



Florida Department of Environmental Protection

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

Residuals Annual Summary

Dept. Of Environmental Protection
JAN 20 2011
Southwest District

Part I-Facility Information

FACILITY NAME:

HARDEE CORRECTIONAL INSTITUTION

FACILITY ID: **FLA012022**

MAILING ADDRESS:

6901 SR 62

BOWLING GREEN, FL 33834

MONITORING PERIOD-- From: **1/1/2010** To: **12/31/2010**

Total Quantity of Residuals Applied during the Period: **12.05** dry tons

Total Number of Residuals Land Application Sites Used during Reporting Period: **2**

(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	5.78	Copper	mg/Kg	4300	626.00
Total Phosphorus	%	N/A	2.02	Lead	mg/Kg	840	8.00
Total Potassium	%	N/A	0.45	Mercury	mg/Kg	57	0.60
Total Solids	%	N/A	1.56	Molybdenum	mg/Kg	75	67.00
pH	s.u.	N/A	5.82	Nickel	mg/Kg	420	18.00
Arsenic	mg/Kg	75	3.20	Selenium	mg/Kg	100	19.00
Cadmium	mg/Kg	85	0.60	Zinc	mg/Kg	7500	2,081.00

*All units are in 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 (Rule 62-640.600(1), F.A.C.)

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 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.
JOHN SZAFRANSKI WASTE WATER VOL INST. III	863-767-4718
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE (YY/MM/DD)
	11/01/11

DEP Form 62-640.210(2)(b), effective 12/1/97

Northwest District 160
Governmental Center
Pensacola, FL 32501-5794

Northeast District
7825 Baymeadows Way
Jacksonville FL 32256-7577

Central District 3319
Macquire Blvd, Suite 232
Orlando, FL 32803-3787

Southwest District
3804 Coconut Palm Dr.,
Tampa, FL 33619-8218

South District 2295
Victoria Ave., Suite 364 Fort
Myers, FL 33901

Southeast District
400 N. Congress Ave. West
Palm Beach, FL

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

Facility Name: HARDEE CORRECTIONAL INSTITUTION

Site Name	Application Zone ID(s)	Crop(s)	Dry Tons Applied per Acre	Base	Max N allowed*	N	P	K	As	Cd	Cu	Pb	Hg	Ni	Se	Zn
JMC Ranch	3	Bahia Grass	0.0732	annual	400	12.39	2.41	0.51	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.09
				cumulative	N/A	N/A	1018.87	715.17	0.14	0.09	19.67	0.90	0.03	0.64	0.24	27.38
JMC Ranch	4	Bahia Grass	0.0336	annual	400	3.89	1.36	0.30	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.14
				cumulative	N/A	N/A	412.87	74.32	0.12	0.04	9.22	0.58	0.02	0.50	0.16	16.43
M J Ranch	4B	Bahia	0.0129	annual	250	2.19	0.43	0.09	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.02
				cumulative	N/A	N/A	365.36	45.63	0.06	0.03	3.89	0.19	0.01	0.15	0.04	8.83
JMC Ranch	6	Bahia Grass	0.0257	annual	400	4.36	0.85	0.18	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.03
				cumulative	N/A	N/A	582.94	165.89	0.13	0.08	23.69	1.52	0.04	1.54	0.32	31.57
M J Ranch	6A	Bahia	0.0064	annual	70	1.08	0.21	0.04	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01
				cumulative	N/A	N/A	373.76	54.85	0.08	0.02	4.64	0.24	0.02	0.17	0.07	10.32
JMC Ranch	8	Bahia Grass	0.0464	annual	400	5.37	1.88	0.42	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.19
				cumulative	N/A	N/A	234.72	63.50	0.02	0.01	4.59	0.25	0.01	0.13	0.08	6.78

