Florida Department of Environmental Protection
Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

July 12, 2012

NOTICE OF PERMIT

By-Email
mkaiser@wasteservicesinc.com

In the matter of an
Application for Permit
By:

Mr. Mike Kaiser
Omni Waste of Osceola County, LLC
1501 Omni Way
St. Cloud, FL 34773

OCD-SW-12-271

Osceola County – SW WACS # 89544
J.E.D. Solid Waste Management Facility
Class I Landfill
DEP File No. SO49-0199726-022

Dear Mr. Kaiser:

Enclosed is Permit Number SO49-0199726-022 to operate the J.E.D. Solid Waste Management Facility Class I Landfill, issued under Sections 403.061(14) and 403.707, of the Florida Statutes.

Any party to this order (permit) has the right to seek judicial review of the permit under section 120.68 of the Florida Statutes, by the filing of a Notice of Appeal under rule 9.110 of the Florida Rules of Appellate Procedure, with the Clerk of the Department of Environmental Protection, 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 notice is filed with the Clerk of the Department.

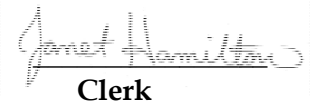
Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

FOR:
Jeff Prather
Director, Central District

FILING AND ACKNOWLEDGMENT

FILED, July 12, 2012, pursuant to Section 120.52, F. S., with the designated Department Clerk, receipt of which is hereby acknowledged.

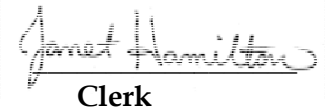


Clerk

July 12, 2012
Date

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT and all copies were sent before the close of business on July 12, 2011 to the listed persons.



Clerk

JP/kr

Enclosures
1. Permit No. SO49-0199726-022

Copies furnished to:
Richard Tedder, P.E. – DEP – Tallahassee, Richard.Tedder@dep.state.fl.us
FDEP Solid Waste Financial Coordinator, solid.waste.financial.coordinator@dep.state.fl.us
Victor M. Damasceno, Ph.D., P.E. – Geosyntec Consultants, vdamasceno@geosyntec.com

Florida Department of Environmental Protection

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

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Permit Issued to:

Omni Waste of Osceola County, LLC
1501 Omni Way
St. Cloud, Florida
(904) 673-0446

WACS Facility ID No.: 89544
Facility Name: J.E.D. Solid Waste Management Facility
1501 Omni Way
St. Cloud, Osceola County, Florida

Contact Person:
Michael Kaiser. Regional Engineer
mkaiser@wasteservicesinc.com
(904) 673-0446

Solid Waste Operation Renewal Permit – Class I Landfill
Permit No.: SO49-0199726-022

Permit Issued: July 12, 2011
Permit Renewal Application Due Date: May 3, 2017
Permit Expires: July 3, 2017

Permitting Authority
Florida Department of Environmental Protection
Central District Office
3319 Maguire Blvd., Ste 232
Orlando, Florida 32803
407-897-4100

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, 62-701, and 62-711.

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 approximately 6.5 miles south of Holopaw, on the west side of U.S. Highway 441, in eastern Osceola County, Florida (latitude 28° 3′ 32″ longitude 81° 5′ 46″).

C. Facility Description

The above named permittee is hereby authorized to operate the facility shown on the application and approved drawings, plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

- To continue waste processing and disposal operations at the J.E.D. Solid Waste Management Facility (formerly known as the Oak Hammock Disposal Facility).

- To operate the Class I landfill Phases 1, 2, 3 and 4 (cells 1-13), approximately 173 acres. The complete build-out of the J.E.D. Class I landfill includes 8 Phases (cells 1-23), approximately 363 acres of total landfill acreage. The permitted maximum elevation is 330 feet NGVD. The landfill resides within a total property boundary of approximately 2,179 acres.

- The Class I landfill is designed with a double-composite liner system which directs any liquid entering the landfill that may have contacted refuse to a leachate collection system (LCS). The collected leachate is pumped from the sumps into the leachate transmission line where it is conveyed to an on-site leachate storage facility.

- The facility has a Title V air permit #0970079-009-AV. The Class I landfill has an active landfill gas management system (LGMS) design. The LGMS is installed in phases per the approved design to control air emissions, odor and migration of methane.

- To operate the waste tire processing facility.
- To operate the liquid waste solidification process within the permitted landfill footprint.
- To operate the auto fluff residual recycling operations. The recycling operations are located within the permitted landfill footprint.
- The facility has a ground water and surface water monitoring plan.

D. Appendices Made Part of This Permit

APPENDIX 1 - General Conditions

APPENDIX 2 – Approved Application Documents

APPENDIX 3 – Water Quality Monitoring Plan

E. Attachments for Informational Purposes Only (none)

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. Air Construction Permit Requirements
   a. The Permitee is required to comply with the facility's Title V air permit #0970079-009-AV.
   b. The landfill owner or operator is not required to obtain an air construction permit, unless landfill construction or any modification is subject to the prevention of significant deterioration (PSD) requirements of Chapter 62-212, F.A.C. A landfill for which construction or modification is subject to PSD requirements must make application to the Bureau of Air Regulation, Department of Environmental Protection, Mail Station 5505, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, for an air construction permit and must obtain such permit prior to beginning any construction or modification.
   c. The Permittee is required to comply with the requirements of 40 CFR 60, Subpart WWW and CC as adopted by reference in Rule 62-204.800, F.A.C. The Permittee may have to submit to the Division of Air Resource Management, Department of Environmental Protection, Mail Station 5500, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, any amended design capacity report and any Non-Methane Organic Compound (NMOC) emission rate report, as applicable, pursuant to 40 CFR 6-.757(a)(3) and (b).

B. Construction Requirements

1. Construction authorized. This permit does not authorize any liner construction activities. All liner construction activities are authorized under Permit No. SO49-0199726-017 and any associated permit modifications.

