg/kg dry	Plant 2	07/16/2019	130000		
	OCTADECENOIC			Dewatering	Annual Mean	130000		
	ACID, (E)-			Cake	Annual Max	130000		
	Cholest-4-en-3-one	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	240000		9500
				Dewatering	04/09/2019	180000		15000
				Cake	07/16/2019	210000		
					Annual Mean	210000		
					Annual Max	240000		
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	570000		8900
					04/09/2019	420000		18000
					Annual Mean	500000		
					Annual Max	570000		

tegory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RI
		EPA 8270C	μg/kg dry	Plant 2	10/22/2019	570000		15000
				Dewatering	Annual Mean	570000		
				Cake	Annual Max	570000		
	CHOLESTA-3,5-	EPA 8270C	μg/kg dry	Plant 1	10/22/2019	220000		17000
	DIENE			Dewatering	Annual Mean	220000		
				Cake	Annual Max	220000		
	Cholestan-3-ol	EPA 8270C	μg/kg dry	Plant 1	07/16/2019	210000		
				Dewatering	Annual Mean	210000		
				Cake	Annual Max	210000		
	CHOLESTAN-3-	EPA 8270C	μg/kg dry	Plant 2	07/16/2019	390000		
	OL,			Dewatering	Annual Mean	390000		
	(3.BETA.,5.BETA.)-			Cake	Annual Max	390000		
	Cholestan-3-one,	EPA 8270C	μg/kg dry	Plant 1	07/16/2019	1500000		
	(5.beta.)-			Dewatering	Annual Mean	1500000		
				Cake	Annual Max	1500000		
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	390000		
				Dewatering	Annual Mean	390000		
				Cake	Annual Max	390000		
	CHOLESTANE, 3-	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	300000		9500
	ETHOXY-,			Dewatering	Annual Mean	300000		
	(3.BETA.,5.ALPHA.			Cake	Annual Max	300000		
	CHOLESTANOL	EPA 8270C	μg/kg dry	Plant 1	07/16/2019	1500000		
				Dewatering	Annual Mean	1500000		
				Cake	Annual Max	1500000		
	DODECANE,	EPA 8270C	μg/kg dry	Plant 2	07/16/2019	77000		
	2,6,10-TRIMETHYL-			Dewatering	Annual Mean	77000		
				Cake	Annual Max	77000		
	Eicosane	EPA 8270C	μg/kg dry	Plant 1	10/22/2019	200000		17000
				Dewatering Cake	Annual Max	200000		
	Heptadecane	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	230000		9500
				Dewatering	Annual Mean	230000		
				Cake	Annual Max	230000		
	HEXADECANE	EPA 8270C	μg/kg dry	Plant 2 Dewatering Cake	07/16/2019	89000		
					Annual Mean	89000		
					Annual Max	89000		
	n-Hexadecanoic	EPA 8270C	μg/kg dry	Plant 1	01/22/2019			9500
	acid			Dewatering	04/09/2019			15000
				Cake	10/22/2019			17000
					Annual Mean	290000		
					Annual Max	420000		+

tegory	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RI	
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	360000		8900	
	Octadec-9-Enoic Acid OCTADECANOIC ACID PENTADECANE Squalene Tetradecane				04/09/2019	370000		18000	
					Annual Mean	360000			
					Annual Max	370000			
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	290000			
				Dewatering	10/22/2019	250000		15000	
				Cake	Annual Mean	270000			
					Annual Max	290000			
	Octadec-9-Enoic	EPA 8270C	μg/kg dry	Plant 1	04/09/2019	150000		15000	
	Acid			Dewatering	Annual Mean	150000			
				Cake	Annual Max	150000			
	OCTADECANOIC	EPA 8270C	ua/ka drv	Plant 2	07/16/2019				
		2.7.02.00	pg/itg di y	Dewatering	Annual Mean	94000			
				Cake	Annual Max	94000			
	PENTADECANE	EPA 8270C	μg/kg dry	Plant 2	07/16/2019				
	LINIADECANE	LI A 02700	µg/kg diy	Dewatering	Annual Mean	71000	-	-	
				Cake	Annual Max	71000			
	Sauciono	EPA 8270C	ua/ka dru	Plant 1	04/09/2019		 	15000	
	Squalerie	EFA 02/0C	μg/kg dry	Dewatering	10/22/2019		 	17000	
				Cake				17000	
					Annual Mean	180000			
		EDA 00700	μg/kg dry	DI 1001	Annual Max	190000		0000	
		EPA 8270C		µg/kg ary F	Plant 2 Cake	01/22/2019			8900
					Annual Mean	310000			
					Annual Max	310000			
		EPA 8270C	μg/kg dry	Plant 2 Dewatering	10/22/2019			15000	
				Cake	Annual Mean	450000			
					Annual Max	450000			
	Tetradecane	EPA 8270C	μg/kg dry	Plant 1	04/09/2019			15000	
				Dewatering Cake	07/16/2019				
					Annual Mean	160000			
					Annual Max	160000			
		EPA 8270C	µg/kg dry	Plant 2	07/16/2019	160000			
				Dewatering Cake	Annual Mean	160000			
				Garo	Annual Max	160000			
	TRIDECANE	EPA 8270C	μg/kg dry	Plant 1	07/16/2019	120000			
				Dewatering Cake	Annual Mean	120000			
				Care	Annual Max	120000			
		EPA 8270C	μg/kg dry	Plant 2	07/16/2019	110000			
				Dewatering	Annual Mean	110000			
				Cake	Annual Max	110000			
	UNKNOWN	EPA 8270C	μg/kg dry	Plant 1	01/22/2019	850000		9500	
				Dewatering	04/09/2019	150000		15000	
				Cake	07/16/2019	380000			
					10/22/2019			17000	
					Annual Mean	450000			
					Annual Max	850000			

Category	Parameter	Method	Units	Sample Location	Sample Date	Result	MDL	RL
		EPA 8270C	μg/kg dry	Plant 2 Cake	01/22/2019	350000		8900
					04/09/2019	460000		18000
				Annual Mean 400		400000		
		EPA 8270C			Annual Max	460000		
			μg/kg dry	Plant 2	07/16/2019	120000		
				Dewatering	10/22/2019	680000		15000
				Cake	Annual Mean	400000		
					Annual Max	680000		
	VITAMIN E	EPA 8270C μς	μg/kg dry	Plant 1	07/16/2019	130000		
				Dewatering	Annual Max 460000 ant 2 07/16/2019 120000 ewatering 10/22/2019 680000 Annual Mean 400000 Annual Max 680000 ant 1 07/16/2019 130000			
				Cake	Annual Max	130000		

Definitions:

ND = Not Detected

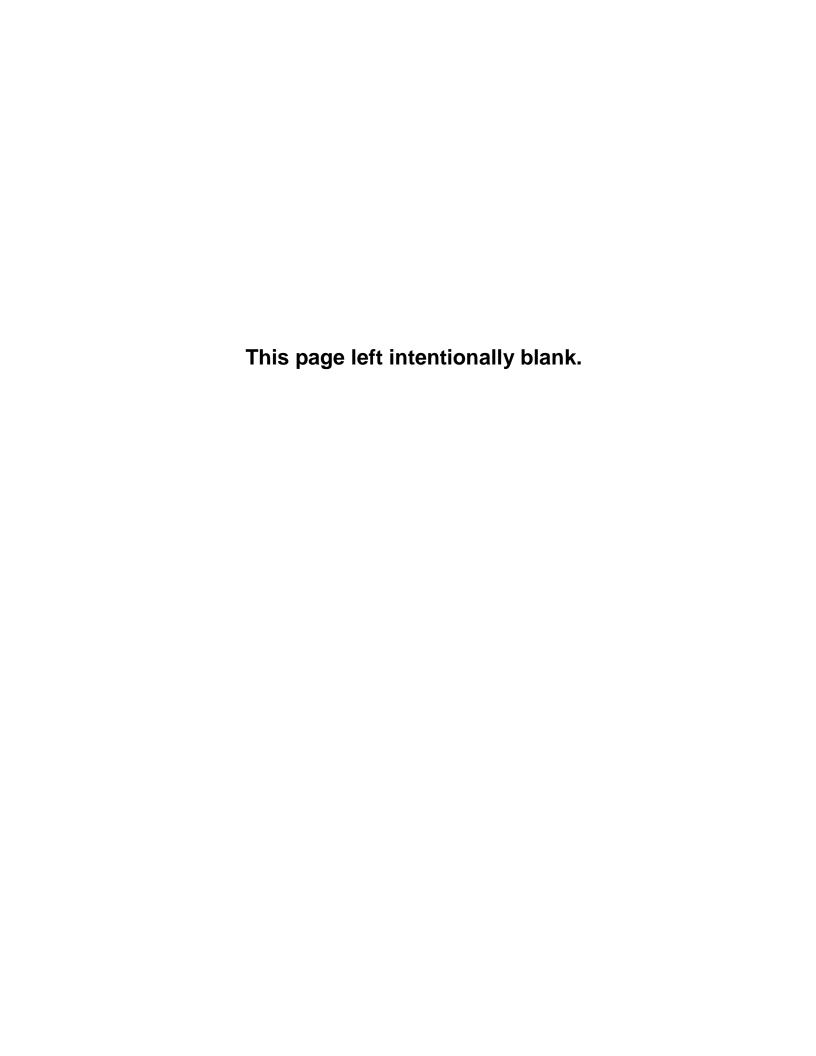
DNQ = Detected, Not Quantified; represents estimated values above the method detection limit (MDL), but below the reporting limit (RL). N/A = Not Applicable

Annual Mean:

If all results for a parameter were ND, the Annual Mean is reported as < the highest 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.

Footnotes

- 1. January and April 2019 8260 Volatile Organic Compounds used EPA Method 5030 instead of Method 5035 (different collection methods and shorter holding time). The discrepancy was corrected for October and December sampling.
- 2. In January and July 2019, OCSD's contract laboratory analyzed the samples at a dilution that caused five constituents to have elevated method detection limits that were higher than the regulatory limits (see footnotes in Appendix C Biosolids Priority Pollutants). In response, OCSD corrected the issue by re-sampling in December 2019 and requested the contract laboratory to analyze at lower detection limits for December as well as into the future. For the 2019 reporting period, OCSD has at least one result with acceptable detection limits for each regulatorily-required constituent.
- 3. Endosulfan II was recovered at 68% in the laboratory control sample, whereas the lower limit is 69%. The matrix spike and its duplicate were also low, and there was no laboratory control sample duplicate. The control samples was so close to acceptable that no impact on the result was anticipated, and it was therefore reported.



APPENDIX D

Biosolids Annual Report Landing Page / ORANGE COUNTY SD #1

NPDES ID: CAL110604 Facility Status: Active

Facility Name: ORANGE COUNTY SD #1

10844 ELLIS AVENUE FOUNTAIN VALLEY, CA 92708-

7018

View Annual Report



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 **BIOSOLIDS ANNUAL REPORT**

FORM Approved OMB No. 2040-0004

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.

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 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.

Furthermore, CWA section 308(b) and 40 CFR 122.7 require EPA to make effluent data available to the public. EPA's CWA CBI regulation defines "effluent data" as, "A general description of the location and/or nature of the source to the extent necessary to identify the source and to distinguish it from other sources..." See 40 CFR 2.302(a)(2)(C). Thus, effluent data will not be protected as CBI and will be made publicly available.

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

Program Information

Please select at least one of the following options pertaining to your obligation to submit a Sewage Sludge (Biosolids) Annual Report in compliance with 40 CFR part 503. The facility is:

- a Class I Sludge Management Facility as defined in 40 CFR 503.9
- 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).

26420.5

Reporting Period Start Date: 01/01/2019

Reporting Period End Date: 12/31/2019

Treatment Processes Processes to Significantly Reduce Pathogens (PSRP): Aerobic Digestion Processes to Further Reduce Pathogens (PFRP): **Physical Treatment Options:** Preliminary Operations (e.g., sludge grinding, degritting, blending) Thickening (Gravity and/or Flotation Thickening, Centrifugation, Belt Filter Press, Vacuum Filter)

Other Processes to Manage Sewage Sludge:

Methane or Biogas Capture and Recovery

Analytical Methods

Did you use any analytical methods to analyze sewage sludge in the reporting period? ☑ YES □ NO

Analytical Methods

- EPA Method 6010 Arsenic (ICP-OES)
- EPA Method 6010 Cadmium (ICP-OES)
- EPA Method 6010 Chromium (ICP-OES)
- EPA Method 6010 Copper (ICP-OES)
- EPA Method 6010 Lead (ICP-OES)
- EPA Method 7471 Mercury (CVAA)
- EPA Method 6010 Molybdenum (ICP-OES)
- EPA Method 6010 Nickel (ICP-OES)
- EPA Method 6010 Selenium (ICP-OES)
- EPA Method 6010 Zinc (ICP-OES)
- EPA Method 6010 Beryllium (ICP-OES)
- EPA Method 351.2 Total Kjeldahl Nitrogen
- Standard Method 4500-N Nitrogen
- Standard Method 2540 Total Solids
- · Standard Method 2540 Volatile Solids
- EPA Method 9045 pH (> 7% solids)

Other Analytical Methods

Other Nitrate Nitrogen Analytical Method Other Analytical Methods Text Area:

> EPA 300.0, 8260B, 8270C, 8081B, 8082A, 9056A, 8290, 8290A, 7196A, 9010C, 9013A, 9014, 8151A,

2/19/

7/2020	EPA Biosolids
Sludge Management - Land Application	
ID: <u>001</u>	
Amount: 2526.4	
Management Practice Detail: Agricultural Land Application	
Bulk or Bag/Container: Bulk	
Handler, Preparer, or Applier Type: Off-Site Third-Party Handler or Applier	
NPDES ID of handler:	
Facility Information: Tule Ranch / Ag-Tech 4324 E. Ashlan Ave. Fresno, CA 93726	Contact Information: Shaen Maga Owner 559-970-9432 kurt@westexp.com
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 loading rates in Table 2 of 40 CFR 503.13?	sewage sludge exceeded 90 percent or more of any of the cumulative pollutant
☐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. The number of compliance monitoring periods reported will correspond to the required frequency of monitoring (monthly, quarterly, semi-annually). For example, if monthly monitoring is required, you should report 12 compliance monitoring periods. The required frequency is determined by the number of metric tons (dry weight basis) of sewage sludge or biosolids land applied in the reporting period for this SSUID (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: 01/01/2019		Compliance Monitoring Period End Date: 01/31/2019
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 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, dryweight basis)	If No Data, Select One Of The Following
Arsenic	=	16	
Cadmium	J (Below RL but Above MDL)	1.8	
Copper	=	490	
Lead	=	14	
Mercury	=	0.63	
Molybdenum	=	14	
Nickel	=	31	
Selenium	<	2.6	
Zinc	=	680	

Pathogen And Vector Attraction Reduction

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	55	

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)	If No Data, Select One Of The Following
Arsenic	=	16	
Cadmium	J (Below RL but Above MDL)	1.8	
Copper	=	420	
Lead	=	11	
Mercury	=	0.63	
Nickel	=	28	
Selenium	<	2.6	
Zinc	=	610	

EPA Biosolids

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)	=	57500	

Compliance Monitoring Event No. 2	Compliance Monitoring Period Start Date: 02/01/2019		Compliance Monitoring Period End I 02/28/2019	Date:	
Do you have analytical results to report for this mor	itoring 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 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)	If No Data, Select One Of The Following
Arsenic	=	21	
Cadmium	J (Below RL but Above MDL)	1.6	
Copper	=	490	
Lead	=	11	
Mercury	=	0.91	
Molybdenum	=	17	
Nickel	=	36	
Selenium	<	48	
Zinc	=	590	

Pathogen And Vector Attraction Reduction

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	60	

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, dryweight basis)	If No Data, Select One Of The Following
Arsenic	=	20	
Cadmium	J (Below RL but Above MDL)	1.4	
Copper	=	450	
Lead	=	11	
Mercury	=	0.89	
Nickel	=	35	
Selenium	<	48	
Zinc	=	570	

EPA Biosolids

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)	=	51500	

Compliance Monitoring Event No. 3	Compliance Monitoring Period Start Date: 03/01/2019		Compliance Monitoring Period End Date: 03/31/2019
Do you have analytical results to report for this	monitoring period?	ES □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 \ density \ for \ 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 \ for \ 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 \ for \ ceiling 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, dryweight basis)	If No Data, Select One Of The Following
Arsenic	=	13	
Cadmium	J (Below RL but Above MDL)	1.5	
Copper	=	440	
Lead	=	12	
Mercury	=	1.4	
Molybdenum	=	15	
Nickel	=	34	
Selenium	<	2.5	
Zinc	=	640	

Pathogen And Vector Attraction Reduction

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	55	

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)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	11	
Cadmium	J (Below RL but Above MDL)	1.2	
Copper	=	390	
Lead	=	9.8	
Mercury	=	1.1	
Nickel	=	31	
Selenium	<	2.5	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dryweight basis)	If No Data, Select One Of The Following
Zinc	=	570	

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)	=	62000	

Compliance Monitoring Event No. 4	Compliance Monito 04/01/2019	ring Period Start Date:	Compliance Monitoring Period End Date: 04/30/2019
Do you have analytical results to report for this m	onitoring 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)	If No Data, Select One Of The Following
Arsenic	=	14	
Cadmium	J (Below RL but Above MDL)	1.4	
Copper	=	720	
Lead	=	11	
Mercury	=	1	
Molybdenum	=	18	
Nickel	=	32	
Selenium	<	2.6	
Zinc	=	700	

Pathogen And Vector Attraction Reduction

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	58	

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, dryweight basis)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	13	
Cadmium	J (Below RL but Above MDL)	1.3	
Copper	=	560	
Lead	=	11	
Mercury	=	0.97	
Nickel	=	30	
Selenium	<	2.6	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dryweight basis)	If No Data, Select One Of The Following
Zinc	=	640	

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)	=	65000	

Compliance Monitoring Event No. 5	Compliance Mon 05/01/2019	itoring Period Start Date:	Compliance Monitoring Period End Date: 05/31/2019	
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)	If No Data, Select One Of The Following			
Arsenic	J (Below RL but Above MDL)	7.7				
Cadmium	J (Below RL but Above MDL)	1.2				
Copper	=	370				
Lead	=	11				
Mercury	=	0.83				
Molybdenum	=	14				
Nickel	=	23				
Selenium	<	2.5				
Zinc	=	540				

Pathogen And Vector Attraction Reduction

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	68	

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)	If No Data, Select One Of The Following	
Arsenic	J (Below RL but Above MDL)	7.3		
Cadmium	J (Below RL but Above MDL)	1.1		
Copper	=	360		
Lead	=	9.8		
Mercury	=	0.82		
Nickel	=	23		
Selenium	<	2.5		

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dryweight basis)	If No Data, Select One Of The Following
Zinc	=	520	

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)	=	58500	

Compliance Monitoring Event No. 6	Compliance Monitoring Period Start Date: 06/01/2019	Compliance Monitoring Period End Date: 06/30/2019
Do you have analytical results to report for this more	nitoring period?	

