



Florida Department of Environmental Protection

Northeast District
7825 Baymeadows Way, Suite 200B
Jacksonville, Florida 32256

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

May 11, 2012

Electronically sent via thawkins@wm.com

In the matter of a
Permit Modification for:

DEP File No. 0013493-021
Duval County - Solid Waste

Trail Ridge Landfill, Inc.
5110 U.S. Highway 301
Baldwin, Florida 32234

NOTICE OF PERMIT MODIFICATION

Enclosed is Florida Department of Environmental Protection (DEP or Department) Permit Number 0013493-017-SO that now includes Minor Modification Number 0013493-021, which allows the Trail Ridge Landfill to accept yard trash for disposal. The modified permit is issued pursuant to Chapter 403, Florida Statutes (F.S.) and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-25, 62-520, 62-550, 62-701, and 62-711, but does not substitute for other permits that may be required by other local, state or federal agencies, by other Sections within DEP, or by the Water Management Districts.

This Notice of Modification does not alter the expiration date, the General Conditions, or most of the Specific Conditions, but does modify Specific Condition 19.

This letter and the attached Permit replace the original permit.

This modification is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the below paragraphs, 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., or unless all parties reach a written agreement as an alternate remedy under Section 120.573, F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, MS

#35, Tallahassee, Florida 32399, within 14 days of receipt of this Permit. The 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, F.S.

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, DEP Permit File Number(s) and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of DEP's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by DEP'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 DEP's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of DEP's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants DEP to take with respect to DEP's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, DEP'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 DEP 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 DEP. 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, F.S., 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,

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MS #35, Tallahassee, Florida 32399; 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 modification.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



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

ecr/lp

Enclosure

Copies furnished to:

Greg Mathes – Trail Ridge landfill, Inc. gmathes@wm.com
Juanitta Bader Clem, P.E. - England, Thims, and Miller, Inc. clemj@etminc.com
Jeff Foster, P.E. - City of Jacksonville jfoster@coj.net
Brian Durden, FDEP, Brian.Durden@dep.state.fl.us

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this PERMIT MODIFICATION was mailed before the close of business on May 11, 2012.

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


Clerk Date 5-11-2012



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PERMITTEE:

Trail Ridge Landfill, Inc.
5110 U.S. Highway 301
Baldwin, Florida 32234

WACS I. D. Number: 33628

Permit Number: 0013493-017-SO

Date of Issue: September 16, 2009

Modification Dates: April 6, 2011; April, 10, 2012; and
May 11, 2012

Expiration Date: September 16, 2014

Lat/Long: 30°13'27"/82°02'40"

Section/Town/Range: 18, 19, 20, 21/3S/23E

Project: Trail Ridge Landfill - Class I and
Waste Tire Processing Facility Operations

Renewal of Permit 0013493-010-SC

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.) and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-25, 62-520, 62-550, 62-701, and 62-711. The above-named Permittee is hereby authorized to perform the work and maintain the Facility shown on the application and approved drawing(s) plans, and other documents attached hereto or on file with the Florida Department of Environmental Protection (DEP or Department) and made a part hereof, and specifically described as follows:

To continue to operate, maintain, and monitor the Trail Ridge Landfill (Facility), with a total disposal area of approximately 144 acres. The Class I Landfill (Landfill) was constructed in 16 phases (IA, IB, IC, IIA, IIB, IIC, IIIA, IIIB, IVA, IVB, IIIC, IVC, VA, VB, VC, and VD) and each phase is authorized to accept waste.

Each phase of the Landfill has a double liner system consisting of, from top to bottom: a 24-inch protective soil layer with a minimum hydraulic conductivity of 1×10^{-3} cm/sec; a 16-oz. geotextile fabric; a 20-mil drainage layer (geonet); a 60-mil high density polyethylene (HDPE) primary liner; a geosynthetic clay liner (GCL/bentonite mat); a six-oz. geotextile fabric; a 20-mil geonet; a 60-mil HDPE secondary liner; and a six-inch compacted subgrade with a maximum saturated hydraulic conductivity of 1×10^{-5} cm/sec. However, in Phases IA, IB, IC, IIA, IIB, and IIC, the GCL is located below the secondary liner as opposed to below the primary liner. The 60-mil HDPE primary and secondary liners are required to have a maximum water vapor transmission rate of $0.24 \text{ g/m}^2 \times \text{day}$.

The Landfill will be operated and closed in phases.

This permit also authorizes the Permittee to continue to operate an active gas collection system and to continue operating a waste tire processing facility, as well as to stay connected to the adjacent Landfill Gas-to-Energy Facility.

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The Facility design includes wetland mitigation, a stormwater water management system, and groundwater, surface water, and methane gas monitoring systems. The stormwater management system was permitted and constructed under Solid Waste/MSSW Permits Numbers: SC16-184444, SC16-184445, MS16-184447, and subsequent modification MS16-296691.

The main entrance to the Trail Ridge Landfill is located at 5110 U.S. Highway 301, in western Duval County, Florida.

This permit includes DEP File Numbers 0013493-017 and 0126289-002, and is issued in accordance with the solid waste permit renewal application received on October 15, 2008, and with supplemental information received October 22, November 12, 2008, January 20, May 7, May 26, July 21, 2009, and which are further specified below:

Document 1 - Permit Documents for Trail Ridge Landfill – Third Renewal, Permit Application and Drawing Sheets 1 through 23, and 9A, prepared by England-Thims and Miller, Inc., signed and sealed by Juanitta Bader Clem, P.E., dated and received October 15, 2008;

Document 2 - Trail Ridge Landfill – Permit Renewal, Revised Drawing Sheet 4, prepared by England-Thims and Miller, Inc., signed and sealed by Juanitta Bader Clem, P.E., dated and received October 22, 2008;

Document 3 - Trail Ridge Landfill – Permit Renewal, Leachate collection system jet cleaning and video inspection report, prepared by England-Thims and Miller, Inc., signed by Scott Jordan Lockwood, P.E., dated November 10, 2008, and received November 12, 2008;

Document 4 - Permit Documents for Trail Ridge Landfill – Third Renewal, Response to DEP Request for Additional Information and revised Drawing Sheets 1 through 23, and 9A, prepared by England-Thims and Miller, Inc., signed and sealed by Juanitta Bader Clem, P.E., dated and received January 20, 2009;

Document 5 - Permit Documents for Trail Ridge Landfill – Third Renewal, Second Response to DEP Request for Additional Information, prepared by England-Thims and Miller, Inc., signed and sealed by Juanitta Bader Clem, P.E., dated May 6, 2009 and received May 7, 2009;

Document 6 - Trail Ridge Landfill – Signature Page for the Financial Assurance Cost Estimate Form, prepared by England-Thims and Miller, Inc., signed and sealed by Juanitta Bader Clem, P.E., dated and received May 26, 2009; and

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Document 7 - Additional information related to a clarification of acreage of the total disposal area, prepared by England-Thims and Miller, Inc., submitted by Juanitta Bader Clem, P.E., dated and received July 21, 2009.

The following document is incorporated by reference:

Document 8 - List of previously provided documents from July 1990 to September 2008, referenced on the application form, submitted in Document 5, prepared by England-Thims and Miller, Inc., signed and sealed by Juanitta Bader Clem, P.E., dated May 6, 2009 and received May 7, 2009.

The following documents are in support of Minor Modification No. 0013493-018, which modifies this Permit in accordance with the permit modification application submitted on February 18, 2010, and supplemented on May 4, July 26 and November 3, 2010, and January 18, 2011, and which are further specified below:

Document 9 - Trail Ridge Landfill, DEP Permit Number 0013493-017-SO. A minor modification application, prepared by England-Thims and Miller, Inc., signed and sealed by Juanitta Bader Clem, P.E., dated and received February 18, 2010;

Document 10 - Permit Modification for Trail Ridge Landfill, First RAI Response, prepared by England-Thims and Miller, Inc., signed and sealed by Juanitta Bader Clem, P.E., dated and received May 4, 2010;

Document 11 - Trail Ridge Landfill, WACS I.D. Number: NED/16/00033628, Minor Modification Application of the Class I Landfill Permit\FDEP File Number 0013493-018 (i.e., Response to Second RAI), prepared by England-Thims and Miller, Inc., signed and sealed by Juanitta Bader Clem, P.E., dated and received July 26, 2010;

Document 12 - Permit Modification for Trail Ridge Landfill, Third RAI Response, prepared by England-Thims and Miller, Inc., signed and sealed by Juanitta Bader Clem, P.E., dated and received November 3, 2010; and

Document 13 - Trail Ridge Landfill, WACS I.D. Number: NED/16/00033628, Minor Modification Application of the Class I Landfill Permit, FDEP File Number 0013493-018, Fourth Request for Additional Information (i.e., Response to Fourth RAI), prepared by England-Thims and Miller, Inc., signed and sealed by Juanitta Bader Clem, P.E., dated January 14 and received January 18, 2011.
The following documents are in support of Minor Modification No. 0013493-020, which modifies this Permit in accordance with the permit modification application submitted on February 29, 2012, and which are further specified below:

PERMITTEE:
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Document 14 - Trail Ridge Landfill – Minor Modification, DEP Permit Number 0013493-017-SO, prepared by England - Thims and Miller, Inc., signed and sealed by Juanitta Bader Clem, P.E., dated February 28 and received February 29, 2012.

The following document is in support of Minor Modification No. 0013493-021, which modifies this Permit in accordance with the permit modification application submitted on May 2, 2012, and which is further specified below:

Document 15 - Trail Ridge Landfill – Minor Modification, DEP Permit Number 0013493-017-SO, prepared by England - Thims and Miller, Inc., signed and sealed by Juanitta Bader Clem, P.E., dated and received May 2, 2012.

NOTE: The above-listed documents are referenced in this permit by document numbers.