C. Operation Requirements

1. General Operating Requirements. The Permittee shall operate the landfill in accordance with the approved Operation Plan as listed in APPENDIX 2, references 1 and 4. 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 facility is authorized to manage only the following waste types:
   a. Waste types defined in Rule 62-701.200, F.A.C.:
      1) Class I waste.
      2) Class III waste.
      3) Construction and demolition debris.
      4) White goods.
      5) Waste tires.

6) Industrial waste
7) Commercial waste
8) Special waste

b. Other Wastes Specifically Authorized: agricultural waste, recovered screen materials (RSM), contaminated soils, asbestos, auto shredder residual, ash residue and treated biomedical waste; water treatment sludge, industrial sludge, domestic sludge, leachate, gas condensate and industrial liquid waste for solidification (solid waste leachate and gas condensate may also be recirculated).

4. Unauthorized Waste Types. The facility is not authorized to accept, process, or dispose any waste types not listed in 2.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 Landfill shall not exceed 330 feet NGVD as shown on drawing 39 "Final Cover System Grading Plan I" and drawing 40 "Final Cover System and Grading Plan II" of APPENDIX 2, reference 1

7. Initial Waste Placement. The first layer of waste placed above the liner and leachate collection system shall be a minimum of four feet in compacted thickness and consist of selected wastes containing no large rigid objects that may damage the liner or leachate collection system.

8. Cover Requirements:
   a. Initial Cover as defined in Rule 62-701.200(53), F.A.C.: Initial cover shall be applied at the end of each working day. For those areas where waste will be deposited on the working face within 18 hours initial cover may consist of a temporary cover, such as a tarpaulin.
   b. Intermediate Cover as defined in Rule 62-701.200(55), F.A.C.: An intermediate cover in addition to the six-inch initial cover shall be applied and maintained within seven days if additional solid waste will not be deposited within 180 days. The landfill operator may remove all or part of the intermediate cover before placing additional waste or installing final cover.
   c. Alternate Materials for Initial Cover: Approved alternate cover materials for the use at J.E.D. Solid Waste Management Facility include tarps, auto shredder fluff, tire chips, mulch mixed with soil at a maximum 50/50 ratio, and petroleum contaminated soils.

9. 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.

10. 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)897-4304.

11. 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.

12. Leachate Management.
    a. The permittee shall operate the leachate management system (including the collection, removal, storage, and on-site treatment systems), and maintain the system as designed, so that leachate is not discharged from the system except as provided for in the Design Plan and Operation Plan.
    b. Routine inspections and maintenance of the leachate management system shall be conducted in accordance with the schedule established in the Operation Plan.
    c. The leachate collection pipes shall be cleaned or video inspected at least once every five years. A summary of the results shall be submitted with the permit renewal application.
    d. The permittee shall record quantities of leachate generated on a daily basis in gal/acre/day, shall record precipitation at the facility, and shall compare these measurements. If measurements indicate a significant discrepancy between leachate generation rates and precipitation records, the permittee shall notify the Department and conduct an assessment to determine the cause of the discrepancy.
    e. The permittee shall compare the leachate flow rates in the leak detection system with the design action leakage rate (ALR) for the double liner. If measurements indicate the ALR has been exceeded, the permittee shall notify the Department and conduct an assessment to determine the cause of the leak. This data shall be made available to the Department upon request.
    f. Recirculation: Leachate may be recirculated in accordance with the Operation Plan. Leachate may only be recirculated on inside slopes of areas of the landfill which have not undergone final closure.
    g. Annual sampling of the leachate is not required for this permit. However, if the permittee receives any analytical results of the leachate which indicate that a contaminant listed in 40 CFR Part 261.24 exceeds the regulatory level listed therein, the permittee:
        i. Shall notify the Department in writing within 14 days of receipt of the analytical data. The notification shall describe how the leachate will be handled, treated, and disposed.

ii. Shall initiate monthly sampling and analysis within 60 days of receipt of the analytical data for the parameters in exceedance and for field parameters. If in any three consecutive months no listed contaminant is found to exceed the regulatory level, the permittee may request approval from the Department to discontinue the monthly sampling and analysis.

iii. Shall submit and discuss all leachate sampling data in subsequent routine semi-annual sampling reports.

13. Spotters and Operators. This 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/

14. Record Keeping Requirements.
    a. Waste Quantity Records. Waste records shall be compiled monthly, and copies 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 by September 30 of each year. The report is required by Rule 62-701.500(13)(c), F.A.C. and must be submitted to the District Office and to:
        Florida Department of Environmental Protection
        Solid Waste Section, MS 4565
        2600 Blair Stone Road
        Tallahassee, Florida, 32399-2400

15. 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.

16. Stormwater. Leachate shall not be discharged into the stormwater management system. Stormwater or other surface water which comes into contact with or mixes with the solid waste or leachate shall be considered leachate and is subject to the requirements of Rule 62-701.500(8), F.A.C.

17. Waste Solidification: Waste Solidification operations shall be done in accordance with the Operation Plan Appendix E Waste Solidification Operation Plan (Appendix 2, reference 1).

a) The wastes accepted for solidification at the facility shall be liquid and semi-liquid wastes that are classified as non-hazardous according to the State and Federal Regulations. Typical wastes may include pumping from maintenance and cleaning of septic systems, oil/water separators, drainage inlets, and other types of collection systems. Other waste may include by-products and waste waters generated from industrial manufacturing units, drilling fluids, bilge waters, and groundwater/soil contamination remediation activities and leachate generated at Transfer Stations.
b) The solidification shall be performed using the solid wastes presently accepted for disposal. Solid waste materials used to solidify the liquid and semi-liquid wastes will be those types that characteristically have higher moisture absorptive characteristics (i.e., auto shredder fluff; contaminated and clean soils; cement, lime, and ash based wastes; and recovered screen materials (RSM)).
c) Waste solidification operations shall be performed within the lined limits of the Class I disposal area and solidified wastes will be transported and disposed in the active landfilling areas. The GPS coordinates of the solidified waste disposal locations within the cell footprint shall be recorded. This data shall be maintained at the site and readily available during Department inspections.
d) The waste solidification operating area shall be clearly designated with visible signs. Additional signs shall be provided for the incoming traffic for directions to the waste solidification area.

