



Florida Department of Environmental Protection

Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Noah Valenstein
Secretary

September 4, 2018

Email:

Aws97@aol.com

Mr. Gerald Lourenco
Friends Recycling, LLC
2350 NW 27th Avenue
Ocala, Florida 34475

Friends Recycling C&D Landfill
Marion County – SW - WACS ID: 21012
2350 NW 27th Avenue
Ocala, FL 34475

Monitoring Plan Implementation Schedule (MPIS) Revision

Dear Mr. Lourenco:

The Monitoring Plan Implementation Schedule (MPIS) for the **Friends Recycling C&D Landfill – WACS ID: 21012 – Marion County** has been revised. The revisions to the MPIS include the time interval for each MPIS Technical Report, and correction of the expected submittal dates through April 2023. The revised 8/30/2018 MPIS is attached.

If you have any questions or need additional information, please contact Dale Melton by telephone at (407) 897-4326 or by e-mail at Dale.Melton@dep.state.fl.us.

Sincerely,

A handwritten signature in blue ink that reads "Lu Burson".

Lu Burson
Environmental Administrator
Permitting and Waste Cleanup
Florida Department of Environmental Protection

LB/dm

Attachment: Revised MPIS – 8/30/2018 – Friends Recycling C&D Landfill

cc: Nick Giumarelli, Operator - Friends Recycling Friends2350@gmail.com
Paul Wildman, P.E. Guerra Development PW@Guerracorp.net
DEP Central District, Lu Burson, Christine Daniel, Kim Rush, Dale Melton, Jeff Rustin, Brad Whidden

APPENDIX 3

FRIENDS RECYCLING LLC-C&D DISPOSAL AND RECYCLING

WACS_FACILITY: 21012

MONITORING PLAN IMPLEMENTATION SCHEDULE

08/30/2018

GENERAL

1. This MPIS replaces the MPIS dated **10/6/2014**, corrected **08/30/2018**. It becomes part of permit No. 19600-009 SO24 and is effective from the date of the permit. [**62-701.510(1)(b)&(c), 62-520.600(5), (F.A.C.)**]
2. The field testing, sample collection and preservation and laboratory testing, including quality control procedures, shall be in accordance with Chapter 62-160 (F.A.C.). Approved methods as published by the Department or as published in Standard Methods, ASTM, or EPA Methods shall be used. [**62-701.510(2)(b), F.A.C.**]
3. The organization collecting samples at this site must use the Field and Laboratory Standard Operating Procedures (DEP-SOP-001/01) referenced in Chapter 62-160, F.A.C. Sampling personnel must have a copy of the SOP for purging and sampling in the field when sampling and must be knowledgeable of its contents, procedures, and forms. The laboratory designated to conduct the chemical analyses must be certified by the Florida Department of Health Environmental Laboratory Certification Program (DoH ELCP). This Certification must be for the test method and analyte(s) that are reported. [**62-160.210(1), 62-160.300(1), F.A.C.**]

NOTE: DEP-SOP-001/01 can be accessed at: <http://www.dep.state.fl.us/water/sas/sop/sops.htm>

4. If, at any time, analyses detect parameters which are significantly above background water quality, or which are at levels above the Department's water quality standards or criteria specified in Chapter 62-520, F.A.C., in the detection wells or at the edge of the Zone of Discharge, the Permittee, to confirm the data, shall resample the wells within thirty (30) days of receipt of the sampling data. Should the permittee choose not to resample, the Department will consider the water quality analysis as representative of current ground water conditions at the facility. The permittee must notify the Department within 14 days of receipt of the sampling data whether the original data will be accepted as representative of current ground water conditions or whether resampling will be accomplished to confirm the data.