1. **Permit Requirements.** The Trail Ridge Landfill (Facility) shall be operated, maintained, and monitored in accordance with this permit and all applicable requirements of F.A.C. Chapters 62-4, 62-25, 62-520, 62-550, 62-701, and 62-711, and with the application, plans, specifications, and supporting information submitted in support of DEP File Numbers 0013493-017, 0126289-002, and 0013493-018.
2. **Document Updates and Storage.** The Permittee shall update the Operations Plan to match its requirements with this Permit's Specific Conditions. Two copies of the Plan (one with tracked changes) shall be submitted for approval to DEP's District office within 30 days of Permit issuance.

A copy of the DEP-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 Facility office at all times for reference and inspections.

3. **Applicable Permits.** Receipt of any permits from DEP does not relieve the Permittee from obtaining other federal, state, and local permits required by law, including those of the St. Johns River Water Management District or from other Sections within DEP.
4. **Other Regulatory Requirements.** If any other regulatory agency or DEP division should require revisions or modifications to the permitted project, the Permittee shall notify the Solid Waste Section of DEP's Northeast District (District) of the revisions and/or modifications so a determination can be made as to whether or not a permit modification is required.

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5. **Permit Renewal.** Pursuant to Rule 62-4.090, F.A.C., no later than July 18, 2014, the Permittee shall apply for a renewal of the Permit on forms and in a manner prescribed by DEP, in order to assure conformance with all applicable DEP Rules.
6. **Transfer of Permit.** DEP must be notified, in writing, using DEP Form Number 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, or within 30 days of a name change. 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. **Emergency Notification.** The Permittee shall immediately notify DEP by telephone whenever a serious problem occurs at the Facility, including a fire or another emergency that poses an unanticipated threat to the public health or the environment. During regular business hours, notification shall be made to the District at 904.256.1700. If an emergency occurs outside regular business hours, the Permittee shall telephone the 24-hour emergency phone number 800.320.0519. This latter number is to be used for emergencies only. Within seven days of emergencies, the Permittee shall submit a written report to DEP explaining the extent of the problem, its cause, and what actions have been or will be taken to correct it, and prevent its recurrence.
8. **Provisions of Potable Water Source.** The Permittee shall provide a temporary source of potable water within seven days and a permanent safe drinking water supply within 180 days of discovery of contamination to replace any and all potable water wells that are shown by chemical and hydrogeologic analysis to be contaminated by the Facility. 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. **Financial Assurance and Cost Estimates.**
 - a. **Financial Assurance.** The Owner and/or Operator of the Facility 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:

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

- b. **Annual Cost Estimates Adjustment.** The Owner and/or Operator of the Facility shall annually adjust the closure and long-term cost estimates for inflation using DEP Form 62-701.900(28). Adjustments shall be made in accordance with Rule 62-701.630(4) F.A.C. and 40 CFR Parts 264.142(a) and 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 between January 1 and March 1. An owner or operator using an escrow account shall submit the adjusted estimate between July 1 and September 1. Closure costs shall include an annual estimate of the remaining life and capacity in cubic yards of the existing constructed landfills, and the remaining capacity and site life of other permitted areas not yet constructed. The annual estimate shall be based upon a summary of the heights, lengths, and widths of the solid waste disposal units.

All submittals in response to this Specific Condition shall be sent to:

Florida Department of Environmental Protection
Solid Waste Section Supervisor
7825 Baymeadows Way, Suite 200 B
Jacksonville, Florida 32256-7590

with a copy to:

Florida Department of Environmental Protection
Financial Coordinator - Solid Waste Section
Twin Towers Office Building
2600 Blair Stone Road, MS 4565
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10. **Access Control.** A fence and gates shall be maintained to control access to the site to prevent unauthorized dumping. All gates shall be locked during non-operating hours, and unauthorized scavenging or salvaging shall be prohibited.

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11. **Hours of Operation.** The normal operating hours for the Facility shall be from 6:00 A.M. to 7:00 P.M., Monday through Friday, and from 5:00 A.M. to 2:00 P.M. on Saturdays. Depending on the waste receipt rate, these normal operating hours may be extended from 5:00 A.M. to 10:00 P.M. The hours of operation shall be posted on the Facility's front gate. During emergency situations (e.g., after a hurricane) the Facility may operate beyond these specified hours; however, DEP shall be notified, at the first available opportunity.

If Landfill operations commence before daylight or extends beyond non-daylight hours, the Permittee shall provide adequate illumination at the site (especially at the working face and unloading areas) to ensure proper waste screening. All working/dumping areas and equipment operation areas shall be illuminated with a minimum intensity of three foot-candles. The Facility's lighting equipment shall be kept and maintained at the site. The Permittee shall be responsible for ensuring that adequate staff to cover all shifts and equipment is available at the Facility to maintain proper Landfill operations.

12. **Operating Personnel.** At least one trained operator who will be responsible for the operation, supervision, and maintenance of the Facility shall be present at the Landfill during all times when the Landfill receives waste. Trained operators are those who satisfy the "operator" definition provided in F.A.C. Rule 62-701.200 and the training requirements of F.A.C. Rule 62-701.320(15) for both initial and continued training. Also, at least one trained spotter shall be present at the working face at all times the Landfill is receiving waste. If the waste receipt rate at the Facility exceeds 1,300 tons per day, the Permittee shall provide a minimum total of two compactors at the working face(s); if the waste receipt rate exceeds 2,600 tons per day at the Facility, a minimum of three compactors shall be provided at the working face(s). During peak hours and/or when the waste receipt rate is more than what the spotter(s) at the working face can adequately inspect, the Landfill operator shall be responsible for providing additional personnel listed in the Required Personnel Matrix, contained in Attachment H of Document 12, and included herein as Attachment 1. For example, if the Facility is accepting waste in the range between 3,000 and 3,500 tons in a day, there shall be, during the peak times of 6:00 a.m. to 7:00 a.m., a minimum of two trained spotters, two laborers, and three equipment operators, for a minimum total of seven people. When a second spotter is required, the first spotter shall be located on the ground and the second spotter shall be provided on the working face in one of the following ways: the additional spotter shall be on the ground, or the additional spotter shall be an equipment operator/spotter on a machine equipped with a grapple attachment (for removal of unacceptable waste), or the additional equipment operator(s)/spotter(s) (in numbers consistent with the appropriate Required Personnel Matrix scenario) shall be provided on machines without grapple attachments. The laborers shall spot waste and remove prohibited waste under the direction of a trained spotter stationed at the working face.

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13. **Working Faces.** The Facility may have up to two working faces at the same time on the condition that a tipper is being operated at one of the two working faces. At least one trained spotter shall be present at each respective working face and shall observe the waste stream for prohibited waste as it is being deposited and spread. The spotters shall satisfy the definition provided in F.A.C. Rule 62-701.320(15) and shall satisfy the training requirements for both initial and continued training. The working face(s) shall be sized to minimize the exposed area and the unnecessary use of cover material, and shall only be wide enough to accommodate vehicles discharging waste, and heavy equipment spreading and compacting waste. It shall be roughly rectangular or triangular in shape, shall not exceed 60,000 square feet in size, and shall have no outside linear dimension greater than 500 feet (e.g., it may be 500'x 120', 400'x 150', 300'x 200', 200'x 300', etc). A working face of up to 90,000 square feet is authorized without prior DEP notification following a major storm event such as tornado, hurricane or other event that generates a large amount of debris. However, if a larger working face is required, DEP shall be notified as soon as possible. DEP shall also be notified when the Facility is placing waste on side slopes and/or filling and grading areas in preparation for intermediate or final cover placements and a larger working face is required. In this case, the notification shall include a map of the proposed area and a schedule for completion.
14. **Alternative Working Area.** During wet weather or following the discovery of hazardous waste, when access to the regular working face is limited, the Landfill may accept waste in the Alternative Working Area. Although the location of the Alternative Working Area is based on accessibility during wet weather, it shall be located within the lined footprint disposal area that meets all the requirements of the main working face. The Permittee shall grade the area and implement measures to both prevent leachate from ponding within the waste area and to prevent it from running off and potentially mixing with and entering into the surface water management system. Additionally, measures shall be implemented to prevent runoff from the surrounding areas onto the Alternative Working Area. The Permittee shall apply either initial cover or a tarp, allowed by Specific Condition 33 of this Permit, to the Alternative Working Area at the end of the workday. At least one trained equipment operator/spotter shall be present at the respective working face and shall observe the waste stream for prohibited waste as it is being accepted and/or spread.
15. **Landfill Equipment.** The equipment operator shall first spread the waste as it is unloaded by the hauler and inspected by the spotter(s), and shall then compact the waste. The compactor shall make at least three to five passes over the waste. For those areas where additional solid waste will be deposited within 18 hours, a temporary cover, such as tarpaulin, may be placed on the working face at the end of the workday and removed prior to disposition of additional waste. To ensure proper spreading, compaction, waste coverage, and other operational

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procedures at the Landfill, the Permittee shall have sufficient equipment on site that, at a minimum, consists of: three compactors, two dozers, an excavator, a loader, a grader, a water wagon, three trucks, a service truck, and a tractor. Additionally, a tipper may also be provided and utilized for tractor trailers disposing at the Landfill. The Permittee shall ensure that sufficient reserve equipment is available on site or that arrangements to obtain additional equipment within 24 hours of equipment breakdown have been made.