18. Auto Shredder Residual (ASR) Recycling: ASR generated at off-site third party auto shredder facilities is accepted at the facility for direct disposal, recycling, use as daily cover, and use as a solidification material in the liquid waste solidification operations. ASR recycling operations shall be done in accordance with the operation plan Appendix F Auto Shredder Residual Recycling Plan (APPENDIX 2, reference 1).
    a) ASR Location: The ASR recycling operations shall be installed in the active lined Cell 6 as shown on Sheet 1 in the Operation Plan Appendix F. The permittee shall obtain approval from the Department prior to relocation of the ASR operations.
    b) Dust Control: Dust control will be provided at the processing equipment using water mist or spray systems installed in select locations on the equipment. Litter control will be maintained in accordance with the Operation Plan.
    c) Closure Requirements: The permittee shall notify the Department 30 days in advance of the planned closure date. A notice shall be posted at the facility weigh scales 30 days prior to closing indicating that the ASR recycling will be closing and the date of closure. All processing equipment, support equipment, and marketable materials shall be removed from the facility upon closure.

19. Waste Tire Processing: All waste tire acceptance, storage, processing, and reporting shall be done in accordance with Chapter 62-711, F.A.C. Waste tire processing operations shall be done in accordance with the operation plan Appendix G Waste Tire Storage and Processing Plan (APPENDIX 2, reference 1).
    a) Waste Tire Processing Location: Waste tire processing operations shall be located in future Cell 13 as shown on Sheet 3 in the Operation Plan Appendix G.

The permittee shall obtain approval from the Department prior to relocation of the waste tire processing operations. Upon relocation, the facility shall meet the certification requirements of Rule 62-701.320(9)(b), F.A.C. after completion of construction and prior to operation of the new waste tire processing location.

b) Maximum Storage: The facility shall not accept any waste tires for processing if it has reached its permitted storage limit for any category of waste tires, or if the number of waste tires on the site exceeds the quantity estimate in the closing cost estimate, Rule 62-711.530, F.A.C. As stated in the operation plan Appendix G, the maximum storage limits at the facility are the following:
    a. Whole waste tires - 313 tons,
    b. processed tires - 313 tons, and
    c. Residuals - 10 tons.

D. Water Quality Monitoring Requirements

1. Zone of Discharge. The zone of discharge for the facility shall be a three dimensional volume, defined in the vertical plane as extending from the top of the ground to the bottom of the screen of the deep surficial monitoring wells, and defined in the horizontal plane as extending 100 feet from the footprint of the waste disposal area or to the property boundary, whichever is less. The permittee shall ensure that Class G-II water quality standards will not be exceeded at the boundary of the zone of discharge, per Rule 62-520.420, F.A.C., and that ground water minimum criteria will not be exceeded outside the boundary of the zone of discharge, per Rule 62-701.320(17), F.A.C.

2. Electronic Reporting. Required water quality monitoring reports and all ground water, surface water and leachate analytical results shall be submitted electronically. Water quality monitoring reports shall be submitted in Adobe pdf format. The water quality data Electronic Data Deliverable (EDD) shall be provided to the Department in an electronic format consistent with requirements for importing the data into the Department's databases. Water quality monitoring reports shall be signed and sealed by a Florida registered professional geologist or professional engineer with experience in hydrogeological investigations and shall include the following:
    a. Cover letter;
    b. Summary of exceedances and sampling problems, if any (e.g., variation from SOP field criteria);
    c. Conclusions and recommendations;
    d. Ground water contour maps;
    e. Chain of custody forms;
    f. Water levels, water elevation table;
    g. Ground Water Monitoring Report Certification, using the appropriate Department form;
    h. Appropriate sampling information on Form FD 9000-24 (DEP-SOP-001/01); and,
    i. Laboratory and Field EDDs and error logs, as applicable.

    All submittals in response to this specific condition shall be sent to the District Office and to:

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

3. Water Quality Monitoring Plan. The Water Quality Monitoring Plan is called the Monitoring Plan Implementation Schedule (MPIS). It is attached as APPENDIX 3. The MPIS (dated 4/11/2012) applies to the entire facility and replaces all previous versions. The MPIS or its attachments may be revised or updated at any time. Any revised / updated documents will be issued with a new date and effective for the next sampling event.

E. Gas Management System Requirements

1. Construction Requirements. All construction shall be done in accordance with the approved gas management system design, drawings, and specifications. The Department shall be notified before any changes, other than minor deviations, to the approved design are implemented in order to determine whether a permit modification is required.
   a. Locations of ambient monitoring points and soil monitoring probes are specified in drawing 30 "Gas Management System Plan I" and drawing 31 "Gas Management System Plan II" of APPENDIX 2, reference 1.
   b. The Gas Management System design, including the locations of gas extraction wells and collection lines, is detailed in drawings 30 – 37 of APPENDIX 2, reference 1.

2. Certification of Construction Completion. After each phase of construction is completed for the Gas Management System, the engineer of record shall certify to the Department in accordance with Rule 62-701.320(9)(b), F.A.C., that the permitted construction is complete and was performed in substantial conformance with the approved construction plans except where minor deviations were necessary. All deviations shall be described and the reasons therefore enumerated.

3. Operational Requirements. Gas controls shall be operated and maintained so that they function as designed.

4. 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 Department under separate cover no later than 15 days after the end of the period in which the monitoring occurred.

