


NPDES ID: TNL025437
Biosolids Status: Active
Facility Name: HARRIMAN UTILITY BOARD
 300 NORTH ROANE STREET HARRIMAN, TN 37748

View Annual Report

NPDES FORM 6100-035		UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 BIOSOLIDS ANNUAL REPORT	Form Approved. OMB No. 2040-0004. Exp. 03/31/2022
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EPA's sewage sludge regulations require certain publicly owned treatment works (POTWs) and Class I sewage sludge management facilities to submit to a Sewage Sludge (Biosolids) Annual Report (see 40 CFR 503.18 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_118), 503.28 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_128), 503.48 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_148)). Facilities that must submit a Sewage Sludge (Biosolids) Annual Report include POTWs with a design flow rate equal to or greater than one million gallons per day, POTWs that serve 10,000 people or more, Class I Sludge Management Facilities (as defined by 40 CFR 503.9 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_19)), and facilities otherwise required to file this report (e.g., permit condition, enforcement action, state law). This is the electronic form for Sewage Sludge (Biosolids) Annual Report filers to use if they are located in one of the states, tribes, or territories (<https://www.epa.gov/npdes/npdes-state-program-information>) where EPA administers the Federal biosolids program.

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

Public Availability of Information Submitted on and with General Permit Reports

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

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

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with EPA regulations (40 CFR 503.18, 503.28, and 503.48). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 3 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden including through the use of automated collection techniques to the Director, Regulatory Support Division, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Program Information

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

- a POTW with a design flow rate equal to or greater than one million gallons per day

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).

87.6

Reporting Period Start Date: 01/01/2021

Reporting Period End Date: 12/31/2021

Treatment Processes

Processes to Significantly Reduce Pathogens (PSRP):

Aerobic Digestion

Processes to Further Reduce Pathogens (PFRP):

Physical Treatment Options:

Thickening (e.g., Gravity and/or Flotation Thickening, Centrifugation, Belt Filter Press, Vacuum Filter, Screw Press)

Other Processes to Manage Sewage Sludge:

Analytical Methods

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

Analytical Methods

- EPA Method 6010 - Arsenic (ICP-OES)
- EPA Method 6010 - Cadmium (ICP-OES)
- EPA Method 6010 - Chromium (ICP-OES)
- EPA Method 6010 - Copper (ICP-OES)
- EPA Method 6010 - Lead (ICP-OES)
- EPA Method 7471 - Mercury (CVAA)
- EPA Method 6010 - Molybdenum (ICP-OES)
- EPA Method 6010 - Nickel (ICP-OES)
- EPA Method 6010 - Selenium (ICP-OES)
- EPA Method 6010 - Zinc (ICP-OES)
- EPA Method 350.1 - Ammonia Nitrogen
- EPA Method 9056 - Nitrate Nitrogen (IC)
- Standard Method 4500-Norg - Organic Nitrogen
- Standard Method 2540 - Total Solids
- Standard Method 2540 - Volatile Solids
- EPA Method 1311 - Toxicity Characteristic Leaching Procedure
- EPA Method 1681 - Fecal Coliform

ID: 001

Amount: 87.6

Management Practice Detail: [Agricultural Land Application](#)

Bulk or Bag/Container: [Bulk](#)

Handler, Preparer, or Applier Type: [On-Site Owner or Operator](#)

Pathogen Class: [Class B](#)

Sewage Sludge or Biosolids Pathogen Reduction Options:

- [Class B-Alternative 1: Fecal Coliform Geometric Mean](#)

Sewage Sludge or Biosolids Vector Attraction Reduction Options:

- [Option 1 - Volatile Solids Reduction](#)

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, or 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:	Compliance Monitoring Period End Date:
	<u>01/01/2021</u>	<u>12/31/2021</u>

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

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

YES NO

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

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

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	11.8	
Cadmium	<	2.94	
Copper	=	296	
Lead	=	35.9	
Mercury	<	2.35	
Molybdenum	=	5.11	
Nickel	=	17.7	
Selenium	=	8.6	
Zinc	=	585	

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	=	87917.5	

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	=	38.8	

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

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

Sewage Sludge or Biosolids Parameter	Value Qualifier	Parameter Concentration (mg/kg, dry-weight basis or Pass/Fail)	If No Data, Select One Of The Following
Arsenic	<	11.8	
Cadmium	<	2.94	
Copper	=	296	
Lead	=	35.9	
Mercury	<	2.35	
Nickel	=	17.7	
Selenium	=	8.6	
Zinc	=	585	

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)	=	68100	

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.