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)	If No Data, Select One Of The Following		
Arsenic	J (Below RL but Above MDL)	12			
Cadmium	=	2.2			
Copper	=	610			
Lead	=	13			
Mercury	=	1.3			
Molybdenum	=	21			
Nickel	=	38			
Selenium	<	2.6			
Zinc	=	820			

Pathogen And Vector Attraction Reduction

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	63	

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)	If No Data, Select One Of The Following		
Arsenic	J (Below RL but Above MDL)	8			
Cadmium	J (Below RL but Above MDL)	2			
Copper	=	600			
Lead	=	13			
Mercury	=	1			
Nickel	=	36			
Selenium	<	2.6			

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dryweight basis)	If No Data, Select One Of The Following
Zinc	=	810	

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)	=	56500	

Compliance Monitoring Event No. 7	Compliance Mon 07/01/2019	itoring Period Start Date:	Compliance Monitoring Period End Date: 07/31/2019
Do you have analytical results to report for	r 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)	If No Data, Select One Of The Following
Arsenic	<	6.4	
Cadmium	=	2.8	
Copper	=	580	
Lead	=	14	
Mercury	=	0.82	
Molybdenum	=	22	
Nickel	=	37	
Selenium	<	3.9	
Zinc	=	800	

Pathogen And Vector Attraction Reduction

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	74	

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)	If No Data, Select One Of The Following		
Arsenic	<	6.4			
Cadmium	=	2.7			
Copper	=	560			
Lead	=	14			
Mercury	=	0.77			
Nickel	=	35			
Selenium	<	3.9			
Zinc	=	800			

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)	=	65500	

Compliance Monitoring Event No. 8	Compliance Monito	oring Period	d Start Date:	Compliance Monitoring Period End Date: 08/31/2019
Do you have analytical results to report for this mor	nitoring 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)	If No Data, Select One Of The Following
Arsenic	<	6.4	
Cadmium	=	2	
Copper	=	520	
Lead	=	13	
Mercury	=	0.71	
Molybdenum	=	21	
Nickel	=	32	
Selenium	<	3.9	
Zinc	=	770	

Pathogen And Vector Attraction Reduction

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	65	

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, dryweight basis)	If No Data, Select One Of The Following
Arsenic	<	6.4	
Cadmium	J (Below RL but Above MDL)	2	
Copper	=	440	
Lead	=	12	
Mercury	=	0.67	
Nickel	=	27	
Selenium	<	3.9	
Zinc	=	760	

EPA Biosolids

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)	=	55500		

Compliance Monitoring Event No. 9	Compliance Monitoring Period Start Date: 09/01/2019	Compliance Monitoring Period End Date: 09/30/2019
Do you have analytical results to report for this mon	itoring period?	

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 \ density \ for \ 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 \ for \ 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 \ for \ ceiling 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)	If No Data, Select One Of The Following
Arsenic	<	6	
Cadmium	=	2.2	
Copper	=	550	
Lead	=	12	
Mercury	=	1	
Molybdenum	=	21	
Nickel	=	35	
Selenium	<	3.6	
Zinc	=	820	

Pathogen And Vector Attraction Reduction

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	41	

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, dryweight basis)	If No Data, Select One Of The Following
Arsenic	<	6	
Cadmium	J (Below RL but Above MDL)	1.9	
Copper	=	530	
Lead	=	10	
Mercury	=	0.92	
Nickel	=	35	
Selenium	<	3.6	
Zinc	=	790	

EPA Biosolids

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. 10	Compliance Monitor	ing Period Start Date:	Compliance Monitoring Period End Date: 10/31/2019
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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	<	6.3	
Cadmium	=	1.9	
Copper	=	560	
Lead	=	10	
Mercury	=	0.82	
Molybdenum	=	21	
Nickel	=	41	
Selenium	<	3.9	
Zinc	=	770	

Pathogen And Vector Attraction Reduction

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	64	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dryweight basis)	If No Data, Select One Of The Following
Arsenic	<	6.3	
Cadmium	J (Below RL but Above MDL)	1.8	
Copper	=	550	
Lead	=	10	
Mercury	=	0.79	
Nickel	=	41	
Selenium	<	3.9	
Zinc	=	750	

EPA Biosolids

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)	=	60500	

Compliance Monitoring Event No. 11	Compliance Monitoring Period Start Date: 11/01/2019	Compliance Monitoring Period End Date: 11/30/2019
Do you have analytical results to report for this monit	coring period?	

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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	<	6	
Cadmium	J (Below RL but Above MDL)	1.7	
Copper	=	510	
Lead	=	14	
Mercury	=	0.69	
Molybdenum	=	20	
Nickel	=	35	
Selenium	<	3.6	
Zinc	=	780	

Pathogen And Vector Attraction Reduction

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	60	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry- weight basis)	If No Data, Select One Of The Following
Arsenic	<	6	
Cadmium	J (Below RL but Above MDL)	1.3	
Copper	=	510	
Lead	=	13	
Mercury	=	0.69	
Nickel	=	27	
Selenium	<	3.6	
Zinc	=	640	

EPA Biosolids

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)	=	52500	

, ,	Compliance Monitoring Period Start Date: 12/01/2019	Compliance Monitoring Period End Date: 12/31/2019
Do you have analytical results to report for this monitor	ring period?	

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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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, dryweight basis)	If No Data, Select One Of The Following
Arsenic	<	6.2	
Cadmium	J (Below RL but Above MDL)	1.7	
Copper	=	520	
Lead	=	10	
Mercury	=	1	
Molybdenum	=	17	
Nickel	=	33	
Selenium	<	3.8	
Zinc	=	740	

Pathogen And Vector Attraction Reduction

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	75	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry- weight basis)	If No Data, Select One Of The Following
Arsenic	<	6.2	
Cadmium	J (Below RL but Above MDL)	1.4	
Copper	=	520	
Lead	=	9.8	
Mercury	=	0.85	
Nickel	=	33	
Selenium	<	3.8	
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)	=	48500	

ID: 002

Amount: 17152.9

Management Practice Detail: Distribution and Marketing - Compost

Bulk or Bag/Container: Bulk

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

Contact Information: Venny Vasquez Site Manager 760-265-5210

vvasquez@synagro.com

Pathogen Class: Class A EQ

Sewage Sludge or Biosolids Pathogen Reduction Options:

Class A-Alternative 5: PFRP 1: Composting

Sewage Sludge or Biosolids Vector Attraction Reduction Options:

• Option 1 - Volatile Solids Reduction

Option 5 - Aerobic Processing (Thermophilic Aerobic Digestion/Composting)

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. The number of compliance monitoring periods reported will correspond to the required frequency of monitoring (monthly, quarterly, semi-annually). For example, if monthly monitoring is required, you should report 12 compliance monitoring periods. The required frequency is determined by the number of metric tons (dry weight basis) of sewage sludge or biosolids land applied in the reporting period for this SSUID (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 Monito	ring Period Start Date:	: Compliance Monitoring Period End Date: 01/31/2019
Do you have analytical results to report for this mo	onitoring 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	6.8	
Cadmium	=	3.2	
Copper	=	300	
Lead	=	15	
Mercury	<	1	
Molybdenum	=	15	
Nickel	=	27	
Selenium	=	11	
Zinc	=	630	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	=	55	
Salmonella	<	7.5	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	<	3	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	6.8	
Cadmium	=	3.2	
Copper	=	300	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	15	
Mercury	<	1	
Nickel	=	27	
Selenium	=	11	
Zinc	=	630	

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)	=	28000	

Compliance Monitoring Event No. 2	Compliance Monit	oring Peri	od Start Date:	Compliance Monitoring Period End Date: 02/28/2019	
Do you have analytical results to report for this mon	itoring 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	7.4	
Cadmium	=	3.2	
Copper	=	380	
Lead	=	17	
Mercury	<	1	
Molybdenum	=	16	
Nickel	=	30	
Selenium	=	12	
Zinc	=	750	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	=	48	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	60	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.4	
Cadmium	=	3.2	
Copper	=	380	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	17	
Mercury	<	1	
Nickel	=	30	
Selenium	=	12	
Zinc	=	750	

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)	=	29000	

Compliance Monitoring Event No. 3	Compliance Monitoring Period Start Date: 03/01/2019		Compliance Monitoring Period Er	nd Date:	
Do you have analytical results to report for this mon	itoring 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	7.6	
Cadmium	=	3	
Copper	=	360	
Lead	=	16	
Mercury	<	1	
Molybdenum	=	16	
Nickel	=	29	
Selenium	=	12	
Zinc	=	790	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	55	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.6	
Cadmium	=	3	
Copper	=	360	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	16	
Mercury	<	1	
Nickel	=	29	
Selenium	=	12	
Zinc	=	790	

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)	=	30000	

Compliance Monitoring Event No. 4	Compliance Monit	oring Peri	od Start Date:	Compliance Monitoring Period Er 04/30/2019	nd Date:
Do you have analytical results to report for this mor	itoring 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	7.8	
Cadmium	=	3.3	
Copper	=	330	
Lead	=	17	
Mercury	<	1	
Molybdenum	=	17	
Nickel	=	29	
Selenium	=	12	
Zinc	=	650	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	58	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.8	
Cadmium	=	3.3	
Copper	=	330	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	17	
Mercury	<	1	
Nickel	=	29	
Selenium	=	12	
Zinc	=	650	

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)	=	31000	

Compliance Monitoring Event No. 5 Compliance I 05/01/2019	Monitoring Period Start Date:	Compliance Monitoring Period End Date: 05/31/2019	
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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	7	
Cadmium	=	3.4	
Copper	=	430	
Lead	=	16	
Mercury	=	1	
Molybdenum	=	16	
Nickel	=	29	
Selenium	=	11	
Zinc	=	750	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following	
Fecal Coliform	<	7.5		
Salmonella	<	3		

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	68	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7	
Cadmium	=	3.4	
Copper	=	430	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	16	
Mercury	=	1	
Nickel	=	29	
Selenium	=	11	
Zinc	=	750	

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)	=	32000	

Co	ompliance Monitoring Event No. 6	Compliance Monit	oring Peri	od Start Date:	ompliance Monitoring 6/30/2019	Period End Date:	
Do	o you have analytical results to report for this moni	toring 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	8.7	
Cadmium	=	3.5	
Copper	=	420	
Lead	=	18	
Mercury	<	1	
Molybdenum	=	17	
Nickel	=	33	
Selenium	=	12	
Zinc	=	880	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	63	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	8.7	
Cadmium	=	3.5	
Copper	=	420	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	18	
Mercury	<	1	
Nickel	=	33	
Selenium	=	12	
Zinc	=	880	

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)	=	28000		

Compliance Monitoring Event No. 7	Compliance Monitoring Period Start Date: 07/01/2019	Compliance Monitoring Period End Date: 07/31/2019
Do you have analytical results to report for this more	nitoring period?	

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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	8.3	
Cadmium	=	3.2	
Copper	=	370	
Lead	=	17	
Mercury	<	1	
Molybdenum	=	16	
Nickel	=	29	
Selenium	=	11	
Zinc	=	810	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	74	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	8.3	
Cadmium	=	3.2	
Copper	=	370	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	17	
Mercury	<	1	
Nickel	=	29	
Selenium	=	11	
Zinc	=	810	

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)	=	29000	

Compliance Monitoring Event No. 8	Compliance Monitoring Period Start Date: 08/01/2019		Compliance Monitoring Period End Date: 08/31/2019
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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	7.3	
Cadmium	=	2.5	
Copper	=	330	
Lead	=	18	
Mercury	<	1	
Molybdenum	=	17	
Nickel	=	28	
Selenium	=	14	
Zinc	=	640	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	65	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.3	
Cadmium	=	2.5	
Copper	=	330	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	18	
Mercury	<	1	
Nickel	=	28	
Selenium	=	14	
Zinc	=	640	

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)	=	28000	

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		mpliance Monitor /01/2019	ing Perio	d Start Date:	Compliance N 09/30/2019	Monitoring Period End D	ate:
	Do you have analytical results to report for this monitorin	ng 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	6.9	
Cadmium	=	2.8	
Copper	=	340	
Lead	=	17	
Mercury	<	1	
Molybdenum	=	17	
Nickel	=	29	
Selenium	=	12	
Zinc	=	700	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	41	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	6.9	
Cadmium	=	2.8	
Copper	=	340	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	17	
Mercury	<	1	
Nickel	=	29	
Selenium	=	12	
Zinc	=	700	

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)	=	32000	

Compliance Monitoring Event No. 10	Compliance Monitoring Period Start Date: 10/01/2019		Compliance Monitoring Period End I 10/31/2019	Date:	
Do you have analytical results to report for this mon	itoring 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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	6.2	
Cadmium	=	2.5	
Copper	=	260	
Lead	=	17	
Mercury	<	1	
Molybdenum	=	15	
Nickel	=	24	
Selenium	=	11	
Zinc	=	560	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	64	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	6.2	
Cadmium	=	2.5	
Copper	=	260	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	17	
Mercury	<	1	
Nickel	=	24	
Selenium	=	11	
Zinc	=	560	

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)	=	31000	

Compliance Monitoring Event No. 11	Compliance Monitoring Period Start Date: 11/01/2019	Compliance Monitoring Period End Date: 11/30/2019
Do you have analytical results to report for this moni	toring period?	

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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	7.2	
Cadmium	=	2.7	
Copper	=	330	
Lead	=	20	
Mercury	<	1	
Molybdenum	=	18	
Nickel	=	29	
Selenium	=	15	
Zinc	=	650	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	=	7.9	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	60	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.2	
Cadmium	=	2.7	
Copper	=	330	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	20	
Mercury	<	1	
Nickel	=	29	
Selenium	=	15	
Zinc	=	650	

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)	=	32000	

Compliance Monitoring Event No. 12	Compliance Monitoring Period Start Date: 12/01/2019	Compliance Monitoring Period End Date: 12/31/2019
Do you have analytical results to report for this mo	nitoring period?	

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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	7.1	
Cadmium	=	2.5	
Copper	=	330	
Lead	=	18	
Mercury	<	1	
Molybdenum	=	19	
Nickel	=	32	
Selenium	=	14	
Zinc	=	750	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	75	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.1	
Cadmium	=	2.5	
Copper	=	330	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	18	
Mercury	<	1	
Nickel	=	32	
Selenium	=	14	
Zinc	=	750	

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)	=	30000	

ID: 003

Amount: 158.1

Management Practice Detail: Distribution and Marketing - Compost

Bulk or Bag/Container: Bulk

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

NPDES ID of handler:

Facility Information: Synagro - AZ Soils 5615 S. 91st Avenue Tolleson, AZ 85353

Contact Information:

Craig Geyer Senior Operations Manager 623-936-6328 Cgeyer@synagro.com

Pathogen Class: Class A EQ

Sewage Sludge or Biosolids Pathogen Reduction Options:

• Class A-Alternative 5: PFRP 1: Composting

Sewage Sludge or Biosolids Vector Attraction Reduction Options:

- Option 1 Volatile Solids Reduction
- Option 5 Aerobic Processing (Thermophilic Aerobic Digestion/Composting)

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. The number of compliance monitoring periods reported will correspond to the required frequency of monitoring (monthly, quarterly, semi-annually). For example, if monthly monitoring is required, you should report 12 compliance monitoring periods. The required frequency is determined by the number of metric tons (dry weight basis) of sewage sludge or biosolids land applied in the reporting period for this SSUID (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 01/01/2019	Period Start Date:	Compliance Monitoring Period End Date: 01/31/2019
Do you have analytical results to report for this n	nonitoring period?	′ES □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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	6.9	
Cadmium	=	1.9	
Copper	=	490	
Lead	=	25	
Mercury	=	1.7	
Molybdenum	=	15	
Nickel	=	22	
Selenium	=	6	
Zinc	=	740	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewa	ge Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal	Coliform	=	630	
Salmo	onella	<	1	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	55	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	6.9	
Cadmium	=	1.9	
Copper	=	490	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	25	
Mercury	=	1.7	
Nickel	=	22	
Selenium	=	6	
Zinc	=	740	

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)	=	32700	

Compliance Monitoring Event No. 2	Compliance Monitoring Period Start Date: 02/01/2019	Compliance Monitoring Period End Date: 02/28/2019
Do you have analytical results to report for this mo	nitoring period?	