5. Gas Remediation Plan.
   a. 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.

b. The lower explosive limit at or beyond the property boundary has been exceeded during past quarterly monitoring. A gas remediation plan has been developed which outlines investigative and corrective actions. The Plan will be implemented and revised as necessary until the gas migration issue has been deemed resolved by the Department.

6. 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. The permittee may not receive waste for disposal or storage in any disposal unit for which financial assurance is deferred. 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 identified on Form 62-701.900(29). In addition, the permittee must receive specific written approval of the financial assurance mechanisms prior to being authorized by the district office to commence disposal operations.

When established, the permittee shall maintain, in good standing, the financial assurance mechanisms established to demonstrate proof of financial assurance. Support documentation and evidence of inflation adjustment 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. Annual Cost Estimates. The permittee shall annually adjust each closure cost estimate for inflation using Form 62-701.900(28). Adjustments shall be made in accordance with Rule 62-701.630(4), F.A.C., 40 CFR Part 264.142(a) and 40 CFR Part 264.144(a). An owner or operator using a letter of credit, guarantee bond, performance bond, financial test, corporate guarantee, trust fund or insurance shall submit the adjusted cost estimate(s) between January 1 and March 1. An owner or operator using an escrow account shall submit the adjusted estimate(s) between July 1 and September 1. All submittals in response to this specific condition shall be sent to the District Office and a copy to the address identified in Specific Condition F.1. or to the following email address: 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 must receive authorization from the Department in one of the following manners. The Permittee may submit an application to the Department for a closure permit on Form 62-701.900(1), which application shall include a closure plan. If the landfill is operating under a Department permit, the Permittee may request a modification of the permit to address substantive changes in the closure plan, or the Permittee may demonstrate that the closure plan in the existing operation permit includes sufficient detail to provide reasonable assurance of compliance with the provisions for closure. The application or request for modification shall include an updated closure plan which is made up of the following:
   a. A closure design plan;
   b. A closure operation plan;
   c. A plan for long-term care; and,
   d. 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 dated April 28, 2011 (reference Appendix 2, #8). 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 each phase of 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. The closed sections of the landfill will continue to be monitored and maintained per the Operation Plan. The following closure activities have been permitted:
   - Partial closure of side slopes of Phase 1, cells 1-4, Permit No. SO49-0199726-011, permit issued on February 17, 2009.
   - Partial closure of upper side slopes and top of Phase 1, cells 1-4, Permit No. SO49-0199726-018, permit issued on July 28, 2011.

H. Long Term Care Requirements

No area is in long-term care at this time.

Executed in Orange County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

F Thomas Fellenzynski

FOR:
Jeff Prather
District Director
Central District

FILED, July 12, 2012, pursuant to Section 120.52, F.S. with the designated Department Clerk, receipt of which is hereby acknowledged.

Janet Hamilton

Clerk

July 12, 2012

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 Statues 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.

APPENDIX 2
Approved Application Documents

1. Renewal Permit Application to Operate Phases 1 Through 4 of the J.E.D. Solid Waste Management Facility, dated November 10, 2011. Received and stamped November 14, 2011, DEP – Central District.

2. First Request for Additional Information from DEP – Central District dated December 7, 2011.

3. First Request for Additional Information – Addendum: Cost Estimate Details from DEP – Central District dated December 29, 2011.

4. Response to First Request for Additional Information from Omni Waste of Osceola County, LLC dated February 8, 2012. Received and stamped February 10, 2012, DEP – Central District.

5. Second Request for Additional Information from DEP – Central District dated March 5, 2012.

6. Response to Second Request for Additional Information dated April 3, 2012. Received and stamped April 4, 2012, DEP – Central District.

7. Permit Application Complete Letter from DEP – Central District dated April 12, 2012.

8. Response to First Request for Additional Information (includes the approved Closure Plan as Appendix E of this document) from Omni Waste of Osceola County, LLC dated April 28, 2011. Received and stamped April 29, 2011, DEP – Central District.

Appendix 3

J.E.D. Solid Waste Management Facility (JED), CLASS I LANDFILL

WACS_FACILITY: 89544

MONITORING PLAN IMPLEMENTATION SCHEDULE (MPIS)
7/3/2012

GENERAL

1. This MPIS is effective when permit SO49-0199726-022-is issued. [**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(7)(a), F.A.C.]**

Upon notification by the Department, the permittee shall initiate evaluation monitoring in accordance with Rule 62-701.510(7) F.A.C. **[62-701.510(7)(a), F.A.C.]**

GROUND WATER QUALITY MONITORING

5. Based on the first biennial sampling data, the Department accepts as background the following levels for ammonia and arsenic for the specific wells noted:

Well Name	Ammonia mg/L	Arsenic mg/L
MW-5A	**10**	
MW-9A	**10**	
MW-10A	**10**	
MW-11A	**10**	**20**
MW-13A		**20**

6. Based on historic sampling, the Department accepts as background 4.5 STU for pH at the site.

7. The fifty-seven (57) active monitoring wells are listed on **Attachment A** and shown on **Attachment B1**. [**62-701.510(3)(d)2 & 3, F.A.C.**]

8. Any Initial sample collected from a ground water monitoring well shall be analyzed for the following Initial Ground Water Monitoring Parameters. **[62-701.510(6)(b)2, F.A.C.]**

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

*Appendix I is not listed separately because it is a subset of Appendix II.

9. Semi-annual samples from the ground water monitoring wells shall be collected in **May** and **November**. In **May** the thirty-nine (39) monitoring wells listed on

the May sampling list shall be sampled. In **November** the thirty-nine (39) monitoring wells listed on the **November** sampling list shall be sampled. The samples shall be analyzed for the following Ground Water Monitoring Parameters. **[62-701.510(6)(d) & (8)(a), F.A.C.]**

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

* Barium, Cadmium, and Chromium have been deposited in the landfill at elevated levels and should not be removed from the sampling parameter lists.