16. **Personnel Training.** The Permittee shall ensure that the Facility's landfill operators, spotters, and equipment operators are properly trained to operate the Landfill and to identify and properly manage any hazardous or prohibited materials which may be inadvertently received at the Facility. Interim spotters may be employed, but only if they work under the direct supervision of a trained spotter or trained operator. An interim operator may be employed in lieu of a trained operator, but for no more than three consecutive months. An interim spotter must become a trained spotter or trained operator within three months of employment as an interim spotter. An interim operator must become a trained operator within one year of employment as an interim operator. The meanings of "interim spotter" and "interim operator" are provided in the Rule 62-701.320(15)(h) and (f), F.A.C. Landfill operators and spotters shall be trained in accordance with the Rule 62-701.320(15)(b) and (c), F.A.C. The training courses shall be DEP-approved courses applicable to the job position. Spotters shall initially complete 8 hours of training. New employees shall complete the first training course available to them from the date of their employment. Within three years after attending the initial training, and every three years thereafter, spotters shall complete an additional 4 hours of continued training. Operators shall complete 24 hours of initial training and shall pass an examination as part of that training. Within three years after passing the examination, and every three years thereafter, the operators shall complete an additional 16 hours of continued training. Training Certification shall be kept on site and shall be made available to DEP at the Department's request including during a routine site inspection.
17. **Maximum Daily Tonnage.** The Permittee shall not accept more than 5,000 tons of solid waste at the Facility on any working day. However, greater amounts may be accepted if authorized by DEP and/or during emergency situations, in which case, special accommodations are to be made to handle the additional volume of solid waste.
18. **Waste Inspection at the Working Face.** Spotters shall be stationed where they can inspect each shipment for unauthorized waste. If equipment operators serve as spotters, they shall be trained as an operator or spotter. An equipment operator/spotter shall inspect all loads for unauthorized wastes while waste is being accepted, spread, and before compaction. Solid waste shall not be compacted unless it has been visually inspected. When unauthorized waste

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is discovered, the heavy equipment operator must either move the unauthorized waste away from the active area for later removal and proper management, or must stop operation and notify another person on the ground or on other equipment who will come to the active area and remove the unauthorized waste before operations are resumed. Unauthorized waste shall be properly handled in accordance with the Operation Plan contained in Document 12. The Permittee shall ensure that additional spotters are provided during peak hours and other periods when the waste receipt rate is more than what the spotter(s) at the working face can adequately inspect.

19. **Special Wastes and Liquid Restrictions.** Special waste, including, but not limited to white goods, lead acid batteries, used oil, and whole tires, shall not be disposed of at the Landfill, and liquids shall not be disposed of in a manner that would violate the liquid restrictions of Rule 62-701.300(10) F.A.C. Special waste, inadvertently accepted, shall be removed from the waste stream and temporarily stored in an orderly manner in respectively specified areas near the working face until removal. At a minimum, special waste shall be removed from the Landfill at the end of the day. The waste tires shall be transported to the Waste Tire Storage and Processing Area, and the other special wastes shall be transported to the adjacent existing concrete storage area.
- a. **White Goods.** Any white goods discovered at the working face shall be removed from the waste stream. They may be placed near the working area within the lined area until removal (by the end of the work day) to the roll-off container designated for white good storage only. At a minimum, they shall be removed from the site on a quarterly basis and more frequently as needed. White goods, which could contain chlorofluorocarbons (CFCs), shall be stored and managed in a manner such that CFCs are not discharged to the environment.
 - b. **Batteries.** At no time shall any battery be stored directly on the ground. Batteries shall be placed on pallets a maximum of three layers high and, preferably, covered to prevent spills of acid and lead. Facility personnel shall prevent rainwater from collecting in the storage area to the point where the water is in contact with the batteries. To that end, Facility personnel shall check the water level in the storage area at least once each week and after all heavy rain events. In the event that more water is collecting than evaporating, the facility shall pump out the liquid and manage and treat it as leachate. At a minimum, batteries shall be removed from the site on a quarterly basis and more frequently as needed.

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- c. **Used Oil and Used Oil Filters.** The Facility shall store used oil and used oil filters in appropriate containers (e.g., in DOT-approved drums or tanks). Each container shall be labeled with the words "Used Oil" or "Used Oil Filters", respectively. All containers must be maintained in good condition. The storage containers should be protected from weather and shall be stored on a surface that is impermeable to oil. Any leak or spill shall be stopped, contained, managed and the container repaired or replaced.
20. **Handling and Removal of Hazardous Waste.** Loads containing hazardous waste shall be rejected and returned directly to the hauler at the gate. The Permittee shall ensure that all hazardous waste separated from the solid waste stream is returned to the generator, owner or hauler, or disposed of in accordance with all applicable federal, state, and local rules and regulations. Facility personnel should handle all hazardous waste, as defined in 261.3(a)(1) of Title 40 Code of Federal Regulations (40 CFR), that is discovered at the facility in accordance the requirements set forth in 40 CFR 261. Additionally, if hazardous waste is inadvertently accepted at the Facility, the Permittee shall follow the procedures outlined in the Section VII.I.2 "Handling hazardous wastes" of Operation Plan of Document 12 and shall follow all local, state, and/or federal regulations in handling the waste. The area where the wastes were deposited shall immediately be cordoned off from public access. If the generator or hauler cannot be identified, the Permittee shall assure the cleanup, transportation, and disposal of the waste to a permitted hazardous waste management facility. Additionally, the Permittee shall delineate in the field the extent of contamination by the hazardous waste materials. The Permittee shall record the incident in logs and shall include the identification of the facility to where the materials were removed. Said records shall be made available to DEP upon request. Within seven days of the incident, the Permittee shall provide a written report to DEP addressing the incident, including information regarding how the waste was and is being managed, and an assessment of the extent of contamination.
21. **Asbestos Disposal.** Asbestos disposal shall be in accordance with F.A.C. Rule 62-701.520(3) and all applicable rules and regulations. Regulated asbestos waste shall only be disposed of in a designated asbestos disposal area while an authorized, qualified Landfill employee supervises the activity. Signs shall be posted identifying the designated asbestos disposal area. Each disposal location shall be recorded in accordance with 40 CFR Part 61.151 & 61.154 and records shall be maintained at the Facility. Asbestos waste shall immediately be covered with either one foot of clean soil or three feet of solid waste (that does not contain asbestos) overlain by a minimum of six inches of daily cover. The required records shall be made immediately available upon request, including during inspections.

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22. **Contaminated Soil Handling.** Prior to the Facility's receipt of contaminated soils, the Permittee shall ensure the soils are not hazardous waste as defined by the Federal Resource Conversation and Recovery Act (RCRA) rules. If the waste source and analytical test results indicate it is not hazardous waste, the contaminated soil may be disposed of in the Class I Landfill. If the soil is not hazardous, but analytical test results for either total contaminant concentrations or the Synthetic Leaching Procedure (SPLP) demonstrate that it has the potential to leach constituents in excess of DEP groundwater standards or criteria (leachable soil), then it may be used as initial or intermediate cover in the Class I Landfill, but only in those areas where the runoff and infiltration is captured by the leachate collection system (i.e., on internal slopes), and only if it meets the definition of such cover given in Rule 62-701.200, F.A.C. If the soil is not hazardous, and analytical test results demonstrate that it does not have the potential to leach constituents in excess of DEP groundwater standards or criteria (unleachable soil), it may be used as initial or intermediate cover anywhere on the Class I or Class III Landfills, but only if it meets the above-referenced definitions of initial and intermediate cover.
- a. If contaminated soil is received on site, it shall either be disposed of immediately, or shall be stored as follows for future use as cover material:
- 1) It shall be stored where it will not interfere with the Landfill's routine operations;
 - 2) It shall be stored so that the minimum distance from the stockpile(s) toe of slope to the edge of the Landfill slope is 20 feet or no less than the maximum height of the pile, whichever is greater;
 - 3) Signs shall be installed around the stockpile clearly indicating that the material is contaminated soil and may only be disposed of in the Class I Landfill, or used as landfill cover material;
 - 4) If the soil is "leachable:"
 - (a) It shall only be stored over lined areas of the Class I Landfill;
 - (b) The area around the stockpile shall either be bermed, or it shall be contoured with silt fencing installed around the entire base of the stockpile except for the entrance, and both configurations shall be such that any and all runoff is from the stockpile is prevented from entering the surface water management system; and

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- (c) Additional signs shall be placed (or additional information on the existing signs) identifying the leachable soil and indicating that it may only be used as cover material on interior slopes of the Class I Landfill.
- b. The Permittee shall record, in logs, the following minimum information regarding the contaminated soil:
 - 1) The source of the contaminated soil;
 - 2) The analytical test results verifying that it is non-hazardous and whether or not it is "leachable;"
 - 3) The date and quantity of contaminated soil that was accepted; and
 - 4) The location, amount, and use (or disposal) of the contaminated soil (i.e., the location of its use within the Class I and/or Class III Landfill, whether it was used for initial or intermediate cover, or whether it was disposed).

The logs shall be kept on site and be made immediately available to DEP, including during routine inspections.

- 23. **Slag Handling.** This permit authorizes the use of slag (particularly slag from Ameristeel) for access road stabilization, but only within the liner limits and only if the slag is not hazardous waste. The Permittee shall record in logs the source from where slag is accepted and the location where slag from a specific source is used. Prior to utilizing slag either from other sources or outside the liner limits, the Permittee shall request in writing for a permit determination.
- 24. **Ash Contaminated Soil Handling.** This permit authorizes the Facility to accept the City of Jacksonville ash contaminated soil. Prior to receipt of this ash contaminated soil at the Landfill, the Permittee shall, at a minimum, require analytical test results from a Florida-certified laboratory, including TCLP for eight RCRA metals. A five point composite sample is required for every 1,000 cubic yards of soil prior to delivery to the Facility. If the analytical results indicate that the material is not hazardous waste, and if the constituents of concern do not exceed the commercial/industrial exposure levels of F.A.C. Chapter 62-777, then the ash contaminated soil may be disposed of at the Landfill or utilized as initial or intermediate cover on interior side slopes. If the soil has any visible organics or other material that may attract

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birds or vermin, has an odor, or is saturated, it shall not be utilized as cover material. Also, if allowed for use on site as cover material, ash contaminated soils shall be stored in the same manner as indicated in the Specific Condition 22 (Contaminated Soil Handling).