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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	5.6	
Cadmium	=	2.1	
Copper	=	430	
Lead	=	20	
Mercury	=	1.4	
Molybdenum	=	15	
Nickel	=	23	
Selenium	=	4.3	
Zinc	=	770	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	32	
Salmonella	<	1	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	60	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	5.6	
Cadmium	=	2.1	
Copper	=	430	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	20	
Mercury	=	1.4	
Nickel	=	23	
Selenium	=	4.3	
Zinc	=	770	

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)	=	29800	

Compliance Monitoring Event No. 3	Compliance Monit	oring Peri	od Start Date:	Compliance Monitoring Period End Dat 03/31/2019	te:
Do you have analytical results to report for this mor	itoring 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	7.8	
Cadmium	=	1.9	
Copper	=	490	
Lead	=	17	
Mercury	=	1.4	
Molybdenum	=	12	
Nickel	=	23	
Selenium	=	6.7	
Zinc	=	770	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	=	850	
Salmonella	<	1	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	55	

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

Sewage Sludge or Biosolids Value Parameter Qualifier		Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.8	
Cadmium	=	1.9	
Copper	=	490	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	17	
Mercury	=	1.4	
Nickel	=	23	
Selenium	=	6.7	
Zinc	=	770	

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)	=	42500	

Compliance Monitoring Event No. 4	Compliance Monit	toring Peri	od Start Date:	Compliance Monitorin 04/30/2019	ng Period End Date:
Do you have analytical results to report for this mon	itoring 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	6.5	
Cadmium	=	1.7	
Copper	=	460	
Lead	=	19	
Mercury	=	1.6	
Molybdenum	=	13	
Nickel	=	24	
Selenium	=	6.5	
Zinc	=	790	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	29	
Salmonella	<	1	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	58	

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

Sewage Sludge or Biosolids Value Parameter Qualifier		Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	6.5	
Cadmium	=	1.7	
Copper	=	460	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	19	
Mercury	=	1.6	
Nickel	=	24	
Selenium	=	6.5	
Zinc	=	790	

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)	=	36700	

Compliance Monitoring Event No. 5	Compliance Monitoring Period Start Date: 05/01/2019		od Start Date:	Compliance Monitoring Period End Date: 05/31/2019	
Do you have analytical results to report for this mon	itoring 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	6.2	
Cadmium	=	1.7	
Copper	=	470	
Lead	=	18	
Mercury	=	1.2	
Molybdenum	=	14	
Nickel	=	22	
Selenium	=	7.4	
Zinc	=	850	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	28	
Salmonella	<	1	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	68	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	6.2	
Cadmium	=	1.7	
Copper	=	470	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	18	
Mercury	=	1.2	
Nickel	=	22	
Selenium	=	7.4	
Zinc	=	850	

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)	=	41200		

Compliance Monitoring Event N	lo. 6 Compliance Monit 06/01/2019	toring Period Start Date:	Compliance Monitoring Period End Date: 06/30/2019
Do you have analytical results t	o 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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			If No Data, Select One Of The Following
Arsenic	=	7.5	
Cadmium	=	1.7	
Copper	=	470	
Lead	=	16	
Mercury	=	1.1	
Molybdenum	=	14	
Nickel	=	23	
Selenium	=	8.2	
Zinc	=	800	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	=	28	
Salmonella	<	1	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	63	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.5	
Cadmium	=	1.7	
Copper	=	470	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	16	
Mercury	=	1.1	
Nickel	=	23	
Selenium	=	8.2	
Zinc	=	800	

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)	=	43600	

Compliance Monitoring Event No. 7	Compliance Monit	oring Peri	od Start Date:	Compliance Monito 07/31/2019	oring Period End Date:
Do you have analytical results to report for this mon	itoring 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	8.3	
Cadmium	=	2	
Copper	=	510	
Lead	=	17	
Mercury	=	1.2	
Molybdenum	=	14	
Nickel	=	26	
Selenium	=	9.3	
Zinc	=	920	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	27	
Salmonella	<	1	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	74	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	8.3	
Cadmium	=	2	
Copper	=	510	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	17	
Mercury	=	1.2	
Nickel	=	26	
Selenium	=	9.3	
Zinc	=	920	

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)	=	49500	

Compliance Monitoring Event No. 8	Compliance Monit	oring Peri	od Start Date:	Compliance Monitoring Period End Do	ate:
Do you have analytical results to report for this mon	itoring 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	6.8	
Cadmium	=	1.8	
Copper	=	440	
Lead	=	14	
Mercury	=	1.3	
Molybdenum	=	14	
Nickel	=	28	
Selenium	=	6.9	
Zinc	=	800	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	24	
Salmonella	<	1	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	65	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	6.8	
Cadmium	=	1.8	
Copper	=	440	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	14	
Mercury	=	1.3	
Nickel	=	28	
Selenium	=	6.9	
Zinc	=	800	

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)	=	41700	

Compliance Monitoring Event No. 9	Compliance Monitoring Period Start Date: 09/01/2019		Compliance Monitoring Po	eriod End Date:	
Do you have analytical results to report for this mon	itoring 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	2.1	
Cadmium	=	0.54	
Copper	=	140	
Lead	=	5	
Mercury	=	1.2	
Molybdenum	=	4	
Nickel	=	7.5	
Selenium	=	2.3	
Zinc	=	260	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	30	
Salmonella	<	1	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	41	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	2.1	
Cadmium	=	0.54	
Copper	=	140	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	5	
Mercury	=	1.2	
Nickel	=	7.5	
Selenium	=	2.3	
Zinc	=	260	

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)	=	48100	

Cor		mpliance Monit	oring Perio	od Start Date:	ompliance Monitori 0/31/2019	ng Period End Date	e:
Do	you have analytical results to report for this monitoring	ng 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	7.2	
Cadmium	=	1.6	
Copper	=	510	
Lead	=	20	
Mercury	=	1.1	
Molybdenum	=	15	
Nickel	=	29	
Selenium	=	8.5	
Zinc	=	910	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	26	
Salmonella	<	1	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	64	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.2	
Cadmium	=	1.6	
Copper	=	510	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	20	
Mercury	=	1.1	
Nickel	=	29	
Selenium	=	8.5	
Zinc	=	910	

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)	=	41800	

Compliance Monitoring Event No. 11	Compliance Monit	toring Perio	d Start Date:	Compliance Monitoring Period End Date: 11/30/2019	
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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	7.6	
Cadmium	=	1.8	
Copper	=	510	
Lead	=	17	
Mercury	=	1.7	
Molybdenum	=	16	
Nickel	=	27	
Selenium	=	7.5	
Zinc	=	800	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	26	
Salmonella	<	1	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	60	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.6	
Cadmium	=	1.8	
Copper	=	510	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	17	
Mercury	=	1.7	
Nickel	=	27	
Selenium	=	7.5	
Zinc	=	800	

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)	=	38500	

Compliance Monitoring Event No. 12 Compliance 12/01/2019	e Monitoring Period Start Date:	Compliance Monitoring Period End Date: 12/31/2019
Do you have analytical results to report for this monitoring period	i? ✓ 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	7.3	
Cadmium	=	2.2	
Copper	=	480	
Lead	=	18	
Mercury	=	1.5	
Molybdenum	=	17	
Nickel	=	26	
Selenium	=	6.7	
Zinc	=	820	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	29	
Salmonella			F (No Sampling or Analysis Conducted - Other Reason)

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	75	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.3	
Cadmium	=	2.2	
Copper	=	480	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	18	
Mercury	=	1.5	
Nickel	=	26	
Selenium	=	6.7	
Zinc	=	820	

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)	=	39200	

ID: 004

Amount: 6583

Management Practice Detail: Distribution and Marketing - Compost

Bulk or Bag/Container: Bulk

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

NPDES ID of handler:

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

Contact Information:

McCarthy Patrick Site Manager 661-797-2914

patrickmccarthy@mccarthyfarms.com

Pathogen Class: Class A EQ

Sewage Sludge or Biosolids Pathogen Reduction Options:

• Class A-Alternative 5: PFRP 1: Composting

Sewage Sludge or Biosolids Vector Attraction Reduction Options:

- Option 1 Volatile Solids Reduction
- Option 5 Aerobic Processing (Thermophilic Aerobic Digestion/Composting)

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. The number of compliance monitoring periods reported will correspond to the required frequency of monitoring (monthly, quarterly, semi-annually). For example, if monthly monitoring is required, you should report 12 compliance monitoring periods. The required frequency is determined by the number of metric tons (dry weight basis) of sewage sludge or biosolids land applied in the reporting period for this SSUID (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 Mon 01/01/2019	itoring Period Start Date:	Compliance Monitoring Period End Date: 01/31/2019
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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	8.7	
Cadmium	=	4.5	
Copper	=	440	
Lead	=	15	
Mercury	<	1	
Molybdenum	=	23	
Nickel	=	39	
Selenium	=	20	
Zinc	=	830	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	55	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	8.7	
Cadmium	=	4.5	
Copper	=	440	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	15	
Mercury	<	1	
Nickel	=	39	
Selenium	=	20	
Zinc	=	830	

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)	=	4	

Compliance Monitoring Event No. 2	Compliance Monit 02/01/2019	oring Peri	od Start Date:	Compliance Monitoring Period End Date: 02/28/2019	
Do you have analytical results to report for this mon	itoring 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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	8.2	
Cadmium	=	4.3	
Copper	=	380	
Lead	=	15	
Mercury	<	1	
Molybdenum	=	23	
Nickel	=	36	
Selenium	=	18	
Zinc	=	780	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	60	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	8.2	
Cadmium	=	4.3	
Copper	=	380	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	15	
Mercury	<	1	
Nickel	=	36	
Selenium	=	18	
Zinc	=	780	

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)	=	3.8	

Compliance Monitoring Event No. 3	Compliance Monitoring Period Start Date: 03/01/2019	Compliance Monitoring Period End Date: 03/31/2019
Do you have analytical results to report for this mo	nitoring period?	

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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	11	
Cadmium	=	4.3	
Copper	=	420	
Lead	=	19	
Mercury	<	1	
Molybdenum	=	25	
Nickel	=	41	
Selenium	=	21	
Zinc	=	800	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	55	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	11	
Cadmium	=	4.3	
Copper	=	420	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	19	
Mercury	<	1	
Nickel	=	41	
Selenium	=	21	
Zinc	=	800	

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)	=	4	

Compliance Monitoring Event No. 4	Compliance Monitoring Period Start Date: 04/01/2019		Compliance Monitoring Period End Date: 04/30/2019
Do you have analytical results to report for this r	nonitoring period?	YES DNO	

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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	8.2	
Cadmium	=	4.4	
Copper	=	340	
Lead	=	16	
Mercury	<	1	
Molybdenum	=	23	
Nickel	=	35	
Selenium	=	19	
Zinc	=	690	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	58	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	8.2	
Cadmium	=	4.4	
Copper	=	340	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	16	
Mercury	<	1	
Nickel	=	35	
Selenium	=	19	
Zinc	=	690	

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)	=	3.8	

Compliance Monitoring Event No. 5	Compliance Monitoring Period Start Date: 05/01/2019		Compliance Monitor 05/31/2019	ring Period End Date:	
Do you have analytical results to report for this mon	itoring 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	7.1	
Cadmium	=	4.5	
Copper	=	370	
Lead	=	16	
Mercury	=	1.1	
Molybdenum	=	22	
Nickel	=	32	
Selenium	=	16	
Zinc	=	720	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	68	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.1	
Cadmium	=	4.5	
Copper	=	370	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	16	
Mercury	=	1.1	
Nickel	=	32	
Selenium	=	16	
Zinc	=	720	

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)	=	3.9	

Compliance Monitoring Event No. 6	Compliance Monitoring Period Start Date: 06/01/2019	Compliance Monitoring Period End Date: 06/30/2019
Do you have analytical results to report for this monit	oring period?	

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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	9.3	
Cadmium	=	4.8	
Copper	=	480	
Lead	=	18	
Mercury	=	0.93	
Molybdenum	=	25	
Nickel	=	43	
Selenium	=	20	
Zinc	=	830	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	63	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	9.3	
Cadmium	=	4.8	
Copper	=	480	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	18	
Mercury	=	0.93	
Nickel	=	43	
Selenium	=	20	
Zinc	=	830	

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)	=	4.1	

Compliance Monitoring Event No. 7	Compliance Monitoring Period Start Date: 07/01/2019	Compliance Monitoring Period End Date: 07/31/2019
Do you have analytical results to report for this mo	onitoring period?	

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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	8.5	
Cadmium	=	4.4	
Copper	=	410	
Lead	=	16	
Mercury	<	1	
Molybdenum	=	24	
Nickel	=	40	
Selenium	=	20	
Zinc	=	750	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	74	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	8.5	
Cadmium	=	4.4	
Copper	=	410	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	16	
Mercury	<	1	
Nickel	=	40	
Selenium	=	20	
Zinc	=	750	

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)	=	4.4	

Compliance Monitoring Event No. 8 Compliance Mo 08/01/2019		oring Peri	od Start Date:	Compliance Monitoring Period End Date 08/31/2019	e:
Do you have analytical results to report for this mor	nitoring 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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			If No Data, Select One Of The Following	
Arsenic	=	9.6		
Cadmium	=	4.9		
Copper	=	460		
Lead	=	18		
Mercury	=	0.9		
Molybdenum	=	27		
Nickel	=	41		
Selenium	=	21		
Zinc	=	890		

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	65	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	9.6	
Cadmium	=	4.9	
Copper	=	460	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	18	
Mercury	=	0.9	
Nickel	=	41	
Selenium	=	21	
Zinc	=	890	

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)	=	4.4	

Compliance Monitoring Event No. 9	Compliance Monitoring Period Start Date: 09/01/2019		Compliance Monitoring Period End Date: 09/30/2019	
Do you have analytical results to report for this n	nonitoring period?	YES ONO		

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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	9.2	
Cadmium	=	2.5	
Copper	=	430	
Lead	=	20	
Mercury	=	0.94	
Molybdenum	=	26	
Nickel	=	43	
Selenium	=	20	
Zinc	=	790	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	41	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	9.2	
Cadmium	=	2.5	
Copper	=	430	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	20	
Mercury	=	0.94	
Nickel	=	43	
Selenium	=	20	
Zinc	=	790	

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)	=	4	

Compliance Monitoring Event No. 10	Compliance Monitoring Period Start Date: 10/01/2019		Compliance Monitoring Period End Date: 10/31/2019	
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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	13	
Cadmium	=	8	
Copper	=	9.2	
Lead	=	28	
Mercury	<	1	
Molybdenum	=	41	
Nickel	=	64	
Selenium	=	32	
Zinc	=	1200	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	64	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	13	
Cadmium	=	8	
Copper	=	9.2	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	28	
Mercury	<	1	
Nickel	=	64	
Selenium	=	32	
Zinc	=	1200	

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)	=	4.4	

Compliance Monitoring Event No. 11	Compliance Monitoring Period Start 11/01/2019	Date: Compliance Monitoring Period End Date: 11/30/2019
Do you have analytical results to report for this n	nonitoring period?	

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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	8.8	
Cadmium	=	4.6	
Copper	=	460	
Lead	=	16	
Mercury	<	1	
Molybdenum	=	26	
Nickel	=	39	
Selenium	=	18	
Zinc	=	860	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	60	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	8.8	
Cadmium	=	4.6	
Copper	=	460	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	16	
Mercury	<	1	
Nickel	=	39	
Selenium	=	18	
Zinc	=	860	

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)	=	4.4	

EPA Biosolids 2/19/2020

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	Compliance Monitoring Event No. 12 Compliance Mo 12/01/2019	onitoring Period Start Date:	Compliance Monitoring Period End Date: 12/31/2019			
	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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	7.5	
Cadmium	=	3.3	
Copper	=	470	
Lead	=	14	
Mercury	<	1	
Molybdenum	=	20	
Nickel	=	36	
Selenium	=	15	
Zinc	=	780	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	75	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.5	
Cadmium	=	3.3	
Copper	=	470	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	14	
Mercury	<	1	
Nickel	=	36	
Selenium	=	15	
Zinc	=	780	

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)	=	4.1	

Sludge Management - Surface Disposal		
Sludge Management - Incineration		
Sludge Management - Other Management Practice		

Additional Information

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

OCSD is attaching an abbreviated, electronic version of our annual biosolids compliance report because the file size is much larger than EPA's database limit of 3MB. The comprehensive report is available at www.ocsd.com/503. Monthly compliance reports are posted to www.ocsd.com/nani and low resolution versions are attached. Appendix A in the comprehensive report contains the certified monthly compliance reports that contain OCSD data that was uploaded to the EPA database. OCSD's contractors emailed data that was consolidated and uploaded to the EPA's database. Appendix C in the comprehensive report contains OCSD's Clean Water Act section 307(a) pollutant data required by our NPDES permit. Regarding SSIUD003, Compliance Monitoring Event 12, Salmonella No Sampling Code F: • The 503 regulations require either the density of fecal coliforms in the sewage sludge be less than 1,000 MPN per gram total solids (dry weight basis) or the density of Salmonella sp. bacteria in the sewage be less than 3 MPN per 4 grams of total solids (dry weight basis). • OCSD's composting contractor, Synagro Arizona Soils, normally samples for salmonella and fecal coliforms each month. In December 2019, the compost pile they tested for salmonella and fecal coliforms had normal salmonella, but elevated fecal coliforms. As a result, they restarted the pile, but did not retest the salmonella so there is no salmonella data for December. However, it is not required by 503 regulations, but the database requires a data code for both fecal coliform and salmonella.

Additional Attachments

Name	Created Date	Size
2019_NANIs_scanned LOW RES - 07JULrev-12DEC.pdf	02/19/2020 10:49 AM	2.76 MB
2019_Biosolids_503_Annual_Report - EPA Abbreviated less than 3MB - REDO 2.pdf	02/18/2020 2:38 PM	2.09 MB
2019_NANIs_scanned LOW RES - 01JAN-06JUN.pdf	02/19/2020 10:44 AM	2.96 MB

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: Ronald J. Coss (CAL110604)

Certified On: 02/19/2020 1:00 PM

Biosolids Annual Report Landing Page / ORANGE COUNTY SD #2

NPDES ID: CAL120604 Facility Status: Active

Facility Name: ORANGE COUNTY SD #2

10844 ELLIS AVENUE FOUNTAIN VALLEY, CA 92708-

7018

View Annual Report



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 **BIOSOLIDS ANNUAL REPORT**

FORM Approved OMB No. 2040-0004

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.

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 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.

Furthermore, CWA section 308(b) and 40 CFR 122.7 require EPA to make effluent data available to the public. EPA's CWA CBI regulation defines "effluent data" as, "A general description of the location and/or nature of the source to the extent necessary to identify the source and to distinguish it from other sources..." See 40 CFR 2.302(a)(2)(C). Thus, effluent data will not be protected as CBI and will be made publicly available.

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

Program Information

Please select at least one of the following options pertaining to your obligation to submit a Sewage Sludge (Biosolids) Annual Report in compliance with 40 CFR part 503. The facility is:

- a Class I Sludge Management Facility as defined in 40 CFR 503.9
- 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).