10. 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.

11. 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 minimum criteria until standards are promulgated.

SURFACE WATER MONITORING

12. The two (2) surface water sites included in this monitoring plan are SW-3 and SW-4. They are listed on **Attachment A** and shown on **Attachment B2**. **[62-701.510(4)(c), F.A.C.]**

13. Semi-annual samples from the two (2) 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(6)(e) & (8)(b), F.A.C.]**

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Field Parameters	Laboratory Parameters
1. Surface water level	1. Unionized ammonia as N
2. Dissolved oxygen	2. Total hardness as CaCO3
3. pH	3. Biochemical oxygen demand (BOD_5)
4. Specific conductivity	4. Iron
5. Temperature	5. Mercury
6. Turbidity	6. Nitrate
	7. Total Dissolved Solids (TDS)
	8. Total Organic Carbon (TOC)
	9. Fecal Coliform
	10. Total Phenols
	11. Total Phosphorus as P
	12. Chlorophyll A
	13. Total nitrogen
	14. Chemical Oxygen Demand (COD)
	15. Total Suspended Solids (TSS)
	16. Those parameters listed in 40 CFR Part 258 Appendix I

14. 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

15. 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.]**

16. New or replacement monitoring well design or placement must be approved by the Department. Either:
    a. 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. (This condition is satisfied for the 17 new wells specified in this MPIS.)

17. 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.]**

18. 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.]**

19. 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

20. 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(9)(a), F.A.C.]**

MONITORING WELL COMPLETION

21. 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 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

22. 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.**]

23. 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

24. A total depth measurement must be made on each well at time of permit renewal. This information must be provided as part of permit renewal application. This measurement is to be reported as total apparent depth below ground surface and should be compared to the original total depth of the well.

INITIAL AND SEMI-ANNUAL SAMPLING

25. Required monitoring reports must be submitted to the Department within sixty (60) days from completion of laboratory analyses. Requirement for submitting the report is outlined in **Attachment D (ADaPT electronic reporting requirement) [Rule 62-701.510(9), F.A.C.]**

WATER ELEVATIONS

26. 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.

27. 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 semiannually.

28. All water level measurements must be made within a one-day period.

29. These measurements should be reported in a table that includes well or surface water point name, date water level measured, measuring point elevation referenced to NGVD 1929, depth to water and calculated water level elevation referenced to NGVD 1929. The ground water elevations shall be reported in the ADaPT data for the upload into WACS. **[62-701.510(9)(a)8, F.A.C.] [62-701.510(9)(a)8, F.A.C.]**

GROUND WATER CONTOUR MAPS

30. 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 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(9)(a)9, F.A.C.]**

MPIS Technical Report (formerly Biennial Report)

31. 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 results and water level

measurements collected since the last Technical Report. The report shall contain, at a minimum, the following [62-701.510(9)(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.

32. One (1) paper and 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
Mid-Permit Report	November 2011 through May 2014	6	July 2014
Renewal Report	November 2014 through November 2016	5	At the time of Operation Permit SO49-0199726-022 Renewal (Due May 3, 2017)

Requirements for Electronic Reporting of Water Quality Data

33. 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 laboratory analyses. **(62-160.240 and 62-160.340, F.A.C.)**

34. Monitoring Plan Implementation Schedule Tracking J.E.D. MPIS for current permit period:

Date	Type	Notation
4/6/2009	MPIS Revision	MPIS updated for the sampling locations and schedule
6/8/2012	MPIS with Permit Renewal Intent	• Updated for 1/6/2010 Revisions to 62-701, F.A.C. • #6 Note that the Department accepts as background 4.5 STU for pH at the site. • #s 8, 9, and 13-Based on high phenols in the leachate, Total Phenols have been added to the parameter lists for the monitoring wells and the surface water site. • #26 revised to clarify that ground water elevations—rather than depth to ground water—are needed in ADaPT. • Att A-Based on radial flow, the background wells on the west side have been reclassified as detection wells. • Removed Leachate sampling.
7/3/2012	MPIS Corrections with Permit Renewal	• Corrected number of wells in active MPIS document and Attachment A.

