



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

BOB MARTINEZ CENTER  
2600 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32399-2400

RICK SCOTT  
GOVERNOR

CARLOS LOPEZ-CANTERA  
LT. GOVERNOR

HERSCHEL T. VINYARD JR.  
SECRETARY

September 3, 2014

E-Mail

[Imarion@volusia.org](mailto:Imarion@volusia.org)

In the Matter of an  
Application for Permit by:  
Leonard Marion, Director  
Volusia County Solid Waste Division  
3151 East New York Ave.  
DeLand, Florida

Volusia County  
WACS # 27540  
Tomoka Farms Road Landfill – Class III  
1990 Tomoka Farms Road  
Port Orange, Volusia County, Florida

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Attention: Mr. Marion

DEP File No: 0078767-034-SO-T3

This is the Department's Intent to Issue Permit No. 0078767-034-SO-T3. Enclosed with the Intent to Issue is a Draft Permit for the project and file number noted above. Please contact the Tallahassee office of the Department's Solid Waste Program at 850-245-8707 if you have any questions or need further information.

## INTENT TO ISSUE - PERMIT

The Department of Environmental Protection gives notice of its intent to issue a permit (copy attached) for the proposed project as detailed in the application specified above, for the reasons stated below.

The applicant, Leonard Marion, Director of Volusia County Solid Waste Division applied on June 20, 2014, to the Department of Environmental Protection, for a permit to operate a facility located at 1990 Tomoka Farms Road, Port Orange, Volusia County, Florida.

The Department has permitting jurisdiction under Section 403.707(1), Florida Statutes (F.S.) and Chapters 62-4 and 62-701, Florida Administrative Code (F.A.C.). The project is not exempt from permitting procedures. The Department has determined that an operation permit is required.

Pursuant to Section 403.815, F.S., you are required to publish at your own expense the enclosed Notice of Proposed Agency Action. The notice shall be published one time only within 30 days in

the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. Where there is more than one newspaper of general circulation in the county, the newspaper used must be one with significant circulation in the area that may be affected by the permit. If you are uncertain that a newspaper meets these requirements, please contact the Department at the following address or telephone number. You must provide proof of publication to the Department at the following address as soon as practical after publication. This address and phone number are: Department of Environmental Protection, Solid Waste Section, 2600 Blair Stone Road, Mail Station 4565, Tallahassee, Florida 32317, phone: 850-245-8707.

The Department will issue the permit with the attached conditions unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

Petitions by the applicant or any of the parties listed below must be filed within 14 days of receipt of this written notice. Petitions filed by other persons must be filed within 14 days of publication of the notice or receipt of the written notice, whichever occurs first. Under Section 120.60(3), F.A.C., however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication. The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;

(d) A statement of all material facts disputed by petitioner or a statement that there are no disputed facts;

(e) A statement of the ultimate facts alleged, including a statement of the specific facts which the petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

In accordance with Section 120.573, F.S., the Department advises that mediation is not available in this case under the provisions of that statute. This does not prevent any interested parties from agreeing to other forms of alternate dispute resolution.

Any party to this order has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110, Florida Rules of Appellate Procedure, with the clerk of the Department in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Leon County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

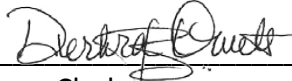


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Tim Bahr, P.G., Program Administrator  
Permitting and Compliance Assistance Program

FILING AND ACKNOWLEDGEMENT

FILED, on this date, pursuant to Section 120.52, F.S. with the designated Department Clerk, receipt of which is hereby acknowledged.

  
Clerk

09/03/2014

Date

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this INTENT TO ISSUE – PERMIT and all copies were sent before the close of business on September 3, 2014 to the listed persons.

  
Clerk

Enclosures:

1. Text for “Notice of Proposed Agency Action”
2. Draft Permit No. 0128169-037-SO-01

Cc:

Junos Reed, P.E. - Volusia County, [jreed@volusia.org](mailto:jreed@volusia.org)

Jennifer Stirk - Volusia County, [jstirk@volusia.org](mailto:jstirk@volusia.org)

El Kromhout, P.G., DEP Tallahassee PCAP – SWPP, [elizabeth.kromhout@dep.state.fl.us](mailto:elizabeth.kromhout@dep.state.fl.us)

FDEP Solid Waste Financial Coordinator, [solid.waste.financial.coordinator@dep.state.fl.us](mailto:solid.waste.financial.coordinator@dep.state.fl.us)

Richard Tedder, P.E. DEP Tallahassee PCAP – SWPP, [richard.tedder@dep.state.fl.us](mailto:richard.tedder@dep.state.fl.us)

Reggie Phillips – DEP, Central District, [reggie.phillips@dep.state.fl.us](mailto:reggie.phillips@dep.state.fl.us)

Tom Lubozynski, P.E. – DEP, Central District, [Tom.Lubozynski@dep.state.fl.us](mailto:Tom.Lubozynski@dep.state.fl.us)

Kim Rush, P.E. - DEP, Central District, [Kim.Rush@dep.state.fl.us](mailto:Kim.Rush@dep.state.fl.us)

Mehran (Ron) S. Beladi, P.E. – Neel-Schaffer, Inc., [ron.beladi@neel-schaffer.com](mailto:ron.beladi@neel-schaffer.com)

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
NOTICE OF PROPOSED AGENCY ACTION

The Department of Environmental Protection gives Notice of its Intent to issue a solid waste operation permit to Leonard Marion, Director of Volusia County Solid Waste Division, for the Tomoka Farms Road Class III Landfill located at 1990 Tomoka Farms Road, Port Orange, FL 32128. The permit authorizes the permittee to continue operations of the Class III for 10 years. The Department has assigned File Number(s) 0078767-034-SO-T3 to this project.

The Department's file on this matter is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the Department of Environmental Protection, Solid Waste Section, 2600 Blair Stone road, Tallahassee, Florida 32317, phone 850-245-8707. Documents are also available at the following link: [http://appprod.dep.state.fl.us/WWW\\_WACS/REPORTS/SW\\_Facility\\_Docs.asp?wacsid=27540](http://appprod.dep.state.fl.us/WWW_WACS/REPORTS/SW_Facility_Docs.asp?wacsid=27540)

A person whose substantial interests are affected by the above proposed agency action may petition for an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel, Marjory Stoneman Douglas Building, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within 14 days of publication of this notice or receipt of the written notice, whichever occurs first. The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes, or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of all material facts disputed by petitioner or a statement that there are no disputed facts;

(e) A statement of facts which the petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes the petitioner contends require reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by rule 28-106.301 of the Florida Administrative Code.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above

In accordance with Section 120.573, F.S., the Department advises that mediation is not available in this case as an alternative to filing a petition for an administrative determination.