If the resampling event detects parameters which are significantly above background water quality, or which are at levels above the Department's water quality standards or criteria specified in Chapter 62-520, F.A.C., the Permittee shall notify the Department in writing within 14 days of receipt of the sampling data. Confirmed data must be submitted to the Department within 60 days from completion of lab analyses. Use "CONF" (for confirmation data) in the report type column. [**62-701.510(6)(a), F.A.C.**]

Upon notification by the Department, the permittee shall initiate evaluation monitoring in accordance with Rule 62-701.510(6) F.A.C. **[62-701.510(6)(a), F.A.C.]**

GROUND WATER QUALITY MONITORING

5. The six (6) ground water monitoring wells designated for water quality testing are listed on Attachment A and are shown on Attachment B. **[62-701.730(4)(b)3, F.A.C.] [62-701.510(3)(d)2 & 3, F.A.C.]**

NOTE: Unless otherwise approved by the Department, wells with high turbidities must be remediated or reinstalled to reduce the turbidity value to less than 20 NTU prior to sample collection. Should any ground water sample exhibit dissolved oxygen concentrations greater than 20% of oxygen saturation at the field measured temperature, the sampled well must be repurged then resampled as soon as an acceptable dissolved oxygen value has been attained unless it can be demonstrated that in situ ground water contains higher levels of dissolved oxygen. All water quality analyses will be performed on unfiltered samples unless approved by the Department.

6. Initial samples shall be collected from any new ground water monitoring well for the following Initial Ground Water Monitoring Parameters. **[62-701.510(5)(b)2, F.A.C.]**

Field Parameters	Laboratory Parameters
1. Static water level in wells before purging	1. Aluminum
2. Dissolved oxygen	2. Iron
3. pH	3. Sodium
4. Specific conductivity	4. Chlorides
5. Temperature	5. Nitrate
6. Turbidity	6. Sulfate
7. Color and Sheens (by observation)	7. Total ammonia as N
	8. Total Dissolved Solids
	9. Those parameters listed in 40 CFR Part 258 Appendices II

* Mercury not on list because it is included in Appendix II

7. Semi-annual samples from the current ground water monitoring wells (See Attachment A) shall be collected in **January** and **July**. The samples shall be analyzed for the following Semi-Annual Ground Water Monitoring Parameters. **[62-701.510(5)(c) & (7)(a), F.A.C.]**

Field Parameters	Laboratory parameters
1. Static water level in wells before purging	1. Aluminum
2. Specified conductivity	2. Chlorides
3. pH	3. Nitrate
4. Dissolved oxygen	4. Sulfate
5. Turbidity	5. Total dissolved solids (TDS)
6. Temperature	6. Iron
7. Colors and sheens (by observation)	7. Sodium
	8. Arsenic
	9. Cadmium
	10. Chromium
	11. Lead
	12. Mercury
	13. Total ammonia – N
	14. Total Xylenes
	15. Those parameters listed in 601 & 602

8. Permit renewal samples from all background and compliance wells shall be collected not more than 90 days prior to submittal of the permit renewal application, unless approved by the Department. The samples shall be analyzed for the following Permit Renewal Ground Water Monitoring Parameters. **[62-701.730(4)(b)5,F.A.C.]**

Field Parameters	Laboratory Parameters
1. Static water level in wells before purging	1. Aluminum
2. Dissolved oxygen	2. Iron
3. pH	3. Mercury
4. Specific conductivity	4. Sodium
5. Temperature	5. Chlorides
6. Turbidity	6. Nitrate
7. Colors and sheens (by observation)	7. Sulfate
	8. Total ammonia as N
	9. Total Dissolved Solids
	10. Those parameters listed in 40 CFR Part 258 Appendix I

Please confer with your consultant and analytical laboratory prior to sampling to ensure the analytical method is capable of achieving detection limits at or below the Ground Water Cleanup Target Levels (GCTLs) in Chapter 62-777, F.A.C. except those listed in Table C of the “FDEP Guidance for the Selection of Analytical Methods and for the Evaluation of Practical Quantitation Limits dated 10/12/2004”. SCTLs are used as screening tools and interim guidelines for ground water minimum criteria until standards are promulgated.

