

Jeb Bush
Governor

Clay

Department of Environmental Protection

Northeast District
7825 Baymeadows Way, Suite B200
Jacksonville, Florida 32256-7590

September 8, 2005

RECEIVED

SEP 09 2005

Solid Waste Section

Colleen M. Castille
Secretary

CERTIFIED MAIL

In the Matter of an
Application for Permit by:

DEP Files No. 069333-006-SF
Clay County

Board of County Commissioners
Clay County
3545 Rosemary Hill Road
Green Cove Spring, Florida 32043
_____ /

NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number 069333-006-SF to continue to maintain and monitor the Long Bay Landfill (closed) pursuant to Chapter 403, Florida Statutes, and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-520, 62-522, and 62-701.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 62-103.070, F.A.C. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. 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 MS #35, Tallahassee, Florida 32399-3000, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit 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 the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrants reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and

"More Protection, Less Process"

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

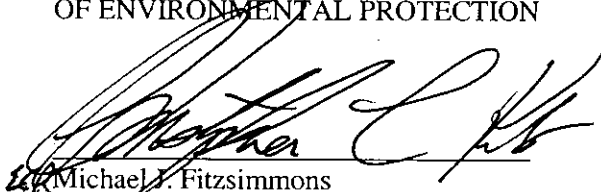
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, MS #35, 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 30 days from the date the Final Order is filed with the Clerk of the Department.

Mediation is not available for this permit renewal.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

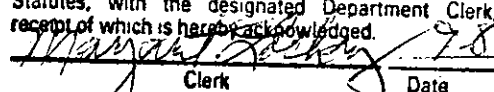


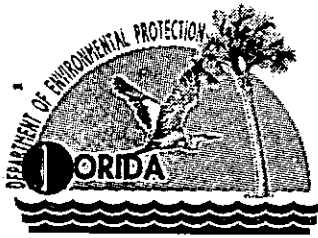
for

Michael J. Fitzsimmons
Waste Program Administrator
Northeast District
7825 Baymeadows Way, Suite B-200
Jacksonville, Florida 32256-7590
(904) 807-3300

Copies furnished to: Alan Altman
Steve J. Laux, P.E.,

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE was mailed before the close of business on September 8, 2005.

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to §120.52 Florida
Statutes, with the designated Department Clerk,
receipt of which is hereby acknowledged.

Clerk Date



Department of Environmental Protection

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Solid Waste Section

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Colleen M. Castille
Secretary

PERMITTEE:

Board of County Commissioners
Clay County
Post Office Box 1366
Green Cove Springs, Florida 32043

I.D. Number: NED/ 10/00030491
Permit/Cert Number: 0069333-006-SF
Date of Issue: September 8, 2005
Expiration Date: June 05, 2015
County: Clay
Lat/Long: 30°05'38"/81°51'44"
Section/Township/Range: 1/5S/24E
Project: Long Bay Landfill, Closed.
Renewal of Permit No. 0069333-001-SF

This permit is issued under the provisions of Chapter 403, Florida Statutes (FS), and Florida Administrative Code (FAC) Chapters 62-4, 62-520, 62-522, and 62-701. The above-named Permittee is hereby authorized to perform the work or maintain the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department of Environmental Protection (Department) and made a part hereof, and specifically described as follows:

To continue to monitor and maintain the Long Bay landfill closure, now and throughout the twenty (20)-year long-term care period, which began on October 8, 1993. The site is a total of 39.5 acres of which 13.5 acres consists of the capped disposal area. The final cover systems consist of, from top to bottom: a 12-inch protective layer with the top 6 inches capable of sustaining vegetation, a 6-inch clay barrier layer, installed and compacted, with a maximum hydraulic conductivity of 5.4 x 10⁻¹⁰ cm/sec. Provisions for monitoring groundwater quality and gas migration are also included. The facility has a passive gas collection system.

The main entrance to the Long Bay Landfill Facility is located at 1589 Long Bay Road, Middleburg, Florida.

This permit is issued in accordance with the closure permit application received on April 4, 2005 and the supplemental information received June 10, 2005 and includes Department File Number 0069333-006.

PERMITTEE:

Board of County Commissioners
Clay County

I.D. Number: NED/ 10/00030491

Permit/Cert Number: 0069333-006-SF

Date of Issue: September 8, 2005

Expiration Date: June 05, 2015

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, 403.727, or 403.859 through 403.861, F.S. 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 403.987(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 personal 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 reasonable necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

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Clay County

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GENERAL CONDITIONS:

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 educe, eliminate, and prevent recurrence of the noncompliance. The Permittee shall be responsible for any and all damages that 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 Section 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. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.
11. This permit is transferable only upon Department approval in accordance with Rule 62-4.120 and 62-730.300 F.A.C., as applicable. The Permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - (X) Certification of compliance with state Water Quality Standards (Section 401, PL 92-500)
 - () Compliance with New Source Performance Standards
14. 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.

PERMITTEE:

Board of County Commissioners
Clay County

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GENERAL CONDITIONS:

- (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.

When requested by the Department, the Permittee shall within a reasonable time furnish any information required by the Department that 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.

SPECIFIC CONDITIONS:

1. The landfill is to be monitored and maintained in accordance with all applicable requirements of Chapters 62-4, 62-25, 62-522, 62-550, 62-701, and 62-730 Florida Administrative Code (F.A.C.), all applicable requirements of Department rules and all the documents submitted in support of Department File Number 0069333-006 as follows, and as modified by this permit.
 - a. **Document 1** - Long Bay Landfill Closure Renewal Application," prepared by Jones Edmunds and Associates, signed and sealed by Steven J. Laux, P.E., on March 22, 2005, received April 4, 2005; and
 - b. **Document 2** - "Long Bay Landfill Closure Permit Renewal Application Response to DEP Request for Additional Information," signed and sealed by Steven J. Laux, P.E., on June 9, 2005, received June 10, 2005; and

The following document as follows, is incorporated by reference in Document 2:

- c. **Document A** - "Quality Assurance Plan for Final Cover Repair for the Long Bay Landfill," prepared by Jones, Edmunds and Associates, Inc., signed and sealed by Steven J. Laux, P.E., dated May 26, 1995 and provided on May 30, 1995.