25582.3

Reporting Period Start Date: 01/01/2019

Reporting Period End Date: 12/31/2019

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 (Gravity and/or Flotation Thickening, Centrifugation, Belt Filter Press, Vacuum Filter)	
Other Processes to Manage Sewage Sludge:	
Methane or Biogas Capture and Recovery	

Analytical Methods

Did you use any analytical methods to analyze sewage sludge in the reporting period? ☑ 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 7010 Nickel (GF-AAS)
- EPA Method 351.2 Total Kjeldahl Nitrogen
- Standard Method 4500-N Nitrogen
- Standard Method 4500-NH3 Ammonia Nitrogen
- Standard Method 2540 Total Solids
- Standard Method 2540 Volatile Solids
- EPA Method 9045 pH (> 7% solids)

Other Analytical Methods

 Other Nitrate Nitrogen Analytical Method Other Analytical Methods Text Area:

EPA 300.0, 8260, 8270, 8081, 8082, 9056, 8290, 7196, 9014,

9/2020	EPA Biosolids
Sludge Management - Land Application	
ID: <u>001</u>	
Amount: <u>17782.3</u>	
Management Practice Detail: Agricultural Land Application	
Bulk or Bag/Container: Bulk	
Handler, Preparer, or Applier Type: Off-Site Third-Party Handler or Applier	
NPDES ID of handler:	
Facility Information: Tule Ranch / Ag-Tech 4324 E. Ashlan Ave. Fresno, CA 93726	Contact Information: Shaen Magan Owner 559-970-9432 kurt@westexp.com
Pathogen Class: Class B	
Sewage Sludge or Biosolids Pathogen Reduction Options: • Class B-Alternative 2 PSRP 1: Aerobic 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 loading rates in Table 2 of 40 CFR 503.13?	sewage sludge exceeded 90 percent or more of any of the cumulative pollutant
☐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. The number of compliance monitoring periods reported will correspond to the required frequency of monitoring (monthly, quarterly, semi-annually). For example, if monthly monitoring is required, you should report 12 compliance monitoring periods. The required frequency is determined by the number of metric tons (dry weight basis) of sewage sludge or biosolids land applied in the reporting period for this SSUID (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 Mon 01/01/2019	itoring Period Start Date:	Compliance Monitoring Period End Date: 01/31/2019
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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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, dryweight basis)	If No Data, Select One Of The Following
Arsenic	=	16	
Cadmium	J (Below RL but Above MDL)	1.8	
Copper	=	490	
Lead	=	14	
Mercury	=	0.63	
Molybdenum	=	14	
Nickel	=	31	
Selenium	<	2.6	
Zinc	=	680	

Pathogen And Vector Attraction Reduction

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	55	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry- weight basis)	If No Data, Select One Of The Following
Arsenic	=	16	
Cadmium	J (Below RL but Above MDL)	1.8	
Copper	=	420	
Lead	=	11	
Mercury	=	0.63	
Nickel	=	28	
Selenium	<	2.6	
Zinc	=	610	

EPA Biosolids

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)	=	57500	

Compliance Monitoring Event No. 2	Compliance Monitoring Period S 02/01/2019	Start Date: Compli	ance Monitoring Period End Date: 2019
Do you have analytical results to report for this mor	itoring period?	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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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, dryweight basis)	If No Data, Select One Of The Following
Arsenic	=	21	
Cadmium	J (Below RL but Above MDL)	1.6	
Copper	=	490	
Lead	=	11	
Mercury	=	0.91	
Molybdenum	=	17	
Nickel	=	36	
Selenium	<	48	
Zinc	=	590	

Pathogen And Vector Attraction Reduction

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	60	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry- weight basis)	If No Data, Select One Of The Following
Arsenic	=	20	
Cadmium	J (Below RL but Above MDL)	1.4	
Copper	=	450	
Lead	=	11	
Mercury	=	0.89	
Nickel	=	35	
Selenium	<	48	
Zinc	=	570	

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)	=	51500	

Compliance Monitoring Event No. 3	Compliance Mon 03/01/2019	itoring Period Start Date:	Compliance Monitoring Period End Date: 03/31/2019
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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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, dryweight basis)	If No Data, Select One Of The Following			
Arsenic	=	13				
Cadmium	J (Below RL but Above MDL)	1.5				
Copper	=	440				
Lead	=	12				
Mercury	=	1.4				
Molybdenum	=	15				
Nickel	=	34				
Selenium	<	2.5				
Zinc	=	640				

Pathogen And Vector Attraction Reduction

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	55	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dryweight basis)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	11	
Cadmium	J (Below RL but Above MDL)	1.2	
Copper	=	390	
Lead	=	9.8	
Mercury	=	1.1	
Nickel	=	31	
Selenium	<	2.5	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry- weight basis)	If No Data, Select One Of The Following
Zinc	=	570	

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)	=	62000	

Compliance Monitoring Event No. 4	Compliance Mon 04/01/2019	itoring Period Start Date:	Compliance Monitoring Period End Date: 04/30/2019	
Do you have analytical results to report for thi	s 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)	If No Data, Select One Of The Following
Arsenic	=	14	
Cadmium	J (Below RL but Above MDL)	1.4	
Copper	=	720	
Lead	=	11	
Mercury	=	1	
Molybdenum	=	18	
Nickel	=	32	
Selenium	<	2.6	
Zinc	=	700	

Pathogen And Vector Attraction Reduction

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	58	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	13	
Cadmium	J (Below RL but Above MDL)	1.3	
Copper	=	560	
Lead	=	11	
Mercury	=	0.97	
Nickel	=	30	
Selenium	<	2.6	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dryweight basis)	If No Data, Select One Of The Following
Zinc	=	640	

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)	=	65000	

Compliance Monitoring Event No. 5	Compliance Monitoring Period Start Date: 05/01/2019	Compliance Monitoring Period End Date: 05/31/2019
Do you have analytical results to report for this mon	toring period?	

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)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	7.7	
Cadmium	J (Below RL but Above MDL)	1.2	
Copper	=	370	
Lead	=	11	
Mercury	=	0.83	
Molybdenum	=	14	
Nickel	=	23	
Selenium	<	2.5	
Zinc	=	540	

Pathogen And Vector Attraction Reduction

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	Value Qualifier	Value	If No Data, Select One Of The Following	
Solids, total volatile percent removal	=	68		

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dryweight basis)	If No Data, Select One Of The Following	
Arsenic	J (Below RL but Above MDL)	7.3		
Cadmium	J (Below RL but Above MDL)	1.1		
Copper	=	360		
Lead	=	9.8		
Mercury	=	0.82		
Nickel	=	23		
Selenium	<	2.5		

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dryweight basis)	If No Data, Select One Of The Following
Zinc	=	520	

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)	=	58500	

Compliance Monitoring Event No. 6	Compliance Monitoring Period Start Date: 06/01/2019	Compliance Monitoring Period End Date: 06/30/2019
Do you have analytical results to report for this mo	onitoring period?	

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)	If No Data, Select One Of The Following					
Arsenic	J (Below RL but Above MDL)	12						
Cadmium	=	2.2						
Copper	=	610						
Lead	=	13						
Mercury	=	1.3						
Molybdenum	=	21						
Nickel	=	38						
Selenium	<	2.6						
Zinc	=	820						

Pathogen And Vector Attraction Reduction

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	63	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dryweight basis)	If No Data, Select One Of The Following
Arsenic	J (Below RL but Above MDL)	8	
Cadmium	J (Below RL but Above MDL)	2	
Copper	=	600	
Lead	=	13	
Mercury	=	1	
Nickel	=	36	
Selenium	<	2.6	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dryweight basis)	If No Data, Select One Of The Following
Zinc	=	810	

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)	=	56500	

Compliance Monitoring Event No. 7	Compliance Mon 07/01/2019	itoring Period Start Date:	Compliance Monitoring Period End Date: 07/31/2019
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)	If No Data, Select One Of The Following	
Arsenic	<	6.4		
Cadmium	=	2.8		
Copper	=	580		
Lead	=	14		
Mercury	=	0.82		
Molybdenum	=	22		
Nickel	=	37		
Selenium	<	3.9		
Zinc	=	800		

Pathogen And Vector Attraction Reduction

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	74	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	<	6.4	
Cadmium	=	2.7	
Copper	=	560	
Lead	=	14	
Mercury	=	0.63	
Nickel	=	35	
Selenium	<	3.9	
Zinc	=	800	

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)	=	65500	

Compliance Monitoring Event No. 8	Compliance Mon 08/01/2019	itoring Period Start Date:	Compliance Monitoring Period End Date: 08/31/2019
Do you have analytical results to report for this	s 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)	If No Data, Select One Of The Following
Arsenic	<	6.4	
Cadmium	=	2	
Copper	=	520	
Lead	=	13	
Mercury	=	0.71	
Molybdenum	=	21	
Nickel	=	32	
Selenium	<	3.9	
Zinc	=	770	

Pathogen And Vector Attraction Reduction

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	65	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dryweight basis)	If No Data, Select One Of The Following
Arsenic	<	6.4	
Cadmium	J (Below RL but Above MDL)	2	
Copper	=	440	
Lead	=	12	
Mercury	=	0.67	
Nickel	=	27	
Selenium	<	3.9	
Zinc	=	760	

EPA Biosolids

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)	=	55500	

Compliance Monitoring Event No. 9	Compliance Monitoring Period Start Date: 09/01/2019		Compliance Monitoring Period End Date: 09/30/2019
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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	<	6	
Cadmium	=	2.2	
Copper	=	550	
Lead	=	12	
Mercury	=	1	
Molybdenum	=	21	
Nickel	=	35	
Selenium	<	3.6	
Zinc	=	820	

Pathogen And Vector Attraction Reduction

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	Value Qualifier	Value	If No Data, Select One Of The Following
5	Solids, total volatile percent removal	=	41	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dryweight basis)	If No Data, Select One Of The Following
Arsenic	<	6	
Cadmium	J (Below RL but Above MDL)	1.9	
Copper	=	530	
Lead	=	10	
Mercury	=	0.92	
Nickel	=	35	
Selenium	<	3.6	
Zinc	=	790	

EPA Biosolids

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. 10	Compliance Monitoring Period Start Date: 10/01/2019		Compliance Monitoring Period End Date: 10/31/2019
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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	<	6.3	
Cadmium	=	1.9	
Copper	=	560	
Lead	=	10	
Mercury	=	0.82	
Molybdenum	=	21	
Nickel	=	41	
Selenium	<	3.9	
Zinc	=	770	

Pathogen And Vector Attraction Reduction

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	64	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dryweight basis)	If No Data, Select One Of The Following
Arsenic	<	6.3	
Cadmium	J (Below RL but Above MDL)	1.8	
Copper	=	550	
Lead	=	10	
Mercury	=	0.79	
Nickel	=	41	
Selenium	<	3.9	
Zinc	=	750	

EPA Biosolids

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)	=	60500	

Compliance Monitoring Event No. 11	Compliance Mon 11/01/2019	itoring Period Start Date:	Compliance Monitoring Period End Date: 11/30/2019
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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	<	6	
Cadmium	J (Below RL but Above MDL)	1.7	
Copper	=	510	
Lead	=	14	
Mercury	=	0.69	
Molybdenum	=	20	
Nickel	=	35	
Selenium	<	3.6	
Zinc	=	780	

Pathogen And Vector Attraction Reduction

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	60	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry- weight basis)	If No Data, Select One Of The Following
Arsenic	<	6	
Cadmium	J (Below RL but Above MDL)	1.3	
Copper	=	510	
Lead	=	13	
Mercury	=	0.69	
Nickel	=	27	
Selenium	<	3.6	
Zinc	=	640	

EPA Biosolids

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)	=	52500	

, ,	Compliance Monitoring Period Start Date: 12/01/2019	Compliance Monitoring Period End Date: 12/31/2019
Do you have analytical results to report for this monitor	ring period?	

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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	<	6.2	
Cadmium	J (Below RL but Above MDL)	1.7	
Copper	=	520	
Lead	=	10	
Mercury	=	1	
Molybdenum	=	17	
Nickel	=	33	
Selenium	<	3.8	
Zinc	=	740	

Pathogen And Vector Attraction Reduction

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	75	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	<	6.2	
Cadmium	J (Below RL but Above MDL)	1.4	
Copper	=	520	
Lead	=	9.8	
Mercury	=	0.85	
Nickel	=	33	
Selenium	<	3.8	
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)	=	48500	

ID: 003

Amount: 2754.9

Management Practice Detail: Distribution and Marketing - Compost

Bulk or Bag/Container: Bulk

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

Contact Information: Venny Vasquez Site Manager 760-265-5210

vvasquez@synagro.com

Pathogen Class: Class A EQ

Sewage Sludge or Biosolids Pathogen Reduction Options:

Class A-Alternative 5: PFRP 1: Composting

Sewage Sludge or Biosolids Vector Attraction Reduction Options:

• Option 1 - Volatile Solids Reduction

Option 5 - Aerobic Processing (Thermophilic Aerobic Digestion/Composting)

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. The number of compliance monitoring periods reported will correspond to the required frequency of monitoring (monthly, quarterly, semi-annually). For example, if monthly monitoring is required, you should report 12 compliance monitoring periods. The required frequency is determined by the number of metric tons (dry weight basis) of sewage sludge or biosolids land applied in the reporting period for this SSUID (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: 01/01/2019		Compliance Monitoring Period End Date: 01/31/2019
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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	6.8	
Cadmium	=	3.2	
Copper	=	300	
Lead	=	15	
Mercury	<	1	
Molybdenum	=	15	
Nickel	=	27	
Selenium	=	11	
Zinc	=	630	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	=	55	
Salmonella	<	7.5	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	<	3	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	6.8	
Cadmium	=	3.2	
Copper	=	300	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	15	
Mercury	<	1	
Nickel	=	27	
Selenium	=	11	
Zinc	=	630	

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)	=	28000	

Compliance Monitoring Event No. 2	Compliance Monit	oring Peri	od Start Date:	Compliance Monitoring F 02/28/2019	Period End Date:
Do you have analytical results to report for this mon	itoring 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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 Value Parameter Qualifier		Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following	
Arsenic	=	7.4		
Cadmium	=	3.2		
Copper	=	380		
Lead	=	17		
Mercury	<	1		
Molybdenum	=	16		
Nickel	=	30		
Selenium	=	12		
Zinc	=	750		

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	=	48	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	60	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.4	
Cadmium	=	3.2	
Copper	=	380	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	17	
Mercury	<	1	
Nickel	=	30	
Selenium	=	12	
Zinc	=	750	

Sewage Sludge or Biosolids Value Parameter Qualifier		Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Total Nitrogen (TKN plus Nitrate-Nitrite)	=	29000	

,	Compliance Monitoring Period Start Date: 03/01/2019	Compliance Monitoring Period End Date: 03/31/2019
Do you have analytical results to report for this monito	ring 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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 Value Parameter Qualifier		Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.6	
Cadmium	=	3	
Copper	=	360	
Lead	=	16	
Mercury	<	1	
Molybdenum	=	16	
Nickel	=	29	
Selenium	=	12	
Zinc	=	790	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	55	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic =		7.6	
Cadmium	=	3	
Copper	=	360	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	16	
Mercury	<	1	
Nickel	=	29	
Selenium	=	12	
Zinc	=	790	

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)	=	30000	

Compliance Monitoring Event No. 4	Compliance Monitoring Period Start Date: 04/01/2019		Compliance Monitoring Period End Date: 04/30/2019
Do you have analytical results to report for the	his 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	7.8	
Cadmium	=	3.3	
Copper	=	330	
Lead	=	17	
Mercury	<	1	
Molybdenum	=	17	
Nickel	=	29	
Selenium	=	12	
Zinc	=	650	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	58	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.8	
Cadmium	=	3.3	
Copper	=	330	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	17	
Mercury	<	1	
Nickel	=	29	
Selenium	=	12	
Zinc	=	650	

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)	=	31000	

Compliance Monitoring Event No. 5	Compliance Monitor		od Start Date:	Compliance Monitoring Period End Dat 05/31/2019	te:
Do you have analytical results to report for this mon	itoring 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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			If No Data, Select One Of The Following
Arsenic	=	7	
Cadmium	=	3.4	
Copper	=	430	
Lead	=	16	
Mercury	=	1	
Molybdenum	=	16	
Nickel	=	29	
Selenium	=	11	
Zinc	=	750	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	68	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7	
Cadmium	=	3.4	
Copper	=	430	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	16	
Mercury	=	1	
Nickel	=	29	
Selenium	=	11	
Zinc	=	750	

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)	=	32000	

Compliance Monitoring Event No. 6	Compliance Monitoring Period Start Date: 06/01/2019	Compliance Monitoring Period End Date: 06/30/2019
Do you have analytical results to report for this mo	nitoring period?	

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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	8.7	
Cadmium	=	3.5	
Copper	=	420	
Lead	=	18	
Mercury	<	1	
Molybdenum	=	17	
Nickel	=	33	
Selenium	=	12	
Zinc	=	880	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	63	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	8.7	
Cadmium	=	3.5	
Copper	=	420	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	18	
Mercury	<	1	
Nickel	=	33	
Selenium	=	12	
Zinc	=	880	

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)	=	28000	

Compliance Monitoring Event No. 7	Compliance Monitoring Period Start Date: 07/01/2019	Compliance Monitoring Period End Date: 07/31/2019
Do you have analytical results to report for this more	nitoring period?	

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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	8.3	
Cadmium	=	3.2	
Copper	=	370	
Lead	=	17	
Mercury	<	1	
Molybdenum	=	16	
Nickel	=	29	
Selenium	=	11	
Zinc	=	810	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	74	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	8.3	
Cadmium	=	3.2	
Copper	=	370	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	17	
Mercury	<	1	
Nickel	=	29	
Selenium	=	11	
Zinc	=	810	

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)	=	29000	

Compliance Monitoring Event No. 8	Compliance Mon 08/01/2019	itoring Period Start Date:	Compliance Monitoring Period End Date: 08/31/2019
Do you have analytical results to report for this r	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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	7.3	
Cadmium	=	2.5	
Copper	=	330	
Lead	=	18	
Mercury	<	1	
Molybdenum	=	17	
Nickel	=	28	
Selenium	=	14	
Zinc	=	640	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following	
Fecal Coliform	<	7.5		
Salmonella	<	3		

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	65	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.3	
Cadmium	=	2.5	
Copper	=	330	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	18	
Mercury	<	1	
Nickel	=	28	
Selenium	=	14	
Zinc	=	640	

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)	=	28000	

Compliance Monitoring Event No. 9	Compliance Monitoring Period Start Date: 09/01/2019		Compliance Monitoring Period End Date: 09/30/2019
Do you have analytical results to report for the	nis 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	6.9	
Cadmium	=	2.8	
Copper	=	340	
Lead	=	17	
Mercury	<	1	
Molybdenum	=	17	
Nickel	=	29	
Selenium	=	12	
Zinc	=	700	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	41	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	6.9	
Cadmium	=	2.8	
Copper	=	340	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	17	
Mercury	<	1	
Nickel	=	29	
Selenium	=	12	
Zinc	=	700	

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)	=	32000	

,	mpliance Monitoring Period Start Date: 0/01/2019	Compliance Monitoring Period End Date: 10/31/2019
Do you have analytical results to report for this monitori	ng period?	