9. Please confer with your consultant and analytical laboratory prior to sampling to ensure the analytical method is capable of achieving detection limits at or below the Ground Water Cleanup Target Levels (GCTLs) in Chapter 62-777, F.A.C. except those listed in Table C of the “FDEP Guidance for the Selection of Analytical Methods and for the Evaluation of Practical Quantitation Limits dated 10/12/2004”. SCTLs are used as screening tools and interim guidelines for ground water minimum criteria until standards are promulgated.

MONITORING WELL REQUIREMENTS

10. If a monitoring well or piezometer becomes damaged or inoperable, the Permittee shall notify the Department in writing within seven (7) days. The written report shall describe what problem has occurred and the remedial measures that have been taken to prevent a recurrence. The Department can require the replacement of inoperable monitoring wells or piezometers. **[62-4.070(3), F.A.C.]**
11. New or replacement monitoring well design or placement must be approved by the Department. Proposed well construction details based on site-specific borings must be submitted with all supporting data (grain size distribution analyses, in-situ hydraulic conductivity testing, depth to water, etc.) for Department approval prior to well installation. Use of hollow stem auger equipment is recommended. Other drilling methods must be approved by the Department prior to well installation. **[62-520.600(3), F.A.C.]**
12. All wells and piezometers shall be clearly and permanently labeled and the well site maintained so that the well is visible at all times. Protective barriers must be installed at all wells that may be subject to damage by heavy equipment or traffic. **[62-701.510(3)(d)2, F.A.C.]**
13. An abandonment plan for abandoning any well that is unsuitable for ground water monitoring or for any piezometer must be approved by the Department prior to abandonment. **[62-701.510(3)(d)6, F.A.C.]**

REPORTING REQUIREMENTS

FIELD ACTIVITIES

14. The Department must be notified in writing, hard copy or e-mail, at least fourteen (14) days prior to the installation and/or sampling of any monitoring well(s). **[62-701.510(8)(a), F.A.C.]**

MONITORING WELL COMPLETION

15. One (1) paper copy and one (1) electronic copy (Adobe pdf format) of **Attachment C Monitoring Well Completion Report** (as modified by the Central District) and required Attachment s (for example, construction diagram and lithologic log), must be submitted to the Department within thirty (30) days after installation of any new or replacement monitoring well(s) In addition, as built well construction diagrams and soil boring logs that cover the entire depth of the monitoring well(s) must be submitted to the Department.

NOTE: The top of casing elevation of each well, to an accuracy of 0.01 feet, and the latitude and longitude of each well in degrees, minutes and seconds, to two (2) decimal places, with an accuracy of 15 feet, must be determined and certified by a Florida Licensed Surveyor and Mapper and provided on the form. **[62-701.510(3)(d)1 & 62-532.410, F.A.C.]**

SURVEYING

16. One (1) paper copy and one (1) electronic copy (Adobe pdf format) of a drawing must be submitted within thirty (30) days following monitoring well installation showing the location of all monitoring wells (active and abandoned), piezometers, water bodies and waste filled areas. The location of features on the drawing must be horizontally and vertically located by standard surveying techniques. The drawing shall include all monitoring well locations, each monitoring well name and identification (WACS) number, the top of casing, pad elevation, permanent benchmark(s) and/or corner monument marker(s) referenced to NGVD 1929 with an accuracy of 0.01 feet. The latitude and longitude of each well in degrees, minutes and seconds, to two (2) decimal places, with an accuracy of 15 feet, must be determined and provided on the drawing. The survey shall be conducted and certified by a Florida Licensed Surveyor and Mapper. **[62-701.510(1)(c)&(3)(d)1, F.A.C.]**
17. If a monitoring well is being replaced or new wells are being added to an existing ground water monitoring plan, only the new wells need to be surveyed as long as all other monitoring wells in the MPIS have been surveyed and certified by a Florida Licensed Surveyor and Mapper and there is no reason to believe that the elevations have changed. The location and elevation determinations and the certification must be provided with the Monitoring Well Completion Form for the new well,