The following are incorporated from Permit Minor Modification No. 0069333-002

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- d. **Document B** - Long Bay Landfill Convenience Center Expansion Minor Modification Permit Application," prepared by Jones, Edmunds and Associates, Inc., signed and sealed by Steven J. Laux, P.E., dated March 2004 and received March 18, 2004.
- e. **Document C** — "Long Bay Landfill Convenience Center Expansion Minor Modification Permit Application Response to DEP Request for Additional Information," dated May 4, 2004 and Drawing sheets V-1, V-2 and C-1 through C-9, dated May 12, 2004, both prepared by Jones, Edmunds and Associates, Inc., signed and sealed by Steven J. Laux, P.E., and received May 13, 2004.

NOTE: The above listed documents are referenced in this permit by their respective document designation.

2. A copy of the Department approved engineering drawings, plans, reports, operation and contingency plans and all revisions and supporting information, as well as a copy of this permit, shall be kept at the Rosemary Hill Solid Waste Management Facility office located at 3545 Rosemary Hill Road in Clay County, Florida at all times for reference and inspections. The documents shall be made available to the Department at the Department's request including during a routine inspection.

Applicable Permits. Receipt of any permits from the Department does not relieve the applicant from obtaining other federal, state, and local permits required by law including those of the St. Johns River Water Management District (SJRWMD).

4. **Other Regulatory Requirements.** If any other regulatory agency should require revisions or modification to the permitted project, the Department is to be notified of the revisions or modifications so that a determination can be made as to whether or not a permit modification is required.
5. **Permit Renewal.** Pursuant to Rule 62-4.090, F.A.C., by **April 6, 2015**, the Permittee shall apply for a renewal of the permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules.
6. **Transfer of Permit.** The Department must be notified, in writing, using Department Form 62-701.900(8) within 30 days of any sale, conveyance, or other transfer of the facility or within 30 days of any transfer of ownership or control of the real property at which the facility is located. All transfers of ownership or transfers of a permit are subject to the requirements of F.A.C. Chapter 62-4. In addition, permit transfers shall comply with the requirements of Rule 62-701.320(11), F.A.C.
7. **Notification in Case of an Emergency.** The Permittee shall immediately notify the Department by telephone whenever a serious problem occurs at the facility, including a fire or other emergency that poses an unanticipated threat to the public health or the environment. During regular business hours, notification shall be made to the Northeast District Office at (904) 807-3300. If an emergency occurs outside regular business hours, the Permittee shall telephone the 24-hour emergency phone number (800) 320-0519. This number is for emergencies only. Within seven (7) days of any emergency, the Permittee shall submit to the Department, a written report explaining the extent of the problem, the cause, and what actions have been or will be taken to correct the problem, or prevent its recurrence.

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SPECIFIC CONDITIONS:

8. **Provision of Temporary Source of Potable Water.** The Permittee shall provide a temporary source of potable water within seven (7) days and a permanent safe drinking water supply within 180 days of discovery of contamination to replace any potable water well that is shown by chemical and hydrogeologic analysis to be contaminated by the Long Bay Landfill. This water shall meet all drinking water standards set forth in F.A.C. Chapter 62-550 and shall be provided at the Permittee's expense.
9. **Use of Closed Landfill Areas.** Pursuant to Rule 62-701.610(7), F.A.C., the Department retains regulatory control over any activities that may affect the integrity of the environmental protection measures such as the landfill cover, drainage, liners, groundwater monitoring system, gas monitoring and gas control system and stormwater controls. Additionally, the Permittee shall control access to the facility. The Permittee may expand the existing convenience center to be located, in part, on top of the closed landfill, on condition that the Permittee complies with Specific Condition Number 21 of this permit and operates the center in a manner that does not disturb the final cover system. The Permittee shall consult with the Department prior to conducting any other activities on the landfill.
10. **Financial Assurance Mechanism.** 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
Twin Towers Office Building
2600 Blair Stone Road, MS 4565
Tallahassee, Florida 32399-2400

The Permittee shall file with the Department a signed duplicate of the escrow account agreement and an annual audit of the account. The audit shall be conducted by an independent Certified Public Accountant and shall be filed no later than by December 31 of each year unless a Single Audit accounting system is utilized, then the audit shall be submitted by March 31 of the following year.

11. **Monthly and Weekly Inspections.** The Permittee shall conduct, at a minimum, monthly inspections, and inspections after each major storm event of the facility. During the monthly inspections, the Permittee shall inspect, at a minimum, all of the items listed on the checklist form, "Landfill Inspection Checklist," contained in Appendix B, Long-Term Care Plan, of Document 1. The completed and signed Inspection Check Lists, including all the necessary documentation and logs, shall be kept and maintained at the Rosemary Hill Solid Waste Management Facility main office and shall be made available to the Department upon request.
12. **Documenting and Notifications.**
 - a. **Clay Barrier Liner.** If the facility suspects or observes impact to the barrier clay liner, the Permittee shall notify the Department within 72 hours of the observation and shall submit a detailed written report within 7 days. The written report shall describe the extent of the problem and shall include a schedule for completing the necessary corrective actions not to exceed 60 days from the date of discovery of the insufficiency. Other

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SPECIFIC CONDITIONS:

deficiencies that are observed at the facility during an inspection shall be corrected within 14 days from the date of discovery, unless specified otherwise by the Department or in other specific conditions in this permit. All deficiencies and corrective actions performed at the closed landfill shall be documented. The documents shall be maintained at the Rosemary Hill Solid Waste Management Facility main office and shall be made available to the Department upon request.

- b. **Leachate Seep.** If a leachate seep is discovered, the Permittee shall notify the Department of the incident within 24 hours of the discovery of the seep by telephone, and shall provide a written report documenting the incident to the Department within 7 days of the discovery. The written report shall also include for Department review and approval, a remedial plan and a schedule for implementing the plan.

13. **Final Cover System Repairs.** Repair or replacement of the clay liner shall be in accordance with the Quality Assurance Plan (QA plan) for Final Cover Repair for the Long Bay Landfill," contained in **Document A**, ("Quality Assurance Plan for Final Cover Repair for the Long Bay Landfill," prepared by Jones, Edmunds and Associates, Inc., signed and sealed by Steven J. Laux, P.E., dated May 26, 1995 and provided on May 30, 1995.) or other CQA plan approved by the Department for this facility, and with EPA Document 600/R-93/192. Quality assurance shall be provided to the project. A party independent of the contractor shall observe the repairing or replacement of the damaged clay liner and all associate work and testing. A professional engineer registered in the State of Florida shall certify the repair or replacement project as acceptable. All activities related to the repair or replacement of the barrier liner, including field and laboratory test results required by the QA Plan shall be documented in Daily Observation Reports. All reports and test results, including third party quality assurance observation reports, and the professional engineer's certification, shall be compiled and provided to the Department by December 31 of each year and when requested by the Department. Unless the Department requires otherwise, the repair or replacement of the clay barrier liner, including the placement of the protective soil layer, shall be completed based on the completion schedule required in Specific Condition Number 12 of this permit.