25. **Ash Residue.** Ash residue shall not be used as initial cover and shall not be stockpiled on the site. Prior to receipt of ash residue at the Facility, the Permittee shall require analytical test results from the generator. If the material is deemed acceptable for disposal, the ash residue shall be placed at the working face and covered with additional waste or initial cover.
26. **Random Load Check.** Pursuant to F.A.C. Rule 62-701.500(6), the Permittee shall implement a load-checking program to detect and discourage attempts to dispose of unauthorized wastes at the Landfill. The load-checking program shall, at a minimum, consist of the following requirements:
 - a. The Landfill operator shall examine at least three random loads of solid waste delivered to the Landfill each week. The waste collection vehicle drivers selected by the inspector shall be directed to discharge their loads at a designated location within the Landfill. A detailed inspection of the discharged material shall be made for any unauthorized wastes.
 - b. If any unauthorized wastes are found, the Permittee shall contact the generator, hauler, or other party responsible for shipping the waste to the Landfill to determine the identity of the waste. Any hazardous or prohibited waste that is discovered shall be properly handled in accordance with the Facility Operations Plan and all applicable regulations.
 - c. Information and observations resulting from each random inspection shall be recorded in writing and retained at the Trail Ridge Landfill office for at least three years. The recorded information shall, include at a minimum, the following:
 - 1) The date and time of the inspection;
 - 2) The names of the hauling firm and driver of the vehicle;
 - 3) The vehicle license plate number;
 - 4) The source of the waste, as stated by the driver; and
 - 5) Observations made by the inspector during the detailed inspection, including any prohibited waste and its source, if known.

The written record shall be signed by the inspector and shall be made available to DEP upon request, including during routine inspections.

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27. **Inspections and Repairs.** The Permittee shall inspect the Facility and repair insufficiencies in accordance with the following:
- a. **Weekly Inspections.** The Permittee shall inspect the Facility on a weekly basis and after all major storm events (e.g., those with one or more inches of rainfall). Particularly, the Permittee shall inspect the access control structures, the cover system, the perimeter stormwater ditches, the erosion control devices, the stability of the perimeter and access roads, the leachate collection system, the gas collection system, the wet detention pond, the storm water drainage structures and pipes, and the groundwater monitoring wells. The areas with intermediate cover shall be inspected for settlement, ponding, leachate seeps, and vegetative cover integrity and thickness. Also, the Permittee shall prevent the seepage of leachate out the sides of the Landfill. If seepage is detected, it shall be repaired within 24 hours. The Permittee shall, at a minimum, utilize the Sample Inspection Checklist, contained in Appendix J of Document 5, and included herein as Attachment 2 for routine inspections. The result of the inspections shall be kept at the Facility's office, and shall be available to DEP upon request, including during routine inspections.
 - b. **Daily Inspections.** The Landfill operator or his designee shall inspect the Facility for dust, odor, and litter each day the Facility is open for operation.
 - 1) **Litter Control.** The Permittee shall implement a litter policing operation to keep litter from leaving the working area of the Landfill. Litter control devices shall be installed, as necessary, to prevent litter from leaving the disposal areas. Any and all litter discovered outside the working face shall be collected and appropriately disposed of within 24 hours of discovery in accordance with F.A.C. Rule 62- 701.500(7)(i).
 - 2) **Road Maintenance.** All-weather access roads to the site and disposal areas shall be constructed and maintained. All monitoring devices shall be accessible for monitoring activities.
 - 3) **Dust Control.** Dust control methods (e.g., water sprays) shall be employed as necessary. Either potable water or water from an on site uncontaminated source may be used in the effort. The water truck shall not be used for any other material (i.e., leachate).

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- 4) **Odor Control.** The Permittee shall prevent odors from migrating offsite and shall implement odor control strategies. If offsite odors are detected, a monitoring program shall be implemented and, if the odors are confirmed, a revised odor control plan shall be submitted to DEP.
- c. **Repairs.** Any and all eroded and/or depressed areas of the cover system shall be corrected within seven days of the discovery. If the erosion cannot be corrected within seven days of the occurrence, the Permittee shall notify DEP and propose a correction schedule. Maintenance or repairs of other insufficiencies shall also be conducted within seven days of the discovery of the insufficiency or as otherwise approved by DEP in this permit or by letter. As an exception, repairs of gas monitoring wells shall be completed within 60 days of discovery of damage, or prior to the next monitoring event, whichever occurs first. Furthermore, the Permittee shall perform the following at the stormwater management system: repair any and all breaches of the stormwater system's integrity, remove all trash and debris, and remove sediments from drainage structures and wet detention pond, at a minimum, on an annual basis and more frequently when the conveyance capacity of the system is below design level.
- d. **Record Logs.** The Permittee shall record in logs the insufficiency and the date of repair as well as a description of the repair. The Permittee shall attach a copy of the repair log to the completed inspection report during which the insufficiency was discovered.
28. **Waste Quantity Reports.** The Permittee shall record the amount, in tons, of waste received at the facility each day and shall also estimate and record the amount of the following types of waste received each day: municipal solid waste, Class III waste, ash residue, and other waste. The waste reports shall be compiled monthly and shall be provided to DEP annually by January 15 of each year of this Permit. Weight tickets shall be kept at the Facility for a minimum of five years.
29. **Fill Phasing Plan.** The Facility shall be operated and closed in phases. The sequence of fill operations at the Trail Ridge Landfill shall be in accordance with the "Fill Phasing Plan," reflected on Drawing Sheets 11, 12, and 13 (Fill Phase 8 through Fill Phase 16) of Document 14. Waste filling operations in each phase shall generally proceed from east to west and from south to north. Currently, Fill Phase 9 is being filled to elevation 270 feet National Geodetic Vertical Datum (NGVD). The southern half of the Landfill shall then be filled to elevation 330 feet NGVD (Fill Phases 10 and 11), which leaves access to the top from the southwest corner and northern slopes. The next phases (Fill Phases 12 thru 14) include filling the southern top and the northwest corner to final grade, but leaving the northern access roadway. Finally, the

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northern slope and northern top shall be filled in the final phases (Fill Phases 15 and 16). The Permittee shall place waste and conduct operations in a manner that prevents the ponding of stormwater in waste, the mixing of leachate with stormwater, and the running off of leachate into the stormwater system.

30. **Design Elevations, Annual Survey, and Slopes.** The maximum design elevation for the Landfill shall be elevation 350.6 feet NGVD. This maximum specified elevation shall include the final cover system. An annual estimate (including its methodology) of the heights and slopes of the waste disposal areas shall be conducted and submitted to DEP between July 1 and October 1 of each year of this permit until it is within ten feet of the maximum design elevation. This information is to be submitted to DEP within 30 days of conducting the estimate and shall include the existing elevations, as well as all points designed for terraces and the location of the toes of the side slopes in reference to the National Geodetic Vertical Datum. During operations, interior and external side slopes of waste material shall not exceed a slope of three-feet horizontal run to one-foot vertical rise. This includes the side slopes of each phase, including those slopes that will have additional waste placed against them in a subsequent phase.
31. **Contingency Operations.** In case of emergency conditions when special waste-handling procedures are required, the Permittee shall act in accordance with Section VII.B (Contingency Operations) of the Operation Plan, provided in Document 12. Prior to the imminent threat of a natural disaster (i.e., hurricane or tornado), and flooding, the following procedures (at a minimum) shall be implemented:
- a. Initial soil cover shall be applied and compacted to all exposed solid waste;
 - b. All Landfill equipment shall be fueled and parked near natural wind screens, earthen mounds or tree areas;
 - c. All lightweight signs and equipment shall be secured; and
 - d. The Facility shall temporarily shut down and cease accepting waste until such time that the emergency is over.
32. **Fire Safety and Hot Loads.** The Permittee shall immediately extinguish or control a fire, (both surface and subsurface) that occurs at the Facility. The area where a fire occurs, including a subsurface fire, shall be cordoned off.

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- a. In the event a hot load is received or a fire occurs at the Facility, the Permittee shall follow the procedures addressed in Section VII.B. (Contingency Operation) found in Document 12 to control and extinguish the fire. If a hot load is received, it shall be immediately segregated from the rest of the wastes, removed to an area of the Landfill that is isolated from the current active face, spread out, and smothered with soil. The hot loads shall be only discharge onto an area that has a minimum of 12 inches of cover. After the hot load is extinguished and cooled, the waste shall be moved to the active face for disposal or left in place with intermediate cover placed over it.
- b. If the fire cannot be extinguished or controlled within an hour, the Permittee shall immediately:
 - 1) Implement the Contingency Plan, which is included as part of the Operation Plan, provided in Document 12;
 - 2) The Facility shall immediately cease disposal operations in the working face area until the fire is extinguished;
 - 3) The Landfill operator or his designee shall direct all waste disposal operations to another operational area (i.e., an area with no intermediate or final cover) within the liner footprint and that is a safe distance from the fire. The temporary disposal area shall not be located in an area that may interfere or delay movement of firefighting equipment;
 - 4) For a subsurface fire that occurs outside the working face, the Landfill operator or his designee shall cordon off the area and shall assess whether the active working face should be moved until the fire is extinguished. At no time shall the Facility continue to accept waste in a hot/burning area; and
 - 5) Notify DEP and the local government of the fire and of the fire control plan being implemented by the Facility.

If the fire cannot be extinguished or controlled within 48 hours, the Permittee shall notify the local fire protection agency and seek its assistance, and shall also notify the local government and any neighbors likely to be affected by the fire.

33. **Cover Requirements.** In order to minimize the adverse environmental, health, and safety effects, cover shall be applied and maintained, and the following shall be implemented:

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- a. **Initial Cover.** Initial cover shall be applied at the end of each workday over the entire working face. Initial cover, consisting of suitable soil or other materials approved by DEP as alternative covers, such as a soil/mulch mixture, shredded tires, contaminated soil, or ash contaminated soil, shall be placed at a minimum depth of six inches after placement. For those areas where waste will be deposited within 18 hours, geotextile materials (e.g., Fabrene Type TG Product G168 and Nicholon Baycor Style 27600 tarpaulins) that meet the conditions of initial cover such as minimizing vector breeding, animal attraction and fire potential; preventing blowing litter, controlling odors and improving the landfill's appearance) may be placed as a temporary cover at the end of work day and removed prior to deposition of additional waste. However, these temporary covers shall not be used if they have obvious signs of deterioration. For portions of the working face not completely covered by the tarpaulin, six inches of initial cover shall be applied at the end of the working day. During periods when a tarpaulin has been utilized at the working face from Monday through Saturday, the six inches of initial soil cover requirement shall be applied before the close of business on Saturday.