DEPTH MEASUREMENTS

18. A total depth measurement must be made on all wells at time of permit renewal. This measurement is to be reported on one (1) paper copy and one (1) electronic copy (Adobe pdf format) as total apparent depth below ground surface and should be compared to the original total depth of the well. **[62-701.510(1)(c), F.A.C.]**

INITIAL AND SEMI-ANNUAL SAMPLING

19. Required monitoring reports must be submitted to the Department within sixty (60) days from completion of lab analyses. Requirement for submitting the report is outlined in **Attachment D (ADaPT electronic reporting requirement) [62-701.510(8), F.A.C.]**

WATER ELEVATIONS

20. Water levels in all monitoring wells, whether sampled or not, and all piezometers must be measured to the nearest 0.01 foot and reported semi-annually. All water level measurements must be made within a one-day period. These measurements should be reported in a table that includes well name, date water level measured, measuring point elevation referenced to NGVD 1929, depth to water and calculated water level elevation referenced to NGVD 1929. **[62-701.510(8)(a)8, F.A.C.]**

GROUND WATER CONTOUR MAPS

21. Ground water elevation contour maps must be submitted semi-annually to the Department as part of the Monitoring Report (see Attachment D, Item II.4). Ground water elevation contour map(s) should include all monitoring well locations, ground water elevation at each monitoring well location referenced to NGVD 1929, a bar scale, north arrow, ground water contour interval, date of measurement and ground water flow direction. The map(s) must incorporate adjacent and on-site surface water elevations where appropriate. These maps shall be signed and sealed pursuant to Florida Statutes (F.S.) Chapters 471 and 492 which require that documents requiring the practice of professional engineering or professional geology, as described in Chapter 471 or 492, F.S., be signed and sealed by the professional(s) who prepared or approved them. This certification must be made by a licensed professional who is able to demonstrate competence in this subject area. **[62-701.510(8)(a)9, F.A.C.]**

MPIS Technical Report (formerly Biennial Report)

22. A technical report, signed and sealed by a professional geologist or professional engineer with experience in hydrogeologic investigations, shall be submitted to the Department every two and one-half years during the active life of the facility, and every five years during the long-term care period. The report shall summarize and interpret the water quality monitoring results and water level measurements collected during at least the past five sampling events. The report shall contain, at a minimum, the following **[62-701.510(8)(b), F.A.C.]**:

- a Tabular displays of any data which shows that a monitoring parameter has been detected, and graphical displays of any leachate key indicator parameters detected (such as pH, specific conductance, TDS, TOC, sulfate, chloride, sodium and iron), including hydrographs for all monitor wells;
- b Trend analyses of any monitoring parameters consistently detected;
- c Comparisons among shallow, middle, and deep zone wells;
- d Comparisons between background water quality and the water quality in detection and compliance wells;
- e Correlations between related parameters such as total dissolved solids and specific conductance;
- f Discussion of erratic and/or poorly correlated data;
- g An interpretation of the ground water contour maps, including an evaluation of ground water flow rates; and
- h An evaluation of the adequacy of the water quality monitoring frequency and sampling locations based upon site conditions.