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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	6.2	
Cadmium	=	2.5	
Copper	=	260	
Lead	=	17	
Mercury	<	1	
Molybdenum	=	15	
Nickel	=	24	
Selenium	=	11	
Zinc	=	560	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	64	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	6.2	
Cadmium	=	2.5	
Copper	=	260	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	17	
Mercury	<	1	
Nickel	=	24	
Selenium	=	11	
Zinc	=	560	

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)	=	31000	

Compliance Monitoring Event No. 11	Compliance Monit	oring Peri	od Start Date:	Compliance Monitoring F	Period End Date:
Do you have analytical results to report for this mor	itoring 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	7.2	
Cadmium	=	2.7	
Copper	=	330	
Lead	=	20	
Mercury	<	1	
Molybdenum	=	18	
Nickel	=	29	
Selenium	=	15	
Zinc	=	650	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	=	7.9	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	60	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.2	
Cadmium	=	2.7	
Copper	=	330	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	20	
Mercury	<	1	
Nickel	=	29	
Selenium	=	15	
Zinc	=	650	

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)	=	32000	

Compliance Monitoring Event No. 12	Compliance Monitoring Period St 12/01/2019	Start Date: Compliance Monitoring Period End Date: 12/31/2019
Do you have analytical results to report for this n	nonitoring period?	O 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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	7.1	
Cadmium	=	2.5	
Copper	=	330	
Lead	=	18	
Mercury	<	1	
Molybdenum	=	19	
Nickel	=	32	
Selenium	=	14	
Zinc	=	750	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	75	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.1	
Cadmium	=	2.5	
Copper	=	330	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	18	
Mercury	<	1	
Nickel	=	32	
Selenium	=	14	
Zinc	=	750	

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)	=	30000	

ID: 006

Amount: 1129.2

Management Practice Detail: Distribution and Marketing - Compost

Bulk or Bag/Container: Bulk

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

NPDES ID of handler:

Facility Information: Synagro - AZ Soils 5615 S. 91st Avenue Tolleson, AZ 85353

Contact Information:

Craig Geyer Senior Operations Manager 623-936-6328 Cgeyer@synagro.com

Pathogen Class: Class A EQ

Sewage Sludge or Biosolids Pathogen Reduction Options:

• Class A-Alternative 5: PFRP 1: Composting

Sewage Sludge or Biosolids Vector Attraction Reduction Options:

- Option 1 Volatile Solids Reduction
- Option 5 Aerobic Processing (Thermophilic Aerobic Digestion/Composting)

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. The number of compliance monitoring periods reported will correspond to the required frequency of monitoring (monthly, quarterly, semi-annually). For example, if monthly monitoring is required, you should report 12 compliance monitoring periods. The required frequency is determined by the number of metric tons (dry weight basis) of sewage sludge or biosolids land applied in the reporting period for this SSUID (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: 01/01/2019	Compliance Monitoring Period End Date: 01/31/2019
Do you have analytical results to report for this mo	nitoring period?	

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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	6.9	
Cadmium	=	1.9	
Copper	=	490	
Lead	=	25	
Mercury	=	1.7	
Molybdenum	=	15	
Nickel	=	22	
Selenium	=	6	
Zinc	=	740	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	=	630	
Salmonella	<	1	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	55	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	6.9	
Cadmium	=	1.9	
Copper	=	490	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	25	
Mercury	=	1.7	
Nickel	=	22	
Selenium	=	6	
Zinc	=	740	

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)	=	32700	

Compliance Monitoring Event No. 2	Compliance Monitoring Period Start Date: 02/01/2019		Compliance Monitoring Period End Date: 02/28/2019
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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	5.6	
Cadmium	=	2.1	
Copper	=	430	
Lead	=	20	
Mercury	=	1.4	
Molybdenum	=	15	
Nickel	=	23	
Selenium	=	4.3	
Zinc	=	770	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	32	
Salmonella	<	1	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	60	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	5.6	
Cadmium	=	2.1	
Copper	=	430	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	20	
Mercury	=	1.4	
Nickel	=	23	
Selenium	=	4.3	
Zinc	=	770	

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)	=	29800	

Compliance Monitoring Event No. 3	Compliance Monitoring Period Start Date: 03/01/2019		Compliance Monitoring Period End Date: 03/31/2019
Do you have analytical results to report for this	monitoring period?	YES ONO	

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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	7.8	
Cadmium	=	1.9	
Copper	=	490	
Lead	=	17	
Mercury	=	1.4	
Molybdenum	=	12	
Nickel	=	23	
Selenium	=	6.7	
Zinc	=	770	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	=	850	
Salmonella	<	1	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	55	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.8	
Cadmium	=	1.9	
Copper	=	490	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	17	
Mercury	=	1.4	
Nickel	=	23	
Selenium	=	6.7	
Zinc	=	770	

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)	=	42500	

Compliance Monitoring Event No. 4	Compliance Monitoring Period Start Date: 04/01/2019		Compliance Monitoring Pe 04/30/2019	Compliance Monitoring Period End Date: 04/30/2019	
Do you have analytical results to report for this mon	itoring 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	6.5	
Cadmium	=	1.7	
Copper	=	460	
Lead	=	19	
Mercury	=	1.6	
Molybdenum	=	13	
Nickel	=	24	
Selenium	=	6.5	
Zinc	=	790	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	29	
Salmonella	<	1	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	58	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	6.5	
Cadmium	=	1.7	
Copper	=	460	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	19	
Mercury	=	1.6	
Nickel	=	24	
Selenium	=	6.5	
Zinc	=	790	

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)	=	36700	

Compliance Monitoring Event No. 5	Compliance Monitoring Period Start Date: 05/01/2019		Compliance Monitoring Period End Date: 05/31/2019
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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	6.2	
Cadmium	=	1.7	
Copper	=	470	
Lead	=	18	
Mercury	=	1.2	
Molybdenum	=	14	
Nickel	=	22	
Selenium	=	7.4	
Zinc	=	850	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	28	
Salmonella	<	1	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	68	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	6.2	
Cadmium	=	1.7	
Copper	=	470	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	18	
Mercury	=	1.2	
Nickel	=	22	
Selenium	=	7.4	
Zinc	=	850	

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)	=	41200	

Compliance Monitoring Event No. 6	Compliance Monitoring Period Start Date: 06/01/2019	Compliance Monitoring Period End Date: 06/30/2019
Do you have analytical results to report for this me	onitoring period?	

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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	7.5	
Cadmium	=	1.7	
Copper	=	470	
Lead	=	16	
Mercury	=	1.1	
Molybdenum	=	14	
Nickel	=	23	
Selenium	=	8.2	
Zinc	=	800	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	=	28	
Salmonella	<	1	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	63	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.5	
Cadmium	=	1.7	
Copper	=	470	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	16	
Mercury	=	1.1	
Nickel	=	23	
Selenium	=	8.2	
Zinc	=	800	

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)	=	43600	

Compliance Monitoring Event No. 7	Compliance Monitoring Period Start Date: 07/01/2019	Compliance Monitoring Period End Date: 07/31/2019
Do you have analytical results to report for this monit	oring period?	

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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	8.3	
Cadmium	=	2	
Copper	=	510	
Lead	=	17	
Mercury	=	1.2	
Molybdenum	=	14	
Nickel	=	26	
Selenium	=	9.3	
Zinc	=	920	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	27	
Salmonella	<	1	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	74	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	8.3	
Cadmium	=	2	
Copper	=	510	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	17	
Mercury	=	1.2	
Nickel	=	26	
Selenium	=	9.3	
Zinc	=	920	

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)	=	49500	

Compliance Monitoring Event No. 8	Compliance Monitoring Period Start Dat 08/01/2019	te: Compliance Monitoring Period End Date: 08/31/2019
Do you have analytical results to report for this m	onitoring period?	

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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	6.8	
Cadmium	=	1.8	
Copper	=	440	
Lead	=	14	
Mercury	=	1.3	
Molybdenum	=	14	
Nickel	=	28	
Selenium	=	6.9	
Zinc	=	800	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	24	
Salmonella	<	1	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	65	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	6.8	
Cadmium	=	1.8	
Copper	=	440	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	14	
Mercury	=	1.3	
Nickel	=	28	
Selenium	=	6.9	
Zinc	=	800	

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)	=	41700	

Compliance Monitoring Event No. 9	Compliance Monitoring P	eriod Start Date:	Compliance Monitoring Period End Date: 09/30/2019
Do you have analytical results to report for this n	onitoring period?	S □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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	2.1	
Cadmium	=	0.54	
Copper	=	140	
Lead	=	5	
Mercury	=	1.2	
Molybdenum	=	4	
Nickel	=	7.5	
Selenium	=	2.3	
Zinc	=	260	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	30	
Salmonella	<	1	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	41	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	2.1	
Cadmium	=	0.54	
Copper	=	140	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	5	
Mercury	=	1.2	
Nickel	=	7.5	
Selenium	=	2.3	
Zinc	=	260	

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)	=	48100	

Compliance Monitoring Event No. 10	Compliance Monit	oring Peri	od Start Date:	Compliance Monitoring Period E 10/31/2019	End Date:
Do you have analytical results to report for this mor	nitoring 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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	7.2	
Cadmium	=	1.6	
Copper	=	510	
Lead	=	20	
Mercury	=	1.1	
Molybdenum	=	15	
Nickel	=	29	
Selenium	=	8.5	
Zinc	=	910	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following	
Fecal Coliform	<	26		
Salmonella	<	1		

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	64	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.2	
Cadmium	=	1.6	
Copper	=	510	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	20	
Mercury	=	1.1	
Nickel	=	29	
Selenium	=	8.5	
Zinc	=	910	

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)	=	41800	

Compliance Monitoring Event No. 11	Compliance Monitor	oring Perio	od Start Date:	Compliance Monitorin	ng Period End Date:
Do you have analytical results to report for this mor	itoring 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	7.6	
Cadmium	=	1.8	
Copper	=	510	
Lead	=	17	
Mercury	=	1.7	
Molybdenum	=	16	
Nickel	=	27	
Selenium	=	7.5	
Zinc	=	800	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	26	
Salmonella	<	1	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	60	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.6	
Cadmium	=	1.8	
Copper	=	510	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	17	
Mercury	=	1.7	
Nickel	=	27	
Selenium	=	7.5	
Zinc	=	800	

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)	=	38500	

	Compliance Monitoring Event No. 12	Compliance Moni	toring Peri	od Start Date:	Compliance Mon 12/31/2019	itoring Period End Date:
ı	Do you have analytical results to report for this moni	toring 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	7.3	
Cadmium	=	2.2	
Copper	=	480	
Lead	=	18	
Mercury	=	1.5	
Molybdenum	=	17	
Nickel	=	26	
Selenium	=	6.7	
Zinc	=	820	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	29	
Salmonella			F (No Sampling or Analysis Conducted - Other Reason)

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	75	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.3	
Cadmium	=	2.2	
Copper	=	480	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	18	
Mercury	=	1.5	
Nickel	=	26	
Selenium	=	6.7	
Zinc	=	820	

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)	=	39200	

ID: 008

Amount: 2007

Management Practice Detail: Distribution and Marketing - Compost

Bulk or Bag/Container: Bulk

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

NPDES ID of handler:

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

Contact Information:

McCarthy Patrick Site Manager 661-797-2914

patrickmccarthy@mccarthyfarms.com

Pathogen Class: Class A EQ

Sewage Sludge or Biosolids Pathogen Reduction Options:

• Class A-Alternative 5: PFRP 1: Composting

Sewage Sludge or Biosolids Vector Attraction Reduction Options:

- Option 1 Volatile Solids Reduction
- Option 5 Aerobic Processing (Thermophilic Aerobic Digestion/Composting)

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. The number of compliance monitoring periods reported will correspond to the required frequency of monitoring (monthly, quarterly, semi-annually). For example, if monthly monitoring is required, you should report 12 compliance monitoring periods. The required frequency is determined by the number of metric tons (dry weight basis) of sewage sludge or biosolids land applied in the reporting period for this SSUID (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: 01/01/2019	Compliance Monitoring Period End Date: 01/31/2019
Do you have analytical results to report for this me	onitoring period?	

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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	8.7	
Cadmium	=	4.5	
Copper	=	440	
Lead	=	15	
Mercury	<	1	
Molybdenum	=	23	
Nickel	=	39	
Selenium	=	20	
Zinc	=	830	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following	
Fecal Coliform	<	7.5		
Salmonella	<	3		

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	55	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	8.7	
Cadmium	=	4.5	
Copper	=	440	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	15	
Mercury	<	1	
Nickel	=	39	
Selenium	=	20	
Zinc	=	830	

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)	=	4	

Compliance Monitoring Event No. 2	Compliance Moni 02/01/2019	toring Peri	od Start Date:	Compliance Monitoring Period End Date: 02/28/2019	
Do you have analytical results to report for this mor	nitoring 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	8.2	
Cadmium	=	4.3	
Copper	=	380	
Lead	=	15	
Mercury	<	1	
Molybdenum	=	23	
Nickel	=	36	
Selenium	=	18	
Zinc	=	780	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	60	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	8.2	
Cadmium	=	4.3	
Copper	=	380	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	15	
Mercury	<	1	
Nickel	=	36	
Selenium	=	18	
Zinc	=	780	

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)	=	3.8	

Compliance Monitoring Event No. 3	Compliance Monitoring Period Sta 03/01/2019	rt Date: Compliance Monitorin	g Period End Date:
Do you have analytical results to report for this n	nonitoring period?	0	

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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	11	
Cadmium	=	4.3	
Copper	=	420	
Lead	=	19	
Mercury	<	1	
Molybdenum	=	25	
Nickel	=	41	
Selenium	=	21	
Zinc	=	800	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	55	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	11	
Cadmium	=	4.3	
Copper	=	420	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	19	
Mercury	<	1	
Nickel	=	41	
Selenium	=	21	
Zinc	=	800	

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)	=	4	

Compliance Monitoring Event No. 4	Compliance Monitoring Period Start Date: 04/01/2019		Compliance Monitoring Period End Date: 04/30/2019
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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	8.2	
Cadmium	=	4.4	
Copper	=	340	
Lead	=	16	
Mercury	<	1	
Molybdenum	=	23	
Nickel	=	35	
Selenium	=	19	
Zinc	=	690	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	58	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	8.2	
Cadmium	=	4.4	
Copper	=	340	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	16	
Mercury	<	1	
Nickel	=	35	
Selenium	=	19	
Zinc	=	690	

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)	=	3.8	

Compliance Monitoring Event No. 5	Compliance Monitoring Period Start Date: 05/01/2019		Compliance Monitoring Period End Date: 05/31/2019
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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	7.1	
Cadmium	=	4.5	
Copper	=	370	
Lead	=	16	
Mercury	=	1.1	
Molybdenum	=	22	
Nickel	=	32	
Selenium	=	16	
Zinc	=	720	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	68	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.1	
Cadmium	=	4.5	
Copper	=	370	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	16	
Mercury	=	1.1	
Nickel	=	32	
Selenium	=	16	
Zinc	=	720	

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)	=	3.9	

Compliance Monitoring Event No. 6	Compliance Monitoring Period Start Date: 06/01/2019		Compliance Monitoring Period End Date: 06/30/2019
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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	9.3	
Cadmium	=	4.8	
Copper	=	480	
Lead	=	18	
Mercury	=	0.93	
Molybdenum	=	25	
Nickel	=	43	
Selenium	=	20	
Zinc	=	830	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	63	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	9.3	
Cadmium	=	4.8	
Copper	=	480	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	18	
Mercury	=	0.93	
Nickel	=	43	
Selenium	=	20	
Zinc	=	830	

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)	=	4.1	

Compliance Monitoring Event No. 7 Compliance 07/01/2019	Monitoring Period Start Date:	Compliance Monitoring Period End Date: 07/31/2019	
Do you have analytical results to report for this monitoring period'	?		

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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	8.5	
Cadmium	=	4.4	
Copper	=	410	
Lead	=	16	
Mercury	<	1	
Molybdenum	=	24	
Nickel	=	40	
Selenium	=	20	
Zinc	=	750	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	74	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	8.5	
Cadmium	=	4.4	
Copper	=	410	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	16	
Mercury	<	1	
Nickel	=	40	
Selenium	=	20	
Zinc	=	750	

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)	=	4.4	

Compliance Monitoring Event No. 8	Compliance Monitoring Period Start Date: 08/01/2019		Compliance Monitor 08/31/2019	ring Period End Date:	
Do you have analytical results to report for this mon	itoring 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	9.6	
Cadmium	=	4.9	
Copper	=	460	
Lead	=	18	
Mercury	=	0.9	
Molybdenum	=	27	
Nickel	=	41	
Selenium	=	21	
Zinc	=	890	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	65	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	9.6	
Cadmium	=	4.9	
Copper	=	460	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	18	
Mercury	=	0.9	
Nickel	=	41	
Selenium	=	21	
Zinc	=	890	

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)	=	4.4	

Compliance Monitoring Event No. 9	Compliance Monitoring Period Start Date: 09/01/2019	Compliance Monitoring Period End Date: 09/30/2019
Do you have analytical results to report for this me	onitoring period?	

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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	9.2	
Cadmium	=	2.5	
Copper	=	430	
Lead	=	20	
Mercury	=	0.94	
Molybdenum	=	26	
Nickel	=	43	
Selenium	=	20	
Zinc	=	790	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	41	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	9.2	
Cadmium	=	2.5	
Copper	=	430	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	20	
Mercury	=	0.94	
Nickel	=	43	
Selenium	=	20	
Zinc	=	790	

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)	=	4	

Compliance Monitoring Event No. 10	Compliance Monitoring Period Start Date: 10/01/2019		Compliance Monitoring Period End Date: 10/31/2019
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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	13	
Cadmium	=	8	
Copper	=	9.2	
Lead	=	28	
Mercury	<	1	
Molybdenum	=	41	
Nickel	=	64	
Selenium	=	32	
Zinc	=	1200	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	64	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	13	
Cadmium	=	8	
Copper	=	9.2	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	28	
Mercury	<	1	
Nickel	=	64	
Selenium	=	32	
Zinc	=	1200	

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)	=	4.4	

Compliance Monitoring Ev	rent No. 11 Complia 11/01/20	nce Monitoring Period Start Date:	Compliance Monitoring Period E 11/30/2019	nd Date:
Do you have analytical res	ults to report for this monitoring pe	iod?		

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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	8.8	
Cadmium	=	4.6	
Copper	=	460	
Lead	=	16	
Mercury	<	1	
Molybdenum	=	26	
Nickel	=	39	
Selenium	=	18	
Zinc	=	860	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	60	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	8.8	
Cadmium	=	4.6	
Copper	=	460	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	16	
Mercury	<	1	
Nickel	=	39	
Selenium	=	18	
Zinc	=	860	

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)	=	4.4	

•	Compliance Monitoring Event No. 12	Compliance Monit	toring Peri	od Start Date:	Compliance N 12/31/2019	Ionitoring Period End Date:
[Do you have analytical results to report for this moni	toring 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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	7.5	
Cadmium	=	3.3	
Copper	=	470	
Lead	=	14	
Mercury	<	1	
Molybdenum	=	20	
Nickel	=	36	
Selenium	=	15	
Zinc	=	780	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	75	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	7.5	
Cadmium	=	3.3	
Copper	=	470	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	14	
Mercury	<	1	
Nickel	=	36	
Selenium	=	15	
Zinc	=	780	

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)	=	4.1	

ID: 010

Amount: 1908.9

Management Practice Detail: Distribution and Marketing - Compost

Bulk or Bag/Container: Bulk

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

Contact Information:

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

Pathogen Class: Class A EQ

Sewage Sludge or Biosolids Pathogen Reduction Options:

• Class A-Alternative 5: PFRP 1: Composting

Sewage Sludge or Biosolids Vector Attraction Reduction Options:

- Option 1 Volatile Solids Reduction
- Option 5 Aerobic Processing (Thermophilic Aerobic Digestion/Composting)

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. The number of compliance monitoring periods reported will correspond to the required frequency of monitoring (monthly, quarterly, semi-annually). For example, if monthly monitoring is required, you should report 12 compliance monitoring periods. The required frequency is determined by the number of metric tons (dry weight basis) of sewage sludge or biosolids land applied in the reporting period for this SSUID (40 CFR 503.16 (http://www.ecfr.gov/cgi-bin/text-idx? node=pt40.32.503&rgn=div5#se40.32.503_116)).