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

* Based on two (2) growing seasons per year

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

Site Name: JMC Ranch

Application Zone ID(s)	Crop(s)	Facility	Dry Tons Applied per Acre	Max N allowed*	N	P	K	As	Cd	Cu	Pb	Hg	Ni	Se	Zn
3	Bahia	HARDEE CORRECTIONAL INSTITUTION	0.0732	400	12.39	2.4140	0.5121	0.0002	0.0001	0.1383	0.0019	0.0002	0.0020	0.0026	0.0884
3	Bahia	CITY OF BARTOW MAIN WWTF	0.5043	400	62.08	39.1817	6.8069	0.0001	0.0031	0.5835	0.0668	0.0026	0.0179	0.0093	1.0484
3	Bahia	HAINES CITY WWTP	1.0420	400	185.04	53.8602	554.3279	0.0002	0.0016	1.0840	0.0378	0.0013	0.0292	0.0157	1.5784
3	Bahia	BOWLING GREEN STP	0.0415	400	5.11	2.1928	0.5017	0.0000	0.0004	0.0440	0.0042	0.0001	0.0016	0.0006	0.0925
3	Bahia	AMS, Inc. Central RMF	1.1381	400	111.54	46.2075	8.2527	0.0001	0.0023	0.6464	0.0323	0.0013	0.0211	0.0132	1.0198
Annual Total		N/A	2.80	400	376.16	143.86	570.47	0.01	0.01	2.50	0.14	0.01	0.07	0.04	3.83
Cumulative Total			1,547.56		N/A	N/A	N/A	0.14	0.09	19.67	0.90	0.03	0.54	0.24	27.38
4	Bahia Grass	City of Odessa	0.0270	400	1.84	0.7022	0.2701	0.0004	0.0011	0.0243	0.0005	0.0000	0.0028	0.0004	0.0286
4	Bahia Grass	HARDEE CORRECTIONAL INSTITUTION	0.0336	400	3.89	1.3585	0.3026	0.0001	0.0000	0.0421	0.0005	0.0000	0.0012	0.0013	0.1389
4	Bahia Grass	HAINES CITY WWTP	1.3615	400	169.22	55.4461	24.7038	0.0002	0.0023	1.2774	0.0460	0.0023	0.0389	0.0196	2.0227
4	Bahia Grass	AMS, Inc. Central RMF	1.1307	400	104.23	43.9738	7.2492	0.0002	0.0028	0.7316	0.0421	0.0009	0.0227	0.0134	1.1252
Annual Total		N/A	2.55	400	279.37	101.48	32.53	0.01	0.01	2.08	0.09	0.00	0.07	0.03	3.32
Cumulative Total			963.39		N/A	N/A	N/A	0.12	0.04	9.22	0.58	0.02	0.50	0.16	16.43
6	Bahia Grass	HARDEE CORRECTIONAL INSTITUTION	0.0257	400	4.36	0.8490	0.1801	0.0002	0.0000	0.0486	0.0007	0.0001	0.0007	0.0009	0.0311
6	Bahia Grass	CITY OF BARTOW MAIN WWTF	0.3096	400	26.63	25.6264	1.3623	0.0030	0.0018	0.3090	0.0359	0.0017	0.0085	0.0047	0.5257
6	Bahia Grass	AMS, Inc. Central RMF	1.2497	400	129.56	38.8531	6.0298	0.0001	0.0036	0.7720	0.0513	0.0007	0.0247	0.0137	1.0893
Annual Total		N/A	1.59	400	160.55	66.33	7.57	0.01	0.01	1.13	0.09	0.00	0.02	0.02	1.65
Cumulative Total			1,035.43		N/A	N/A	N/A	0.13	0.08	23.69	1.52	0.04	1.54	0.32	31.57
8	Bahia Grass	HARDEE CORRECTIONAL INSTITUTION	0.0464	400	5.37	1.8751	0.4177	0.0001	0.0001	0.0581	0.0007	0.0001	0.0017	0.0018	0.1932
Annual Total		FLA012022													

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

* Based on two (2) growing seasons per year

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

8	Bahia Grass	HAINES CITY WWTP FLA012977	0.5512	400	95.90	23.1463	10.1412	0.0005	0.4960	0.0165	0.0008	0.0143	0.0075	0.7275
8	Bahia Grass	AMS, Inc. Central RMF FLA67049	0.3007	400	29.11	14.2539	3.3921	0.0004	0.1564	0.0094	0.0007	0.0055	0.0025	0.3055
Annual Total		N/A	0.90	400	130.37	39.28	13.95	0.00	0.71	0.03	0.00	0.02	0.01	1.23
Cumulative Total			172.27		N/A	N/A	N/A	0.01	4.59	0.25	0.01	0.13	0.03	6.78

Site Name: M J Ranch

Application Zone ID(s)	Crop(s)	Facility Facility ID	Dry Tons Applied per Acre	Max N allowed*	N	P	K	As	Cd	Cu	Pb	Hg	Ni	Se	Zn
4B	Bahia Grass	PALMETTO WWTP CITY OF FL0020401	0.2021	400	33.11	24.3357	1.3744	0.0007	0.0004	0.1928	0.0093	0.0006	0.0086	0.0031	0.6064
4B	Bahia Grass	HARDEE CORRECTIONAL INSTITUTION FLA012022	0.0129	400	2.19	0.4265	0.0905	0.0001	0.0000	0.0244	0.0003	0.0000	0.0004	0.0005	0.0156
4B	Bahia Grass	CHARLOTTE CORRECTIONAL FLA014130	0.0174	400	1.74	0.8112	0.2172	0.0000	0.0002	0.0236	0.0002	0.0000	0.0004	0.0010	0.0162
4B	Bahia Grass	Appalachian Material Service, Inc. FLA190284	0.2909	400	26.84	13.1766	2.5366	0.0000	0.0027	0.1410	0.0079	0.0003	0.0077	0.0011	0.6293
Annual Total		N/A	0.52	400	63.87	38.75	4.22	0.00	0.00	0.38	0.02	0.00	0.02	0.01	1.27
Cumulative Total			510.12		N/A	N/A	N/A	0.06	0.03	3.89	0.19	0.01	0.15	0.04	8.83
6A	Bahia	PALMETTO WWTP CITY OF FL0020401	0.4473	400	48.41	34.7671	6.2528	0.0010	0.0015	0.3958	0.0201	0.0010	0.0185	0.0069	1.2943
6A	Bahia	HARDEE CORRECTIONAL INSTITUTION FLA012022	0.0064	400	1.08	0.2110	0.0448	0.0001	0.0000	0.0121	0.0002	0.0000	0.0002	0.0002	0.0077
6A	Bahia	CHARLOTTE CORRECTIONAL FLA014130	0.0258	400	2.58	1.2038	0.3224	0.0000	0.0002	0.0351	0.0004	0.0000	0.0007	0.0016	0.0240
6A	Bahia	Appalachian Material Service, Inc. FLA190284	0.1262	400	13.64	6.3822	1.9582	0.0000	0.0005	0.0615	0.0027	0.0001	0.0028	0.0011	0.2630
Annual Total		N/A	0.61	400	65.71	42.56	8.58	0.01	0.00	0.50	0.02	0.00	0.02	0.01	1.61
Cumulative Total			434.49		N/A	N/A	N/A	0.08	0.02	4.64	0.24	0.02	0.17	0.07	10.32

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

* Based on two (2) growing seasons per year