14. **Protective Soil Layer Maintenance.** Uncontaminated Earthen materials that exhibit the same soil characteristics as the materials originally permitted for the soil layer (final soil cover and top soil) and that are free of rocks, sticks, rocks, and other sharp objects over 1/2 inch diameter, shall be utilized to maintain and replace the 12-inch protective soil layer. The Permittee shall ensure, whenever repair or replacement of the protective soil layer is required, that this specific condition is met, the appropriate construction methods specified in the QA plan is utilized and the original design specifications, are met. The repair or replacement of the protective soil layer shall be documented in Daily Observation Reports (reports) and shall be compiled and maintained at the landfill office. The reports shall be made available when requested by the Department and during regular inspections.

15. **Vegetative Cover.** The Permittee shall maintain a good grass cover and shall control erosion at the landfill. If, during an inspection, stressed or inadequate vegetation of the final cover system is observed, the Permittee shall reestablish sufficient vegetative cover within 45 days from the date of the inspection. The Permittee shall ensure that the height of the vegetation within the limits of the final cover system does not exceed eighteen (18) inches. A mowing schedule shall be established and implemented based on seasonal growth, to ensure that this specific condition is met at all times. If during a monthly inspection, the grass height is determined to be approximately 18 inches, the Permittee shall mow within 14 days of the inspection. Any vegetation that may penetrate or damage the

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SPECIFIC CONDITIONS:

synthetic liner shall be uprooted. The facility shall maintain the facility so that the slopes are not steeper than 3 horizontal to 1 vertical.

16. **Concrete Monuments.** The facility shall maintain the site in a manner that will enable the concrete monuments and other permanent markers that were installed to outline the general waste-filled areas, to be located.
17. **Gas Monitoring and Management Program.** The Permittee shall reduce gas pressure in the interior of the landfill by collecting the gases to prevent them from moving laterally. Passive venting shall be used to extract gas. Based on gas monitoring results, an active gas collection system may be required.
- a. **Gas Monitoring Probes/wells.** All of the probes/wells shall also be labeled in the field and in a readily visible manner, in accordance with the enumeration reflected on the Site Plan contained in Attachment 1 of Document 2 and Attachment 3 to the permit. The Permittee shall also control vegetative undergrowth to enable easy onsite access to the wells for conducting monitoring and maintenance activities.
- b. **Gas Monitoring Requirement.** The Permittee shall take measures to prevent explosions and fires, and to minimize off-site odors, lateral migration of gases and damage to vegetation. Compliance gas monitoring wells/probes **GP-1 through GP-9**, the compliance gas monitoring points (any onsite structures) as well as compliance monitoring points (any onsite structures) shall be properly monitored on a quarterly basis throughout the duration of this permit unless the Department approves otherwise. Quarterly gas monitoring shall be conducted by January 31, April 30, July 31, and October 31, of each year of this permit. Combustible gas meters shall be calibrated to methane. The Permittee shall record these gas-monitoring results and shall submit a summary report to the Department within 15 days of the monitoring event. The routine gas-monitoring program shall monitor concentrations of combustible gases at ambient monitoring points and in gas monitoring wells/probes. The concentration of combustible gases generated by the landfill shall not exceed 25% of the lower explosive limit (LEL) for combustible gases in structures on- or off-site, excluding gas control or recovery components. Additionally, the LEL for combustible gases shall not be exceeded at a compliance monitoring well/probe location or beyond the landfill property boundary reflected on the boundary survey provided in Attachment 2 of Document 2. The Permittee may be subject to more frequent monitoring based upon the Department's review of these data results. Also, if the Permittee is unable to get a reading from a monitoring well/probe during a normal monitoring event, it shall be monitored and the results submitted to the Department within 30 days of the repair or replacement, which shall be in accordance with this Specific Condition Number
- c. **Gas Remediation.** If, during a monitoring event, the results show that combustible gas concentrations exceed the lower explosive limit at the property boundary, at a compliance gas monitoring well/probe **GP-1 through GP-9** or if 25% of the LEL is exceeded within a structure, the Permittee shall immediately take all necessary steps to ensure protection of human health and notify the Department, by telephone, of the violation within 72 hours of the time that the violation is first discovered. Within seven (7) days of detection, the Permittee shall submit a report addressing the nature and extent of the problem. The report shall also include a proposed remedy for approval. The remedy shall be completed within 60 days of detection unless otherwise approved by the Department.

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- d. **Odor remediation plan.** The facility shall be operated to control objectionable odors in accordance with Rule 62-296.320(2), F.A.C. If gas concentrations cause objectionable odors beyond the landfill property boundary, the Permittee shall implement a routine odor monitoring program to determine the timing and extent of any off-site odors; and if the monitoring program confirms the existence of objectionable odors, submit to the Department for approval an odor remediation plan for the gas releases. The plan shall describe the nature and extent of the problem and the proposed remedy. The remedy shall be initiated within 30 days of approval.
- e. **Gas Monitoring Well and Gas Vents Maintenance.** The integrity of the gas venting and monitoring systems shall be maintained. The wells shall be clearly labeled, locked and provided with protective structures to prevent accidental mowing over or other damages. The gas vents and wells shall be inspected during the monthly inspections. Should a gas vent or gas monitoring well be found damaged or fails to operate for any reason, the Permittee shall immediately notify the Department within 7 days of the inspection. Damaged or non-functional gas vents and gas monitoring wells shall be repaired or replaced within 60 days of the inspection, unless the Permittee is notified otherwise in writing by the Department. Should replacement of gas vents and gas monitoring wells be required, installation, including liner penetration (for gas vents), shall be in accordance with the QA plan, the original design plans and as modified by this permit. The gas monitoring wells shall extend to the depth of the base of the landfill or at least three feet below ground surface, whichever is deeper. Bar hole probes are not acceptable. The Permittee shall provide a gas monitoring well construction completion report as required below. The installation of the gas vents and gas wells shall be found acceptable by a professional engineer registered in the State of Florida, who shall certify that the installation requirements of this specific condition has been met. The engineer's certification shall be submitted to the Department within 30 days of completion of installation. Finally, if the Permittee is unable to get a reading from a monitoring well/probe during a normal monitoring event due to a damaged well, it shall be monitored and the results submitted to the Department within 30 days of the repair or replacement.
- f. **Construction and Well Completion Report for Replacement of Damaged Wells.** For damaged wells that are reconstructed, the Permittee shall provide a gas monitoring well construction completion report that includes the following information as a minimum:
- (a) Layout drawing showing the well and protective structure location along with corresponding identifier.
 - (b) Elevation at top of solid PVC pipe.
 - (c) Elevation at land surface at the well location.
 - (d) Length of solid PVC pipe.
 - (e) Length of slotted screen and bottom elevation.
 - (f) Top elevation of the groundwater table at each location if encountered.
 - (g) Detail of well constructed.
18. In accordance with FAC Rules 62-522.600 and 62-701.050, the Permittee shall maintain and operate a Groundwater Monitoring System.
- a. The Groundwater Monitoring System shall be shall be designed, constructed and maintained in accordance with FAC Chapters 62-520, 62-522 and 62-701 and with the Groundwater Monitoring Plan, with additional responses, submitted to the Department, as modified by the conditions specified in this permit.