,	Compliance Monitoring Period Start Date: 01/01/2019	Compliance Monitoring Period End Date: 01/31/2019
Do you have analytical results to report for this monito	ring 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	4.3	
Cadmium	=	3.2	
Copper	=	270	
Lead	=	11	
Mercury	<	1	
Molybdenum	=	15	
Nickel	=	27	
Selenium	=	17	
Zinc	=	620	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	55	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	4.2	
Cadmium	=	3	
Copper	=	245	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	9.8	
Mercury	<	1	
Nickel	=	25	
Selenium	=	14	
Zinc	=	535	

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)	=	3	

Compliance Monitoring Event No. 2 Compliance Mo2/01/2019	Monitoring Period Start Date:	Compliance Monitoring Period End Date: 02/28/2019	
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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	5.2	
Cadmium	=	2.7	
Copper	=	210	
Lead	=	12	
Mercury	<	1	
Molybdenum	=	14	
Nickel	=	24	
Selenium	=	13	
Zinc	=	480	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	=	11	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	60	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	5.2	
Cadmium	=	2.7	
Copper	=	210	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	12	
Mercury	<	1	
Nickel	=	24	
Selenium	=	13	
Zinc	=	480	

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)	=	3.6	

EPA Biosolids 2/19/2020

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Compliance Monitoring Event No. 3 Compliance Mo		onitoring Period Start Date:	Compliance Monitoring Period End Date: 03/31/2019	
	Do you have analytical results to report for this monitoring period?	ঔ 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	6.7	
Cadmium	=	2.7	
Copper	=	260	
Lead	=	17	
Mercury	<	1	
Molybdenum	=	15	
Nickel	=	8	
Selenium	=	15	
Zinc	=	550	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	=	220	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	55	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	6.7	
Cadmium	=	2.7	
Copper	=	260	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	17	
Mercury	<	1	
Nickel	=	8	
Selenium	=	15	
Zinc	=	550	

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)	=	3.2	

Compliance Monitoring Event No. 4	Compliance Monitoring Period Start Date: 04/01/2019		Compliance Monitoring Period End Date: 04/30/2019
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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	5.5	
Cadmium	=	2.9	
Copper	=	260	
Lead	=	17	
Mercury	<	1	
Molybdenum	=	12	
Nickel	=	28	
Selenium	=	13	
Zinc	=	580	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	=	65	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	58	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	4.9	
Cadmium	=	2.6	
Copper	=	235	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	14	
Mercury	<	1	
Nickel	=	26	
Selenium	=	11	
Zinc	=	515	

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)	=	3	

Compliance Monitoring Event No. 5	Compliance Monitoring Period Start Date: 05/01/2019		Compliance Monitoring Period End Date: 05/31/2019
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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	5.4	
Cadmium	=	3.1	
Copper	=	250	
Lead	=	14	
Mercury	<	1	
Molybdenum	=	14	
Nickel	=	25	
Selenium	=	14	
Zinc	=	620	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	68	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	5.4	
Cadmium	=	3.1	
Copper	=	250	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	14	
Mercury	<	1	
Nickel	=	25	
Selenium	=	14	
Zinc	=	620	

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)	=	3.5	

Compliance Monitoring Event No. 6	Compliance Mon 06/01/2019	itoring Period Start Date:	Compliance Monitoring Period End Date: 06/30/2019
Do you have analytical results to report for this	s 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	5.4	
Cadmium	=	2.5	
Copper	=	270	
Lead	=	15	
Mercury	<	1	
Molybdenum	=	13	
Nickel	=	25	
Selenium	=	10	
Zinc	=	710	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	63	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	5.4	
Cadmium	=	2.5	
Copper	=	270	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	15	
Mercury	<	1	
Nickel	=	25	
Selenium	=	10	
Zinc	=	710	

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)	=	3.5	

Compliance Monitoring Event No. 7	Compliance Monitoring Period Start Date: 07/01/2019	Compliance Monitoring Period End Date: 07/31/2019
Do you have analytical results to report for this mo	nitoring period?	

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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	5.1	
Cadmium	=	2.3	
Copper	=	250	
Lead	=	14	
Mercury	<	1	
Molybdenum	=	14	
Nickel	=	23	
Selenium	=	12	
Zinc	=	530	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	74	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	5.1	
Cadmium	=	2.3	
Copper	=	250	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	14	
Mercury	<	1	
Nickel	=	23	
Selenium	=	12	
Zinc	=	530	

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)	=	3.2	

Compliance Monitoring Event No. 8	Compliance Monitoring Period Start Date: 08/01/2019	: Compliance Monitoring Period End Date: 08/31/2019
Do you have analytical results to report for this mo	nitoring period?	

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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	4	
Cadmium	=	2.2	
Copper	=	46	
Lead	=	14	
Mercury	<	1	
Molybdenum	=	13	
Nickel	=	23	
Selenium	=	11	
Zinc	=	600	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	65	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	4	
Cadmium	=	2.2	
Copper	=	46	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	14	
Mercury	<	1	
Nickel	=	23	
Selenium	=	11	
Zinc	=	600	

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)	=	3.4	

Compliance Monitoring Event No. 9	Compliance Monitoring Period Start Date: 09/01/2019		Compliance Monitoring Period End Date: 09/30/2019
Do you have analytical results to report for this	s 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	5.9	
Cadmium	=	3.2	
Copper	=	390	
Lead	=	21	
Mercury	=	0.91	
Molybdenum	=	16	
Nickel	=	34	
Selenium	=	15	
Zinc	=	660	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	41	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	5.9	
Cadmium	=	3.2	
Copper	=	390	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	21	
Mercury	=	0.91	
Nickel	=	34	
Selenium	=	15	
Zinc	=	660	

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)	=	3.4	

Compliance Monitoring Event No. 10	Compliance Monitoring Period Start Date: 10/01/2019		Start Date:	Compliance Monitoring Period End Date: 10/31/2019	
Do you have analytical results to report for this n	nonitoring 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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	4.4	
Cadmium	=	2.6	
Copper	=	230	
Lead	=	16	
Mercury	<	1	
Molybdenum	=	15	
Nickel	=	23	
Selenium	=	12	
Zinc	=	510	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	64	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	4.4	
Cadmium	=	2.6	
Copper	=	230	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	16	
Mercury	<	1	
Nickel	=	23	
Selenium	=	12	
Zinc	=	510	

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)	=	4	

Compliance Monitoring Event No. 11	Compliance Monitoring Period Start Date 11/01/2019	e: Compliance Monitoring Period End Date: 11/30/2019
Do you have analytical results to report for this m	nonitoring period?	

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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	4.4	
Cadmium	=	2.2	
Copper	=	230	
Lead	=	21	
Mercury	<	1	
Molybdenum	=	15	
Nickel	=	24	
Selenium	=	12	
Zinc	=	240	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	60	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	4.4	
Cadmium	=	2.2	
Copper	=	230	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	21	
Mercury	<	1	
Nickel	=	24	
Selenium	=	12	
Zinc	=	240	

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)	=	3.5	

,	Compliance Monitoring Period Start Date: 12/01/2019	Compliance Monitoring Period End Date: 12/31/2019
Do you have analytical results to report for this monito	ring period?	

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.1

☐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 $ceiling \ concentration \ limits \ in \ Table \ 1 \ of \ 40 \ CFR \ 503.13 \ (http://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503\&rgn=div5\#se40.32.503_113) \ to \ identify \ density \ for \ respect to \ respec$ 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)	If No Data, Select One Of The Following
Arsenic	=	5.5	
Cadmium	=	2.3	
Copper	=	230	
Lead	=	13	
Mercury	<	1	
Molybdenum	=	16	
Nickel	=	25	
Selenium	=	14	
Zinc	=	550	

Pathogen And Vector Attraction Reduction

Report the pathogen densities in the sewage sludge or biosolids that was applied to land during the reporting year for this SSUID. Please report the maximum pathogen density for Class A sewage sludge or biosolids. When using the Class B - Alternative 1 management option, please report the geometric mean of the density of fecal coliform in Class B sewage sludge or biosolids [see 40 CFR 503.32(b)(2)].

Sewage Sludge or Biosolids Parameter	Value Qualifier	Value	If No Data, Select One Of The Following
Fecal Coliform	<	7.5	
Salmonella	<	3	

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	Value Qualifier	Value	If No Data, Select One Of The Following
Solids, total volatile percent removal	=	75	

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Arsenic	=	5.5	
Cadmium	=	2.3	
Copper	=	230	

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis)	If No Data, Select One Of The Following
Lead	=	13	
Mercury	<	1	
Nickel	=	25	
Selenium	=	14	
Zinc	=	550	

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)	=	3.4	

Sludge Management - Surface Disposal	
Sludge Management - Incineration	
Sludge Management - Other Management Practice	

Additional Information

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

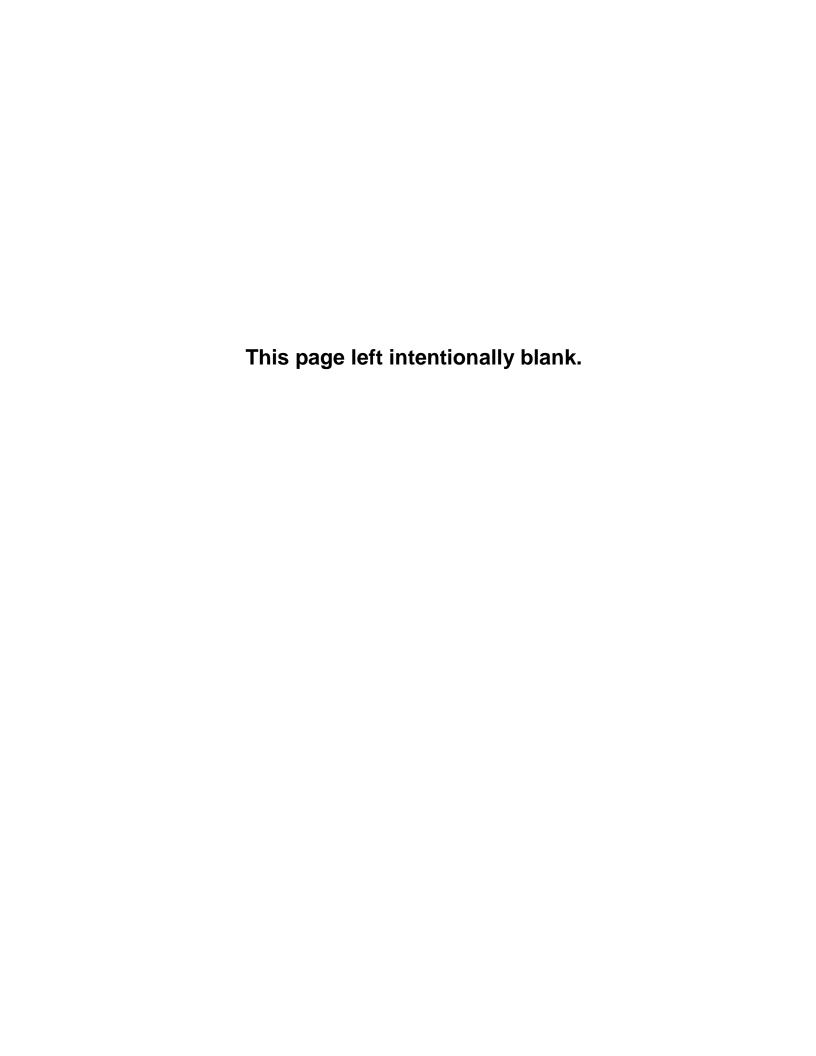
OCSD is attaching an abbreviated, electronic version of our annual biosolids compliance report because the file size is much larger than EPA's database limit of 3MB. The comprehensive report is available at www.ocsd.com/503. Monthly compliance reports are posted to www.ocsd.com/nani and low resolution versions are attached. Appendix A in the comprehensive report contains the certified monthly compliance reports that contain OCSD data that was uploaded to the EPA database. OCSD's contractors emailed data that was consolidated and uploaded to the EPA's database. Appendix C in the comprehensive report contains OCSD's Clean Water Act section 307(a) pollutant data required by our NPDES permit. Regarding SSIUD003, Compliance Monitoring Event 12, Salmonella No Sampling Code F: • The 503 regulations require either the density of fecal coliforms in the sewage sludge be less than 1,000 MPN per gram total solids (dry weight basis) or the density of Salmonella sp. bacteria in the sewage be less than 3 MPN per 4 grams of total solids (dry weight basis). • OCSD's composting contractor, Synagro Arizona Soils, normally samples for salmonella and fecal coliforms each month. In December 2019, the compost pile they tested for salmonella and fecal coliforms had normal salmonella, but elevated fecal coliforms. As a result, they restarted the pile, but did not retest the salmonella so there is no salmonella data for December. However, it is not required by 503 regulations, but the database requires a data code for both fecal coliform and salmonella.

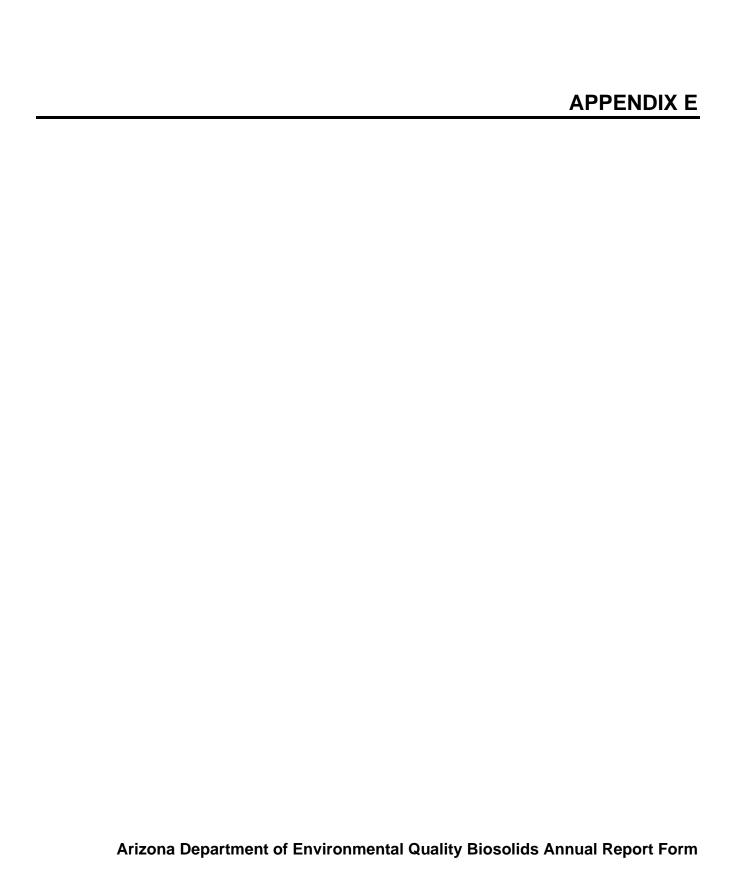
Additional Attachments

Name	Created Date	Size
2019_NANIs_scanned LOW RES - 01JAN-06JUN.pdf	02/19/2020 10:53 AM	2.96 MB
2019_NANIs_scanned LOW RES - 07JULrev-12DEC.pdf	02/19/2020 10:54 AM	2.76 MB
2019_Biosolids_503_Annual_Report - EPA Abbreviated less than 3MB - REDO 2.pdf	02/18/2020 2:23 PM	2.09 MB

Certification Information

Form has not been certified yet.







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

	ators) and Land Applicators Must complete the following.
orting Start Date:1/1/2019 Reporting End Date: 12/31/2019	
Date: 2/5/2019	AZPDES Permit # (if applicable):Click here to enter text.
Company name (Preparer / Applicator): Orange County 9	Sanitation District, Plant No. 1 and Plant No. 2
Contact Name: Ron Coss	Title: Laboratory, Monitoring and Compliance Manager
Address: 10844 Ellis Ave., Fountain Valley, CA 92708	
Phone: 714-593-7508	E-mail: rcoss@ocsd.com
Please select one of the following options pertaining to yo	our obligation to submit a Biosolids Annual Report. My facility is a:
oximes POTW with a design flow equal to or greater than 1 MG	GD Per Day
☑ POTW that serves 10,000 people or more	
☐ Class I Sludge Management Facility as defined by 40 CFI	R 503.9
☐ Biosolids Applicator (Complete Section 5 only)	
□Other Click here to enter text.	
What is the estimated total of volume of biosolids or sewa	age sludge generated at your facility (in dry metric tons)?
52,003	
Were all biosolids removed from your facility sent to a land	dfill for disposal? No
If you provide the name and address of the landfill(a) cital	k here to enter text.
If yes, provide the name and address of the landfill(s). Click	
If all biosolids or sewage sludge was sent to a landfill	
If all biosolids or sewage sludge was sent to a landfill this form, as it is only applicable to facilities preparing	scriptions, have been made under my direction and supervision and under a system e the information used to determine whether the applicable biosolids requirements

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
	\square 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)
	\Box 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.

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 Preparer							
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.	20,309						
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.						

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

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

Parameter	Method Number or Author	Results (if tested)	Comments (required if other)
Pathogens			
Ascaris ova.	No Analytical Method Used	Click here to enter text.	Click here to enter text.
Fecal Coliform	No Analytical Methods Used	Click here to enter text.	Click here to enter text.
Helminth ova.	No Analytical Methods Used	Click here to enter text.	Click here to enter text.
Salmonella sp. Bacteria	No Analytical Methods Used	Click here to enter text.	Click here to enter text.
Total Cultural Viruses	No Analytical Methods Used	Click here to enter text.	Click here to enter text.
Metals Arsenic	EPA Method 6010 - Arsenic (ICP-OES)	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.