A soil/mulch mixture that consists of no more than 50% mulch by volume may be used as initial cover on condition the mulch is no greater than three inches in any dimension, is essentially free of plastic, and is covered with mulch-free intermediate cover prior to construction of the final cover system.

Shredded waste tires that are shredded in accordance with F.A.C. Rule 62-711.400(3)(a) (i.e., 70 percent of the waste tire material is cut into pieces of four square inches or less and 100 percent of the waste tire material is 32 square inches or less) may be used at the working face on condition the material is restricted to the interior slopes. Shredded material may be stored on interior slopes of the Landfill in the vicinity of the working face prior to use. However, this permit does not authorize the storage or use of the material outside the lined footprint or on exterior sideslopes.

The Permittee may also use contaminated soils (including ash contaminated soils) as initial cover per Specific Conditions 22 and 24.

- b. **Intermediate Cover.** Intermediate cover, in addition to the six-inch initial cover, shall be applied and maintained within seven days of cell completion if additional solid waste will not be disposed of within 180 days of cell completion. The intermediate cover may consist of either a 12-inch compacted layer of soil or a 16-inch thick layer of a soil/mulch mixture that consists of no more than 50% mulch by volume. The

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mulch/soil mixture shall be a homogeneous mixture; the mulch shall be ground into sufficiently small pieces (approx. one inch or less) and shall be essentially free of plastics. The soil/mulch mixture shall be removed on exterior slopes and replaced with intermediate cover consisting of a minimum of 12 inches of uncontaminated soil with no mulch prior to construction of the final cover system. The intermediate cover shall be appropriately maintained to prevent erosion and waste exposure.

- c. **Vegetative Cover.** The Permittee shall establish and maintain a permanent good vegetative cover for those portions of the Landfill that have received intermediate and/or final cover. The Permittee shall, at a minimum, observe the cover for stressed vegetation during the weekly facility inspection. If stressed vegetation is observed, the vegetation shall be re-established within 45 days of the date of the discovery. The Permittee shall conduct a mowing schedule of the vegetative cover that ensures the vegetation does not obstruct the operation of the monitoring and control devices, and does not exceed a height of 18 inches.

- 34. **Landfill Final Closure Requirements.** The Permittee shall submit an application to DEP for final closure of the Landfill, or closure of a solid waste disposal unit, at least 90 days before the date when wastes will no longer be accepted. The application shall be on Form 62-701.900(1) and shall update the conceptual closure design submitted as part of the application for this Permit to reflect actual site conditions at the time of final or partial closure. The closure plan submitted as part of the closure permit application shall include a closure design plan, a closure operation plan, a plan for long-term care, and a demonstration that proof of financial responsibility for long-term care has been provided. However, in lieu of submitting a closure application, the Permittee may request a modification of this Permit.

35. **Closure Phasing Plan and Final Cover Application.**

- a. **Closure Phasing Plan.** The Permittee shall close the Landfill in phases as areas are filled in accordance with the "Closure Phasing Plan," reflected on Drawing Sheets 14 and 15 of Document 14. Within 180 days of attaining the design elevations of approximately 210 feet NGVD for Closure Phase 3, 270 feet NGVD for Closure Phase 4, 330 feet NGVD on the southern half for Closure Phases 5 and 6, 345 feet NGVD on the southern top for Closure Phase 7, 330 feet NGVD on the northern half for Closure Phases 8 and 9, and 345 feet NGVD on the northern top for Closure Phases 10 and 11, the Permittee shall apply the final cover and complete the closure of the respective areas. The closure shall, at a minimum, include grading the closure areas, installing the final cover system over

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them, including establishing vegetation, and providing the indicated terraces, downcomer pipes and gas wells. The Permittee shall record when the said design elevations are reached. The Permittee shall conduct on site surveying during operations to ensure the design elevations and grades are met, yet not exceeded, and to ensure that the closure construction is provided at the correct elevations.

- b. Final Cover System Design. Terraces, underdrains, downcomer pipes, and the final cover system shall be constructed in accordance with the details provided on Drawing Sheets 20 and 21 in Document 4.
 - 1) Side Slopes. The final cover system for the side slopes shall consist of the following from bottom to top: a minimum 12-inch intermediate cover layer consisting of only uncontaminated soil material; a minimum 12-inch compacted clay layer with a maximum permeability of 6.67×10^{-8} cm/sec; a minimum of 24 inches of loosely compacted soil layer with the top 6 inches capable of sustaining vegetation; and the vegetative cover.
 - 2) Top Area. The final cover system for the top area shall consist of the following from bottom to top: a minimum 12-inch intermediate cover layer consisting of only uncontaminated soil material; a textured HDPE geomembrane with a minimum average thickness of 40-mil and a maximum water vapor transmission rate of $2.4 \text{ g}/(\text{m}^2 \times \text{day})$; a minimum 12-inch sand layer with a minimum permeability of 1×10^{-3} cm/sec ; and a minimum 12-inch soil layer with the top six inches capable of supporting vegetation.
- c. Interface Friction Angles. The Permittee shall test the interface friction angles of the material that will be installed in the final cover system to ensure they meet the design criteria.
- d. Closure Construction Quality Assurance. The Permittee shall provide for quality assurance for each of the phased closure projects. In constructing the side slopes the Permittee shall implement the procedures and conduct the testing proposed in the "Quality Assurance/Quality Control Plan for Side Slope Closure," provided in Attachment K of Document 5. In constructing the top area, the Permittee shall implement the procedures and conduct the testing proposed in the "Quality Assurance/Quality Control Plan for Top Area," provided in Appendix L of Document 5. Quality assurance shall be provided by a qualified party independent contractor, and the quality assurance individual shall be experienced in Landfill construction.

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- e. **Certification of Closure Construction Completion.** In accordance with Rule 62-701.400(7), F.A.C., the engineer of record shall certify to DEP that the permitted construction is complete and that it was constructed in substantial conformance with the approved plans, the construction quality assurance (CQA) plan, Chapter 62-701, F.A.C., with EPA Document EPA/600/R-93/182, and with this permit except where minor deviation was necessary. All deviations shall be described in detail and the reasons therefore enumerated. The certification shall, at a minimum, include a completed copy of DEP Form 62-701.900(2), "Certification of Construction Completion of a Solid Waste Management Facility." The certification shall be prepared, signed, and sealed by a Professional Engineer registered in the State of Florida. Also, a CQA report and record drawings, signed and sealed by the professional engineer providing CQA to the project, shall be provided to DEP for review and approval. The submittal shall also include the CQA personnel's daily observation logs. Record Drawings and a final survey report done by a Professional Surveyor, in accordance with Rule 62-701.600(6), F.A.C., shall be provided for each incremental closure as well as for the final closure. The official long-term period will not begin until the final certification of the entire permitted facility is received and approved by DEP and the other requirements of F.A.C. Rule 62-701.600 are met.
- 36. **Use of Closed Landfill Areas.** Pursuant to F.A.C. Rule 62-701.610(1), DEP retains regulatory control over any and all activities that may affect the integrity of the environmental protection measures such as the landfill cover, drainage, liners, monitoring system, and/or leachate, gas and stormwater controls. The Permittee shall consult with DEP prior to conducting any activities at the closed landfill and shall control access to the Facility.
- 37. **Gas and Odor Monitoring and Remediation.** The Permittee shall monitor gas levels, and shall take measures to prevent explosions and fires, and to minimize off-site odors, lateral migration of gases and damage to vegetation.
 - a. **Gas Monitoring.** Gas monitoring wells/probes (GP) GP-6, GP-7, GP-8, GP-9, and GP-10, gas monitoring locations (GM) GM-01 through GM-05, and any other on site structures, shall be properly monitored on a quarterly basis throughout the duration of this Permit. The gas monitoring wells/probes/locations are shown on Attachment 3. Quarterly gas monitoring shall be conducted by March 31, June 30, September 30 and December 31 of each year of this permit. The Permittee shall record these gas monitoring results and shall submit a summary report to DEP within 15 days of the monitoring event, specifically, by April 15, July 15, October 15, and January 15, respectively, of each year of this permit. Combustible gas meters shall be calibrated to

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methane. The routine gas-monitoring program shall monitor concentrations of combustible gases at ambient monitoring points and in gas monitoring wells. 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 or beyond the Landfill property boundary or in a compliance gas monitoring well/probe. The Permittee may be subject to more frequent monitoring based upon DEP's review of these data results.

- b. Gas Monitoring Well Maintenance. The integrity of the gas monitoring system shall be maintained. The wells shall be easily accessible, highly visible, clearly labeled, and closed with valves or caps. The gas monitoring wells/probes shall be inspected during the weekly inspections. Should a gas monitoring well be found damaged or if it fails to operate for any reason, the Permittee shall notify DEP within seven days of the inspection. Damaged or non-functional gas monitoring wells shall be repaired or replaced within 60 days of the inspection unless the Permittee is notified otherwise in writing by DEP. The installation of the gas monitoring wells/probes shall be certified as meeting the requirements of this specific condition by a professional engineer registered in the State of Florida. The engineer's certification along with boring log shall be submitted to DEP within 30 days of completion of installation.
- c. Gas Remediation. If, during a monitoring event, the results show that combustible gas concentrations exceed the lower explosive limit at the property boundary and/or at a compliance gas monitoring well/probe (i.e., GP-6 through GP-10), or if 25% of the LEL is exceeded within a structure or at a gas monitoring location (i.e., GM-01 through GM-05), the Permittee shall immediately take all necessary steps to ensure protection of human health and shall notify DEP, by telephone, of the violation within 24 hours of the time that the violation is first discovered. Within seven 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 in writing by DEP.
- d. Odor Remediation Plan. The Facility shall be operated and maintained 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 off-site odors and, if the monitoring program confirms the existence of objectionable odors, the Permittee shall submit to DEP for approval an odor remediation plan for the

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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.