List of Attachments

Attachment A – Monitoring Well, Surface Water Sampling Point Lists

Attachment B1 – Monitoring Locations Map MPIS

Attachment B2 – Monitoring Locations Map for Surface Water

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

JED Master List of All MPIS MWs--Active and Suspended

		Sampling Months	Count Active MWs	Site Name	WACS Well #	Well Type	Zone/Screen all G-II	WACS Report Type
Ground Water								
A Zone	1	May & Nov	1	MW-1A	19900	DE	Upper Surficial	SEMGW
	2	May & Nov	2	MW-2A	19903	DE	Upper Surficial	SEMGW
	3	May & Nov	3	MW-3A	19906	DE	Upper Surficial	SEMGW
	4	May & Nov	4	MW-4A	19909	DE	Upper Surficial	SEMGW
	5	May & Nov	5	MW-5A	19912	DE	Upper Surficial	SEMGW
	6	May & Nov	6	MW-6A	19915	DE	Upper Surficial	SEMGW
	7	May & Nov	7	MW-7A	19918	DE	Upper Surficial	SEMGW
	8	May & Nov	8	MW-8A	19921	DE	Upper Surficial	SEMGW
	9	May & Nov	9	MW-9A	19924	DE	Upper Surficial	SEMGW
	10	May & Nov	10	MW-10A	19927	DE	Upper Surficial	SEMGW
	11	May & Nov	11	MW-11A	19930	DE	Upper Surficial	SEMGW
	12	May & Nov	12	MW-12A	19933	DE	Upper Surficial	SEMGW
	13	May & Nov	13	MW-13A	19936	DE	Upper Surficial	SEMGW
	14	May & Nov	14	MW-16A	22342	DE	Upper Surficial	SEMGW
	15			MW-17A	22345	DE	Upper Surficial	SEMGW
	16			MW-18A	22348	DE	Upper Surficial	SEMGW
	17	May & Nov	15	MW-19A	22351	DE	Upper Surficial	SEMGW
	18	May & Nov	16	MW-20A	22354	DE	Upper Surficial	SEMGW
	19	May & Nov	17	MW-21A	22357	DE	Upper Surficial	SEMGW
	20	May & Nov	18	MW-22RA	28685	DE	Upper Surficial	SEMGW
	21	May & Nov	19	MW-23A	22363	DE	Upper Surficial	SEMGW
B Zone	22	May	20	MW-1B	19901	DE	Intermediate Surifical	SEMGW
	23	May	21	MW-2B	19904	DE	Intermediate Surifical	SEMGW
	24	May	22	MW-3B	19907	DE	Intermediate Surifical	SEMGW
	25	May	23	MW-4B	19910	DE	Intermediate Surifical	SEMGW
	26	May	24	MW-5B	19913	DE	Intermediate Surifical	SEMGW
	27	May	25	MW-6B	19916	DE	Intermediate Surifical	SEMGW
	28	May	26	MW-7B	19919	DE	Intermediate Surifical	SEMGW
	29	May	27	MW-8B	19922	DE	Intermediate Surifical	SEMGW
	30	May	28	MW-9B	19925	DE	Intermediate Surifical	SEMGW
	31	May	29	MW-10B	19928	DE	Intermediate Surifical	SEMGW
	32	May	30	MW-11B	19931	DE	Intermediate Surifical	SEMGW
	33	May	31	MW-12B	19934	DE	Intermediate Surifical	SEMGW
	34	May	32	MW-13B	19937	DE	Intermediate Surifical	SEMGW
	35	May & Nov	33	MW-16B	22343	DE	Intermediate Surifical	SEMGW
	36			MW-17B	22346	DE	Intermediate Surifical	SEMGW
	37			MW-18B	22349	DE	Intermediate Surifical	SEMGW
	38	May	34	MW-19B	22352	DE	Intermediate Surifical	SEMGW
	39	May	35	MW-20B	22355	DE	Intermediate Surifical	SEMGW
	40	May	36	MW-21B	22358	DE	Intermediate Surifical	SEMGW
	41	May	37	MW-22RB	28686	DE	Intermediate Surifical	SEMGW
	42	May	38	MW-23B	22364	DE	Intermediate Surifical	SEMGW
C Zone	43	November	39	MW-1C	19902	DE	Deep Surficial	SEMGW
	44	November	40	MW-2C	19905	DE	Deep Surficial	SEMGW
	45	November	41	MW-3C	19908	DE	Deep Surficial	SEMGW
	46	November	42	MW-4C	19911	DE	Deep Surficial	SEMGW
	47	November	43	MW-5C	19914	DE	Deep Surficial	SEMGW
	48	November	44	MW-6C	19917	DE	Deep Surficial	SEMGW
	49	November	45	MW-7C	19920	DE	Deep Surficial	SEMGW
	50	November	46	MW-8C	19923	DE	Deep Surficial	SEMGW
	51	November	47	MW-9C	19926	DE	Deep Surficial	SEMGW
	52	November	48	MW-10C	19929	DE	Deep Surficial	SEMGW
	53	November	49	MW-11C	19932	DE	Deep Surficial	SEMGW
	54	November	50	MW-12C	19935	DE	Deep Surficial	SEMGW
	55	November	51	MW-13C	19938	DE	Deep Surficial	SEMGW
	56	May & Nov	52	MW-16C	22344	DE	Deep Surficial	SEMGW
	57			MW-17C	22347	DE	Deep Surficial	SEMGW
	58			MW-18C	22350	DE	Deep Surficial	SEMGW
	59	November	53	MW-19C	22353	DE	Deep Surficial	SEMGW
	60	November	54	MW-20C	22356	DE	Deep Surficial	SEMGW
	61	November	55	MW-21C	22359	DE	Deep Surficial	SEMGW
	62	November	56	MW-22RC	28687	DE	Deep Surficial	SEMGW
	63	November	57	MW-23C	22365	DE	Deep Surficial	SEMGW