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2600 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32399-2400

RICK SCOTT  
GOVERNOR

CARLOS LOPEZ-CANTERA  
LT. GOVERNOR

HERSCHEL T. VINYARD JR.  
SECRETARY

## Permit Issued to:

Volusia County Solid Waste Division  
3151 East New York Ave.  
DeLand, Florida  
(386) 943-7889

WACS Facility ID No.: 27540  
Tomoka Farms Road Landfill – Class III  
1990 Tomoka Farms Road  
Port Orange, Volusia County, Florida

Contact Person:  
Leonard Marion, Director  
[lm Marion@co.volusia.fl.us](mailto:lm Marion@co.volusia.fl.us)

### **Solid Waste Operation Permit – Landfill**

Permit No.: 0078767-034-SO-T3  
Replaces Permit No.: SO64-0078767-026

Permit Issued: XX/XX/2014  
Permit Renewal Application Due Date: XX/XX/2024  
Permit Expires: XX/XX/2024

### **Permitting Authority**

Florida Department of Environmental Protection  
Tallahassee Solid Waste Program & Permitting  
2600 Blair Stone Road, MS 4565  
Tallahassee, Florida 32399-2400  
(850) 245-8707  
Fax (850) 245-8811

## SECTION 1 - SUMMARY INFORMATION

### A. Authorization

The permittee is hereby authorized to operate the facility described below in accordance with the specific and general conditions of this permit and any documents attached to this permit or specifically referenced in this permit and made a part of this permit.

This solid waste operation permit is issued under the provisions of Chapter 403, Florida Statutes, Florida Administrative Code Chapters 62-4 and 62-701.

This permit does not relieve the permittee from complying with any other appropriate local zoning or land use ordinances or with any other laws, rules or ordinances. Receipt of any permits from the Department does not relieve the applicant from obtaining other federal, state, and local permits and/or modifications required by law, including those from other Sections within the Department or of the Water Management District.

### B. Facility Location

The facility is located at 1990 Tomoka Farms Road, Port Orange, in Section 09, Township 16S, Range 32E, in Volusia County, Florida (Latitude 29° 07' 53" and Longitude 81° 05' 25.6").

### C. Facility Description

The Class III landfill is owned and operated by Volusia County and is located within the County's Tomoka Farms Road Landfill property. The Class III landfill is developed over a portion of the property that began operations in 1969 as an MSW landfill for disposal of Class I waste which proceeded until approximate natural ground level was reached, followed by soil cover and grading. In 1988 the area began accepting construction demolition debris (C&D) for disposal. The landfill currently accepts Class III waste in accordance with Rule 62-701.200(14), F.A.C. The disposal area for Class III waste covers 88.06 acres. This includes the 6.6-acre lateral expansion and the 32.2 foot vertical expansion permitted under Permit No. SC64-0078767-024 issued on January 21, 2009. Due to the nature of the waste received and Rule requirements at the time of construction, the Class III landfill is designed without a bottom liner and leachate collection system. The Class III landfill currently does not have a gas control system (active or passive).

The following is additional information about the facility:

- Major features of the Tomoka Farms Road landfill facility, include site fencing and security, a scale house, a household hazardous waste facility, a tire and white goods facility, a Class I landfill (Operation Permit Number SO64-0078767-030, expiration date 05/13/2033; Title V Air Operation Permit 1270117-006-AV, expiration date 07/26/2016), equipment maintenance facilities, ground water monitoring, borrow pits and administration facilities.



- The project incorporates a site-wide ground water and surface water monitoring plan.
- Household Hazardous Waste (HHW) – A HHW collection center is located at the facility. The collection center minimizes the quantities of these materials from being disposed in the landfill. The HHW center shall operate in accordance with Section 403.7265, F.S., addressing the need for local governments to establish local hazardous waste management programs and local collection centers throughout the state. The HHW collection center is operated for the collection of household hazardous waste and does not accept waste from small businesses. The HHW materials are removed by an independent contractor for proper disposal twice a year or when the storage facility reaches 75% of its capacity.

#### **D. Appendices Made Part of This Permit**

APPENDIX 1 - General Conditions

APPENDIX 2 – List of Documents Incorporated into this Permit

APPENDIX 3 – Water Quality Monitoring Plan

#### **E. Attachments for Informational Purposes Only**

ATTACHMENT 1 - Time Sensitive Action Chart

If any of the time deadlines in the Time Sensitive Action Chart are inconsistent with the time deadlines in the permit conditions, the time deadlines in the permit condition shall be followed.

## SECTION 2 - SPECIFIC CONDITIONS

### A. Administrative Requirements

1. Documents Part of This Permit. The permit application **as revised in final form replaced or amended** in response to the Department's Request(s) for Additional Information are contained in the Department's files and are made a part of this permit. Those documents that make up the complete permit application are listed in APPENDIX 2.
2. Permit Modification. Any change to construction, operation, monitoring, or closure requirements of this permit may require a modification to this permit, in accordance with the provisions of Rule 62-701.320(4), F.A.C.
3. Permit Renewal. In order to ensure uninterrupted operation of this facility, a timely and sufficient permit renewal application must be submitted to the Department in accordance with Rule 62-701.320(10), F.A.C. A permit application submitted at least 61 days prior to the expiration of this permit is considered timely and sufficient.
4. Transfer of Permit or Name Change. In accordance with Rule 62-701.320(11), F.A.C., the Department must be notified by submitting Form 62-701.900(8) within 30 days: (a) of any sale or conveyance of the facility; (b) if a new or different person takes ownership or control of the facility; or (c) if the facility name or Permittee's legal name is changed.
5. Permit Fees. The total permit fee required for this 10-year duration Operation permit is \$8,000. The applicant has elected to pay this fee in installments in accordance with Rule 62-701.315(13), F.A.C., and submitted a fee of \$4,000 with this application. No later than **XX/XX/2019**, the permittee shall submit to the Department an installment payment of this fee in the amount of \$4,000. This fee is due to the State regardless of whether the permittee closes the facility, surrenders the permit, has the permit revoked, or transfers the permit before it expires. If the permittee elects to transfer the permit, it must include with the transfer application a signed agreement from the proposed transferee to accept responsibility for the remainder of the permit fee due.
6. 5 Year Submittal Report. No later than **XX/XX/2019**, the permittee shall submit a report to the Department that contains the following:
  - a. An updated closure plan to reflect changes in closure design, long-term care requirements, and financial assurance requirements.
  - b. A revised closure cost estimate, made by recalculating the total cost of closure or long-term care, in current dollars.
  - c. An updated operation plan, if operational procedures have changed.
  - d. An updated site plan or topographic survey if current conditions at the facility are not reflected in the existing plan.

