



SARASOTA COUNTY
 "Dedicated to Quality Service"

188444

5/16/14
 JEM
 8/22/16

GW
 LEACHATE

**Dept. of Environmental
 Protection**

JUL 13 2006

July 6, 2006
 Susan J. Pelz, P.E.
 Florida Department of Environmental Protection
 13051 North Telecom Parkway
 Temple Terrace, Florida 336-092637

Southwest District

Re: Central County Solid Waste Disposal Complex (CCSWDC)
 Permit Number SO58-299180 (old permit #)
 Semi-annual Groundwater, Leachate, and Surface Water Monitoring Reports

Dear Mr. Morris:

NOT SUBMITTED

Enclosed you will find the Semi-annual Groundwater, Leachate and Surface water reports for the CCSWDC for the period January 1, 2006 through June 30, 2006. The samples were analyzed in accordance with Specific Condition No. 34 for the field and laboratory parameters listed and 40 CFR 258 Appendix II analytes. The groundwater report was prepared as per Specific Condition 34. The leachate report and surface water were tested as per Specific Condition 31 and Specific Condition 33.

- FDEP Groundwater Monitoring Report Form # 62-522.900 (2) with analytical results.
- Analytical results as reported by the laboratory.
- A ground water level contour map.
- Historical data sheet.
- QA Reports from Sarasota County Environmental Services/Natural Resources/Resources Management Laboratory Services.
- Field data sheets.
- Chains of custody reports.

Please contact me if you have any questions at (941) 650-2072.

Sincerely,

Don Shaulis
 Solid Waste Operations

C

APRIL 2006
 SANITARY



**ENVIRONMENTAL SERVICES / NATURAL RESOURCES / RESOURCE
MANAGEMENT
LABORATORY SERVICES
QUALITY ASSURANCE REPORT**

FACILITY: Central County Solid Waste Disposal

PROJECT: semi-annual leachate

DATE SAMPLED: 4/17/2006

DATE REVIEWED: 6/27/2006

REVIEW CRITERIA: CFR 261.24

QAO: Cesar A. Rodriguez-Palacios

COMMENTS: All data is complete
DEP forms attached
QA available upon request
Case narrative enclosed
Chain of Custody is attached
Field data is attached

The following exceedances were found:
There were no exceedances noted.

The following irregularities were found:
The Nitrate was incorrectly flagged as analyzed out of holding time on 4/19., upon further review, this is not accurate since the samples were analyzed on 4/18.

LEAPUMP

Misc. Permit-required analyses

- Specific conductance, field
- pH, field
- DO, field
- Colors & sheens, field
- Total Ammonia
- Bicarbonate
- Carbonate
- Chloride
- Sulfate
- Nitrate
- TDS
- Mercury *.20 mg/l*
- Calcium
- Iron
- Magnesium
- Potassium
- Sodium

CCLEA1

Misc. Permit-required analyses

- Specific conductance, field
- pH, field
- DO, field
- Colors & sheens, field
- Total Ammonia
- Bicarbonate
- Carbonate
- Chloride
- Sulfate
- Nitrate
- TDS
- Mercury
- Calcium
- Iron
- Magnesium
- Potassium
- Sodium

CCLEA 2

Misc. Permit-required analyses

- Specific conductance, field
- pH, field
- DO, field
- Colors & sheens, field
- Total Ammonia
- Bicarbonate
- Carbonate
- Chloride
- Sulfate
- Nitrate
- TDS
- Mercury
- Calcium
- Iron
- Magnesium
- Potassium
- Sodium

CCLEA3

Misc. Permit-required analyses

- Specific conductance, field
- pH, field
- DO, field
- Colors & sheens, field
- Total Ammonia
- Bicarbonate
- Carbonate
- Chloride
- Sulfate
- Nitrate
- TDS
- Mercury
- Calcium
- Iron
- Magnesium
- Potassium
- Sodium

CCLEA4

Misc. Permit-required analyses

- Specific conductance, field
- pH, field
- DO, field
- Colors & sheens, field
- Total Ammonia
- Bicarbonate
- Carbonate
- Chloride
- Sulfate
- Nitrate
- TDS
- Mercury
- Calcium
- Iron
- Magnesium
- Potassium
- Sodium



Central County Wells
PARAMETER MONITORING REPORT
 Ground Water (Rule 62-520.400, .420, .460)
 Surface Water (Rule 62-302.500, .510, .503)
 Leachate (Rule 62-701.510)
LAB Submission Number: F06040755
Sample Number: F06040755-002

