



Florida Department of Environmental Protection

Twin Towers Office Bldg, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400

Residuals Annual Summary

DEC 08 2010

Southwest District

Part I - Facility Information

FACILITY NAME: SUMTER CORRECTIONAL INSTITUTION FACILITY ID: FLA013558
MAILING ADDRESS: 9544 CR 467 B MONITORING PERIOD -- From: JAN 1, 10 To: DEC 31, 10
Bushnell Fl. 33513

Total Quantity of Residuals Applied During Reporting Period: 39.94 dry tons

Total Number of Residuals Land Application Sites Used During Reporting Period: 1.0 (Parts II and III should address all residuals land application sites used)

Update of Residuals Characteristics (arithmetic average of all samples taken pursuant to Rule 62-640.650(1), F.A.C., during the reporting period):

Parameter	Units*	Ceiling Limits for Class A and B	Concentration	Parameter (continued)	Units*	Ceiling Limits for Class A and B	Concentration
Total Nitrogen	%	N/A	2.83	Copper	mg/kg	4300	846
Total Phosphorus	%	N/A	0.874	Lead	mg/kg	840	14.5
Total Potassium	%	N/A	0.706	Mercury	mg/kg	57	0.399
Total Solids	%	N/A	1.25	Molybdenum	mg/kg	75	9.74
pH	std. units	N/A	6.95	Nickel	mg/kg	420	14.5
Arsenic	mg/kg	75	3.75	Selenium	mg/kg	100	15.7
Cadmium	mg/kg	85	0.910	Zinc	mg/kg	7500	505

*All units are in a dry weight basis except for total solids and pH. All sampling and analysis shall be conducted pursuant to Title 40 Code of Federal Regulations, Section 503.8, and the POTW Sludge Sampling and Analysis Guidance Document.

N/A = not applicable

Pathogen Reduction Class (Rule 62-640.600(1), F.A.C.): ☐ A ☒ B

EPA Vector Attraction Reduction Option (Rule 62-640.600(2), F.A.C.):

☐ 1 ☐ 2 ☐ 3 ☒ 4 ☐ 5
☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10

Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT (Type or Print)	TELEPHONE NO.
LOGAN LAW/WASTEWATER SUPERVISOR	352-586-3266
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE (YY/MM/DD)
<i>Logan Law</i>	12/06/10

Part II. Total Application of Residuals or Septage, Nutrients, and Trace Elements for Application Zones Used Only By This Facility (attach a separate sheet for "other solids," if applicable):

Site Name (as identified in Agricultural Use Plan): Sumter Correctional Institution

Site Address (as shown in Agricultural Use Plan): 9544 CR 476 B, Bushnell FL 33513

Application Zone ID(s)	Crop(s)	Dry Tons Applied per Acre	Basis	N	P	K	As	Cd	Cu	Pb	Hg	Ni	Se	Zn
1	Bahia	2.41	annual	203	54.3	31.4	0.017	0.004	4.65	0.075	0.0019	0.074	0.088	2.70
			cumulative				0.2555	0.2862	99.847	2.4365	0.0615	2.2472	1.0889	64.648
2	Bahia	2.41	annual	203	54.3	31.4	0.017	0.004	4.65	0.075	0.0019	0.074	0.088	2.70
			cumulative				0.2665	0.2852	90.079	2.1025	0.0775	1.9612	1.0889	54.868
3	Bahia	2.41	annual	203	54.3	31.4	0.017	0.004	4.65	0.075	0.0019	0.074	0.088	2.70
			cumulative				0.2565	0.2792	88.109	1.9495	0.0725	1.8882	1.0229	54.28
4	Bahia	2.41	annual	203	54.3	31.4	0.017	0.004	4.65	0.075	0.0019	0.074	0.088	2.70
			cumulative				0.2575	0.2782	87.72	1.857	0.0775	1.953	1.024	53.92
5	Bahia	2.41	annual	203	54.3	31.4	0.017	0.004	4.65	0.075	0.0019	0.074	0.088	2.70
			cumulative				0.2640	0.279	87.41	1.828	0.0783	1.901	0.9329	53.39
6	Bahia	2.41	annual	203	54.3	31.4	0.017	0.004	4.65	0.075	0.0019	0.074	0.088	2.70
			cumulative				0.2520	0.244	84.32	2.077	0.0757	1.8507	1.0776	48.591
7	Bahia	3.31	annual	295	97.4	35.7	0.020	0.004	4.67	0.075	0.0028	0.074	0.088	2.71
			cumulative				0.2362	0.2191	78.93	2.0013	0.0774	1.7716	1.0728	45.379

(Enter all nutrient and trace element quantities in lbs/acre.)