## **B. Construction Requirements**

1. Construction Authorized. This permit does not authorize any bottom subbase construction activities.

## **C. Operation Requirements**

1. General Operating Requirements. The permittee shall operate the landfill in accordance with the most recently approved Operation Plan dated June 10, 2014. The Department shall be notified before any changes, other than minor deviations, to the approved Operation Plan are implemented in order to determine whether a permit modification is required.
2. Operation Plan. A copy of the approved Operation Plan, including the operating record as defined in Rule 62-701.500(3), F.A.C., shall be kept at the facility and shall be accessible to landfill operators.
3. Authorized Waste Types. The Class III Landfill is authorized to manage only the following waste types:
  - a. Waste types defined in Rule 62-701.200, F.A.C.:
    - 1) Class III waste.
    - 2) Construction and demolition debris waste
    - 3) Yard trash
  - b. Other wastes specifically authorized for disposal at the Class III Landfill:
    - 1) Asbestos in accordance with 40 CFR Part 61.154.
  - c. Other wastes authorized to be handled at the facility but not authorized for disposal at the Class III Landfill:
    - 1) Waste tires – Waste tires shall be received and stored in accordance with the Waste Tire Rule, Chapter 62-711, F.A.C.
    - 2) White goods – The white goods storage area shall be policed on a daily basis to insure white goods are properly stored and handled. An independent contractor is used on an “as needed” basis to transport these materials off-site for recycling.
4. Unauthorized Waste Types. The Class III Landfill is not authorized to accept, process, or dispose any waste types not listed in C.3 above. Any unauthorized waste inadvertently received by the facility shall be managed in accordance with the approved Operation Plan.
5. Waste Management and Handling.
  - a. Solid waste shall be formed into cells to construct horizontal lifts. The working face of the cell, and side grades above land surface, shall be at a slope no greater than three feet horizontal to one-foot vertical rise or as authorized by this permit in accordance with the approved operation plan.

- b. No solid waste shall be disposed of outside of the permitted footprint of the solid waste disposal units.
  - c. The sequence of waste filling shall be as specified in the approved operation plan.
6. Landfill Elevation. The final (maximum) elevation of the Class III Landfill shall not exceed 165.2 feet NGVD as shown on Drawing 4, Final Closure Site Plan. (Document 5.b., APPENDIX 2)
7. Cover Requirements.
  - a. Initial Cover: Initial cover shall be applied at least once every week, Rule 62-701.500(7)(f)2., F.A.C. and consist of six inches of a compacted soil.
  - b. Intermediate Cover: An intermediate cover of one foot of compacted soil in addition to the six inches of initial cover shall be applied within seven days of cell completion if additional solid waste will not be deposited within 180 days of cell completion. All or part of the intermediate cover may be removed prior to placing additional waste or installing the final cover system, Rule 62-701.500(7)(g), F.A.C.
  - c. Alternate Cover: A mixture of soil and mulch (not to exceed 50% mulch) may be used instead of soil for either the initial or the intermediate cover.
8. Erosion Control. Erosion control measures shall be employed to correct any erosion which exposes waste or causes malfunction of the storm water management system. Such measures shall be implemented within three days of occurrence. If the erosion cannot be corrected within seven days of occurrence, the landfill operator shall notify the Department and propose a correction schedule, Rule 62-701.500(7)(k), F.A.C.
9. Contingency Plan and Notification of Emergencies. The permittee shall notify the Department in accordance with the approved Contingency Plan. Notification shall be made to the Solid Waste Section of DEP's Central District at (407) 897-4100.
10. Housekeeping. The facility shall be operated to control dust, vectors, litter and objectionable odors. If objectionable odors are confirmed beyond the landfill property boundary, the owner or operator shall comply with the gas management requirement in Section 2, Part E.
11. Spotters and Operators. The facility shall have the minimum number of spotters present when waste is accepted as specified in the operation plan, to be located as specified in the operation plan. A trained operator shall be on duty at the facility at all times the facility is operating. Approved training courses can be found at the following web site: <http://www.treeo.ufl.edu/sw/>.

12. Record Keeping Requirements.

- a. Waste Quantity Records. Waste records shall be compiled monthly, and shall be provided to the Department no less than annually by January 20. This information shall be reported to the Department through the DEP Business Portal located at: <http://www.fldepportal.com/go>.
- b. Estimate of Remaining Life. The permittee shall submit the annual estimate of the remaining life and capacity annually by November 1. The report is required by Rule 62-701.500(13)(c), F.A.C. and must be submitted to the Central District Office ([DEP\\_CD@dep.state.fl.us](mailto:DEP_CD@dep.state.fl.us)) and to:  
Florida Department of Environmental Protection  
Solid Waste Section, MS 4565  
2600 Blair Stone Road  
Tallahassee, Florida, 32399-2400

13. Hazardous Waste. If any regulated hazardous wastes are discovered to be deposited at the facility, the facility operator shall promptly notify the Department, the person responsible for shipping the wastes to the facility, and the generator of the wastes, if known. The area where the wastes are deposited shall immediately be cordoned off from public access. If the generator or hauler cannot be identified, the facility operator shall assure the cleanup, transportation, and disposal of the waste at a permitted hazardous waste management facility. In the event that hazardous wastes are discovered they shall be managed in accordance with the procedures provided in facility Operation Plan.

14. Stormwater. The Stormwater Management System shall comply with Section 10 of the approved Operation Plan dated June 10, 2014. (Document 4, APPENDIX 2)

**D. Water Quality Monitoring Requirements**

1. Zone of Discharge. There is one zone of discharge for the entire Tomoka Farms Road Landfill (TFRL) facility (both Class I and Class III landfills). The zone of discharge for this facility shall be a three dimensional volume, defined in the horizontal plane as extending 100 feet from the edge of the solid waste deposit, or to the property boundary, whichever is less, as depicted in Attachment B of the Monitoring Plan Implementation Schedule (APPENDIX 3), and defined in the vertical plane as extending from the top of the ground to the bottom of the casing of the lower surficial monitoring wells (that is, Zone 4). Class G-II water quality standards must be met at the boundary of the zone of discharge in accordance with Rule 62-522.410, F.A.C.

2. Water Quality Monitoring Plan. The water quality monitoring plan is called the Monitoring Plan Implementation Schedule (MPIS). There is one MPIS for the entire TFRL solid waste management facility. The newest version (**dated XX/XX/2014**) is included as APPENDIX 3. It is made a part of this permit and all other permits for the TFRL solid waste management facility. The MPIS or its attachments may be revised or updated at any time.

The revised/updated documents will be issued with a new date and effective for the next sampling event.

3. Evaluation Monitoring. The facility is currently in Evaluation Monitoring for benzene. The Evaluation Monitoring and the MPIS will be reevaluated after the Department reviews the January 2015 monitoring report.