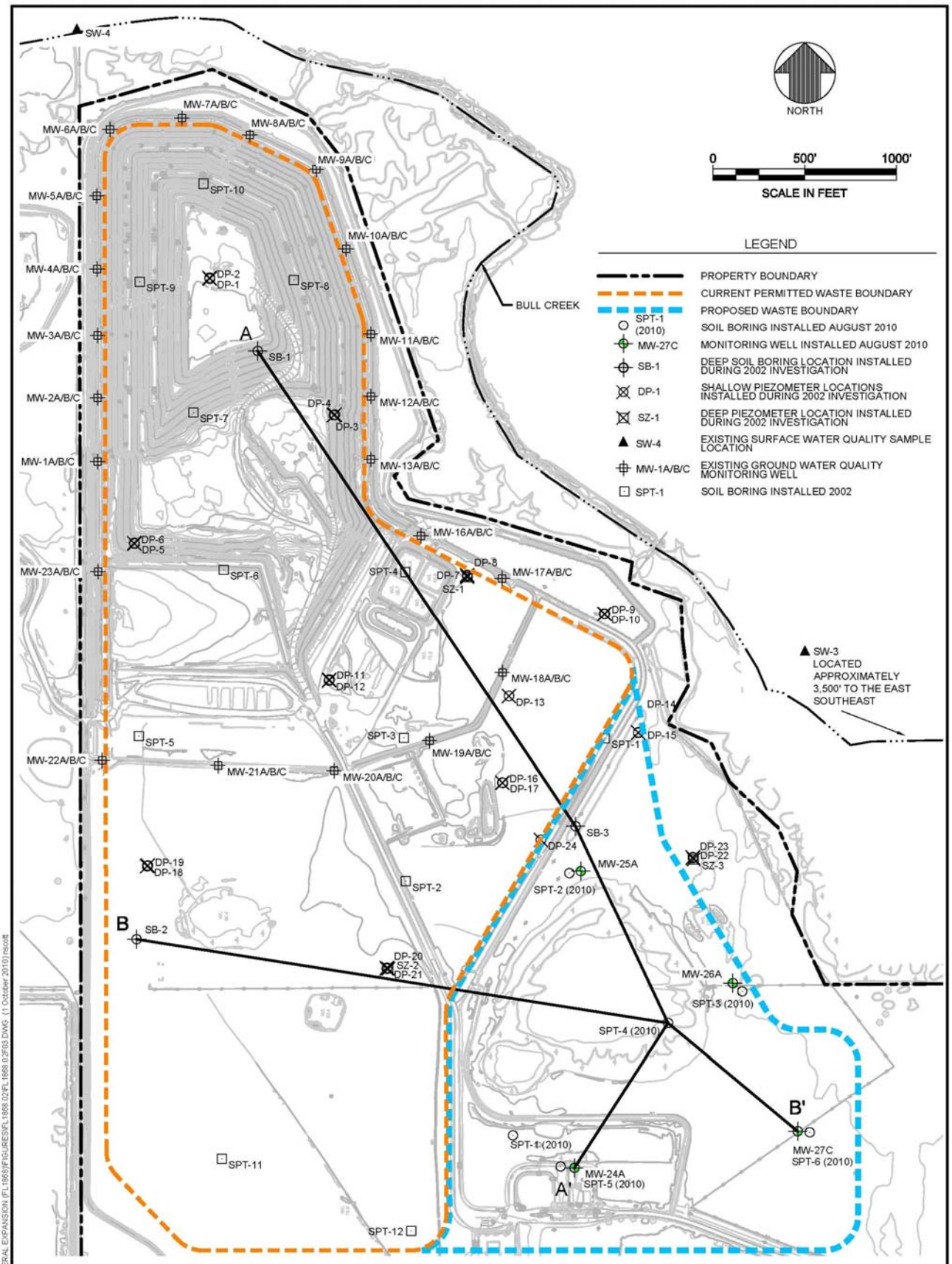
Legend

May and November

May only

November Only

Suspended Until Adjacent Cell Becomes Active



2010 HYDROGEOLOGICAL AND GEOTECHNICAL INVESTIGATION ADDENDUM LOCATIONS
J.E.D. SOLID WASTE MANAGEMENT FACILITY

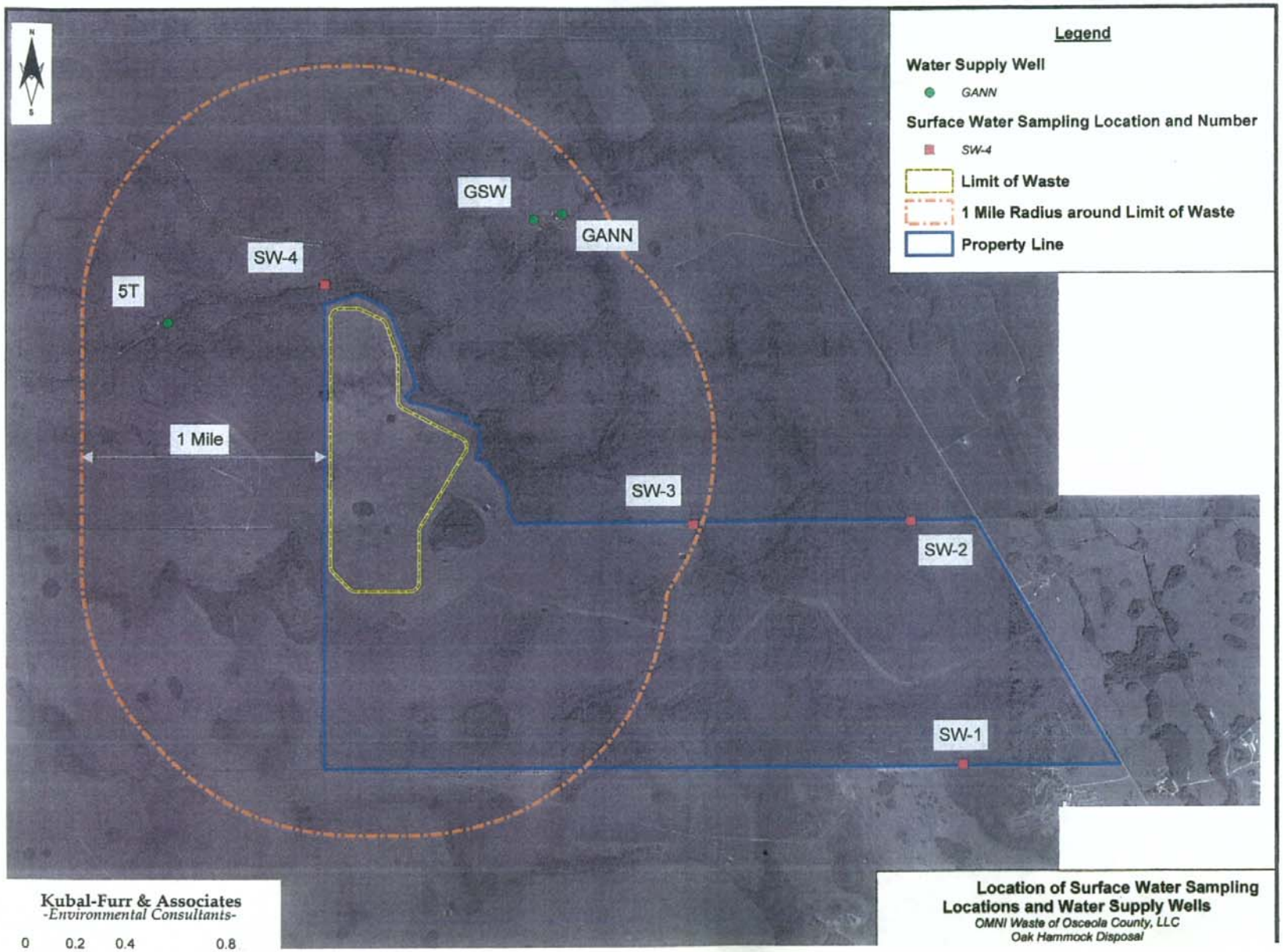
Geosyntec consultants

TAMPA, FL

DATE:	MAR 2011	FILE NO.	FL1868.02F03
PROJECT NO.	FL1868	FIGURE NO.	4

Attachment B1 7/3/2012

I:\CADD\PROJECTS\JULIED LANDFILL\PERMIT\LATERAL EXPANSION (FL1868)\FIGURES\FL1868.02\FL1868.02F03.DWG (1 October 2010) mscott



Attachment B2 7/3/2012

ATTACHMENT C

Florida Department of Environmental Protection

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

MONITORING WELL COMPLETION REPORT FORM

Facility Name: **J.E.D. Disposal, Class I Landfill**		Date:
DEP Permit No.:	WACS Facility ID #: **89544**	
WACS Monitoring Site ID #:	WACS Monitoring Site Name:	
Well Type: ❑ Background ❑ Detection ❑ Compliance ❑ 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

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
REQUIREMENT FOR SUBMITTING
ELECTRONIC WATER QUALITY DATA
TO THE FDEP CENTRAL DISTRICT SOLID WASTE PROGRAM

7/3/2012

I. General Information

Electronic versions of monitoring reports and all ground water, surface water and leachate analytical results for the Solid Waste Program shall be submitted to the Department on compact disc, DVD, or flash drive media readable by Microsoft Windows. Water quality monitoring reports shall be submitted in Adobe pdf format.

Unless otherwise approved by the Department, the water quality Electronic Data Deliverable (EDD) shall be compatible with software called Florida DEP Automated Data Processing Tool (ADaPT). 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: **ftp://ftp.dep.state.fl.us/pub/WACS-ADaPT/ (Rules 62-160.240 and 62-160.340, F.A.C.)**

II. Monitoring Report

Two electronic copies of the water quality monitoring report shall be submitted. The electronic version of the monitoring report shall be submitted in Adobe pdf format, with the EDDs as separate files on the electronic media.

The Monitoring 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. Ground water contour maps;
5. Chain of custody forms;
6. Water levels, water elevation table;
7. Ground Water Monitoring Report Certification, using the appropriate Department form (**Attachment E);**
8. Required sampling information on Form FD 9000-24 (DEP-SOP-001/01) (**Attachment F);**
9. Laboratory and Field EDDs that are compatible with ADaPT software and the ADaPT error log(s).

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

One copy of the Monitoring Report shall be sent to each:

Florida Department of Environmental Protection
Central District Solid Waste Program
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803

And to:

Florida Department of Environmental Protection
Solid Waste Section
2600 Blair Stone Road, MS 4565