Beryllium	Other Beryllium Analytical Method	See attached OCSD Biosolids Management Compliance Report, Appendix C.	EPA Method 6010 - Beryllium
Cadmium	EPA Method 6010 - Cadmium (ICP-OES)	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Chromium	EPA Method 6010 - Chromium (ICP-OES)	See attached OCSD Biosolids Management Compliance Report, appendices A and C.	Click here to enter text.
Copper	EPA Method 6010 - Copper (ICP-OES)	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Lead	EPA Method 6010 - Lead (ICP-OES)	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Mercury	EPA Method 7471 - Mercury (CVAA)	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Molybdenum	EPA Method 6010 - Molybdenum (ICP- OES)	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Nickel	EPA Method 6010 - Nickel (ICP-OES)	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Selenium	EPA Method 6010 - Selenium (ICP-OES)	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Zinc	EPA Method 6010 - Zinc (ICP-OES)	See attached OCSD 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 OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Nitrate Nitrogen	Other Nitrate Nitrogen Analytical Method	See attached OCSD Biosolids Management Compliance	EPA 300.0

		Report, Appendices A, C, and D.	
Nitrogen	Standard Method 4500-N - Nitrogen	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Organic Nitrogen	Other Organic Nitrogen Analytical Method	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	Calculation
Total Kjeldahl Nitrogen	EPA Method 351.2 - Total Kjeldahl Nitrogen	See attached OCSD 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.	Click here to enter text.
Paint Filter Test	No Analytical Method Used	Click here to enter text.	Click here to enter text.
рН	EPA Method 9045 - pH (> 7% solids)	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Specific Oxygen Uptake Rate	Choose an item.	Click here to enter text.	Click here to enter text.
TCLP	EPA Method 1311 - Toxicity Characteristic Leaching Procedure	See attached OCSD Biosolids Management Compliance Report, Appendix C.	Click here to enter text.
Temperature	No Analytical Method Used	See attached OCSD Biosolids Management Compliance Report, Appendix A.	Click here to enter text.
Total Solids	Standard Method 2540 - Total Solids	See attached OCSD Biosolids Management Compliance Report, Appendices A, C, and D.	Click here to enter text.
Volatile Solids	Standard Method 2540 - Volatile Solids	See attached OCSD Biosolids Management Compliance Report, Appendix A and D.	Click here to enter text.
No Analytical Methods Used	Choose an item.	Click here to enter text.	Click here to enter text.

ADEQ Arizona Department of Environmental Quality

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

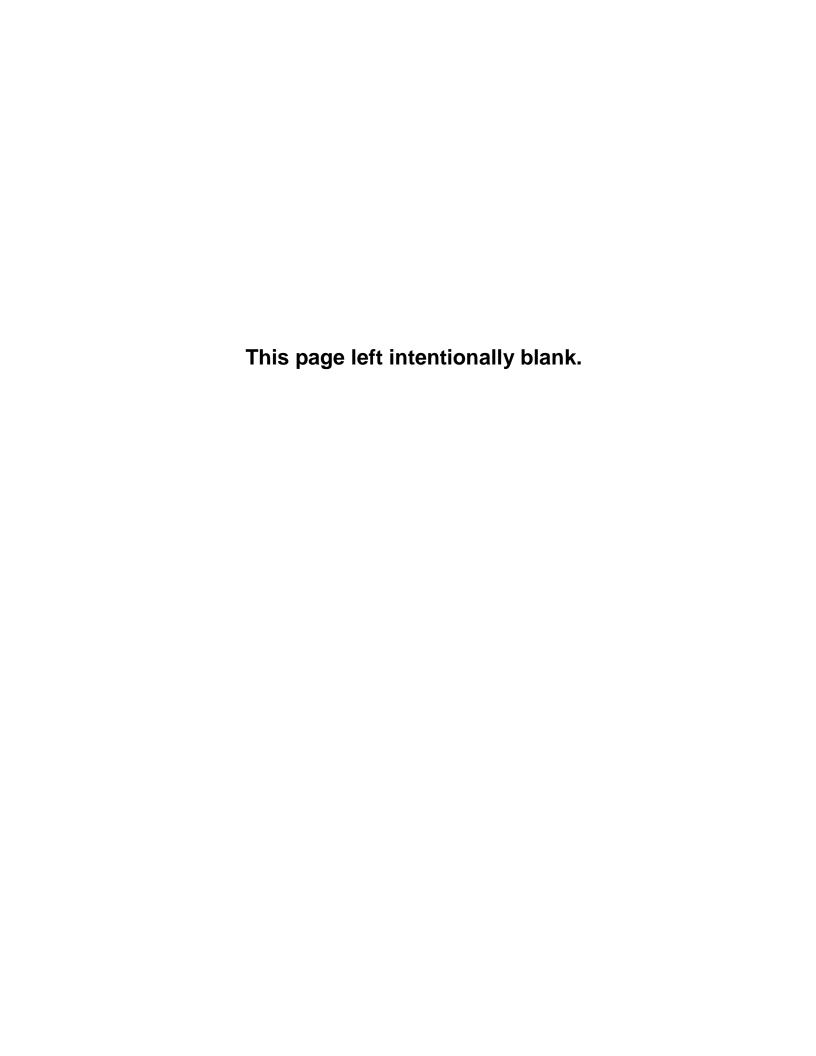
AZPDES Individual Permits Unit 1110 W Washington Street Phoenix, Arizona 85007 (602) 771-4689 (voicemail) (602) 771-4505 (fax)

Email to: biosolids@azdeq.gov

enter text. here to enter text. Lo enter text. here to enter text. h	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 <u>Cumulative</u> Concentration of Pollutants (kilograms per hectare) in Soil				
enter text. here to enter text. Click here to enter text. Enter tex	ABC Farms,	1A	350 tons		Class B Alt. 2	Option 9			Corn						
2. Click here to enter text.		here to enter		to enter			to enter				here to enter text. Hg=Click here to enter	here to enter text. Mo=Click here to enter	here to enter text. Ni=Click here to enter	text. Se=Click here to enter	Pb=Click here to enter text. Zn=Click here to enter text.
		here to enter		to enter			to enter				As=Click here to enter text. Hg=Click here to enter	Cd=Click here to enter text. Mo=Click here to enter	Cr=Click here to enter text. Ni=Click here to enter	Cu=Click here to enter text. Se=Click here to enter	Pb=Click here to enter text. Zn=Click here to enter text.

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



The history of OCSD's Biosolids Program is important to understand as we plan for the future. In order to maintain the integrity of this information for future generations, the historical information is maintained in this appendix.

Program History

- In 1971, OCSD entered into a long-term contract with Goldenwest Fertilizer
 Co., Inc., a local fertilizer manufacturer, who hauled and composted the
 sludge off site. OCSD maintained contracts with Goldenwest Fertilizer Co. for
 several years until the firm lost their land lease for their composting operation
 in 1979. Contracts with other composting companies were also used during
 the 1970s.
- In 1978, after notification that their contract with Goldenwest Fertilizer Co. would be ending in 1979, OCSD presented a proposal to the County of Orange to co-dispose sludge with municipal solid waste at Orange County landfills. Following approval by Orange County and the California Regional Water Quality Control Board, Santa Ana Region (CRWQCB): OCSD established an air drying/composting site at Coyote Canyon landfill. OCSD used this site as a sludge-drying operation until 1981 when it was converted to an open-air composting facility. This was done to reduce odors and dry the sludge to the required 50% solids content prior to being blended with municipal solid waste.
- The 50% solids requirement was set by the CRWQCB, by Order No. 79-55. In December 1982, the requirements were modified by Order No. 82-299. The new order reduced the required average solids content to 22.5%. In addition to the solids content requirements, the volume of refuse to sludge incorporated into the landfill was required to be a 10:1 ratio. After the new Order was issued and the treatment plant belt press dewatering system was installed, the air drying process was no longer needed and its operation was discontinued.
- In 1974, OCSD began a cooperative regional sludge management study with the City of Los Angeles, the Los Angeles County Sanitation Districts, the Environmental Protection Agency (EPA), and the CRWQCB. By a joint powers agreement, the Regional Wastewater Solids Management Program' for the Los Angeles/Orange County Metropolitan Area (LA/OMA Project) had a separate staff and budget to develop a long-term solids reuse or disposal plan, including an implementation strategy for the Los Angeles/Orange County metropolitan areas. This extensive, six-year, \$4.0 million study, which covered all aspects -of sludge processing and disposal, was completed in 1980. The conclusion was that each of the three entities would carry out its own sludge management program. For OCSD, land-based disposal and beneficial reuse were the study's preferred alternatives.

However, co-combustion and enclosed mechanical in-vessel composting alternatives at OCSD's Reclamation Plant No. 1 were added to OCSD's LA/OMA supplemental study when the recommended composting facilities were evaluated as being difficult to site.

- In 1978 and 1983, OCSD brought activated sludge facilities online at Plant No. 1 and Plant No. 2 respectively, which led to significant improvements of ocean water quality. By 1984, OCSD had replaced centrifuges that dewatered to about 20% with new belt presses at both plants. The new belt presses had to dewater to at least 22.5% in order to meet landfill requirements. As a result, waste activated secondary sludges were dewatered separately and sent to a private landfill. Clean Water Grant Funds aided in the construction of the important facilities improvements at Plant No. 2 including the activated sludge plant (\$45 million) and sludge handling/process facilities (\$30 million).
- In November 1983, OCSD's Boards of Directors submitted a new Residual, Solids Management Plan to the EPA. The plan included both short- and long-tern compliance strategies. The short-term compliance plan involved the continued practice of trucking 22.5% solids to Coyote Canyon landfill for co-disposal with municipal waste until the landfill closed in March 1990. It also included hauling sludge to private landfills using OCSD's trucks or private contractors. The long-term plan included co-disposal at county landfills and off-site reuse/management by private contractors.
- In November 1984, OCSD approved an interim sludge disposal program due
 to the limitation of the amount of sludge this could be co-disposed at Coyote
 Canyon. As part of this program, an agreement was made with BKK
 Corporation to take the balance of the sludge to the BKK-owned and operated
 in West Covina (Los Angeles County). This contract expired in late 1991.
- In 1987, OCSD began a facilities master planning effort that culminated in July 1989. The 1989 30-year master plan, "2020 Vision," established 11 major objectives for maintaining our excellent record of environmental and public health protection including, "Sludge Reuse: OCSD will continue to promote multiple, beneficial reuse alternatives for sludge and strive to increase beneficial reuse from 60% to 100%. We will develop at least one in-county land disposal alternative as a backup to guarantee long-term reliability." The goals are summarized below:
 - Continue discussions with the County of Orange pertaining to landfill ·codisposal options;
 - Pursue co-disposal options at out-of county landfills;
 - Continue and/or expand use of private contracts to reuse or dispose of sludge;
 - Pursue with Orange County Environmental Management Agency staff the use of sludge as the final cover for Coyote canyon's closure;

- Monitor the status of the proposed co-compost pilot project at Prima Deshecha landfill;
- Initiate a regular status review of OCSD management program that would provide centralized information in one location; and
- Hire a full-time sludge manager to coordinate OCSD' overall sludge reuse/disposal program (completed in August of 1989).
- The goals noted above led to a series of new recycling options starting in in 1988 using three separate contractors. Two contracts were created with compost contractors, and one was created with an agricultural land fertilization contractor. Using these three contractors, OCSD recycled about 50% of their sludge from 1988-1991.
- 1990: About 50% of the sludge is processed into compost by L. Curti Trµck & Equipment and by Recyc; Inc., or applied directly to agricultural land by Pima Gro Systems, Inc. The remaining 50% of the sludge is disposed in the BKK landfill in Los Angeles County. The dewatered sludge is hauled to the landfill and directly incorporated with municipal solid waste in conformance with operating requirements of the Regional Water Quality Control Board, Los Angeles.

Prior to March of 1990, landfill co-disposal was available at the Coyote Canyon landfill in Orange County and the BKK landfill. During this period 14% of the Districts' sludge went to Coyote Canyon and 36% went to BKK.

- On June 24, 1991 a new solids handling storage facility (truck loading) was
 placed in service. Plant No. 1 Belt Press Dewatering Building M was placed in
 service in February 1983. Belt Press Dewatering Building C was placed in
 service in October 1988. By 2018, the belt presses will be replaced by
 centrifuges, the DAFTs will be replaced by thickening centrifuges, and truck
 loading will be rehabilitated.
- Beginning in Beginning in November 1991, the Districts' Biosolids Management Program achieved a milestone of 100% beneficial reuse. Beneficial reuse allows the Districts to lower its management costs and eliminate the need to take up valuable landfill space. The program consisted of compost, direct land application, and a standby agreement to landfill the biosolids in the event of an emergency. Further benefits of switching to beneficial reuse was been a reduction in disposal costs. Beneficial reuse costed the Districts less than landfilling and was expected to become even more cost effective in the future as the market for compost material grows. About 73% of the biosolids are processed into compost by Pima Gro Systems, Inc. at the Riverside Recyc compost facility. The remaining 23% is applied directly to agricultural land by Ag Tech Company in Yuma, Arizona.
- During 1993-94, only one biosolids contractor was used to haul and manage the OCSD's biosolids produced by Plant No. 1. Pima Gro Systems, Inc.

hauled the biosolids to the Recyc processing site in Riverside County where it was composted. The biosolids based compost was then sold to nearby farmers as a nutrient rich soil amendment and fertilizer.

- In late 1994, the Ag Tech Company was contracted to use OCSD biosolids to enhance agricultural soils, reduce the amount of irrigation water needed, and provide a much needed source of organic humus. The biosolids were injected 6 inches to 15 inches beneath the surface (in the root zone) within hours of their arrival to permitted farm lands.
- In June 1995, Bio Gro, a division of Wheelabrator Clean Water Systems, Inc., was added as a biosolids contractor. Biosolids were recycled on agricultural land in Riverside County. Pima Gro used commercial fertilizer spreaders to distribute the biosolids prior to incorporation on agricultural land in Kern County, California.
- In March 1996, Tule Ranch was added as a biosolids contractor. Pima Gro was still recycling biosolids in Kern County, California, and Bio Gro was recycling biosolids in Riverside. No composting was reported.
- In 1997, continued 100% beneficial reuse with all biosolids recycled via direct land application in Kern, Riverside, and San Diego counties.

The Districts also entered into a one-year pilot project contract with Waste Conversion Industries, Inc. (WCI) to chemically treat and heat dry the Districts' biosolids at their Corona, California site. Due to mechanical difficulties, WCI was not able to process any of the Districts' biosolids.

During fiscal year 1996-97, the Districts' biosolids management cost was reduced by approximately \$1 million from that of fiscal year 1995-96. New and amended biosolids management contracts as well increased efficiency in the Districts' belt operation contributed to the decrease in biosolids management costs. Upon the expiration of the Ag Tech contract and the termination of the Hondo contract, the Districts maintained only two active biosolids management contractors, Bio Gro and Pima Gro. In August 1996, having only two active biosolids management contractors, and receiving numerous unsolicited lower cost biosolids management proposals Districts' staff prepared and issued a Request for Proposals for Biosolids Management (RFP). The RFP was necessary in order to increase biosolids management diversity and reliability while decreasing costs. Eight biosolids management firms submitted proposals. Bio Gro proposed to maintain their existing contract, but unilaterally offered a pricing amendment, while Pima Gro submitted a new proposal that provided the Districts with the option of accepting the entire proposal or modify the pricing structure of the existing contract.

After extensive review and ranking of the proposals by staff, new contracts were offered to Tule Ranch and Waste Conversion Industries, Inc., while Bio Gro's and Pima Gro's existing contracts were amended to reflect their new price schedules.

- In 1998 through 2000, continued 100% beneficial reuse with all biosolids recycled via direct land application in Kern, Kings, San Diego and Riverside counties. Pima Gro, Bio Gro, and Tule Ranch were OCSD's biosolids contractors. Small amounts of biosolids were composted at Pimo Gro's Riverside composting facility, Bio Gro's Arizona Soils facility in La Paz County, Arizona, and by Pima Gro for a UCR Extension research project in Imperial County.
- In June 2000, OCSD purchased 1,800 acres of Tule Ranch's farm in Kings County, California, to provide a reliable, long-term site for treatment and land application of biosolids. Tule Ranch contracted to manage OCSD's biosolids its farm at a reduced cost per ton.
- In 2001, Synagro purchased Pima Gro and Bio Gro, and OCSD added Yakima as a contractor. One-hundred percent beneficial reuse via direct land application in Kern, Kings, San Diego, and Riverside. Synagro also recycled biosolids to tribal land farms in San Bernardino County, California. Small amounts were composted in Riverside and tribal land.

In 2001, Riverside County issued an ordinance that banned the use of Class B biosolids for land application but allowed limited use of Class A biosolids. In 2003, the restrictions were expanded to address nuisance problems related to Class A biosolids. Kern County's Class A requirement (Class B ban) went into effect in early 2002, and King's County followed in 2003 with only composted biosolids allowed after 2006.

- In 2002, as staff began work on a large-scale long-range biosolids management plan and contentious local county Class B land application bans were on the rise, OCSD began increasing diversification away from land application and added more composting in Riverside County. Biosolids were also recycled on Fort Mohave tribal land in Mohave County, Arizona and Clark County, Nevada.
- October 28, 2002 Yakima Co. began operations at their new biosolids management site in La Paz County, Arizona. The operation involved biosolids air drying to achieve material greater than 50% total solids and use as alternative daily cover at La Paz Landfill. A total of 4,628.09 wet tons (881.7 dry metric tons) of biosolids were managed through this process through 2002. This amount represents about 2% of the total District's biosolids material beneficially reused in land application operations during 2002. The District discontinued its use of the Yakima Co. for management of its biosolids in early January 2003. The facility was later shut-down by the County of La

Paz and a lawsuit was won against the County by Yakima for \$9.2 million in damages.

- In 2002, OCSD's Board of Directors voted to increase the level of treatment to full-secondary treatment requirements, which produced significantly more biosolids, especially between 2002 to 2005, until the new dewatering centrifuges could be constructed and implemented at each plant (2018-2020). OCSD's focus through the 2000's was on building the water-side capital facilities to meet this increased level of service.
- In 2003, OCSD continued to encourage contractors to diversify its biosolids options, especially in Arizona and Nevada. OCSD started using Arizona Soils in La Paz County, Arizona on a regular basis. OCSD additionally piloted Tule Ranch's subcontractor, Universal, to utilize farms in Wellton and Dateland, Arizona for land application of about 6% of OCSD's biosolids. Tule Ranch's Class A lime stabilization process was started in order to continue recycling biosolids in Kern and Kings Counties. A small amount of biosolids was used in Maricopa County, Arizona.