We sampled more than required in the past year, and selected the highest pollutant concentration for each contaminant for the purposes of this report.

Additional Attachments

Name	Created Date	Size
10-20-21 Digester 2 after01132022_00000.pdf	01/13/2022 3:09 PM	657.53 KB
10-20-21 Digester 2 before01132022_00000.pdf	01/13/2022 3:09 PM	695.71 KB
4-22-21 Digstor 1 map01132022_00000.pdf	01/18/2022 1:15 PM	1.27 MB
7-2-21 Digester 2 map01132022_00000.pdf	01/18/2022 1:15 PM	1.46 MB
10-20-21 Digester 2 map01132022_00000.pdf	01/18/2022 1:16 PM	1.43 MB
CV Calcs.pdf	01/20/2022 11:00 AM	139.88 KB
2-18-21 Digester 2 mlss01132022_00000.pdf	01/13/2022 2:59 PM	761.05 KB
2-18-21 Digester 2 ts after01132022_00000.pdf	01/13/2022 2:59 PM	626.81 KB
3-4-21 Fecal.pdf	01/13/2022 3:01 PM	1.43 MB
2-18-21 Digester 2 ts before01132022_00000.pdf	01/13/2022 2:59 PM	767.40 KB
7-2-21 Digester 2 mlss01132022_00000.pdf	01/13/2022 3:04 PM	651.23 KB
Agronomic Loading Rate.pdf	01/20/2022 11:57 AM	98.43 KB
7-2-21 Digester 2 ts before01132022_00000.pdf	01/13/2022 3:05 PM	692.63 KB
7-2-21 Fecal.pdf	01/13/2022 3:06 PM	1.69 MB
8-26-21 Digester 1 after01132022_00000.pdf	01/13/2022 3:06 PM	640.78 KB
7-2-21Semiann.pdf	01/13/2022 3:06 PM	1.16 MB
8-26-21 Digester 1 before01132022_00000.pdf	01/13/2022 3:07 PM	679.69 KB
2-18-21 Digester 2 volatile01132022_00000.pdf	01/13/2022 3:01 PM	676.27 KB
2-18-21 Semi Sludge.pdf	01/13/2022 3:02 PM	1.44 MB
4-22-21 Digstor 1 mlss01132022_00000.pdf	01/13/2022 3:02 PM	993.10 KB
4-22-21 Digstor 1 ts before01132022_00000.pdf	01/13/2022 3:03 PM	1003.71 KB
4-22-21 Digstor 1 volatile01132022_00000.pdf	01/13/2022 3:03 PM	912.43 KB
4-22-21 Semi Sludge.pdf	01/13/2022 3:04 PM	1.14 MB
7-2-21 Digester 2 ts after01132022_00000.pdf	01/13/2022 3:05 PM	654.61 KB

Name	Created Date	Size
7-2-21 Digester 2 volatile01132022_00000.pdf	01/13/2022 3:05 PM	640.80 KB
8-26-21 Digester 1 mlss01132022_00000.pdf	01/13/2022 3:07 PM	743.32 KB
8-26-21 Digester 1 volatile01132022_00000.pdf	01/13/2022 3:07 PM	644.90 KB
4-22-21 Digstor 1 ts after01132022_00000.pdf	01/13/2022 3:03 PM	890.81 KB
4-22-21 Fecal.pdf	01/13/2022 3:04 PM	978.62 KB
10-20-21 Digester 2 mlss01132022_00000.pdf	01/13/2022 3:10 PM	690.59 KB
10-20-21 Semi Sludge.pdf	01/13/2022 3:11 PM	1.13 MB
8-26-21 Fecal.pdf	01/13/2022 3:08 PM	1.59 MB
8-26-21 Semiann sludge.pdf	01/13/2022 3:08 PM	1.27 MB
10-20-21 Digester 2 volatile01132022_00000.pdf	01/13/2022 3:10 PM	664.74 KB
10-20-21 Fecal.pdf	01/13/2022 3:10 PM	1.48 MB
2-18-21 map.pdf	01/18/2022 1:15 PM	1.23 MB
8-26-21 Digester 1 map01132022_00000.pdf	01/18/2022 1:16 PM	1.44 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: Candace D. Vannasdale (CVANNASDALE)

Certified On: 01/20/2022 12:04 PM