PERMITTEE:

Board of County Commissioners
Clay County

I.D. Number: NED/ 10/00030491
Permit/Cert Number: 0069333-006-SF
Date of Issue: September 8, 2005
Expiration Date: June 05, 2015

SPECIFIC CONDITIONS:

- b. Pursuant to FAC Rule 62-522.410, the zone of discharge shall be limited horizontally to 100 feet from the solid waste disposal unit; or to the property boundary; or to the shortest distance between the location of the monitoring wells and the solid waste disposal unit; whichever is less. The zone of discharge shall be limited vertically to the base of the surficial aquifer. The monitoring compliance wells shall be used to determine compliance with state groundwater standards and criteria. This zone of discharge shall remain in effect unless it becomes necessary to seek a change in accordance with FAC Rule 62-522.410.
- c. The Permittee shall ensure that the water quality standards for Class G-II groundwaters will not be exceeded at the boundary of the zone of discharge pursuant to FAC Rule 62-520.420.
- d. The Permittee shall ensure that the minimum criteria for groundwater specified in FAC Rule 62-520.400 shall not be violated within the zone of discharge.
- e. The Permittee shall maintain the existing groundwater monitoring wells as specified in the groundwater-monitoring plan. Upon completion of construction of any new groundwater monitoring wells, the following information shall be submitted for any new groundwater monitoring well(s) within fifteen (15) days:

Well identification	Driller's Lithologic Log
Latitude/Longitude	Total well depth
Aquifer monitored	Casing diameter
Screen type and slot size	Casing type and length
Elevation at top of pipe	SJRWMD well construction
Elevation at land surface	permit number

A surveyed drawing shall also be submitted within fifteen (15) days of the completion of well construction, showing the location of all new and existing monitoring wells which will be horizontally located by metes and bounds or equivalent surveying techniques. The surveyed drawing shall include the monitor well identification number as well as location and elevation of all permanent benchmark(s) and/or corner monument marker(s) at the site. The survey shall be conducted by a Florida Registered Surveyor.

- f. Approximate monitoring well locations and designations shall be in accordance with Attachment 3. All wells are to be clearly labeled and easily visible at all times. Groundwater monitoring wells shall be designed and constructed in accordance with FAC Chapter 62-522 and ASTM Standard D-5092. Shallow monitoring wells shall be constructed such that a minimum of two (2) feet screened interval extends above the water table during all portions of the year and a minimum of five (5) feet of screened interval extends into the water table during all portions of the year.

Background Wells:

- Well No. MW-1
- Well No. MW-5
- Well No. MW-8

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SPECIFIC CONDITIONS:

Compliance Wells:

Well No. MW-2
Well No. MW-3
Well No. MW-4
Well No. MW-6
Well No. MW-7

- g. In the event any monitoring well becomes damaged or inoperable, the Permittee shall notify the Department within seventy-two (72) hours and a detailed written report shall follow within seven (7) days. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent a recurrence. Damaged wells shall be repaired or replaced within thirty (30) days. If a monitoring well is unable to be sampled during its normal time frame, it shall be resampled and its analysis shall be submitted to the Department within thirty (30) days of repair or replacement. All monitoring well locations, design and replacement shall be approved by the Department prior to installation.
- h. Sampling and monitoring data shall be collected, analyzed, reported and retained in accordance with FAC Chapter 62-160 and FAC Rule 62-522.600. Any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health (DOH) under Chapter 64E-1, FAC, where such certification is required by Rule 62-160.300, FAC. The laboratory must be certified for all specific method/analyte combinations that are used to comply with this permit. Biological evaluations shall follow the applicable procedures in DEP-SOP-002/01 (January 2002).

All field activities including on-site tests and sample collection, whether performed by a laboratory or another organization, must follow all applicable procedures described in DEP-SOP-001/01 (January 2002). Alternate field procedures and laboratory methods may be used if they have been approved according to the requirements of Rules 62-160.220 and 62-160.330, FAC.

Minimum detection limits for arsenic analysis shall be at or below 10 ug/l.

- i. Semi-annual groundwater samples shall be collected from all wells by November 4 and May 4 of each year of the permit. A report of the laboratory data shall be submitted to the Department for each event no later than December 4 and June 4, respectively. Groundwater samples collected semi-annually will be analyzed for the parameters listed in Attachment 2. However, additional samples, monitoring wells, and/or parameters may be required based on data analysis. Minimum detection levels for all analyzes shall be at or below groundwater standards and/or criteria.
- j. All groundwater sampling results shall be reported on the attached Parameter Monitoring Report Form [DEP Form 17-522.900(2)] (Attachment 4). The original forms shall be retained so that the necessary information is available to properly complete future reports. The analytical laboratory reports must be submitted along with the DEP Parameter Monitoring Report Forms. The results shall be sent to the Solid Waste Supervisor, Department of Environmental Protection, Northeast District, 7825 Baymeadows Way, Suite 200-B, Jacksonville, Florida, 32256-7590.