Facility WACS:	4058C02034	Sample Date/Time:	4/17/2006 9:10:00 AM
Well/Sampling Point WACS:	Leach 1	Report Period:	1st Semi-annual 2006
Well/Sampling Point Name:	041706CCLEA1	Well Purged:	YES
Classification of Groundwater:	G-II	Well Type:	Leachate
Ground Water Elevation: (NGVD):			

Storet Code	Parameter Monitored	Sampling Method	Filtered Y/N	Analysis Method	Analysis Date	Analysis Result	Q	Units	Detection Limits
METALS									
00916	Calcium	Grab	N	SW6010	4/21/2006	240000		µg/L	87
01045	Iron	Grab	N	SW6010	4/21/2006	2200		µg/L	8.9
00927	Magnesium	Grab	N	SW6010	4/21/2006	55000		µg/L	5.0
00937	Potassium	Grab	N	SW6010	4/24/2006	220000		µg/L	300
00929	Sodium	Grab	N	SW6010	4/24/2006	620000		µg/L	1700
71900	Mercury	Grab	N	SW7470	4/22/2006	0.012	U	µg/L	0.012
SUB									
00620	Nitrogen, Nitrate	Grab	N	E353.2	4/27/2006	0.023		mg/L	0.0040
00630	Nitrogen, Nitrate-Nitrite	Grab	N	E353.2	4/27/2006	0.023		mg/L	0.0040
00615	Nitrogen, Nitrite	Grab	N	SM4500-	4/18/2006	0.0030	U	mg/L	0.0030
WetChem									
70300	Solids, Total Dissolved	Grab	N	E160.1	4/21/2006	2400		mg/L	1.2
00940	Chloride	Grab	N	E300.0	4/21/2006	690		mg/L	1.8
00945	Sulfate	Grab	N	E300.0	4/21/2006	2.6	U	mg/L	2.6
00610	Nitrogen, Ammonia (As N)	Grab	N	E350.1	4/26/2006	340		mg/L	1.4
00440	Alkalinity, Bicarbonate (As CaCO3)	Grab	N	SM2320	4/28/2006	2500	V	mg/L	1.6
00430	Alkalinity, Carbonate (As CaCO3)	Grab	N	SM2320	4/28/2006	1.6	U	mg/L	1.6
00410	Alkalinity, Total (As CaCO3)	Grab	N	SM2320	4/28/2006	2500	V	mg/L	1.6

Conductivity Grab N fld 4/17/06 5085 µmhos 1.00
pH Grab N fld 4/17/06 7.22 units 0.10
DO Grab N fld 4/17/06 3.78 mg/l 0.01
Temperature Grab N fld 4/17/06 30.67 Deg °C 0.01

Data Qualifier Code Key:
 I Analyte detected below quantitation limits
 U Not Detected Above the MDL
 x Value exceeds Maximum Contaminant Level
 Q Holding times for preparation or analysis exceeded
 V Analyte detected in the associated Method Blank



Central County Wells
PARAMETER MONITORING REPORT
 Ground Water (Rule 62-520.400, .420, .460)
 Surface Water (Rule 62-302.500, .510, .503)
 Leachate (Rule 62-701.510)
 LAB Submission Number: F06040755
 Sample Number: F06040755-003

Facility WACS:	4058C02034	Sample Date/Time:	4/17/2006 9:40:00 AM
Well/Sampling Point WACS:	Leach 2	Report Period:	1st Semi-annual 2006
Well/Sampling Point Name:	041706CCLEA2	Well Purged:	YES
Classification of Groundwater:	G-II	Well Type:	Leachate
Ground Water Elevation: (NGVD):			