#### **E. Gas Management System Requirements**

1. Monitoring Requirements. Monitoring for methane gas at the property boundary and within structures on the property shall be performed quarterly to determine the effectiveness of the gas migration controls. The gas monitoring results shall be reported as a percent of the lower explosive limit (LEL), calibrated to methane. The report shall be submitted to the Central District Office (DEP\_CD@dep.state.fl.us) under separate cover no later than 15 days after the monitoring occurred, Rule 62-701.530(2), F.A.C.
2. Gas Remediation Plan. The facility landfill gas management system shall be operated to prevent the concentration of combustible gases from exceeding 25% of the lower explosive limit in structures, excluding gas control or recovery components, and from exceeding the lower explosive limit at or beyond the property boundary. If either of these limits is exceeded then a gas remediation plan shall be designed and implemented in accordance with Rule 62-701.530(3)(a), F.A.C.
3. Odor Remediation Plan. The facility shall be operated to control objectionable odors. If objectionable odors are confirmed beyond the property boundary, then upon notification by the Department, the permittee shall develop and implement an odor remediation plan in accordance with the requirements of Rule 62-701.530(3)(b), F.A.C.

#### **F. Financial Assurance and Cost Estimates**

1. Financial Assurance Mechanism. Proof that the financial mechanisms are established and funded in accordance with Rule 62-701.630, F.A.C. shall be submitted to the Department at least sixty (60) days prior to the planned acceptance of solid waste in any disposal unit. When established, the permittee shall maintain, in good standing, the financial assurance mechanisms. Supporting documentation and evidence of increases associated with cost estimate increases shall be submitted within the time frames specified in Rule 62-701.630, F.A.C.

All submittals in response to this specific condition shall be sent to:

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

2. Cost Estimates.
  - a. The permittee shall submit closure cost estimates, including annual adjustments for inflation, in accordance with the requirements of Rule 62-701.630(3) and (4), F.A.C., and 40 CFR Part 264.142(a) and .144(a) using Form 62-701.900(28).
  - b. An owner or operator using an escrow account shall submit the annual inflation adjusted estimate(s) between July 1 and September 1. An owner or operator using a letter of credit, guarantee bond, performance bond, financial test, corporate guarantee, trust fund or insurance shall submit the inflation adjusted cost estimate(s) between January 1 and March 1.
  - c. All submittals in response to this specific condition shall be sent to the Central District Office (DEP\_CD@dep.state.fl.us) and a copy to the address identified in Specific Condition 2.F.1. or to the following email address:  
[Solid.Waste.Financial.Coordinator@dep.state.fl.us](mailto:Solid.Waste.Financial.Coordinator@dep.state.fl.us)

### **G. Closure Requirements**

1. Closure Permit Requirements. Prior to initiating closure of a solid waste disposal unit, or part of a solid waste disposal unit, the Permittee shall receive authorization from the Department in the following way.
  - a. The Permittee shall submit an application to the Department for a closure permit on Form 62-701.900(1) and shall initiate closure activities only after the permit is issued. The application shall include a Closure Plan made up of the following:
    - 1) A closure design plan;
    - 2) A closure operation plan;
    - 3) A plan for long-term care; and,
    - 4) A demonstration that proof of financial assurance for long-term care will be provided.
2. Closure Design. All closure construction shall be done in accordance with the approved closure design plan. The Department shall be notified before any changes, other than minor deviations, to the approved closure design are implemented in order to determine whether a permit modification is required.
3. Closure Operation Plan. All closure shall be done in accordance with the approved closure operation plan.
4. Certification of Closure Construction Completion. After closure construction has been completed, the engineer of record shall certify to the Department on Form 62-701.900(2) that the closure is complete and that it was done in accordance with the plans submitted to the Department except where minor deviation was necessary. All deviations shall be described in detail and the reasons therefore enumerated.
5. List of Closed Units Not in Long-Term Care. [None]

### H. Long Term Care Requirements

[No areas in the Tomoka Farms Road Landfill solid waste management facility are in long-term care at this time. The South Cell is in post-closure care.]

Executed in Leon County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

\_\_\_\_\_  
Tim Bahr, P.G., Program Administrator  
Permitting and Compliance Assistance Program

FILED, on this date, pursuant to Section 120.52, F.S. with the designated Department Clerk,  
receipt of which is hereby acknowledged.

\_\_\_\_\_  
Clerk

\_\_\_\_\_  
Date



## **APPENDIX 1**

### **General Conditions**

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.161, 403.727, or 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law

and at reasonable times, access to the premises where the permitted activity is located or conducted to:

- (a) Have access to and copy any records that must be kept under conditions of the permit;
  - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.
- Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
  - (a) A description of and cause of noncompliance; and
  - (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit or a copy thereof shall be kept at the work site of the permitted activity.

12. The permittee shall comply with the following:

- (a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- (b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials

shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

(c) Records of monitoring information shall include:

1. the date, exact place, and time of sampling or measurements;
2. the person responsible for performing the sampling or measurements;
3. the dates analyses were performed;
4. the person responsible for performing the analyses;
5. the analytical techniques or methods used;
6. the results of such analyses.

13. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

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## APPENDIX 2

### List of Documents Incorporated into this Permit

#### Documents Generated for this Permit Application:

1. FDEP Solid Waste Permit Application for Operations Permit Renewal, Class III Landfill, Prepared by Neel Schaffer Inc., dated June 2014. Received and stamped June 20, 2014, DEP – Tallahassee Headquarters.  
[http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&\[guid=8.205899.1\]](http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&[guid=8.205899.1])
2. First Request for Additional Information from DEP – Tallahassee Headquarters, dated July 17, 2014.  
[http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&\[guid=8.207591.1\]](http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&[guid=8.207591.1])
3. Response to First Request for Additional Information Prepared by Neel Schaffer Inc., dated August 01, 2014. Received and stamped August 04, 2014, DEP – Tallahassee Headquarters.  
[http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&\[guid=8.208620.1\]](http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&[guid=8.208620.1])
4. Approved Operations Plan, prepared by S2L, Inc., dated June 10, 2014.  
[http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&\[guid=8.205257.1\]](http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&[guid=8.205257.1])

#### List of Documents Associated with Operation Permit SO64-0078767-026:

5. Application to Renew Operation Permit, Tomoka Farms Road Landfill, Class III Disposal Cell, Volusia County Florida, Prepared by SCS Engineers, dated June 25, 2009. Received and stamped June 26, 2009, DEP – Central District.
  - a. Application:  
[http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&\[guid=8.52311.1\]](http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&[guid=8.52311.1])
  - b. Drawings:  
[http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&\[guid=8.52279.1\]](http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&[guid=8.52279.1])
6. Request for Additional Information from DEP – Central District, dated July 22, 2009.  
[http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&\[guid=8.54266.1\]](http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&[guid=8.54266.1])
7. Request for Additional Information response from SCS Engineers dated August 5, 2009. Received and stamped August 11, 2009, DEP – Central District.  
[http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&\[guid=8.55467.1\]](http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&[guid=8.55467.1])
8. Permit Application Completion Letter from DEP – Central District, dated August 20, 2009.  
[http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&\[guid=8.55915.1\]](http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&[guid=8.55915.1])

**APPENDIX 2**

**List of Documents Incorporated into this Permit**

Page 2 of 2

Referenced Historical Documents Construction Permit SC64-0078767-024:

9. Application for a permit to construct an Expansion to the Tomoka Farms Road Landfill, Class III Disposal Cell, Volusia County, Florida, Prepared by SCS Engineers, dated June 30, 2008. Received and stamped July 14, 2008, DEP – Central District.  
[http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&\[guid=8.26644.1\]](http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&[guid=8.26644.1])
10. Tomoka Farms Road Landfill, Class III Landfill Modification Construction Drawings, Sheets 1 through 9 by SCS Engineers, dated April 2008. Received and stamped July 28, 2008, DEP – Central District.  
[http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&\[guid=8.27521.1\]](http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&[guid=8.27521.1])

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### APPENDIX 3

#### Tomoka Farms Road Landfill

WACS\_FACILITY: 27540

#### MONITORING PLAN IMPLEMENTATION SCHEDULE (MPIS)

XX/XX/2014

#### GENERAL

1. This water quality monitoring plan (called the Monitoring Plan Implementation Schedule) is for the entire TFRL solid waste management facility. This MPIS is effective when the permit is issued. It replaces all previous MPIS issued for the Tomoka Farms Road Landfill solid waste management facility, WACS #27540. **[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 condition 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. Fifty-four (54) ground water monitoring wells are listed in on **Attachment A** and are shown on **Attachment B**. Forty-eight (48) ground water monitoring wells are designated for routine water quality testing and water level measurements. Sampling is suspended in six (6) wells. **[62-701.510(3)(d)2&3, F.A.C.]**
- 6. Any initial sample collected from a ground water monitoring well shall be analyzed for the following Initial Sample Ground Water Monitoring Parameters. **[62-701.510(5)(b)2, F.A.C.]**

<b>Initial Ground Water Monitoring Parameters</b>	
<b>Field Parameters</b>	<b>Laboratory Parameters</b>
1. Static water level in wells before purging	1. Ammonia – N, Total
2. Dissolved oxygen	2. Chlorides
3. pH	3. Iron
4. Specific Conductivity	4. Nitrate
5. Temperature	5. Sodium
6. Turbidity	6. Total Dissolved Solids (TDS)
7. Colors and sheens (by observation)	7. Those parameters listed in 40 CFR Part 258, Appendix II*

\*Mercury is not on the list because it is included in Appendix II, and Appendix I is a subset of Appendix II.

- 7. Semi-annual samples shall be collected in **May** for twenty-eight (28) ground water monitoring wells. Samples shall be collected in **November** for an additional twenty (20) monitoring wells for a total of forty-eight (48) wells. (See **Attachment A** for which wells are to be sampled semi-annually / annually.) The samples shall be analyzed for the following Ground Water Monitoring Parameters. **[62-701.510(5)(c)&(7)(a), F.A.C.]**

<b>Semi-Annual Ground Water Monitoring Parameters</b>	
<b>Field Parameters</b>	<b>Laboratory Parameters</b>
1. Static water level in wells before purging	1. Ammonia – N, Total
2. Dissolved oxygen	2. Chlorides
3. pH	3. Iron
4. Specific Conductivity	4. Mercury
5. Temperature	5. Nitrate
6. Turbidity	6. Sodium
7. Colors and sheens (by observation)	7. Total Dissolved Solids (TDS)
	8. Those parameters listed in 40 CFR Part 258, Appendix I

8. 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 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.
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 Groundwater Cleanup Target Levels (GCTLs) in Table I, 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". GCTLs that are not water quality standards are used as screening tools and interim guidelines for ground water criteria until standards are promulgated.

### SURFACE WATER MONITORING

10. The seven (7) surface water sites included in this monitoring plan are SW-1, SW-2, SW-3, SW-4, SW-5, SW-11, and SW-12. They are listed on **Attachment A** and shown on **Attachment B**. [62-701.510(4)(c), F.A.C.]
11. Initial samples from any new surface water monitoring sites shall be collected within 30 days of the Department's approval of the sampling location. The samples shall be analyzed for the following Initial Surface Water Monitoring Parameters. [62-701.510(5)(b)(3), F.A.C.]

<b>Initial Surface Water Monitoring Parameters</b>	
<b>Field Parameters</b>	<b>Laboratory Parameters</b>
1. Surface water level	1. Unionized ammonia as N
2. Dissolved oxygen	2. Total hardness as CaCO <sub>3</sub>
3. pH	3. Biochemical oxygen demand (BOD <sub>5</sub> )
4. Specific Conductivity	4. Iron
5. Temperature	5. Mercury
6. Turbidity	6. Nitrate
7. Colors and sheens (by observation)	7. Total dissolved solids (TDS)
	8. Total organic carbon (TOC)
	9. Fecal coliform
	10. Total phosphates as P
	11. Chlorophyll A
	12. Total nitrogen
	13. Chemical oxygen demand (COD)
	14. Total suspended solids (TSS)
	15. Those parameters listed in 40 CFR Part 258, Appendix I



12. Semi-annual samples from the seven (7) surface water monitoring sites shall be collected in May and November. The samples shall be analyzed for the following Surface Water Monitoring Parameters. **[62-701.510(5)(d)&(7)(b), F.A.C.]**

<b>Semi-Annual Surface Water Monitoring Parameters</b>	
<b>Field Parameters</b>	<b>Laboratory Parameters</b>
1. Surface water level	1. Unionized ammonia as N
2. Dissolved oxygen	2. Total hardness as CaCO <sub>3</sub>
3. pH	3. Biochemical oxygen demand (BOD <sub>5</sub> )
4. Specific Conductivity	4. Iron
5. Temperature	5. Mercury
6. Turbidity	6. Nitrate
7. Colors and sheens (by observation)	7. Total dissolved solids (TDS)
	8. Total organic carbon (TOC)
	9. Fecal coliform
	10. Total phosphates (as mg/L P)
	11. Chlorophyll A
	12. Total nitrogen
	13. Chemical oxygen demand (COD)
	14. Total suspended solids (TSS)
	15. Those parameters listed in 40 CFR Part 258, Appendix I

13. 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 Freshwater Surface Water Criteria in Table I, 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". Freshwater Surface Water Criteria that are not water quality standards are used as screening tools and interim guidelines for ground water minimum criteria until standards are promulgated.