Part II. Total Application of Residuals or Septage, Nutrients, and Trace Elements for Application Zones Used Only By This Facility (attach a separate sheet for "other solids," if applicable):

Site Name (as identified in Agricultural Use Plan): Sumter Correctional Institution

Site Address (as shown in Agricultural Use Plan): 9544 CR 476 B, Bushnell FL 33513

Application Zone ID(s)	Crop(s)	Dry Tons Applied per Acre	Basis	N	P	K	As	Cd	Cu	Pb	Hg	Ni	Se	Zn
8	Bahia	3.31	annual	295	97.4	35.7	0.020	0.004	4.670	0.075	0.0028	0.074	0.088	2.71
			cumulative				0.2072	0.2211	75.694	1.8183	0.0574	1.1806	1.0648	40.408
9	Bahia	3.04	annual	278	71.1	31.9	0.019	0.004	4.216	0.068	0.0026	0.066	0.080	2.44
			cumulative				0.2099	0.3396	84.836	1.6093	0.0504	1.276	0.9808	44.814
10	Bahia	3.04	annual	278	71.1	31.9	0.019	0.004	4.216	0.068	0.0026	0.066	0.080	2.44
			cumulative				0.2009	0.2358	86.656	1.6715	0.0508	1.2566	1.0067	43.697
11	Bahia	3.04	annual	278	71.1	31.9	0.019	0.004	4.216	0.068	0.0026	0.066	0.080	2.44
			cumulative				0.1989	0.2179	74.44	1.5399	0.0492	1.1343	0.9244	39.408
12	Bahia	3.04	annual	278	71.1	31.9	0.019	0.004	4.216	0.068	0.0026	0.066	0.080	2.44
			cumulative				0.2065	0.2262	77.887	1.5961	0.0514	1.1871	0.9505	41.492
13	Bahia	3.04	annual	278	71.1	31.9	0.019	0.004	4.216	0.068	0.0026	0.066	0.080	2.44
			cumulative				0.1683	0.1827	59.94	1.3409	0.0502	0.9343	0.8625	31.832
14	Bahia	3.04	annual	278	71.1	31.9	0.019	0.004	4.216	0.068	0.0026	0.066	0.080	2.44
			cumulative				0.1638	0.1830	57.195	1.3073	0.0501	0.8978	0.7969	30.481

(Enter all nutrient and trace element quantities in lbs/acre.)

Part II. Total Application of Residuals or Septage, Nutrients, and Trace Elements for Application Zones Used Only By This Facility (attach a separate sheet for "other solids," if applicable):

Site Name (as identified in Agricultural Use Plan): Sumter Correctional Institution

Site Address (as shown in Agricultural Use Plan): 9544 CR 476 B, Bushnell FL 33513

Application Zone ID(s)	Crop(s)	Dry Tons Applied per Acre	Basis	N	P	K	As	Cd	Cu	Pb	Hg	Ni	Se	Zn
15	Bahia	3.04	annual	278	71.1	31.9	0.019	0.004	4.216	0.068	0.0026	0.066	0.080	2.44
			cumulative				0.1515	0.1794	52.38	1.2399	0.0477	0.8419	0.7379	28.241
16	Bahia	2.14	annual	185	49.6	27.6	0.016	0.004	4.19	0.067	0.0017	0.066	0.080	2.42
			cumulative				0.1458	0.1747	51.472	1.1572	0.0448	0.7973	0.7300	28.073
			annual											
			cumulative											
			annual											
			cumulative											
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			cumulative											
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			cumulative											
			annual											
			cumulative											
			annual											
			cumulative											

(Enter all nutrient and trace element quantities in lbs/acre.)

Part III. Total Residuals or Septage, Nutrients, and Trace Elements Applied to Application Zones Used by Multiple Facilities (attach separate page for "other solids," if applicable):

Site Name (as identified in Agricultural Use Plan): Sumter Correctional Institution

Site Address (as shown in Agricultural Use Plan): 9544 CR 476 B, Bushnell, FL 33513

Application Zone ID(s)	Crop(s)	Facility	Dry Tons Applied per Acre	N	P	K	As	Cd	Cu	Pb	Hg	Ni	Se	Zn
		Annual Total												
		Cumulative Total												
		Annual Total												
		Cumulative Total												
		Annual Total												
		Cumulative Total												

(Enter nutrients and trace elements in lbs/acre.)