Storet Code	Parameter Monitored	Sampling Method	Filtered Y/N	Analysis Method	Analysis Date	Analysis Result	Q	Units	Detection Limits
METALS									
00916	Calcium	Grab	N	SW6010	4/21/2006	140000		µg/L	87
01045	Iron	Grab	N	SW6010	4/21/2006	1700		µg/L	8.9
00927	Magnesium	Grab	N	SW6010	4/21/2006	72000		µg/L	5.0
00937	Potassium	Grab	N	SW6010	4/24/2006	660000		µg/L	300
00929	Sodium	Grab	N	SW6010	4/24/2006	2100000		µg/L	1700
71900	Mercury	Grab	N	SW7470	4/22/2006	0.034	I	µg/L	0.012
SUB									
00620	Nitrogen, Nitrate	Grab	N	E353.2	4/27/2006	0.32		mg/L	0.0040
00630	Nitrogen, Nitrate-Nitrite	Grab	N	E353.2	4/27/2006	0.32		mg/L	0.0040
00615	Nitrogen, Nitrite	Grab	N	SM4500-	4/18/2006	0.0030	L	mg/L	0.0030
WeiChem									
70300	Solids, Total Dissolved	Grab	N	E160.1	4/21/2006	8800		mg/L	1.2
00940	Chloride	Grab	N	E300.0	4/21/2006	2300		mg/L	3.6
00945	Sulfate	Grab	N	E300.0	4/21/2006	5.1	U	mg/L	5.1
00610	Nitrogen, Ammonia (As N)	Grab	N	E350.1	4/26/2006	1300		mg/L	1.4
00440	Alkalinity, Bicarbonate (As CaCO3)	Grab	N	SM2320	4/28/2006	5100	V	mg/L	1.6
00430	Alkalinity, Carbonate (As CaCO3)	Grab	N	SM2320	4/28/2006	1.6	U	mg/L	1.6
00410	Alkalinity, Total (As CaCO3)	Grab	N	SM2320	4/28/2006	5100	V	mg/L	1.6

Conductivity Grab N fld 4/17/06 6526 µmhos 1.00
pH Grab N fld 4/17/06 7.68 units 0.10
DO Grab N fld 4/17/06 1.70 mg/l 0.1001
Temperature Grab N fld 4/17/06 31.98 Deg °C 0.01

Data Qualifier Code Key: I Analyte detected below quantitation limits Q Holding times for preparation or analysis exceeded
 U Not Detected Above the MDL V Analyte detected in the associated Method Blank
 x Value exceeds Maximum Contaminant Level



Central County Wells

PARAMETER MONITORING REPORT

Ground Water (Rule 62-520.400, .420, .460)

Surface Water (Rule 62-302.500, .510, .503)

Leachate (Rule 62-701.510)

LAB Submission Number: F06040755

Sample Number: F06040755-004

Facility WACS:	4058C02034	Sample Date/Time:	4/17/2006 10:00:00 AM
Well/Sampling Point WACS:	Leach 3	Report Period:	1st Semi-annual 2006
Well/Sampling Point Name:	041706CCLEA3	Well Purged:	YES
Classification of Groundwater:	G-II	Well Type:	Leachate
Ground Water Elevation: (NGVD):			

Storet Code	Parameter Monitored	Sampling Method	Filtered Y/N	Analysis Method	Analysis Date	Analysis Result	Q	Units	Detection Limits
METALS									
00916	Calcium	Grab	N	SW6010	4/21/2006	120000		µg/L	87
01045	Iron	Grab	N	SW6010	4/21/2006	2400		µg/L	8.9
00927	Magnesium	Grab	N	SW6010	4/21/2006	96000		µg/L	5.0
00937	Potassium	Grab	N	SW6010	4/25/2006	990000		µg/L	590
00929	Sodium	Grab	N	SW6010	4/24/2006	2000000		µg/L	1700
71900	Mercury	Grab	N	SW7470	4/22/2006	0.020	I	µg/L	0.012
SUB									
00620	Nitrogen, Nitrate	Grab	N	E353.2	4/27/2006	0.25		mg/L	0.0040
00630	Nitrogen, Nitrate-Nitrite	Grab	N	E353.2	4/27/2006	0.25		mg/L	0.0040
00615	Nitrogen, Nitrite	Grab	N	SM4500-	4/18/2006	0.0030	U	mg/L	0.0030
WetChem									
70300	Solids, Total Dissolved	Grab	N	E160.1	4/21/2006	9500		mg/L	1.2
00940	Chloride	Grab	N	E300.0	4/21/2006	2800		mg/L	3.6
00945	Sulfate	Grab	N	E300.0	4/21/2006	5.1	U	mg/L	5.1
00610	Nitrogen, Ammonia (As N)	Grab	N	E350.1	4/26/2006	1700		mg/L	2.7
00440	Alkalinity, Bicarbonate (As CaCO3)	Grab	N	SM2320	4/28/2006	4800	V	mg/L	1.6
00430	Alkalinity, Carbonate (As CaCO3)	Grab	N	SM2320	4/28/2006	1.6	U	mg/L	1.6
00410	Alkalinity, Total (As CaCO3)	Grab	N	SM2320	4/28/2006	4800	V	mg/L	1.6

Conductivity Grab N fld 4/17/06 17070 µmhos 1.00
pH Grab N fld 4/17/06 7.83 units 0.10
DO Grab N fld 4/17/06 1.15 mg/l 0.01
temperature Grab N fld 4/17/06 37.61 deg C 0.01