#### **MONITORING WELL REQUIREMENTS**

14. 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.]**
15. New or replacement monitoring well design or placement must be approved by the Department. Either:
- 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 the Department's approval prior to well installation. Or

- b. The Department approves in advance of installation that the anticipated lithology and the proposed well construction is similar to close wells in the MPIS and that the final determination of this information (grain size distribution analyses, in-situ hydraulic conductivity testing, depth to water, etc.) can be evaluated by an engineer or geologist at the time of well installation and submitted with the well completion information.
16. 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.]**
  17. All wells and piezometers shall be clearly and permanently labeled and the well site maintained so that the well is visible at all times. Unless otherwise authorized in a Department permit, new monitoring wells and existing monitoring wells at the time of permit renewal, shall have protective bollards or other devices installed around them if they are located in areas of high traffic flow to prevent damage from passing vehicles. **[62-701.510(3)(d)5, F.A.C.]**
  18. 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**

19. 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**

20. 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 Attachments (for example, construction diagram and lithologic log), must be submitted to the Department within thirty (30) days after installation of any new or replacement 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

21. 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 sites (active, abandoned, and Evaluation Monitoring), 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.]**
22. 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 the elevations have changed. The location and elevation determinations must be provided with the Monitoring Well Completion Form for the new well.

### INITIAL AND SEMI-ANNUAL SAMPLING

23. Required monitoring reports must be submitted to the Department within sixty (60) days from completion of laboratory analyses. Requirements for submitting the reports is outlined in **Attachment D (ADaPT Electronic Reporting Requirement)**. **[62-701.510(8), F.A.C.]**

### WATER ELEVATIONS

24. Water levels in all monitoring wells, whether sampled or not, all piezometers and all surface water sites must be measured to the nearest 0.01 foot. The depth to water shall be converted to feet NGVD, and this elevation shall be reported semi-annually.
25. Surface water elevations at sampling locations must be measured to the nearest 0.01 foot on the same day as ground water levels in the wells and piezometers and reported semi-annually.
26. All water level measurements must be made within a one-day period.
27. These measurements should be reported in a table that includes well or surface water point name, date water level measured, measuring point elevation references to NGVD 1929, depth to water and calculated water level elevation referenced to NGVD 1929. The ground water and surface water elevations shall be reported in the ADaPT data for the upload into WACS. **[62-701.510(8)(a)8, F.A.C.]**

## GROUND WATER CONTOUR MAPS

28. Ground water elevation contour maps for each monitored aquifer zone must be submitted semi-annually to the Department. Ground water elevation contour map(s) should include monitoring well and piezometer locations, ground water elevation at each monitoring well or piezometer location references 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 792 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)

29. A technical report, signed and sealed by a professional geologist or professional engineer with experience in hydrogeologic investigations, shall be submitted to the Department approximately 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 since the last Technical Report. 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.

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

Report	Sampling Periods Covered	Number of Semi-Annual Sampling Events in Report	MPIS Technical Report Due
1	November 2014 through November 2016	5	March 2017
2	May 2017 through May 2019	5	September 2019
3	November 2019 through November 2021	5	March 2022
Renewal Report	May 2022 through May 2024	5	At the time of permit renewal for Renewal of the Class III Permit 0078767-034-SO-T3 (XX/XX/2024)
5	November 2024 through November 2026	5	March 2027
6	May 2027 through May 2029	5	September 2029
Renewal Report	November 2029 through November 2032	7	At the time of permit renewal for Renewal of the Class I Permit 0078767-030-SO-01 (3/13/2033)

#### Requirements for Electronic Reporting of Water Quality Data

31. Required water quality monitoring reports and all ground water and surface 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 the laboratory analyses. **[62-160.240 & 62-160.340, F.A.C.]**

32. Monitoring Plan Implementation Schedule – Tracking versions for current permit period:

Date	Type	Notation
11/3/2009	Update	<ul style="list-style-type: none"> <li>Added ADaPT electronic reporting requirement language.</li> <li>Changed Biennial Report to MPIS Technical Report per pending Chapter 62-701, F.A.C. revision</li> <li>Added reporting of water level in leachate basins.</li> </ul>
3/12/2012	Permit Renewal	<ul style="list-style-type: none"> <li>Current ADaPT electronic reporting requirement language.</li> <li>Changed Biennial Report to MPIS Technical Report per Chapter 62-701, F.A.C. revision.</li> </ul>
5/22/2013	Permit Renewal Class I	<ul style="list-style-type: none"> <li>Updated per Chapter 62-701, F.A.C. revision 8/12/2012</li> <li>Removed Leachate Sampling per rule revision</li> <li>Include EM wells on Att B Monitoring Locations Map</li> <li>Include Att G Evaluation Monitoring Plan Status</li> </ul>
4/17/2014	Minor Mod Operating Permit	<ul style="list-style-type: none"> <li>Updated MPIS Technical Report Section with the addition of paragraph 30 and renumbered the paragraphs following.</li> </ul>
X/XX/2014	Permit Renewal Class III	<ul style="list-style-type: none"> <li>Suspended 6 monitoring wells.</li> <li>20 wells in Zone 4 reduced to annual sampling.</li> </ul>

## List of Attachments

**Attachment A** – Monitoring Well, Surface Water Sampling Point Lists

**Attachment B** – Monitoring Locations Map

**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

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**ATTACHMENT A  
TOMOKA FARMS ROAD LANDFILL  
WACS\_FACILITY: 27540  
MONITORING SITES**

Count Total	Count By Type	Monitoring Site Number	WACS Well Number	Well Type	Zone/ Screen	GW/SW Class	WACS Report Type
<b>Semi-Annual Monitoring Wells (Sampled in May &amp; November)</b>							
1.	1.	B11	15679	BG	ZONE 1-2	G-II	SEMGW
2.	2.	B33-2	15793	CO	ZONE 1-2	G-II	SEMGW
3.	3.	B34-2	15795	BG	ZONE 1-2	G-II	SEMGW
4.	4.	B35-2	15797	BG	ZONE 1-2	G-II	SEMGW
5.	5.	B37-2	15800	CO	ZONE 1-2	G-II	SEMGW
6.	6.	B38-2	15802	CO	ZONE 1-2	G-II	SEMGW
7.	7.	B-39	15803	CO	ZONE 1-2	G-II	SEMGW
8.	8.	B40-2	15805	CO	ZONE 1-2	G-II	SEMGW
9.	9.	B41-2	15807	CO	ZONE 1-2	G-II	SEMGW
10.	10.	B42-2	15809	CO	ZONE 1-2	G-II	SEMGW
11.	11.	B43-1	15810	CO	ZONE 3-4	G-II	SEMGW
12.	12.	B43-2	15811	CO	ZONE 1-2	G-II	SEMGW
13.	13.	B44	15812	CO	ZONE 1-2	G-II	SEMGW
14.	14.	B45-1	15813	CO	ZONE 4	G-II	SEMGW
15.	15.	B45-2	15814	CO	ZONE 1-2	G-II	SEMGW
16.	16.	B59-2R	15818	CO	ZONE 1-2	G-II	SEMGW
17.	17.	B63-2	15824	CO	ZONE 1-2	G-II	SEMGW
18.	18.	B64	15825	CO	ZONE 1-2	G-II	SEMGW
19.	19.	B65	15826	CO	ZONE 1-2	G-II	SEMGW
20.	20.	B70-2	19801	DE	ZONE 1-2	G-II	SEMGW
21.	21.	B71	19802	CO	ZONE 1-2	G-II	SEMGW
22.	22.	B72	19803	CO	ZONE 1-2	G-II	SEMGW
23.	23.	B73-2	19805	CO	ZONE 1-2	G-II	SEMGW
24.	24.	B74	19806	CO	ZONE 1-2	G-II	SEMGW
25.	25.	B75	19807	CO	ZONE 1-2	G-II	SEMGW
26.	26.	FA-1B	15639	BG	FLORIDAN	G-II	SEMGW
27.	27.	FA-2C	15836	CO	FLORIDAN	G-II	SEMGW
28.	28.	F-MB	22777	CO	FLORIDAN	G-II	SEMGW