23. One (1) electronic copy (Adobe pdf format) of the MPIS Technical Report shall be submitted to the Department:

(Technical Report due dates corrected on 8/30/2018)

Report	Sampling Periods Covered	Minimum Number of Semi-Annual Sampling Events in Report	MPIS Technical Report Due Dates
Interim Technical Report 1	July 2013 through July 2015	5	November 30, 2015
Interim Technical Report 2	January 2016 through January 2018	5	May 31, 2018
Interim Technical Report 3	July 2018 through July 2020	5	November 30, 2020
Permit Renewal Technical Report	January 2021 through January 2023	5	Permit Renewal SO24-19600-008 Due with Renewal Application Date: 04/19/2023

Requirements for Electronic Reporting of Water Quality Data

24. Required water quality monitoring reports and all ground water, analytical results shall be submitted as described in Attachment **D (ADaPT electronic reporting requirement)**. Required monitoring reports must be submitted to the Department within sixty (60) days from completion of lab analyses. **(62-160.240 and 62-160.340, F.A.C.)**

25. Monitoring Plan Implementation Schedule major MPIS versions:

Date	Reason for MPIS	Notation
6/25/2013	Permit Renewal	<ul style="list-style-type: none">• Updated for Chapter 62-701, F.A.C revisions.
12/30/2013	Correction	<ul style="list-style-type: none">• The sampling months in the 6/25/2013 MPIS had March & September. The months have been corrected to correspond to the months the facility has been sampling January and July.
10/6/2014	MPIS Updated with Permit Modification	<ul style="list-style-type: none">• MPIS updated for first sentence in Condition #21, dates, permit number, and this table.• Attachment D Updated for contacts and current procedures• Other MPIS attachments reissued with no changes

List of Attachment s

Attachment A – Monitoring Well Sampling Point List

Attachment BI thru BIV – Monitoring Location Maps

Attachment C – Monitoring Well Completion Report Form

Attachment D – ADaPT Electronic Reporting Requirements

Attachment E – Ground Water Monitoring Report Certification Form

Attachment F – Water Sampling Log

ATTACHMENT A
FRIENDS RECYCLING, LLC C&D LANDFILL
WACS_FACILITY: 21012
MONITORING SITES

	Monitoring Site Number	WACS Well	Well Type	Zone/ Screen	GW/SW Class	WACS Sampling Types
Ground Water						
1.	MW-1	18811	DE	Floridan	G-II	SEMCD/RENC
2.	MW-5	22912	DE	Floridan	G-II	SEMCD/RENC/INTGW
3.	MW-6	22913	DE	Floridan	G-II	SEMCD/RENC/INTGW
4.	MW-7	22914	DE	Floridan	G-II	SEMCD/RENC/INTGW
5.	MW-8	22915	CO	Floridan	G-II	SEMCD/RENC/INTGW
6.	MW-9	22916	CO	Floridan	G-II	SEMCD/RENC/INTGW

Well Type Codes: (CO) Compliance (DE) Detection

Sampling Type Codes: (SEMCD) Semi-annual C&D Parameters (RENC) Renewal C&D Parameters (INTGW) Initial Ground Water Monitoring

MPIS 2013-06 reissued 2014-10

ATTACHMENT C

Florida Department of Environmental Protection

3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803-3767

MONITORING WELL COMPLETION REPORT FORM

Facility Name: Friends Recycling LLC-C&D Disposal and Recycling				Date:	
DEP Permit No.:			WACS Facility ID #:21012		
WACS Monitoring Site ID #:			WACS Monitoring Site Name:		
Well Type: D Background D Detection D Compliance D Other_____					
LATITUDE AND LONGITUDE (See Next Page For Requirements):					
Coordinate Accuracy:		Datum:		Elevation Datum:	
Collection Method:				Collection Date:	
Collector Name:				Collector Affiliation:	
Aquifer Monitored:					
Drilling Method:				Date Installed:	
Installed By:					
Bore Hole Diameter:				Total Depth:(BLS)	
Casing Type:		Casing Diameter:		Casing Length:	
Screen Type:		Screen Slot Size:		Screen Length:	
Screen Diameter:		Screen Interval:_____To_____ (BLS)			
Filter Pack Type:			Filter Pack Grain Size:		
Filter Interval Covered:		Filter Interval:_____To_____ (BLS)			
Sealant Type:		Sealant Interval:_____To_____ (BLS)			
Grout Type:		Grout Interval:_____To_____ (BLS)			
Top Of Casing Elev. (NGVD):			Ground Surface Elev. (NGVD):		
Post Development Water Level Elev. (NGVD):			Date And Time Measured:		
Describe Well Development:					
Remarks:					
Name Of Person Preparing Report:					
Organization:				Phone Number:	

NOTE Attach As-Built Mw Construction Diagram, Lithologic Log, And Survey Drawing (See Next Page).