Data I Analyte detected below quantitation limits Q Holding times for preparation or analysis exceeded
 Qualifier U Not Detected Above the MDL V Analyte detected in the associated Method Blank
 Code Key: x Value exceeds Maximum Contaminant Level



Central County Wells
PARAMETER MONITORING REPORT
 Ground Water (Rule 62-520.400, .420, .460)
 Surface Water (Rule 62-302.500, .510, .503)
 Leachate (Rule 62-701.510)
LAB Submission Number: F06040755
Sample Number: F06040755-005

Facility WACS:	4058C02034	Sample Date/Time:	4/17/2006 10:20:00 AM
Well/Sampling Point WACS:	Leach 4	Report Period:	1st Semi-annual 2006
Well/Sampling Point Name:	041706CCLEA4	Well Purged:	YES
Classification of Groundwater:	G-II	Well Type:	Leachate
Ground Water Elevation: (NGVD):			

Storet Code	Parameter Monitored	Sampling Method	Filtered Y/N	Analysis Method	Analysis Date	Analysis Result	Q	Units	Detection Limits
<u>METALS</u>									
00916	Calcium	Grab	N	SW6010	4/21/2006	310000		µg/L	87
01045	Iron	Grab	N	SW6010	4/21/2006	1400		µg/L	8.9
00927	Magnesium	Grab	N	SW6010	4/21/2006	49000		µg/L	5.0
00937	Potassium	Grab	N	SW6010	4/24/2006	430000		µg/L	300
00929	Sodium	Grab	N	SW6010	4/24/2006	900000		µg/L	1700
71900	Mercury	Grab	N	SW7470	4/22/2006	0.038	I	µg/L	0.012
<u>SUB</u>									
00620	Nitrogen, Nitrate	Grab	N	E353.2	4/27/2006	0.083		mg/L	0.0040
00630	Nitrogen, Nitrate-Nitrite	Grab	N	E353.2	4/27/2006	0.083		mg/L	0.0040
00615	Nitrogen, Nitrite	Grab	N	SM4500-	4/18/2006	0.0030	U	mg/L	0.0030
<u>WeiChem</u>									
70300	Solids, Total Dissolved	Grab	N	E160.1	4/21/2006	4700		mg/L	1.2
00940	Chloride	Grab	N	E300.0	4/21/2006	1100		mg/L	1.8
00945	Sulfate	Grab	N	E300.0	4/21/2006	2.8	I	mg/L	2.6
00610	Nitrogen, Ammonia (As N)	Grab	N	E350.1	4/26/2006	700		mg/L	1.4
00440	Alkalinity, Bicarbonate (As CaCO3)	Grab	N	SM2320	4/28/2006	3000	V	mg/L	1.6
00430	Alkalinity, Carbonate (As CaCO3)	Grab	N	SM2320	4/28/2006	1.6	U	mg/L	1.6
00410	Alkalinity, Total (As CaCO3)	Grab	N	SM2320	4/28/2006	3000	V	mg/L	1.6

Conductivity Grab N fld 4/17/06 8118 µmhos 1.00
pH Grab N fld 4/17/06 6.57 units 0.10
D.O Grab N fld 4/17/06 2.11 mg/l 0.01
Temperature Grab N fld 4/17/06 36.75 deg OC 0.01

Data Qualifier Code Key:
 I Analyte detected below quantitation limits
 U Not Detected Above the MDL
 x Value exceeds Maximum Contaminant Level
 Q Holding times for preparation or analysis exceeded
 V Analyte detected in the associated Method Blank



Central County Wells
PARAMETER MONITORING REPORT
 Ground Water (Rule 62-520.400, .420, .460)
 Surface Water (Rule 62-302.500, .510, .503)
 Leachate (Rule 62-701.510)
LAB Submission Number: F06040755
Sample Number: F06040755-006

Facility WACS:	4058C02034	Sample Date/Time:	4/17/2006
Well/Sampling Point WACS:	Field QC	Report Period:	1st Semi-annual 2006
Well/Sampling Point Name:	Dup	Well Purged:	YES
Classification of Groundwater:	G-II	Well Type:	Leachate
Ground Water Elevation: (NGVD):			