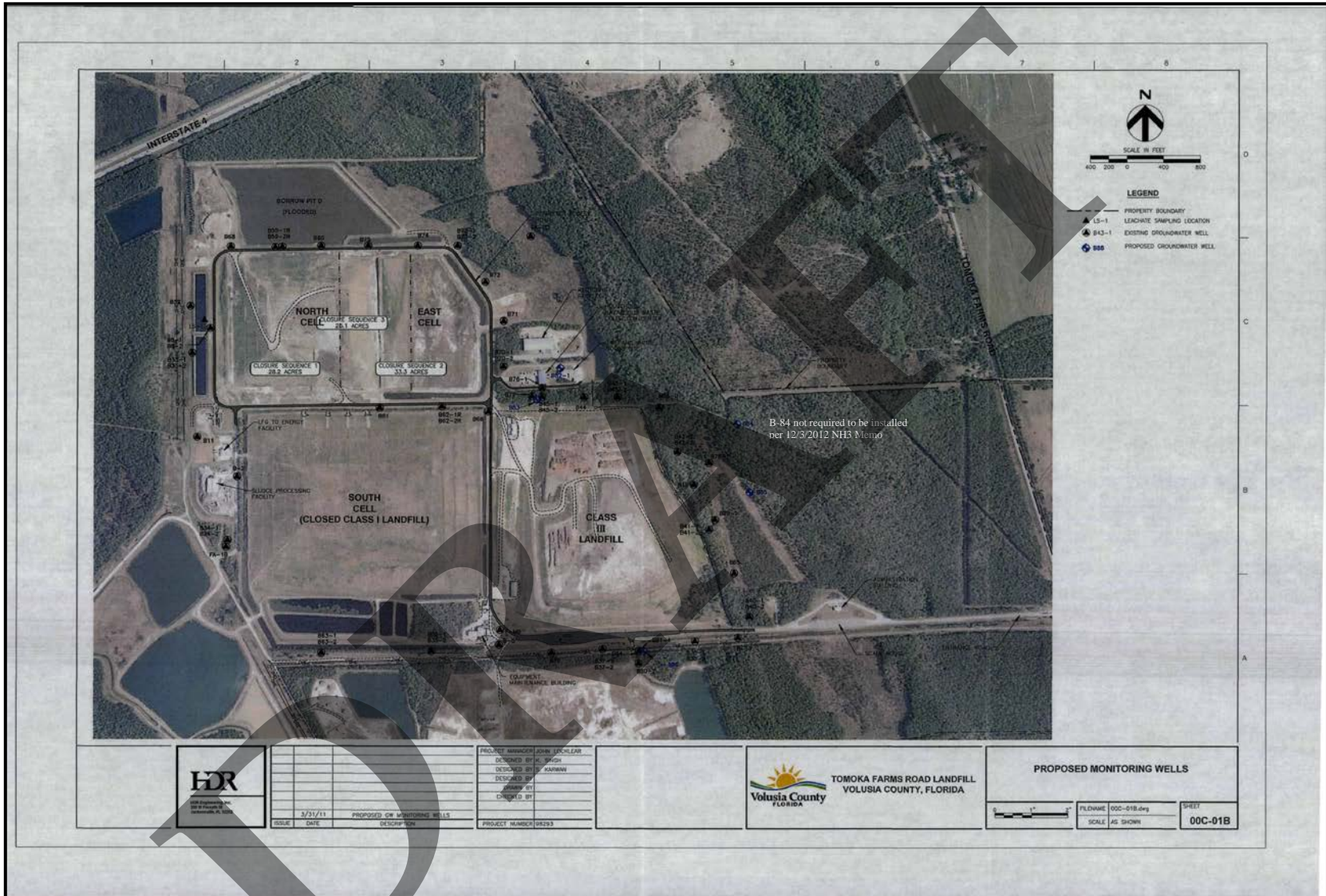
Tomoka Farms Road Landfill  
Volusia County

<b>Annual Monitoring Wells (Sampled Only in November)</b>							
29.	1.	B1-B**	15636	CO	ZONE 4	G-II	ANNGW
30.	2.	B-2**	15402	BG	ZONE 4	G-II	ANNGW
31.	3.	B-5**	15403	CO	ZONE 4	G-II	ANNGW
32.	4.	B8-2**	15790	IM	ZONE 4	G-II	ANNGW
33.	5.	B33-1**	15792	BG	ZONE 4	G-II	ANNGW
34.	6.	B34-1**	15794	BG	ZONE 4	G-II	ANNGW
35.	7.	B35-1**	15796	BG	ZONE 4	G-II	ANNGW
36.	8.	B36**	15798	BG	ZONE 4	G-II	ANNGW
37.	9.	B37-1**	15799	CO	ZONE 4	G-II	ANNGW
38.	10.	B38-1**	15801	CO	ZONE 4	G-II	ANNGW
39.	11.	B40-1**	15804	CO	ZONE 4	G-II	ANNGW
40.	12.	B41-1**	15806	CO	ZONE 4	G-II	ANNGW
41.	13.	B42-1**	15808	CO	ZONE 4	G-II	ANNGW
42.	14.	B59-1R**	15817	CO	ZONE 4	G-II	ANNGW
43.	15.	B60**	15819	CO	ZONE 4	G-II	ANNGW
44.	16.	B63-1**	15823	CO	ZONE 4	G-II	ANNGW
45.	17.	B68**	15829	CO	ZONE 4	G-II	ANNGW
46.	18.	B70-1**	19800	CO	ZONE 4	G-II	ANNGW
47.	19.	B73-1**	19804	CO	ZONE 4	G-II	ANNGW
48.	20.	MO5-B**	15635	CO	ZONE 4	G-II	ANNGW
<b>Wells Suspended August 2014</b>							
49.	1.	B8*	15642	IM	ZONE 6	G-II	Suspended
50.	2.	B-32*	15791	BG	ZONE 4	G-II	Suspended
51.	3.	B61R*	15820	DE	ZONE 1-2	G-II	Suspended
52.	4.	B62-1R*	15821	DE	ZONE 4	G-II	Suspended
53.	5.	B62-2R*	15822	DE	ZONE 1-2	G-II	Suspended
54.	6.	B66*	15827	DE	ZONE 1-2	G-II	Suspended
<b>Surface Water Sampling</b>							
55.	1.	SW-1	15830	BG	BACKGROUND	SW-IIIIF	SEMSW
56.	2.	SW-2	15831	CO	OUTFALL OF EXTERNAL DITCH	SW-IIIIF	SEMSW
57.	3.	SW-3	15832	CO	OUTFALL FROM LANDFILL	SW-IIIIF	SEMSW
58.	4.	SW-4	15833	CO	OUTFALL OF RETENTION POND	SW-IIIIF	SEMSW
59.	5.	SW-5	15638	CO	OUTFALL OF INTERNAL DITCH	SW-IIIIF	SEMSW
60.	6.	SW-11	19798	CO	STORMWATER MANAGEMENT DITCH	SW-IIIIF	SEMSW
61.	7.	SW-12	19799	CO	SE CORNER OF BORROW AREA	SW-IIIIF	SEMSW