(NGVD)=National Geodetic Vertical Datum Of 1929 (BLS) = Below Land Surface

DEP Form 62-520.900(3) Effective April 14, 1994

Additional Survey Notes:

1. Latitude and Longitude Requirements and Definitions:
 - a. **Latitude** must be measured in degrees, minutes and seconds, to at least two (2) decimal places.
 - b. **Longitude** must be measured in degrees, minutes and seconds, to at least two (2) decimal places.
 - c. **Eastings and northings** (State Plane Coordinates) **must** be converted to latitude and longitude.
 - d. **Coordinate Accuracy:** the measured, estimated degree of correctness of the measurement. An accuracy of 15 feet or 5 meters is required.
 - e. **Datum:** the horizontal reference for measuring locations on the Earth's surface. NAD83-North American Datum of 1983 is preferred.
 - f. **Elevation Datum:** the reference datum from which elevation measurements are made. NGVD29 (National Geodetic Vertical Datum of 1929 is required).
 - g. **Collection Method:** the method or mechanism used to derive the measurements, e.g. GPS, map, aerial photo, etc.
 - h. **Collection Date:** the date and time on which the measurements were taken.
 - i. **Collector Name:** the name of the person taking the measurement.
 - j. **Collector Affiliation:** the agency or company for whom the collector works.
2. As specified in the MPIS, One (1) paper copy and one (1) electronic copy of a drawing must be submitted within thirty (30) days following monitoring well installation showing the location of all monitoring wells (active and abandoned), water bodies and waste filled areas. The location of features on the drawing must be horizontally and vertically located by standard surveying techniques. The drawing shall include all monitoring well locations, each monitoring well name and identification (WACS) number, the top of casing, pad elevation, permanent benchmark(s) and/or corner monument marker(s) referenced to NGVD with an accuracy of 0.01 feet. The latitude and longitude of each well in degrees, minutes and seconds, to two (2) decimal places, with an accuracy of 15 feet, must be determined and provided on the drawing. The survey shall be conducted and certified by a Florida Licensed Surveyor and Mapper. [62-701.510(1)(c)&(3)(d)1, F.A.C.]
3. If a monitoring well is being replaced or new wells are being added to an existing ground water monitoring plan, only the new wells needs to be surveyed as long as all other monitoring wells in the MPIS have been surveyed and certified by a Florida Licensed Surveyor and Mapper and there is no reason to believe that the elevations have changed. This location and elevation determinations and the certification must be provided with the Monitoring Well Completion Form for the new well,.

Attachment D
Guidance for Submitting Electronic Water Quality Data
To the FDEP Central District Waste & Air Resource Programs
10/6/2014

I. General Information

Water quality monitoring reports and all groundwater, surface water, and leachate (when required) analytical results for the Solid Waste Program shall be submitted to the Department electronically via email, FTP site, compact disc, or flash drive media readable by Microsoft Windows.

(Rules 62-160.240 and 62-160.340, F.A.C.)

Water quality monitoring reports shall be submitted in Adobe pdf format. The water quality Electronic Data Deliverable (EDD) shall be compatible with software called Florida DEP Automated Data Processing Tool (ADaPT) --unless otherwise approved by the Department.