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SPECIFIC CONDITIONS:

In addition to the information provided on the Parameter Monitoring Form, the following shall be generated:

1. The laboratory report shall indicate method on each data sheet, the detection limits and the dilution factor.
2. The report shall show, in columnar form, the analytical results and, where applicable, the corresponding Florida Groundwater Standards and/or criteria.
3. The peaks greater than the EPA specified detection limit for the analytical method shall be identified.

The Permittee shall submit to the Department a minimum of two complete reports and, upon request by the Department, four additional reports.

- k. Compliance with groundwater standards and/or criteria shall be determined by analysis of unfiltered groundwater samples, unless the requirements of FAC Rule 62-520.300(6) and the January 1994 technical document for filtered samples are satisfied.
- l. If, at any time, groundwater standards and/or criteria are exceeded, the Permittee shall notify the Department within seventy-two (72) hours of discovery and resample the monitor well(s) within fourteen (14) days of the date of receipt of the laboratory analysis. The Permittee shall submit to the Department the results of the resampled groundwater monitoring well water quality analysis and the original analysis no later than the fifteenth (15) day of the following month. Should the Permittee choose not to resample, the Department will consider the water quality analysis, which exceeded the standards and/or criteria as representative of current groundwater conditions at the facility.
- m. For any new wells or replacement wells, groundwater levels shall be recorded no less than forty-eight (48) hours after well installation and prior to evacuating the well for sample collection.

Measurements, referenced to N.G.V.D., shall include groundwater surface elevation, the top of well casing, and land surface at each site at a precision of plus or minus 0.01 feet. A groundwater surface contour map shall be constructed by a qualified groundwater professional from measurements collected from each well. The measurement data and the groundwater surface map shall be submitted to the Department following each sampling event. In the event that the data indicates a variation in the horizontal or vertical flow directions such that existing wells are not adequate to intercept potential contaminants generated from the facility, the Permittee shall propose additional wells to correct that deficiency or the Department shall require wells to be installed to correct that deficiency.

- n. The Permittee shall monitor the data obtained from the groundwater monitoring system and the site-specific conditions. A biennial report shall be submitted to the Department by the Permittee analyzing the appropriateness of the groundwater monitoring well locations to intercept any potential contaminant plume which may generate from the landfill; including the semi-annual groundwater surface maps, an analysis of seasonal variation in groundwater levels, flow directions and quality, and a graphic plot of analytical laboratory data over time for the semi-annual sampling parameters. The Permittee shall have this report prepared and sealed by a qualified groundwater professional and submit this information by June 4, 2007, 2009, 2011, 2013 and 2015.

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SPECIFIC CONDITIONS:

- o. Prior to **November 4, 2009** and **November 4, 2014**, the Permittee shall sample all wells for the parameters in Attachment 1. These results shall be submitted to the Department no later than **December 4, 2009** and **December 4, 2014**, respectively. Tentative identification of all constituents that register greater than 10 ppb is required. Minimum detection levels for all analyzes shall be at or below groundwater standards and/or criteria. This sampling event shall be in lieu of the routine sampling for the semi-annual event.
- p. FAC Rule 62-522.600(3)(k) requires that the groundwater-monitoring program must inventory and map surface waters within a one-mile radius of the landfill. Should surface conditions change, the Permittee shall, upon request, provide a current revised inventory and map to the Department within ninety (90) days.
- q. FAC Rule 62-522.600(3)(g) requires an inventory of all wells within a one- (1) mile radius of the landfill. The inventory must include the owners' names and addresses, well locations, well specifications (well depth, construction, diameter, screened interval, capacity, etc.) and utilization. Should the inventory change, the Permittee shall, upon request, provide a current revised inventory and map to the Department within ninety (90) days.
- r. Based on any information or data obtained after the effective date of this permit, the Department reserves the right to modify the conditions set forth herein pursuant to the latest state Rules and regulations (before or after the effective date of this permit); and may modify the permit conditions to address additional groundwater assessment, additional monitoring wells and/or analytical parameters and compliance monitoring.

19. Stormwater Management System.

- A. The stormwater management system shall be inspected after each heavy rain, but a minimum, once per quarter. Each inspection shall be documented and kept on file at the landfill office. Each inspection report shall contain, as a minimum; date, name of inspector, as found condition of major system features, and nature and extent of maintenance performed. On a regular basis, including during the said inspections, the following operational maintenance activities shall be performed on all permitted systems:
 - a. Removal of trash and debris if any.
 - b. Inspection of inlets and outlets.
 - c. Removal of sediments when the storage volume or conveyance capacity of the system is below design level or when the system is rendered ineffective on account of clogging/sedimentation of the pond bottom.
 - d. Any breach of the system's integrity shall be immediately repaired. Whenever erosion is detected, measures shall be taken to stabilize and protect the affected area.
 - e. Mowing and removal of grass clippings.
 - f. Aeration, tilling or replacement of topsoil as needed to restore percolation capability of the system.

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SPECIFIC CONDITIONS:

- B. The Permittee is required to provide for periodic inspections of the stormwater management system. The Permittee shall submit reports to the Department certifying that the stormwater management system is operating as designed. The reports shall be submitted to the Department as follows:
- a. Inspection reports for retention, underdrain, wet detention (with/without littoral shelf), swales and pumped systems shall be submitted by December 31 of each year of this permit. A registered Florida Professional Engineer must sign and seal the report certifying the system is functioning as designed.
 - b. The reports shall be submitted to the Department's Stormwater Engineer at 7825 Baymeadows Way, Suite B-200, Jacksonville, Florida 32256-7590.
- C. If the stormwater management system is not functioning as designed and permitted, operational maintenance must be performed immediately to restore the system. If operational maintenance measures are insufficient to enable the system to meet the design standards, the Permittee must either replace the system or construct an alternative design. In such a case, the Permittee must submit a permit modification application within sixty (60) days of the date the system was determined to be design deficient to the appropriate permitting agency.
- D. **Best Management Practices.** The Permittee is responsible for the selection, implementation, and operation of all erosion and sediment controls on-site and to prevent violations of water quality standards in Chapters 62-4, FAC. The Permittee is encouraged to use the appropriate Best Management Practices described in the Florida Land Development Manual; A guide to Sound Land and Water Management (DER 1988)
20. **Permit Acceptance.** By acceptance of this permit, the Permittee certifies that he/she has read and understands the obligations imposed by the Specific Conditions and General Conditions contained in this permit including the permit expiration date and renewal deadline. It is a violation of this permit to fail to comply with any conditions and deadlines.
21. **Preparations and Construction Concerning the Convenience Center.**

The Permittee shall construct the convenience center in accordance with Documents B and C, the Construction Quality Control Assurance and Specification Plan (CQAP) provided in Exhibit B of Document 4, and as modified by this permit. Prior to accepting waste at the convenience center, which will be constructed on a portion of the closed landfill, the Permittee shall conduct the following activities and provide the following requested items and supporting documentation:

- a. **Wetland Impact Areas.** All wetland impact areas reflected on Drawing Sheet No.C-2, Document C shall be managed in accordance with the applicable permit required by the Department's ERP section or other applicable agency. Additionally, the Permittee shall conduct the work as proposed in Response number 3 Document C and in accordance with the associated ERP permit. The Record Drawings shall reflect the impacted areas.