38. **Active Gas Collection System.** The Landfill gas collection system consists of gas extraction wells, gas collection pipes, a gas extraction blower, a flare station, and a gas condensate pump station.
- a. **Authorization and Permits.** This permit coordinates the requirements of DEP's Solid Waste Section with the Title V and NSPS requirements of DEP's Air Program for the operation, maintenance, and monitoring of the active gas collection system. However, it is not in lieu of those other requirements, and the Permittee shall be responsible for obtaining all other necessary permits for the construction and operation of the active gas collection system. Installation of the active gas collection system shall be in accordance with the NSPS for Municipal Solid Waste Landfills and shall proceed in phases as sections of the Landfill are brought up to final grade and elevations. Portions of the system shall be constructed during each closure construction phase, as shown on Drawing Sheets 14 and 15 (Closure Phasing Plan) of Document 4. The final permanent gas collection system including header pipes shall be installed during the final closure construction phase and shall be constructed as shown on Drawing Sheet 9A of Document 4, and shall be placed into operation. Interim wells may also be installed in areas that have not achieved final grades to allow for immediate gas collection until the permanent wells are installed or until the final grades are reached.
 - b. **Associated Structures.** Upon completion of the active gas collection system, 73 gas extraction wells that extend from a minimum of ten feet from the bottom liner system, shall be installed at the Landfill. A unique identification number shall be assigned for each gas extraction well. The location and installation of the gas extraction wells, headers, lateral alignment, and liquid management facilities may vary slightly to accommodate Landfill field slope.
 - c. **Construction Certification.** Upon completion of the active gas collection system, the Permittee or authorized representative, shall complete and submit to DEP, DEP Form 62-701.900(2) [Certification of Construction Completion of a Solid Waste Management Facility]. In addition, the professional engineer in charge of construction quality assurance shall certify that the active gas collection system has been constructed in substantial conformance with the plans and project specifications and shall provide a signed and sealed final construction quality assurance report, record documentations (including well construction logs) and record drawings to DEP. At such time, the

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Permittee shall arrange for DEP representatives to inspect the construction of the active gas collection system in the company of the Permittee, Project Engineer and the Landfill operator.

- d. Gas Condensate Testing. Since the gas condensate is discharged into the leachate collection system and the combined stream (leachate and condensate) is tested in accordance with the leachate sampling requirement, separate testing of the gas condensate is not required.
- e. Gas-to-Energy Facility. This Permit coordinates the connection of the Landfill's existing gas and leachate collection systems to a Landfill Gas-to-Energy Facility (Energy Facility). The existing Landfill gas flare(s) will continue to be utilized as a backup to the Energy Facility. The existing Landfill gas collection system is connected to the Energy Facility via a new 24-inch line at a 24-inch header located outside the lined Landfill and in between the existing perimeter road and the flare station by means of a "Tee" connection as shown on Drawing C-1a of Document 10. Gas condensate generated by the Energy Facility, shall be collected, drained to a pump station adjacent to the Energy Facility, and discharged into the Landfill leachate collection system. The Permittee shall monitor the amount of gas condensate collected at the Energy Facility. A summary shall be included in the regular leachate monitoring report. Additionally, the Facility shall be in compliance with Chapters 62-710 and 62-762, F.A.C. (Used Oil Management and Above Ground Storage Tanks, respectively).
- f. Construction Requirements. During the construction of the active gas collection system in areas where final cover has been installed (i.e., on completed side slopes), the Permittee shall ensure that the final cover system is restored back to the original project closure construction specifications and in accordance with the QA/QC plan. These activities shall be documented and shall be submitted as part of the reporting requirements specified in Specific Condition 35.
- g. System Maintenance. The Permittee shall inspect the sufficiency of the temporary header pipes and wells, especially in areas of settlement. If discovered to have become inoperable and irreparable, the Permittee shall sever the temporary header from the header system and abandon it. A new header pipe shall be installed to connect the gas wells to the vacuum system. If inoperable but repairable, the Permittee shall either repair it or replace it. If the Permittee elects to replace it rather than repair it, the deficient header shall be severed from the header system and abandoned. Temporary wells may be extended vertically, as waste is placed around them. If a temporary well

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is abandoned, it shall be grouted full, cut at least 18 inches below surface, and covered with a minimum of 18 inches of clean fill.

39. **Leachate Management.** Leachate shall be managed in accordance with F.A.C. Rule 62-701.500(8) and the applicable information submitted in the Documents referenced at the beginning of this Permit, and as amended by this Permit.
- a. **Action Leachate Leakage Rate.** The Permittee shall monitor the amount of leachate collected at the Landfill. The level in and flow of leachate from both the leachate collection and detection sumps shall be monitored by means of a bubbler sensor and a manometer or other equivalent device at the control panel for each pump station. The amount of leachate pumped from each primary leachate collection system (PLCS) and each secondary leachate detection system (LDS) at each sump shall be measured by a flow meter located inside the vault box. The quantity of leachate collected from the PLCS and LDS shall be recorded in gallons on a daily basis, Monday through Friday at a minimum. The action leachate leakage rate for the facility is 4,492 gallons per cell per day. If 4,492 gallons or more is detected in the LDS of a cell on any one day, the Permittee shall notify DEP of the situation within 24 hours by telephone and in a written report within seven days of discovery of the exceedance. The report shall include a description and assessment of the situation, proposed remedial actions and a schedule for commencing and completing the remediation. A cell is defined as the area served by a pump station and is shown on Drawing Sheet 7, provided with Document 4. The smallest cell is 17.7 acres.
 - b. **Backflow Prevention.** To aid in preventing back flow into the system, if the level in a sump exceeds 3.5 feet, (the sump is recessed 3.5 below the base of the Landfill and is double lined) an audio and visual alarm shall sound at the control panel for the pump station. The Permittee shall remedy the situation if this level is exceeded and shall follow the procedures and provide the reports required for the exceedance of the action leachate leakage rate.
 - c. **Pump Stations and Flow Meter Maintenance.** The Permittee shall maintain the pump stations and their associated components, including the pumps, and the measuring and monitoring devices, and shall ensure that they are operational. At each pumping station, two pumps (one for the collection system and another for the detection system) shall be maintained. Pumps shall be operated in automatic mode and in a manner that will prevent leachate from collecting in a sump beyond its design level, backing up into the system, or discharging to the environment. If a pump is taken out of service or

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manually shut down, a replacement pump shall be provided in its place. The Permittee shall maintain the visual and audible alarms so that they will alert the Permittee in the event the allowable leachate level in a sump is exceeded. If alerted, the Permittee shall provide a backup pump, record the flow of leachate, investigate the situation and implement remedial actions if warranted. The Permittee shall maintain at least one backup pump onsite and shall install it or another pump equivalent to the design pumps within the same day a pump is discovered to be insufficient and/or taken out of service for maintenance or repairs. There are eight pump stations. They are located on the east side of the Landfill and the system is designed so leachate will flow from west to east. The pump stations and the areas they serve are as follows:

Pump station 1A – Phases 1A and II A
Pump station 1B – Phases 1B and II B
Pump station 1C – Phases 1C and II C
Pump station IIIA – Phases III A and IVA
Pump station IIIB – Phases IIIB and IVB
Pump station IIIC – Phases IIIC and IV C
Pump station VA – Phases VA and VC
Pump station VB – Phases VC and VD

- d. Leachate and Precipitation Comparison. The Permittee shall measure and record daily, in gallons per day, the amount of leachate collected from the Landfill's leachate collection and detection systems, and the amount of leachate transported to the wastewater treatment facility. The Permittee shall also maintain a recording rain gauge, and shall compare the recorded precipitation rates to the leachate generation rates. Leachate generation reports shall be summarized, compiled monthly, and shall be maintained and made available to DEP immediately upon request, including during routine inspections. .
- e. Leachate Treatment. Leachate collected from the Landfill shall be stored on site in the six 20,000-gallon leachate storage tanks and transported to the Buckman Wastewater Treatment Facility for treatment and disposal. The owner or operator shall obtain approval from DEP prior to disposing leachate to another wastewater treatment facility. A copy of a valid and updated agreement between the Facility and the permitted treatment/disposal facility shall be kept on-site and shall be available to DEP immediately upon request, including during routine inspections.

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- f. Inspections. The overfill prevention system and the exposed exterior of all leachate storage tanks shall be inspected weekly. If the inspection reveals a tank or equipment deficiency, leak, or any other deficiency that could result in failure of the tank to contain the leachate, remedial measures shall be taken immediately to correct the deficiency. Inspection reports shall be maintained and made available to DEP upon request for the lifetime of the liquid storage system.
 - g. Sludge Removal. Sludge or solids taken from the leachate storage tanks, whenever the storage tanks are drained for routine maintenance, inspections or repair, shall have a hazardous waste determination performed for metals and organics in accordance with 40 CFR 262.11 and F.A.C., Rule 62-730.160. The sludge and solids shall be disposed of at a permitted facility, based on the results of the testing performed.
 - h. Maintenance of Leachate Collection System. The Permittee is responsible for the operation and maintenance of the leachate collection and removal system as designed. The Permittee shall perform routine maintenance of the leachate collection and removal system and all associated structures, to ensure proper operation of the system. The Permittee shall, in an appropriate manner, clean out the leachate collection system if and when obvious signs of obstruction(s) are exhibited. At least 60 days prior to permit expiration, the system shall be water pressure cleaned or inspected by video recording. The engineer of record shall review the video recording and shall provide a written evaluation of his/her review and a statement as to the sufficiency of the system. If it is necessary, corrective actions and a schedule for completing the repairs shall be included in the report. Additionally, the engineer of record shall review the daily records of the amount of leachate collected from the leachate collection and detection systems, compare results with the design criteria, and include the his/her evaluation of the systems' integrity and effectiveness. The summarized evaluation report shall be provided with the permit renewal application.
 - i. Leachate Recirculation. Leachate recirculation is not authorized under this permit.
40. **Leachate Monitoring.** Leachate shall be sampled prior to September 30 of each year of the permit, and the data submitted in conjunction with the October 15 Report required in Specific Condition 45.k. A composite sample will be taken from the drain valve of each of the five leachate collection system storage tanks (Tanks 1 thru 5) and one sample shall be taken from the drain valve of the leachate detection system storage tank (Tank 6) and shall be analyzed for the parameters specified in Attachment 11.