Part IV. Hauling Records Summary For Calendar Year _____ (For Residuals Management Facilities Only)

[illegible]

INSTRUCTIONS FOR ANNUAL SUMMARY FORM

This form shall be completed for each permitted facility in accordance with Chapter 62-640, Florida Administrative Code, (F.A.C.). The permittee, by no later than February 19 of the year following the calendar year (January 1 through December 31) being reported, shall submit the original completed form to the appropriate Department District Office. Use additional sheets if necessary. All information shall be typed or printed in ink.

Part I - Facility Information

Facility Name/Address: Enter the facility name as shown on the facility wastewater permit. Complete the mailing address.

Facility ID: This is the identification number of the facility as it appears on the facility wastewater permit.

Monitoring Period: This is the period that the data on this report represents and shall be the calendar year, January 1 through December 31. A new facility will report all information from the start of operation through December 31 of its first year.

Total Quantity of Residuals Applied During Reporting Period: Enter the total quantity of residuals applied by the facility during the reporting period in dry tons (1 ton = 2000 lb).

Total Number of Residuals Application Sites Used During Reporting Period: Enter the total number of residuals application sites used during this reporting period. These sites should all be addressed in Parts II and III of this report.

Residuals Characteristics: Calculate the arithmetic average of all analyses taken during the reporting period. All units are in dry weight basis except for total solids and pH.

Pathogen Reduction Class: Enter the pathogen reduction class provided by this facility. Choose only one.

Vector Attraction Option: Mark the VAR option used by this facility for its residuals. Choose only one from the table below.

Summary of Options for Meeting Vector Attraction Reduction	
Option Number	Description
1	Meet 38 percent reduction in volatile solids content.
2	Demonstrate vector attraction reduction with additional anaerobic digestion in a bench-scale unit.
3	Demonstrate vector attraction reduction with additional aerobic digestion in a bench-scale unit.
4	Meet a specific oxygen uptake rate for aerobically digested biosolids.
5	Use aerobic processes at greater than 40°C for 14 days or longer.
6	Alkali addition under specified conditions.
7	Dry biosolids with no unstabilized solids to at least 75 percent solids.
8	Dry biosolids with unstabilized solids to at least 90 percent solids.
9	Inject biosolids beneath the soil surface.
10	Incorporate biosolids into the soil within 6 hours of application to or placement on the land.

Note: Table is derived from Table 5-8, A Plain English Guide to the EPA Part 503 Biosolids Rule, EPA/832/R-93/003, U.S. Environmental Protection Agency, 1993.

Certification: This report must be signed in accordance with Chapter 62-640, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached. Date that the report is signed.

Part II - Total Application of Residuals or Septage, Nutrients, and Trace Elements for Application Zones Used Only By This Facility: Enter the appropriate information for application zones used solely by this facility. Attach a separate sheet for "other solids."

Site Name: Enter the site name exactly as it is listed in Part II, Item 1 of the Agricultural Use Plan for the site. A new page should be used for each different site. Attach additional pages as necessary.

Site Address: Enter the site's actual location address exactly as it is shown in Part II, Item 1 of the Agricultural Use Plan for the site.

Application Zone(s): Enter the application zone ID(s) used during the reporting period. One application zone per row is preferred but more than one application zone may be entered if and only if the rest of the corresponding row information is identical for all zones entered in the block.

Crop(s): Enter the names of the crops grown on the zone(s) during the reported period.

Dry Tons Applied per Acre: Enter the calculated amount of residuals or septage applied to the applicable agricultural zone(s) in dry tons per acre (1 ton = 2000 lb).

Nutrients and Metals: Enter the calculated amount of each item applied in lbs/acre on an annual and cumulative basis. Cumulative values are not applicable for the nutrients. These calculations shall be made using the appropriate analyses for each application of residuals.

Part III - Total of Residuals or Septage, Nutrients, and Trace Elements Applied to Application Zones Used By Multiple Facilities: Enter the appropriate information for application zones used by other facilities in addition to this facility. Use a separate sheet for "other solids."

Site Name/Site Address/Application Zone(s)/Crop(s): Follow the instructions given for these categories in Part II.

Facility/Dry Tons per Acre Applied: Enter this facility and each other facility applying to this zone (multiple zones may only be entered if all facilities applied to the same identical zones and the row information for each facility is identical for each zone. Enter dry/tons per acre applied by each facility (1 ton = 2000 lb).

Nutrients and Metals: Enter the calculated amount of each item per facility. Sum each facility's contribution and enter the amount applied during the reported period, then determine and enter the annual and cumulative amounts for the zone(s).

Part IV - Hauling Records Summary - To be completed only by residuals management facilities.

Enter the appropriate information for the yearly summary from each source wastewater treatment facility.