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b. **Construction Quality Assurance.** The Permittee shall construct the proposed convenience center facility and prepare the subbase and grade the facility as proposed in Document B and as modified by Document C, and with the drawings provided in Document C, and as amended by this permit modification. Any and all soil used as fill material shall be uncontaminated. The Permittee shall provide quality assurance to the reconstructing and repairing of the final cover system that is impacted by the proposed project, including the areas where the gas vents will be constructed. In providing quality assurance to the project, the facility shall follow the procedures and implement the measures proposed in the CQAP provided in Document 4 as Exhibit B. The Permittee shall also test all impacted and reworked areas in accordance with the said CQAP document.

c. **Associated Stormwater Management System.** The associated stormwater management system is to be constructed and/or improved in accordance with the associated Environmental Resource Permit (ERP), with Drawing sheet C-4 provided with Document C, and with this specific condition No. 21. The bottom elevation of the treatment basin and any other associated stormwater components shall not be excavated down into the seasonal high ground water table or below an elevation of 35 feet, as reflected on Drawing sheet number C-4 of Document C. All elevations shall be surveyed in accordance with the "benchmark" noted in the following specific condition 21j. The system, including any associated stormwater management system components, shall be constructed to completion prior to placing the expanded convenience center into operation. Once construction/improvements to the stormwater management system is complete, the Permittee shall have the system certified by a Florida registered professional engineer and shall obtain the Department's stormwater section's written approval of the certification prior to waste acceptance at the subject facility. The stormwater management system and associated components shall be reflected on the Record Drawings required by specific condition No. 22.

If the design of the surface water system is modified from the design reflected in Document C, the Permittee shall notify the Department in writing for a permit modification determination. Any modifications to the stormwater management system are to be approved in writing by the Department prior to their implementation.

d. **Non-authorized.** This permit does not authorize any dewatering at the site, including during the construction project. In constructing the proposed project, including the associated stormwater management system and its components, the Permittee shall not conduct any excavations below the seasonal high groundwater table

e. **Access Road.** The Permittee shall construct and maintain the proposed entrance and site roads reflected on Drawing Sheets C-3 and C-4 of Document C, prior to accepting waste in the expanded convenience center. The perimeter road shall be a stabilized road that will slope toward the adjacent stormwater management system, as reflected on Drawing Sheet C-4 provided with Document C.

f. **Access Control Construction.** The Permittee shall control access to the facility. The Permittee shall construct new access control structures, where required, including the gate in accordance with the detail provided on Drawing Sheet C-7 and at the location reflected on Drawing Sheet C-3 Document C. For the existing control structures that are to remain in place, the facility shall ensure they are in good condition. The access control structures, both new and existing, shall be reflected on the Record Drawings to be included with the certification of construction completion report.

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- g. **Inspections.** The engineer of record or another qualified professional working under the supervision of the engineer of record, shall make periodic inspections during construction of the facility to ensure design integrity is maintained [FAC Rule 62-701.320(6)].
 - h. **Material Removal.** Any material removed during the preparations and construction project, i.e., asphalt and lime rock pavement, clearing and grubbing waste, etc., shall be placed into the roll-off container for temporary storage until removal to a facility authorized/permitted to accept the waste.
 - i. **Gas Vents.** The two gas vents proposed to be abandoned on Drawing Sheet C-2, shall be abandoned in accordance with the detail reflected on Drawing Sheet C-6 of Document C. In place of the abandoned gas vents, two other gas vents shall be constructed and maintained at the location reflected on Drawing Sheet C-4 and shall be constructed in accordance with the detail reflected on Drawing Sheet C-6, both of Document C. The gas vents shall be constructed prior to abandoning the other vents and prior to paving the parking area. Any material used as backfill shall be uncontaminated. Quality assurance shall be provided to the gas vent construction and abandonment project and work shall be conducted in accordance with the CQAP provided in Document B, Exhibit B. Gas vent construction completion logs, including the elevation to which the borings are drilled, shall be provided with the certification of construction completion report.
 - j. **Benchmark Elevations.** All elevations shall be in reference to the benchmark noted in Note 3 of Drawing Sheet C-1 and which is indicated in Response 1 of Document C to be the landfill's historical benchmark and which all historical surveys, seasonal high groundwater table survey, are indicated to be in reference to.
22. **Certification of Construction Completion of the Convenience Center.** In accordance with FAC Rule 62-701.320, once the construction of the expanded convenience center is completed and prior to accepting waste at the expanded convenience center, the Permittee shall have the professional engineer of record certify on DEP Form 62-701.900(2) that the construction is complete and was done in accordance with the plans, this permit, and that any impacts to the final cover system were conducted in accordance with the CQAP and permit, including the Drawing Sheets provided with Document C. The certification shall include, at a minimum, a completed copy of Form 62-701.900(2), Record Drawings that show the items required in specific condition number 21, at a minimum, and documentation that the items requested in specific condition No. 21. have been provided. No waste shall be disposed of in the expanded convenience center, until the Permittee has received written Department approval to accept waste at the area and use the facility as a final use.