In addition, OCSD started using Solid Solutions to recycle biosolids in Nye County, Nevada to further diversify the biosolids management program. Solid Solutions was a subcontractor to California Soils Products who had a 2002 contract with OCSD to render biosolids into a treated soil product.

By March 2004, OCSD pulled out of Nye because of a hearing with complaints from affected neighbors, local competition with dairy manure, and a letter from Nevada congressional representative, Harry Reid, whose brother was a local resident. This episode also captured the attention of the 2003-04 Orange County Grand Jury who performed an investigative study and published a report: http://www.ocgrandjury.org/pdfs/biosolids.pdf.

OCSD concluded its use of Solid Solutions in 2005 when it was clear that the Soil Products facility would not materialize.

- In December 2003, OCSD finalized a Long Range Biosolids Management Plan that set forth the following recommendations to ensure a sustainable biosolids management program. These recommendations were implemented over the following decade.
 - Maintain at least three different product-manufacturing options at any given time.
 - Optimize capital and operations and maintenance (O&M) costs at OCSD's treatment plants as part of implementation of the long-range plan.
 - Limit maximum participation for any market to one-half of the total biosolids production.

- Limit biosolids management contracts to a maximum of one-third of total biosolids production per merchant facility, and one-half per contractor (for contractors with multiple product manufacturing facilities).
- For each OCSD-owned product manufacturing facility, limit the size to one-half of the total biosolids production.
- Explore funding options for in-county facilities (private capital, OCSD capital, or both).
- Allocate up to 10 percent of biosolids for participation in emerging markets.
- Pursue Orange County-based product manufacturing facilities and maximize the use of horticultural products within the OCSD service area by member agencies and through developing public-private partnerships.
- o Maintain capacity and options at OCSD's Central Valley Ranch.
- Pursue failsafe backup options (landfilling, alternative daily cover for landfills, and dedicated landfilling) to acquire a 100 percent contingency capacity.
- From November 1991 through December 2004, OCSD achieved 100
 percent beneficial reuse of its biosolids mostly through the use of land
 application with some composting.
- In 2004, OCSD started ramping up the land application in Arizona through Tule Ranch's Dateland operation, from about 10% in 2003 to 20% in 2004.
 OCSD also ramped up it's use of compost sites in California and Arizona from about 7% in 2003 to 20% in 2004.
- In January 2005 and 2006, OCSD sent a small fraction of its biosolids to two landfills in Arizona (Copper Mountain and South Yuma County Landfill) in order to increase the diversity of its biosolids management options, as well as address the operational needs caused by wet weather periods. The routes to these two landfills were not impacted by severe weather.
- Starting in 2006, Synagro eliminated their last remaining OCSD land application (Maricopa County), as fuel prices hit record highs, and focused on composting services.
 - On December 27, 2006, Synagro's new composting facility (South Kern Compost Manufacturing Facility) came online. This was the first long-term contract to become operational as an outcome of the 2003 Long-Range Biosolids Management Plan.
- In 2007, with OCSD's contract that guaranteed at least 250 tons per day to Synagro's new facility, OCSD's biosolids allocation to compost facilities expanded to its current level of about 50% of its total biosolids production. These facilities have extensive permitting and regulatory oversight and reporting, improved public outreach with neighbors and local communities, and have more air quality and odor process controls. Today's framework is

more sophisticated than what was in place two decades ago.

Land application was also allocated about 50% of OCSD's portfolio with half of that as lime-stabilized Class A in Kern County and half as Class B in Yuma County, Arizona.

- In March 2007, OCSD stopped actively using landfills and maintained this
 option only as a failsafe backup. OCSD re-gained its 100 percent recycling
 performance from 2008 through 2012 (excluding some digester cleanings).
- In August 2007, the Orange County Water District's (OCWD) Advanced Water Purification Facility, later called the Ground Water Replenishment System (GWRS), started taking an average of 30 MGD of Plant No. 1's secondary treated water to test their facility in purifying the water to meet drinking water standards. OCWD uses microfiltration and reverse osmosis. The water is used as a barrier for salt water intrusion and to recharge groundwater basins starting in January 2008. About 100 MGD of OCSD's secondary effluent produced about 70 MGD of purified water for reuse. Secondary effluent not sent to OCSD is sent as usual to Plant No. 2 to blend with treated wastewater from Plant No. 2 prior to ocean discharge through OCSD's 120-inch, 5-mile outfall. In 2015, an additional 20 MGD of influent sewage was diverted from Plant No. 2 to Plant No. 1 to support the GWRS expansion. GWRS purifies OCSD's secondary treated water from Plant No. 1 to meet drinking water standards. OCSD provides GWRS about 120 MGD of secondary effluent to produce purified water for reuse.
- In October 2008, Synagro's Regional Compost Facility in Riverside County stopped receiving OCSD biosolids in order to prepare for the site's closure. The facility's conditional use permit was not renewed by the County of Riverside after homes were developed nearby and residents filed hundreds of odors complaints.
- In late 2008, OCSD stopped using Tule Ranch's Kern County. This change in strategy culminated when the EnerTech facility started commissioning their process and Kern County required additional costly environmental studies to continue utilizing that option. OCSD's Kings County property was sold in December 2011.
- As part of the 2003 Long Range Biosolids Management Plan implementation, OCSD issued a series of request for proposals in 2004. As a result, EnerTech Environmental, Inc. was awarded a 225-ton guaranteed-minimum contract in 2005, which was signed in May 2006. The Rialto facility was constructed and began commissioning on November 3, 2008. OCSD reallocated Tule Ranch's Kern County land application loads to EnerTech to meet contractual obligations. EnerTech's patented technology used heat and pressure to convert biosolids to a certified renewable energy pellet (E-fuel) that was burned as a replacement for coal in local cement kilns. EnerTech encountered a series of technical and permitting setbacks during the

commissioning process. During the start-up process, biosolids not processed at the Rialto facility were land-applied in Yuma County, Arizona by Terra Renewal (formerly Solid Solutions).

In November 2010, EnerTech began implementation of a Single Train Technical Plan that was anticipated to address the issues and finish the commissioning process by March 2012. After a final extension and failure to meet contractual performance requirements, OCSD terminated its contract with EnerTech effective July 2012. OCSD re-allocated the EnerTech loads to our two remaining contractors, Synagro (composting) and Tule Ranch (land application), at about 50% each.

- March 2009, OCSD began diverted settled sludge from Plant No. 1's primary clarifiers, along with about 2.5 MGD of belt press dewatering filtrate, to Plant No. 2's headworks, where they are mixed with the influent wastewater. OCSD built a new pump station at Plant No. 1, the Steve Anderson Lift Station, on order to bring more flow into Plant No. 1 to provide more flows to GWRS. However, the additional flows produced more solids than Plant No. 1 was equipped to handle during rehabilitation of its digesters and construction of its thickening and dewatering centrifuges, making the diversion of these solids to Plant No. 2 necessary. The routine diversion of primary sludge was ceased by June 2019 as part of the commissioning of the new sludge thickening and dewatering facility (P1-101) at Plant No. 1. OCSD continues to divert the cationic polymers contained in the thickening and dewatering filtrate to protect GWRS from these constituents of concern.
- In March 2010, OCSD sent a demonstration load to the City of Los Angeles
 Terminal Island Renewable Energy (TIRE) project via OCSD's contract with
 Tule Ranch. OCSD material was not compatible with their facility because the
 material required more screening than the City's biosolids.
- In April 2010, Tule Ranch permanently moved their land application operations from Dateland, AZ to Yuma, AZ.
- In January 2011, Tule Ranch formed an agreement with AgTech and managed OCSD biosolids at two sites (Desert Ridge and AgTech) in Yuma. The following year, Tule Ranch purchased the AgTech operations and integrated the two operations. Tule Ranch has continued land applying at both Yuma sites.
- In 2012, OCSD met the new NPDES ocean discharge permit's treatment requirements for secondary treatment standards. With full secondary treatment facilities operational, the focus is now on asset rehabilitation, including solids treatment facilities. The Capital Improvement Program Annual Report (<u>www.ocsd.com/CIPAnnual</u>) summarizes the projects and their progress.

- In February and March 2012, OCSD's Plant No. 2 biosolids exceeded the Arsenic Table 3 Exceptional Quality Limit for fields 23110121, 2311013, 2311021, and 2311022, but were below Table 1 Ceiling Concentrations. OCSD's land application contractor, Tule Ranch, already reports Table 2 Cumulative Pollutant Loading Rates for all pollutants and all fields as part of their annual report to the Arizona Department of Environmental Quality.
- As directed by the Board's November 2011 Strategic Plan direction, OCSD executed an agreement with Orange County Waste and Recycling (OCWR) to manage up to100 tons per day of OCSD's biosolids at the Prima Deshecha landfill located in the city of San Juan Capistrano, California. This alternative provides OCSD a local biosolids management option during projected peak biosolids production period until 2017.

As a result of the landfill start-up in 2013, OCSD is recycling about 94-97% of its biosolids, with the remaining biosolids going to the OCWR landfill. Landfill loads do not count towards recycling despite the indirect energy production from capturing methane onsite. OCSD sends the landfill about 1 truck per day of grit and screenings (non-recyclable material) and 3 trucks of biosolids per day (5 days per week when not impacted by rain) in order to keep some revenues and resources in-County (see also OCSD Biosolids Policy Board Resolution 13-03: ocsd.com/policy.

However, after residential complaints in late 2016, biosolids loads to the landfill were on hiatus until operations moved further away from the phase of the housing development that opened in Fall of 2016. With the heavy rains received December through February 2017, the landfill was operating in a different section, and OCSD remained on hiatus. In February 2017, OCSD received direction to cease disposal of biosolids to the landfill. The amount of biosolids landfilled impacted the city of Fountain Valley, which is one of OCSD member agency. The City is required by CalRecycle to divert 50% of its solids waste from the landfill. Since OCSD is located in the city of Fountain Valley (host city), the tonnage of biosolids being landfilled counted against the city's solids waste diversion goal of 50% diversion. In response, OCSD stop hauling biosolids to landfill for disposal.

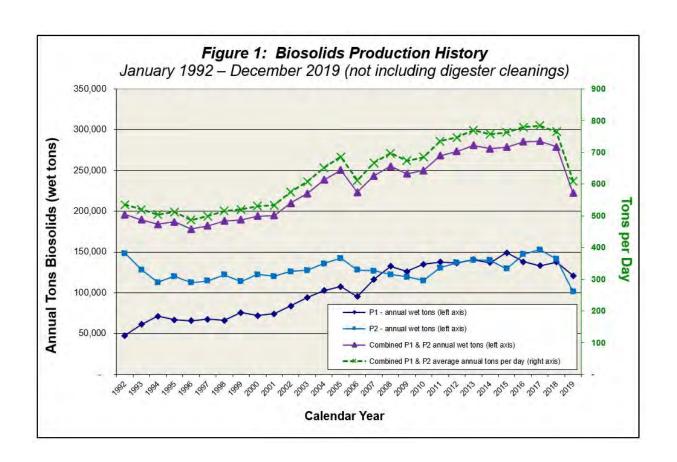
- In November 2016, the Kern Measure E (2006) biosolids ban was struck down. A Tulare County Superior Court judge ruled that Kern County Measure E is invalid and unlawful. The Judge found that Measure E, the ordinance banning land application of biosolids in the unincorporated areas of the county, is preempted by state recycling laws and exceeded Kern's police powers. The judge granted a permanent injunction against enforcing Measure E. In September 2017, parties signed a settlement agreement allowing the City of Los Angeles to continue to land apply biosolids.
- In May 2017, OCSD completed a comprehensive Biosolids Master Plan (ocsd.com/BMP) that is providing a long-term framework for a sustainable,

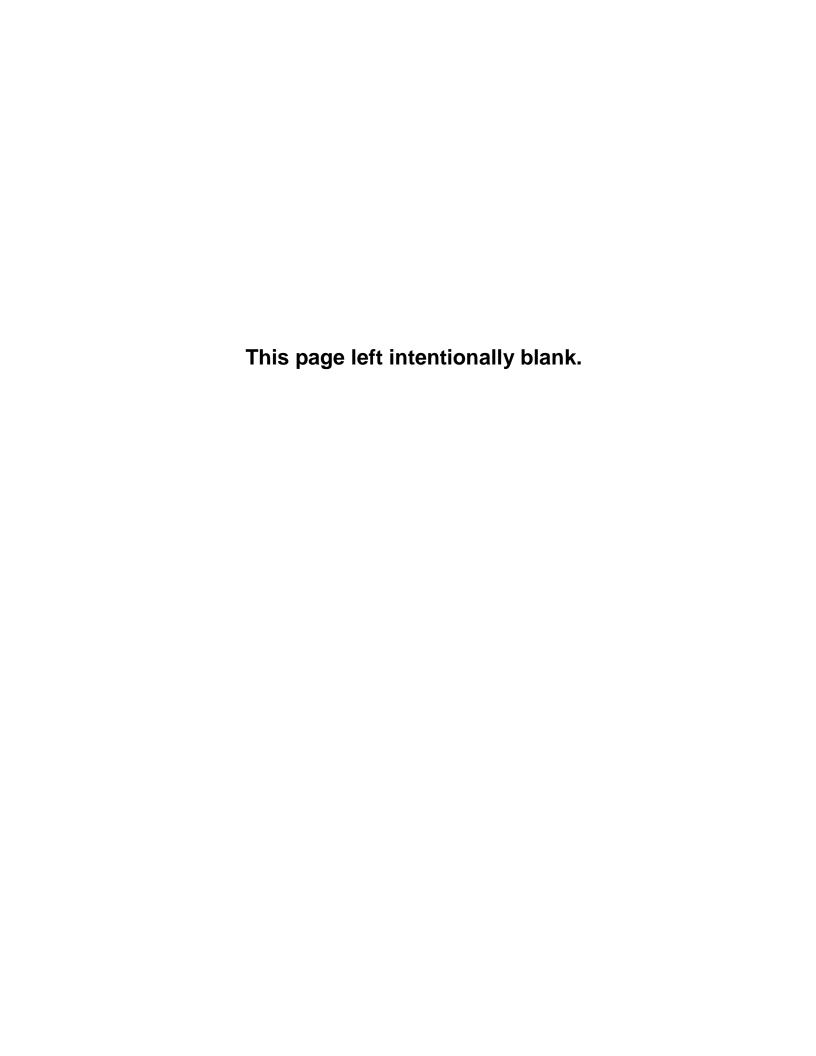
cost-effective biosolids management program. The Plan recommended building temperature-phased anaerobic digesters at Plant No. 2 to address seismic issues with existing digesters while creating an essentially pathogen-free biosolids product. In addition, OCSD will install a food waste receiving station at Plant No. 2. The food waste facility will support state and local organics recycling goals including diverting 50% of landfill-bound organic materials (carbon-based recyclables including biosolids) by 2020 and 75% by 2025. Food waste will be co-digested to create more gas and electricity, as well as a few additional biosolids trucks. The interim food waste facility is expected to be online in 2021, and the new digestion complex is expected to start-up in 2030.

The Master Plan also reviewed and updated the former program guiding principles. and formalized an updated set as the <u>"Ten Tenets of OCSD's Biosolids Management Plan."</u> See the report text for a list of the tenets and OCSD's performance relative to them.

- In 2017, Project P1-100 was completed. This project cleaned and rehabilitated each of the Plant No. 1 digesters. Routine maintenance is now targeting to cleaning digesters every five years. To that end, OCSD issued a new dry-ton based bid (previous bids based on gallons) that was awarded to Synagro to clean digesters at both plants. The first 5-year cleaning was performed on Digester 7 in 2017.
- In 2017, OCSD established a biosolids compost demonstration planter at Plant No. 2 as part of an existing landscaping project. The planter uses the same native plants as nearby control planters that didn't use biosolids. Five and ten percent biosolids compost were amended into the soil. The landscape architects and soil laboratories did not want to use biosolids compost because of the salinity analyses, so OCSD intends this demonstration will show the assimilative capacity of biosolids that is not reflected in the laboratory analysis. If successful, this demonstration will also show that the plants survive and thrive when the laboratory analyses counterindicate biosolids because the analyses do not necessarily directly correlate to the actual field performance, and because biosolids is a more complicated blend of compounds that allow assimilative bonds that have remediating effects.
- Upon ceasing the use of the local landfill in late 2016, OCSD has subsequently achieved 100% beneficial recycling of all biosolids, including digester cleanings.
- Between 2017 and 2019, OCSD's cleaned record twenty (20) digesters using maintenance contracts. The contract is expected to be renewed and clean more digesters in 2019-2020:
 - Plant No. 1 Digesters 5, 6, 7, 8, (partially 9).

- Plant No. 2 Digesters C, E, F, G, H, J, I, L, M, N, O, P, R, S, and T.
- In 2019, OCSD finished commissioning new dewatering centrifuge facilities that replaced the dewatering belt filter presses at Plant No. 1 and at Plant No. 2. The total percent solids of dewatered biosolids increased significantly in 2019, resulting in approximately 25% less biosolids (wet weight) and trucks to manage (Figure 1 below). The Plant No. 1 project also installed predigestion centrifuges to thicken primary and secondary solids, so the existing dissolved air floatation thickening units are no longer in use. Additionally, Plant No. 1 truck loading facility was rehabilitated. With the commissioning of the centrifuges, the biosolids averaged about 24% total solids at Plant No. 1 and 25% total solids at Plant No. 2. More detailed data, including monthly averages, annual totals and analytical results, can be viewed in Figure 1 below, as well as in the Report body and Appendices A, B, C, and D.
- The Irvine Ranch Water District (IRWD) discharges its untreated solids (sludge) to OCSD. IRWD is currently commissioning its new solids treatment facility and plans to cease sending their solids to OCSD when the new facilities are ready to process its sludge, now estimated by 2021. This cessation is anticipated to reduce Plant No. 1's influent solids by 10 to 15 percent.
- As part of the implementation of the 2017 Biosolids Master Plan and as included in the General Manager's Work Plan goal for Fiscal Year 2017-18, OCSD has completed preliminary design of an interim food waste receiving facility. This project will be designed to receive approximately 150 wet tons of preprocessed food waste to be co-digested in OCSD's anaerobic digesters located at Plant No. 2. The added organic feedstock will account for a 10% increase of biogas production that will be used to generate electricity.
- OCSD's Board of Directors approved the 2019 Strategic Plan that includes Biosolids Management Policy initiatives to educate and advocate with the local, state, and federal agencies to assure biosolids will continue to be safely and legally used as a soil amendment and to monitor and research constituents of emerging concern such as PFAS and microplastics that may impact biosolids. In addition, OCSD will stay abreast of new technology options to convert organics to energy and other regional biosolids recycling and renewable energy partnerships within Southern California.







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