ADaPT has been developed to evaluate and upload water quality data into the Department's Water Assurance Compliance System (WACS) database. A copy of this ADaPT software with installation instructions and EDD specifications can be downloaded from the following website address:

<http://www.dep.state.fl.us/waste/categories/shw/pages/ADaPT.htm>

II. Monitoring Report

The groundwater monitoring report shall be submitted in Adobe PDF format, with the EDDs as an attachment. The report shall include the following items:

1. Cover letter;
2. Summary of exceedances and sampling issues (if any, for example, variation from SOP field criteria);
3. Conclusions and recommendations;
4. Groundwater contour maps;
5. Chain of custody forms;
6. Water levels, water elevation table;
7. Groundwater Monitoring Report Certification, using the appropriate Department form **(Attachment E)**;
8. Appropriate sampling information on Form FD 9000-24 (DEP-SOP-001/01); **(Attachment F)**;
9. Laboratory EDDs and associated Lab EDD Error Logs, Field EDDs that are compatible with ADaPT software and ADaPT export file(s).

(NOTE: You no longer have to complete or submit the DEP Form 62-522.900(2), Parameter Monitoring Report.)

The monitoring report (including ADaPT EDDs) should be emailed to Tallahassee using the following email address: ADaPT.EDDs.and.Reports@dep.state.fl.us.

Submit all ADaPT files in a single zip file named as follows:

12345_200811_swldd.zip

Submit the monitoring report in a single (text, no scanned content) PDF file named as follows:

12345_200811_swgwmr.pdf

Please do not submit multiple documents for the monitoring report; combine all documents in a single PDF document. Less preferable, zip these documents into a single zip file named as follows:

12345_200811_swgwmr.zip

(Note: refer to Section III below for details of file nomenclature.)

If attachments are too large to email, monitoring reports may also be transmitted to the FDEP Solid Waste program in Tallahassee using the following FTP site: ftp://ftp.dep.state.fl.us/pub/WACS-ADaPT/EDDS_and_Reports

Note: When submitting files to the FTP site, please combine all ADaPT EDDs and the groundwater monitoring report into a single zip file (sw_12345_200811_gwmr.zip).

Please email us at ADaPT.EDDs.and.Reports@dep.state.fl.us informing us of what files were transmitted via FTP for which facility sampling event.

If you are unable to submit the groundwater monitoring report electronically via email or FTP, it can also be sent by regular mail to:

Florida Department of Environmental Protection
Solid Waste Section, MS 4565
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

III. ADaPT EDDs

The ADaPT EDD consists of two electronic deliverables:

- (1) a Laboratory EDD, identified as swldd.txt; and
- (2) a Field EDD identified as swfdd.txt.

The Laboratory EDD shall be submitted in a comma separated (csv format) text file using the .txt filename extension. The Laboratory EDD file name format shall be:
[WACS Facility I.D.] underscore [Begin Sampling Year and Month (yyyymm)] underscore SWldd.txt

For example, with WACS Facility I.D. # 12345 where sampling started in November and ended in December of 2008, the Laboratory EDD file name should be:
12345_200811_swldd.txt

The Field EDD shall be submitted in the same comma separated (.csv format) text file as the Laboratory EDD. The Field EDD file name format shall be:
[WACS Facility I.D.] underscore [Begin Sampling Year and Month (yyyymm)] underscore swfdd.txt

For example, with WACS Facility I.D. # 12345 where sampling started in November and ended in December of 2008, the file name should be: 12345_200811_swfdd.txt

For confirmation sampling, add the term “_conf” to the EDD filenames as follows:

12345_200811_conf_swldd.txt for the Laboratory EDD or
12345_200811_conf_swfdd.txt for the Field EDD.

For radiochemistry results, add the term “_rad” similar to confirmation sampling indicated above.

IV. Signatures Required

Water quality monitoring reports and interpretative documents (such as recommendations about exceedances and/or contour maps) shall be signed and sealed by a Florida registered professional geologist or professional engineer with experience in hydrogeological investigations.