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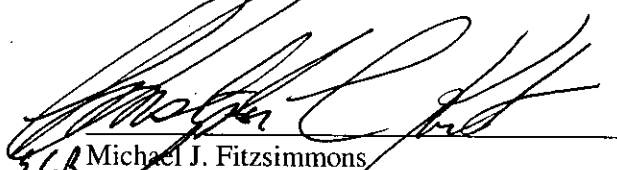
I.D. Number: NED/ 10/00030491
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SPECIFIC CONDITIONS:

23. **Access control.** The Permittee shall control access to the facility. When the facility is not manned, the gate shall be kept locked. The access control structures shall be maintained. The facility shall maintain the site roads and ensure vehicles are not driven on the unpaved portions of the disposal area other than the appropriate maintenance vehicles.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



For

ELR

Michael J. Fitzsimmons
Waste Program Administrator

INITIAL GROUNDWATER SAMPLING PARAMETERS

FIELD PARAMETERS

Static water levels (prior to purging)
Specific conductivity
pH
Dissolved Oxygen (DO)
Turbidity
Colors and Sheens

LABORATORY PARAMETERS

Ammonium (NH₄)
Bicarbonate
Chlorides
Iron
Mercury
Nitrate
Sodium
Total Dissolved Solids (TDS)
Total Organic Carbon (TOC)

Priority Pollutants (see next pages)

ATTACHMENT 1 (CONTINUED)

1. acenaphthene
2. acrolein
3. acrylonitrile
4. benzene
5. benzidine
6. carbon tetrachloride
(tetrachloromethane)

Chlorinated Benzenes (other than dichlorobenzenes)

7. chlorobenzene
8. 1,2,4-trichlorobenzene
9. hexachlorobenzene

Chlorinated Ethanes (incl. 1,2-dichloroethane, 1,1,1-trichloroethane and hexachloroethane)

10. 1,2,-dichloroethane
11. 1,1,1-trichloroethane
12. hexachloroethane
13. 1,1-dichloroethane
14. 1,1,2-trichloroethane
15. 1,1,2,2-tetrachloroethane
16. chloroethane

Chloroalkyl Ethers
(chloromethyl, chloroethyl & mixed ethers)

17. bis(2-chloroethyl) ether
18. 2-chloroethyl vinyl ether
(mixed)

Chlorinated Naphthalene

19. 2-chloronaphthalene
20. 2,4,6-trichlorophenol
21. parachlorometa cresol
22. chloroform (trichloromethane)
23. 2-chlorophenol

Dichlorobenzenes

24. 1,2-dichlorobenzene
25. 1,3-dichlorobenzene
26. 1,4-dichlorobenzene

Dichlorobenzidine

27. 3,3'-dichlorobenzidine
28. 1,1-dichloroethylene
29. 1,2-trans-dichloroethylene
30. 2,4-dichlorophenol

31. 1,2-dichloropropane
32. 1,3-dichloropropylene
33. 2,4-dimethylphenol
34. 2,4-dinitrotoluene
35. 2,6-dinitrotoluene
36. 1,2-diphenylhydrazine
37. ethylbenzene
38. fluoranthene

Haloethers (other than those listed elsewhere)

39. 4-chlorophenyl phenyl ether
40. 4-bromophenyl phenylether
41. bis(2-chloroisopropyl)ether
42. bis(2-chloroethoxy) methane

Halomethanes (other than those listed elsewhere)

43. methylene chloride
(dichloromethane)
44. methyl chloride (chloromethane)
45. methyl bromide
46. bromoform (tribromomethane)
47. dichlorobromomethane
48. trichlorofluoromethane
49. chlorodibromomethane
50. hexachlorobutadiene
51. hexachlorocyclopentadiene
52. isophorone
53. naphthalene
54. nitrobenzene

Nitrophenols (including 2,4-dinitrophenol & dinitrocresol)

55. 2-nitrophenol
56. 4-nitrophenol
57. 2,4-dinitrophenol
58. 4,6-dinitro-o-cresol

Nitrosamines

59. N-nitrosodimethylamine
60. N-nitrosodiphenylamine
61. N-nitrosodin-n-propylamine
62. pentachlorophenol
63. phenol

Phthalate Esters

64. bis(2-ethylhexyl)phthalate
65. butyl benzyl phthalate
66. di-n-butyl phthalate
67. di-n-octyl phthalate
68. diethyl phthalate
69. dimethyl phthalate

ATTACHMENT 1 (CONTINUED)

Polynuclear Aromatic Hydrocarbons

- 70. benzo(a)anthracene (1,2 benzanthracene)
- 71. benzo(a)pyrene (3,4-benzopyrene)
- 72. 3,4-benzofluoranthene
- 73. benzo(k)fluoranthene (11, 12 benzofluoranthene)
- 74. chrysene
- 75. acenaphthylene
- 76. anthracene
- 77. benzo(ghi)perylene (1,12-benzoperylene)
- 78. fluorene
- 79. phenanthrene
- 80. dibenzo(a,h)anthracene (1,2,5,6 dibenzanthracene)
- 81. indeno (1,2,3-cd)pyrene (2,3-o-phenylenepyrene)
- 82. pyrene
- 83. tetrachloroethylene
- 84. toluene
- 85. trichloroethylene
- 86. vinylchloride (chloroethylene)

Pesticides & Metabolites

- 87. aldrin
- 88. dieldrin
- 89. chlordane (tech. mixture & metabolites)

DDT & Metabolites

- 90. 4,4'-DDT
- 91. 4,4'-DDE (p,p' DDX)
- 92. 4,4'-DDD (p,p'-TDE)

Endosulfan & Metabolites

- 93. a-endosulfan-Alph
- 94. b-endosulfan-Beta
- 95. endosulfan sulfate

Endrin & Metabolites

- 96. endrin
- 97. endrin aldehyde

Heptachlor & Metabolites

- 98. heptachlor
- 99. heptachlor epoxide

Hexachlorocyclohexane
(all isomers)

- 100. a-BHC-Alpha
- 101. b-BHC-Beta
- 102. 4-BHC-(lindane)-Gamma
- 103. g-BHC-Delta

Polychlorinated Biphenyls (PCBs)

- 104. PCB-1242 (Arochlor 1242)
- 105. PCB-1254 (Arochlor 1254)
- 106. PCB-1221 (Arochlor 1221)
- 107. PCB-1232 (Arochlor 1232)
- 108. PCB-1248 (Arochlor 1248)
- 109. PCB-1260 (Arochlor 1260)
- 110. PCB-1016 (Arochlor 1016)
- 111. Toxaphene
- 112. Antimony (Total)
- 113. Arsenic (Total)
- 114. Asbestos (Fibrous)
- 115. Beryllium (Total)
- 116. Cadmium (Total)
- 117. Chromium (Total)
- 118. Copper (Total)
- 119. Cyanide (Total)
- 120. Lead (Total)
- 121. Mercury (Total)
- 122. Nickel (Total)
- 123. Selenium (Total)
- 124. Silver (Total)
- 125. Thallium (Total)
- 126. Zinc (Total)