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Sampling and monitoring data shall be collected, analyzed, reported and retained in accordance with Chapter 62-160, F.A.C., and Rule 62-522.600, F.A.C. 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, F.A.C., where such certification is required by Rule 62-160.300, F.A.C. 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 (December 2008). 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, F.A.C. Detection levels shall be at or below groundwater standards and/or criteria. Leachate sampling results shall be prepared and submitted to DEP in accordance with the "Guidance for Submitting Electronic Water Quality Data to the Solid Waste Program" document, provided as Attachment 4 in this Permit, and as part of the semi-annual ground and surface water monitoring Electronic Reporting in accordance with Specific Condition 45.k. of this Permit.

Concerning leachate sampling and analysis, if a contaminant listed in 40 CFR 261.24 exceeds the regulatory level listed therein, the Permittee shall follow the procedures addressed in F.A.C. Rule 62-701.510(6)(c) 2, which includes notifying DEP of the results in writing and conducting monthly sampling and analysis, commencing within 30 days of the date the of the sampling event in which the exceedance is first detected. The Permittee shall provide DEP with the monthly analysis. Should the composite sample taken from the five leachate collection storage tanks be determined hazardous, leachate stored in all five tanks shall then be treated as hazardous, unless it is determined through additional leachate sampling and testing, that a tank or tanks do not contain the hazardous leachate. Leachate that is determined hazardous shall be managed in accordance with F.A.C. Rule 62-730. The written notification required per said rule shall be provided as soon as possible and shall indicate how the leachate was managed.

Please note that this Permit does not authorize onsite treatment or pretreatment of leachate.

41. **Power Generators.** For power outages that extend for a period of 24 hours or more, the Permittee shall, unless onsite generators are available, obtain emergency generators within 48 hours of the time the power outage first occurs. In the interim and for shorter power outages, onsite equipment may be utilized to power the leachate sump pumps.

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42. Waste Tire Processing Facility.

- a. **Authorization.** This Permit authorizes Trail Ridge Landfill to operate a waste tire processing facility on a parcel of land south of the non-contract drop off area and east of the operations building. Storage of waste tires and the operation of the waste tire processing facility shall be in accordance with F.A.C. Rule 62-711.
- b. **Storage Limits.** The maximum number of whole waste tires, processed waste tires, and residuals shall be limited to 60 times the daily through-put of the processing equipment. In addition, the number of whole waste tires shall be limited to 30 times the daily through-put of the processing equipment. Since the daily through-put of the processing equipment is estimated to be 3.33 tons per day, the maximum storage of whole tires shall not exceed 100 tons (i.e., approximately 10,000 tires). Each storage pile shall be no wider than 50 feet, with an area no greater than 10,000 square feet, and a height no greater than 15 feet. The limits of the waste tire storage area shall be appropriately marked to ensure that all waste tires are stored within these limits. Tires may only be stored on the paved impervious surface of the waste tire storage area. The Permittee shall also maintain the existing curb to contain, within the paved tire storage area, any potential liquid residue from a tire fire. Any liquid tire fire residual shall be managed in accordance with all applicable local, state and/or federal regulations. Additionally, a 50-foot wide fire lane shall be maintained around the perimeters of each waste tire pile. Access to the fire lane for emergency vehicles must be unobstructed at all times.
- c. **Processed Waste Tires.** At least 75 percent of the waste tires and processed tires that are delivered to or stored at the facility at the beginning of each calendar year shall be processed and disposed of on site or transported offsite to a permitted facility for recycling or disposal. The temperature of above-ground piles of processed tires over ten feet high shall be monitored and temperature control measures shall be instituted so the pile temperatures do not exceed 300 degrees Fahrenheit. Temperature monitoring and controls are not required for processed tires disposed of in the Landfill. If waste tires are to be disposed of in the Landfill, the tires must be cut into at least eight substantially equal pieces. Processed tires disposed of in the Landfill, which do not meet the size requirement of F.A.C. Rule 62-711.400(3)(a) for initial cover, must receive initial cover as defined in F.A.C. Rule 62-701.200.
- d. **Annual Fire Safety Survey.** The Permittee shall submit, by December 31 of each year, an annual fire safety survey report for the waste tire processing facility.

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- e. **Waste Tire Processing Facility Quarterly Report.** The Permittee shall, by the 20th of the month following the close of each calendar quarter, provide the information required pursuant to F.A.C. Rule 62-711(530)(5) including a completed DEP Form 62-711.900(21).
 - f. **Additional Recording Requirements.** The Permittee shall record and maintain for three years, the information required in F.A.C. 62-711.530(4)(a thru c) and F.A.C. 62-711.530(5)(a through g) and shall keep the records available to DEP upon request.
 - g. **Closing.** The Permittee shall follow the plan for closing waste tire storage area provided in Appendix I of Document 5, and shall also provide receipts from the facilities to where the waste tires and any residuals are sent during closure. All tires and residuals shall be removed within 30 days of the last waste receipt date, which shall be recorded in logs and the logs provided to the DEP upon request.
43. **Air Construction Permit.** A landfill for which construction or modification is subject to the prevention of significant deterioration (PSD) requirements of Chapter 62-212, F.A.C., must make application to the Bureau of Air Regulation, 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.
44. **Air Permit Requirement.** The Permittee shall comply with the requirements of 40 CFR 60, Subparts WWW, as adopted by reference at Rule 62-204.800, F.A.C. The Permittee shall submit to the Air Program, Northeast District Office, Florida Department of Environmental Protection, 7825 Baymeadows Way, Suite B-200, Jacksonville, Florida 32256-7590, any amended design capacity report pursuant to 40 CFR 60.757(a)(3).
45. **Groundwater Monitoring Requirements.** In accordance with F.A.C. Chapters 62-701 and 62-520, the Permittee shall install, place into operation, and maintain a groundwater quality monitoring system.
- a. The groundwater monitoring system shall be designed, constructed, operated and maintained in accordance with F.A.C. Chapters 62-701 and 62-520, and with the Groundwater Monitoring Plan, as presented in the Permit Documents noted at the beginning of this Permit, and as modified by the conditions specified in this Permit.
 - b. Pursuant to F.A.C. Rule 62-520.410, the zone of discharge shall be limited horizontally to 100 feet from the waste management area; or to the property boundary; or to the shortest distance between the location of the compliance monitoring wells and the

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waste management area; whichever is less. This zone of discharge shall remain in effect unless it becomes necessary to seek a change in accordance with F.A.C. Rule 62-520.410.

- c. The Permittee shall ensure that the water quality standards for Class G-II ground water will not be exceeded at the boundary of the zone of discharge pursuant to F.A.C. Rule 62-520.410.
- d. The Permittee shall ensure that the minimum criteria for ground water specified in F.A.C. Rule 62-520.400 shall not be violated within the zone of discharge.
- e. Approximate monitoring well locations and designations shall be in accordance with Attachment 5. In conjunction with the construction of any new wells, a surveyed drawing shall be submitted showing the location of all monitoring wells (active and abandoned) that 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 markers(s) at the site. The survey shall be conducted by a Florida Registered Surveyor. All wells are to be clearly labeled and easily visible at all times. In accordance with F.A.C. Chapter 62-701, monitor wells designed to monitor phases III C, IV C, VA, VB, VC, and VD shall be designated detection wells and be placed no greater than 50 feet from the limits of the waste. Monitoring of all active cells shall be by wells located within 50 feet of waste or as close to that point as physically practicable.

Compliance Wells MWB-14(S)c, (I)c, (D)c; MWB-23(S)c; MWB-24(S)c; MWB-25(S)c, (I)c, (D)c; and MWB-26(S)c shall be maintained, but will not be utilized unless required for assessment monitoring.

Background Well Clusters:

MWB-2(S)b, 2(I)b
MWB-3(S)b, 3(I)b
MWB-31(D)b

Phase I

Compliance Well Clusters:

MWB-7(S)c, 7(1)c, 7(D)c
MWB-11(S)c, 11(1)(R)c
MWB-12(S)c, 12(1)c, 12(D)c
*MWB-14(S)c, 14(I)c, 14(D)c
MWB-19(S)c, 19(I)c, 19(D)c
MWB-20(S)c

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	MWB-21(S)c MWB-22(S)c
<u>Phase II</u>	
Compliance Well Clusters:	MWB-17(S)c, 17(I)c, 17(D)c
<u>Phase III and Phase IV</u>	
Compliance Well Clusters:	MWB-13(S)c, 13(I)c * MWB-23(S)c
Detection Well Clusters:	MWB-33(S)d MWB-34(S)d, 34(I)d, 34(D)d
<u>Phase V</u>	
Compliance Well Clusters:	*MWB-24(S)c *MWB-25(S)c, 25(I)c, 25(D)c *MWB-26(S)c MWB-27(S)c, 27(I)c, 27(D)c MWB-29(S)c, 29(I)c, 29(D)c
Detection Well Clusters:	MWB-32(S)d, 32(I)d, 32(D)d

- * Indicates compliance monitoring well or well cluster replaced by detection wells.
No longer on regular sampling schedule, but to be maintained for potential future sampling (if needed).

- f. All groundwater monitoring wells shall be designated and constructed in accordance with F.A.C. Chapter 62-520 and ASTM Standard D-5092. All shallow surficial monitoring wells shall be constructed such that a portion of the screened interval shall extend into the vadose zone during all portions of the year and the screened interval shall be of sufficient length that a minimum of approximately five feet of screen shall extend into the water column throughout the year. Upon completion of construction of any new groundwater monitoring wells, the following information shall be submitted to the Department within 15 days for all groundwater monitoring wells (permanent and temporary):

Well identification
Latitude/Longitude
Aquifer monitored
Screen type and slot size
Elevation at top of pipe
Elevation at land surface

Driller's Lithologic Log
Total well depth
Casing diameter
Casing type and length
Well construction permit number
Depth to groundwater

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A well completion report will be provided for all wells. A surveyed drawing shall be submitted showing the location of all monitoring wells (active and abandoned) that 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 bench mark(s) and/or corner monument marker(s) at the site. The survey shall be conducted by a Florida Registered Surveyor. Well construction at and above ground surface shall be designed to secure and protect the groundwater monitoring wells.