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 which can be produced through Excel. The Laboratory EDD file name format shall be: WACS Facility I.D. underscore Begin Sampling Date (yyyymm) underscore swldd.txt. The period at the end would not be included. 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 Date (yyyymm) underscore swfdd.txt. Again, the period at the end is not included. 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 data that is resubmitted, add _#, where # is the number of data submittals (greater than 1). For example, if the data was resubmitted for the first time, and was thus submittal number 2, then the EDD filenames would be as follows: 12345_200811_2_swldd.txt for the Laboratory EDD and 12345_200811_2_swfdd.txt for the Field EDD.

Finally, taking this to an extreme, if confirmation data was resubmitted for say the 10th time, then the EDD filenames would be: 12345_200811_conf_10_swldd.txt for the Laboratory EDD or 12345_200811_conf_10_swfdd.txt for the Field EDD.

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. A sealed signature page may be submitted with the electronic copy of the report provided that the seal is legible (gray the embossed seal and scan). Otherwise, you must separately mail the sealed and signed page.

V. Process Required

Three steps are generally required. First, two copies of the Laboratory EDD, one in comma separated text format and one as a PDF file, must be submitted by the laboratory. A digitally "signed" PDF copy (read-only file) by the laboratory serves to maintain the integrity of the Laboratory EDD. 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 Solid Waste 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 using the Department's Solid Waste Master library and correct all critical errors and explain all non-critical errors prior to submittal. Finally, as a completeness check, the permittee or consultant shall process both the Laboratory EDD and the Field EDD through ADaPT and confirm a successful export to disk prior to submitting the Laboratory EDD, Field EDD and ADaPT error log(s) to the Department.

VI. Resources

In the event help is needed to prepare these EDDs, you can contact the Central District Solid Waste staff, especially Ms. Laxsamee Levin at (407) 893-3311or by e-mail at laxsamee.levin@dep.state.fl.us.

You can also receive assistance by contacting Mr. Clark Moore (850-245-8739 or by e-mail at clark.b.moore@dep.state.fl.us) or Mr. Lee Martin (850-245-8734 or by e-mail at lee.martin@dep.state.fl.us) in FDEP Tallahassee.

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 **J.E.D. Disposal, Class I Landfill**

Address _____

City _____ Zip _____ County _____

Telephone Number ( ) _____ E-mail address _____

(2) WACS_Facility 89544

(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 : J.E.D Solid Waste Management Facility, Class I Landfill WACS # 89544	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:

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. (^{O}C)	COND. (µmhos/cm 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

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 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)

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)