Storet Code	Parameter Monitored	Sampling Method	Filtered Y/N	Analysis Method	Analysis Date	Analysis Result	Q	Units	Detection Limits
METALS									
00916	Calcium	Grab	N	SW6010	4/21/2006	130000		µg/L	87
01045	Iron	Grab	N	SW6010	4/21/2006	2000		µg/L	8.9
00927	Magnesium	Grab	N	SW6010	4/21/2006	95000		µg/L	5.0
00937	Potassium	Grab	N	SW6010	4/25/2006	1000000		µg/L	590
00929	Sodium	Grab	N	SW6010	4/24/2006	2000000		µg/L	1700
71900	Mercury	Grab	N	SW7470	4/22/2006	0.065	I	µg/L	0.012
SUB									
00620	Nitrogen, Nitrate	Grab	N	E353.2	4/27/2006	0.13		mg/L	0.0040
00630	Nitrogen, Nitrate-Nitrite	Grab	N	E353.2	4/27/2006	0.13		mg/L	0.0040
00615	Nitrogen, Nitrite	Grab	N	SM4500-	4/18/2006	0.0030	U	mg/L	0.0030
WetChem									
70300	Solids, Total Dissolved	Grab	N	E160.1	4/21/2006	9800		mg/L	1.2
00940	Chloride	Grab	N	E300.0	4/21/2006	2700		mg/L	3.6
00945	Sulfate	Grab	N	E300.0	4/21/2006	5.1	U	mg/L	5.1
00610	Nitrogen, Ammonia (As N)	Grab	N	E350.1	4/26/2006	1600		mg/L	2.7
00440	Alkalinity, Bicarbonate (As CaCO3)	Grab	N	SM2320	4/28/2006	9400	V	mg/L	1.6
00430	Alkalinity, Carbonate (As CaCO3)	Grab	N	SM2320	4/28/2006	1.6	U	mg/L	1.6
00410	Alkalinity, Total (As CaCO3)	Grab	N	SM2320	4/28/2006	9400	V	mg/L	1.6

Data Qualifier Code Key:	I	Analyte detected below quantitation limits	Q	Holding times for preparation or analysis exceeded
	U	Not Detected Above the MDL	V	Analyte detected in the associated Method Blank
	x	Value exceeds Maximum Contaminant Level		

Leachate Field Data ***

LOCATION: Central County Landfill

DATE: 4-17-06

COLLECTED Terry Foxworthy

SITE ID: CCL1EA 1

TIME	TEMP	Ph	COND.	CORR. COND	DO	TURB.
0900	30.67	7.22		5085	3.78	1.7

WEATHER: Foggy - WARM - WINDY

NOTES: "0910" Sample TAKEN - CLEAR - YELLOW

SITE ID: CCL1EA 2

TIME	TEMP	Ph	COND.	CORR. COND	DO	TURB.
0930	31.98	7.68		6526	1.70	25.3.

WEATHER: Pt Cloudy - WARM - WINDY

NOTES: "0940" Sample TAKEN - CLEAR - TEA-COLOR.

***SAMPLER - 1) FILL ALL FIELD DATA SECTIONS

2) FOR ANY FIELD PARAMETER DENOTED AS "NA", PROVIDE REASON IN I

Leachate Field Data ***

LOCATION: CCSWDC

DATE: 4-17-06

COLLECTED Terry Foxworthy

SITE ID: CCLEA3

TIME	TEMP	Ph	COND.	CORR. COND	DO	TURB.
0950	37.61	7.83		17070	1.15	14.8

WEATHER: Pt Cloudy WARM Windy

NOTES: Sample Taken "10:00"
CLEAR - TEA-COLOR

SITE ID: Dup. - LEA3

TIME	TEMP	Ph	COND.	CORR. COND	DO	TURB.

WEATHER:

NOTES:

***SAMPLER - 1) FILL ALL FIELD DATA SECTIONS
2) FOR ANY FIELD PARAMETER DENOTED AS "NA", PROVIDE REASON IN I

Leachate Field Data ***

LOCATION: CCSWDC

DATE: 4.17.06

COLLECTED Terry Foxworthy

SITE ID: CCLCA 4

TIME	TEMP	Ph	COND.	CORR. COND	DO	TURB.
1010	36.75	6.57		8118	2.11	11.3

WEATHER: PT CLOUDY WARM WINDY

NOTES: 1020 SAMPLE TAKEN
CLEAR-TEA-COLOR.

SITE ID: CCLCA Pump.

TIME	TEMP	Ph	COND.	CORR. COND	DO	TURB.
1030	24.89	7.58		11291	1.25	12.2

WEATHER: PT CLOUDY - WARM WINDY

NOTES: "10:40" SAMPLE TAKEN / CLEAR-TEA COLOR

- ***SAMPLER - 1) FILL ALL FIELD DATA SECTIONS
2) FOR ANY FIELD PARAMETER DENOTED AS "NA", PROVIDE REASON IN I