**Well Type Codes:** (BG) Background (DE) Detection (IM) Intermediate (CO) Compliance

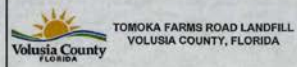


Tomoka Farms Road Landfill---Attachment B Monitoring Locations---Aerial from 4/6/2011 CER by HDR



DATE	DESCRIPTION
3/31/11	PROPOSED GW MONITORING WELLS

PROJECT MANAGER	JOHN LUCHEAR
DESIGNED BY	JOHN
DRAWN BY	KARIN
CHECKED BY	JOHN
PROJECT NUMBER	000-018



TOMOKA FARMS ROAD LANDFILL VOLUSIA COUNTY, FLORIDA		PROPOSED MONITORING WELLS	
SCALE	AS SHOWN	FILENAME	00C-018.dwg
		SHEET	00C-01B

## ATTACHMENT C

### Florida Department of Environmental Protection

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

### MONITORING WELL COMPLETION REPORT FORM

Facility Name: Tomoka Farms Road Landfill		Date:
DEP Permit No.:	WACS Facility ID #:27540	
WACS Monitoring Site ID #:	WACS Monitoring Site Name:	
Well Type: <input type="checkbox"/> Background <input type="checkbox"/> Detection <input type="checkbox"/> Compliance <input type="checkbox"/> 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**

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>

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](mailto: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](mailto: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\_swfdd.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 (ADaPTYYYYMMDDHHMMSS.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 Laxsamee 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](mailto:DEP_CD@dep.state.fl.us)

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

DRAFT

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 Tomoka Farms Road Landfill

Address \_\_\_\_\_

City \_\_\_\_\_ Zip \_\_\_\_\_ County \_\_\_\_\_

Telephone Number ( \_\_\_\_\_ ) \_\_\_\_\_ E-mail address \_\_\_\_\_

(2) WACS\_Facility 27540

(3) DEP Permit Number \_\_\_\_\_

(4) Authorized Representative's Name \_\_\_\_\_ Title \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ Zip \_\_\_\_\_ County \_\_\_\_\_

Telephone Number ( \_\_\_\_\_ ) \_\_\_\_\_ E-mail address \_\_\_\_\_

(5) Type of Discharge \_\_\_\_\_

(6) Method of Discharge \_\_\_\_\_

### 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 Comp QAP # \_\_\_\_\_

Analytical Lab NELAC #/ HRS Certification \_\_\_\_\_

Lab Name \_\_\_\_\_

Address \_\_\_\_\_

Phone Number ( \_\_\_\_\_ ) \_\_\_\_\_

E-mail Address \_\_\_\_\_



## Attachment F WATER SAMPLING LOG

DEP-SOP-001/01 FS 2200 Groundwater Sampling

**Form FD 9000-24**

FACILITY NAME: Tomoka Farms Road Landfill		WACS 27540	FACILITY LOCATION:
MONITORING_SITE_NUM:	WACS_WELL:		DATE:

### PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:							
<b>WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY</b> only fill out if applicable) = (                      feet -                      feet ) X                      gallons/foot =                      gallons											
<b>EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME</b> (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/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<b>WELL CAPACITY</b> (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											
<b>TUBING INSIDE DIA. CAPACITY</b> (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											

### SAMPLING DATA

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	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:							
<b>MATERIAL CODES:</b> AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)							
<b>SAMPLING/PURGING EQUIPMENT CODES:</b> 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)							

**NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.**

**2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)**

**pH:** ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 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)

**ATTACHMENT 1**  
**Time Sensitive Action Chart**

Required Notifications and Submittals to the Department

If any of the time deadlines in the Time Sensitive Action Chart are inconsistent with the time deadlines in the permit conditions, the time deadlines in the permit condition shall be followed.

<b>Specific Condition</b>	<b>Topic</b>	<b>Action</b>	<b>Due Date</b>
Section 2.A.3	Permit Renewal	Submit permit renewal application to the Department	Due XX/XX/2024
Section 2.A.5	Permit Fees	Submit installment payment of \$4,000 to the Department	September XX, 2019
Section 2.A.6	5 Year Submittal Report	Submit report to the Department	September XX, 2019
Section 2.C.1	Operation Plan	Notify the Department	Before any non-minor operational changes
Section 2.C.8	Erosion Control	Notify the Department	When it is determined that the erosion cannot be corrected within 7 days of occurrence.
Section 2.C.9	Emergencies	Notify the Department	Per the Contingency Plan
Section 2.C.12.a	Waste Quantity Report	Submit information at <a href="http://www.fldepportal.com/go">http://www.fldepportal.com/go</a>	January 20 of each year
Section 2.C.12.b	Estimate of Remaining Life	Submit estimate of remaining life to the Department	November 1 of each year
Section 2.C.13	Regulated Hazardous Waste	Notify the Department	Immediately upon discovery
Section 2.D	Ground Water Monitoring	Conduct sampling semi-annual sampling events and submit ground water monitoring reports	Per the current MPIS
Section 2.E.1	Gas Monitoring	Submit report to the Department	Quarterly within 15 days of monitoring event
Section 2.F.1	Cost Estimate for Unused Disposal Units	Submit to the Department	60 days prior to the planned acceptance of waste
Section 2.F.1	Annual Financial Mechanism Adjustment	Submit evidence of adjusted financial mechanism to the Department	Annually after the adjusted cost estimate is approved
Section 2.F.2	Cost Estimate	Submit to the Department	Annually between July 1 and September 1
Section 2.G.1.a	Closure	Submit an application to the Department for a closure permit	Closure activities may be initiated only after the permit is issued.
Section 2.G.4	Closure Construction	Submit Certification of Construction Completion Report	After completion of each sequence of closure
APPENDIX 3 MPIS	Technical Reports	Submit MPIS Technical Report	March 2017, September 2019, March 2022, Permit Renewal for Class III (by XX/XX/2024), March 2027, September 2029, Permit Renewal for Class I (3/13/2033)