ATTACHMENT 2

GROUNDWATER SAMPLING PARAMETERS

FIELD PARAMETERS
PARAMETERS

Static water levels
(prior to purging)
Specific conductivity
pH
Dissolved Oxygen (DO)
Turbidity
Colors and Sheens
Temperature

ORGANIC LABORATORY
PARAMETERS

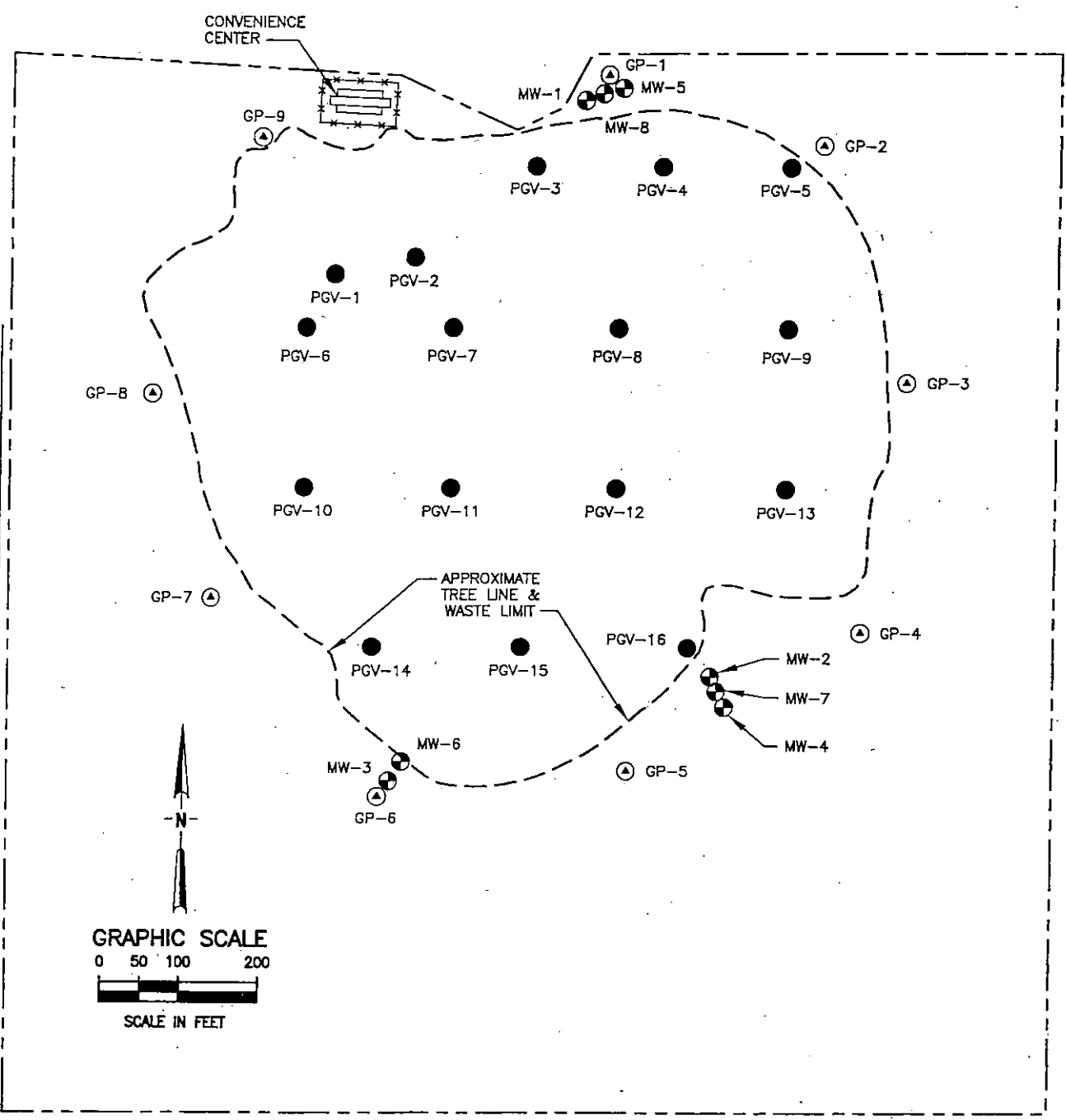
EPA 601/602 Analytes

INORGANIC LABORATORY
PARAMETERS

Ammonium (NH₄)
Arsenic
Bicarbonate
Cadmium
Chlorides
Chromium
Iron
Lead
Mercury
Nitrate
Sodium
Total Dissolved Solids (TDS)
Total Organic Carbon (TOC)
Selenium

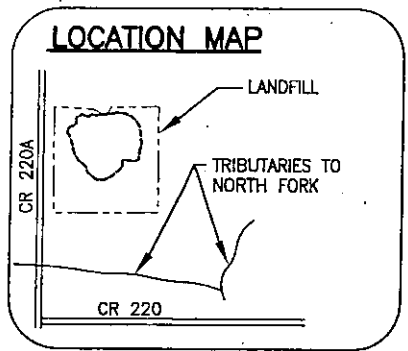
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 Plotted: 5/16/05 11:33am Balthasar
 740-009-01-17

LONG BAY ROAD (COUNTY ROAD 220A)



LEGEND

- SITE BOUNDARY
- ⊕ MW-3 MONITOR WELL
- PGV-1 PASSIVE GAS VENT
- ⊙ GP-1 GAS PROBE LOCATION



**ATTACHMENT 3 MONITOR LOCATION MAP
LONG BAY LANDFILL**

DEP Form # 62-522.900(2)
Form Title <u>Ground Water Monitoring Report</u>
Effective Date _____
DEP Application No. _____

Florida Department of Environmental Protection
 Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

GROUND WATER MONITORING REPORT
 Rule 62-522.600(11)

PART I GENERAL INFORMATION

- (1) Facility Name _____
 Address _____
 City _____ Zip _____
 Telephone Number () _____
- (2) The GMS Identification Number _____
- (3) DEP Permit Number _____
- (4) Authorized Representative Name _____
 Address _____
 City _____ Zip _____
 Telephone Number () _____
- (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 submitting false information, including the possibility of fine and imprisonment.

Date: _____

 Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP # _____
 Analytical Lab Comp QAP # /HRS Certification # _____
 *Comp QAP # /HRS Certification # _____
 Lab Name _____
 Address _____
 Phone Number () _____