An electronic signed and sealed signature page may be submitted with the report provided a stamped seal is used. If a raised seal is used, ensure that the seal is legible (gray the embossed seal and scan). Otherwise, you must separately mail the signed and sealed page.

V. Process Required

Three steps are generally required.

First, the Laboratory EDD, in comma separated text format, must be submitted by the laboratory. In order to validate the QA/QC aspects of the Laboratory EDD, the permittee shall ensure the laboratory processes the Laboratory EDD through ADaPT using both their laboratory specific library and the Department's Division of Waste Management Master library and corrects all critical errors and explains all non-critical errors prior to submittal.

Second, the appropriate entity (laboratory, consultant, or permittee) shall process the Field EDD through ADaPT and correct all Field EDD errors prior to submittal.

Third, as a completeness check, the laboratory, permittee or consultant shall process both the Laboratory EDD and the Field EDD through ADaPT and confirm a successful export to disk and submit the ADaPT generated export file (ADaPTYYYMMDDHHMMSS.txt).

VI. Resources

In the event help is needed to prepare these EDDs, or monitoring test site information needs updating in the WACS Oracle database, or if you need help in submitting the groundwater monitoring report, please contact the Laxsabee Levin (407-897-4313) at the Central District office:

Florida Department of Environmental Protection
Central District Office
Waste and Air Resource Programs
3319 Maguire Blvd., Ste. 232
Orlando, FL 32803-3767

DEP_CD@dep.state.fl.us

You can also receive assistance by contacting Clark Moore, clark.b.moore@dep.state.fl.us, (850) 245-8739 or by emailing ADaPT.EDDs.and.Reports@dep.state.fl.us

ATTACHMENT E

Florida Department of Environmental Protection

3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803-3767

GROUND WATER MONITORING REPORT

Rule 62-522.600(11)

PART I GENERAL INFORMATION

(1) Facility Name Friends Recycling LLC-C&D Disposal and Recycling

Address _____

City _____ Zip _____ County _____

Telephone Number () _____ E-mail address _____

(2) WACS_Facility 21012

(3) DEP Permit Number _____

(4) Authorized Representative's Name _____ Title _____

Address _____

City _____ Zip _____ County _____

Telephone Number () _____ E-mail address _____

(5) Type of Discharge _____ N/A

(6) Method of Discharge _____ N/A

CERTIFICATION

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

Date

Owner or Authorized Representative's Signature

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization _____

Analytical Lab NELAC #/HRS Certification _____

Lab Name _____

Address _____

Phone Number () _____

E-mail Address _____

FACILITY NAME: Friends Recycling LLC-C&D Disposal and Recycling WACS 21012		FACILITY LOCATION:	
MONITORING_SITE_NUM:	WACS_WELL:	DATE:	

WELL DIAMETER (inches):		TUBING DIAMETER (inches):		WELL SCREEN INTERVAL DEPTH: feet to feet		STATIC DEPTH TO WATER (feet):		PURGE PUMP TYPE OR BAILER:			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= (feet – feet) X gallons/foot = gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME +(TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
= gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):			FINAL PUMP OR TUBING DEPTH IN WELL (feet):			PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/c m or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

SAMPLED BY (PRINT) / AFFILIATION:				SAMPLER(S) SIGNATURES:			SAMPLING INITIATED AT:		SAMPLING ENDED AT:	
PUMP OR TUBING DEPTH IN WELL (feet):				SAMPLE PUMP FLOW RATE (mL per minute):			TUBING MATERIAL CODE:			
FIELD DECONTAMINATION: Y N				FIELD-FILTERED: Y N FILTER SIZE: _____µm Filtration Equipment Type: _____			DUPLICATE: Y N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
REMARKS:										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)										

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, $+ 0.2$ mg/L or $+ 10\%$ (whichever is greater) **Turbidity:** all readings < 20 NTU; optionally $+ 5$ NTU or $+ 10\%$ (whichever is greater)