At each well location, construction shall include a concrete surface pad and above ground vertical protective casing with a locking top. The casing and top shall be required to be in good working order, intact and locked. A minimum of two protective bollards shall be placed at the edges of concrete surface pad. Bollards shall be at a minimum of the approximate height of the protective casing and constructed of materials capable of providing some protection of the protective casing from accidental collision with machinery.

- g. In the event any monitoring well becomes damaged or inoperable, the Permittee shall notify the Department within 72 hours and a detailed written report shall follow within seven days. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent a recurrence. All monitoring well design and replacement shall be approved by DEP prior to installation.
- h. Within 60 days of issuance of this permit, all piezometers and wells not a part of the approved groundwater monitoring plan are to be plugged and abandoned in accordance with Rule 62-532.440, F.A.C., and with St. Johns River Water Management District Rule 40C-3.531. The Permittee shall submit a written report to DEP providing verification of the well plugging and abandonment. A written request for exemption to the plugging and abandonment of a well must be submitted to DEP for approval.
- i. Groundwater levels shall be recorded no less than 48 hours after well installation and prior to evacuating the well for sample collection. Measurements, referenced to a consistent, nationally recognized datum, 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. This information shall be submitted to DEP with the semi-annual groundwater analytical results. A map must be constructed depicting locations of wells and piezometers and corresponding water level measurements.

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- j. All sample collection and water quality analysis shall be in conformance with F.A.C. Chapter 62-160 and Rule 62-520.600. Sampling and monitoring data shall be collected, analyzed, reported and retained in accordance with Chapter 62-160, F.A.C. Laboratory detection limits for arsenic must be 10 µg/L or less.

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, F.A.C., where such certification is required by Rule 62-160.300, F.A.C. 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 (December 2008). 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 (December 2008). 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, F.A.C.

- k. All required water quality monitoring reports, including the groundwater sampling field measurements and results, and all groundwater and surface water analytical results, shall be submitted electronically, with one hard copy submitted to the District office, unless DEP indicates otherwise in writing. The water quality data Electronic Data Deliverable (EDD) shall be provided to DEP in an electronic format consistent with the requirements for importing the data into DEP's databases, and shall be submitted no later than the 15th day of the month immediately following the end of the sampling period. This format is presently one that is in accordance with the "Guidance for Submitting Electronic Water Quality Data to the Solid Waste Program" document, provided as Attachment 4 in this Permit, but may be changed by DEP in the future. The electronic water quality monitoring reports shall be provided in Adobe pdf format, and along with the hard copy, shall be submitted within 30 days of acceptance and approval of the EDD by DEP, unless requested earlier by DEP. 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:

- 1) Cover letter;
- 2) Summary of exceedances and recommendations;
- 3) Ground water contour maps;
- 4) Chain of custody forms;
- 5) Water levels, water elevation table;

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- 6) Ground Water Monitoring Report Certification, using the appropriate DEP form;
- 7) Appropriate sampling information on Form FD 9000-24 (DEP-SOP-001/01); and,
- 8) Laboratory and Field EDDs and error logs, as applicable.

With the exception of the above-mentioned hard copy, all submittals in response to this specific condition shall be sent both to:

Florida Department of Environmental Protection
Northeast District Office
7825 Baymeadows Way, Suite B200
Jacksonville, Florida 32256-7590

and to:

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

- l. All groundwater background, detection, and compliance monitoring wells shall be sampled and analyzed semi-annually for the parameters listed in Attachment 6. However, additional samples, wells, and parameters may be required based upon subsequent analyses. Samples shall be collected for all wells for each phase of monitoring prior to March 30 and September 30 of each year.

In accordance with Rule 62-701.510(6)(b)1, F.A.C., for any new monitoring well installation(s) initial background groundwater samples shall be collected and analyzed for the parameters listed in Attachment 7 within 30 days of installation.

- m. All groundwater sampling results shall be reported on the Parameter Monitoring Report form [DEP Form 62-522.900(2)]. The Permittee shall retain the original forms 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 describe above. The Permittee shall submit to DEP the results of the groundwater monitoring well water quality analysis no later than 60 days from completion of laboratory analysis. Analytical results shall be accompanied by a brief narrative summary. The Permittee shall include Form 62-701.900(31), Water Quality

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Monitoring Certification with each report certifying that the laboratory results have been reviewed and approved by the Permittee.

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; and
 - 3) All peaks greater than the EPA specified detection limit for the analytical method shall be identified.
- n. The Permittee shall prepare and submit to DEP groundwater surface contour maps, prepared from data collected from all permitted wells on site, for the initial sampling event and each semi-annual sampling event. A shallow surficial map, utilizing data from the shallow wells; an intermediate surficial map, utilizing the data from the intermediate wells; and a deep surficial map, utilizing data from the deep wells will be prepared and submitted to DEP, with the groundwater elevation data. This information shall be submitted in conjunction with the semi-annual analytical data.
- o. If, at any time, groundwater standards and/or criteria are exceeded, or if parameter concentrations in detection wells are significantly above unaffected background water quality, the Permittee shall notify DEP within 72 hours of discovery and resample the monitor well(s) to verify the contamination analysis within 14 days from the date the Permittee received the results. The Permittee shall submit to DEP the results of the resampled groundwater monitoring well water quality analysis and the original analysis no later than the 15th day of the following month.

Should the Permittee choose not to resample, DEP will consider the water quality analysis that exceeded the standards and/or criteria, or that significantly exceeded background water quality, as representative of current groundwater conditions at the Facility.

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- p. Compliance with groundwater standards and/or criteria shall be determined by analysis of unfiltered groundwater samples, unless the requirements of Rule 62-520.300(9), F.A.C., and the document entitled, "Determining Representative Ground Water Samples, Filtered or Unfiltered (January 1994)" are satisfied.
 - q. The Permittee shall monitor the data obtained from the leachate, ground, and surface water monitoring system, and the site-specific conditions. A report shall be submitted by January 18, 2012 , and subsequently every two and one-half years during the active life of the Facility, or every five years during the long-term care period in accordance with Rule 62 701.510(10)(b) F.A.C. It shall include a graphic plot of analytical laboratory data over time for the leachate and surface water sampling parameters. The groundwater, surface water, and leachate monitoring programs shall be evaluated and the adequacy of the monitoring frequency and analyses shall be determined. The Permittee shall have this report prepared, signed, and sealed by a professional geologist or qualified professional engineer.
 - r. Based on any information or data obtained after the effective date of this permit, DEP 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.
46. **Surface Water Monitoring.** Surface waters shall be sampled and analyzed semi-annually in conjunction with the sampling program required for the groundwater monitoring system to assess how surface water quality was affected by Landfill's activities. The following Surface Water Monitoring Program shall be implemented:
- a. The Surface Water Monitoring System shall be designed and operated in accordance with plans submitted to DEP, as modified by the conditions specified in this permit. If the wet detention pond is discharging, the sampling location shall be at the point of discharge. If discharge is not occurring at the time of sampling, surface water samples shall be collected from the approximate center of the wet detention pond.

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- b. The surface water monitoring sites shall be located as follows:

<u>SITE NUMBER</u>	<u>LOCATION</u>
SW-1	As indicated in Attachment 8
SW-2	As indicated in Attachment 8
SW-3	As indicated in Attachment 8 (at the discharge, if actively discharging or at the center of the pond if no discharge)

- c. All surface water sampling sites shall be sampled and analyzed on a semi-annual basis for the parameters listed in Attachment 9. However, additional sampling sites and parameters may be required based upon subsequent analyses. The results shall be reported in accordance with Specific Condition 45.k. and submitted with the groundwater monitoring reports.
- d. Additional sampling sites and parameters may be required based on the analysis.
- e. The Permittee shall ensure that the surface water samples shall not exceed applicable surface water standards. If at any time water standards and/or criteria are exceeded, the Permittee shall immediately notify DEP by telephone whenever a serious problem occurs at this Facility. Within seven days of telephone notification, the Permittee shall submit to DEP a written report explaining the extent of the problem, its cause, and what actions have been or will be taken to correct the problem.

47. **Stormwater Management System.** The stormwater management system consists of: swales, terraces, downcomers, perimeter drainage ditches and culverts, inlet and outlet structures, and a wet detention pond. The operation and maintenance of the stormwater management system shall be as set forth in the plans, specifications, and approved by this permit.

- a. **Installation.** Installation of terraces, inlets, temporary and permanent downcomers, outlets, stormwater management ditches, culverts, and discharge structures shall coincide with the construction of individual phases in accordance with the Filling Sequence Plan. Dimensions and slopes of these components of the stormwater management system shall be in accordance with the design drawings provided with Document 4.
- b. **Operational Maintenance.** The following operational maintenance activities shall be performed on all permitted systems on a regular basis or as needed:

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- 1) Removal of trash and debris from inlet grates and culvert inlets;
 - 2) Inspection of inlets and outlets. Maintenance of the culverts, and pipe inlets and outlets shall be conducted as necessary to prevent blockage;
 - 3) Removal of sediments when the storage volume or conveyance capacity of the system is below design level and/or when the system is rendered ineffective on account of clogging/sedimentation of the pond bottom;
 - 4) Stabilization and restoration of eroded areas;
 - 5) Mowing and removal of grass clippings; and
 - 6) Aeration, tilling, or replacement of topsoil as needed to restore percolation capability of the system.
- c. Inspections. The Permittee shall inspect drainage structures, including terraces, inlets, downcomers, outlets, ditches, stormwater management culverts and structures on a weekly basis and after all major storm events (e.g., those with one or more inches of rainfall). Ditches and terraces shall be maintained free of debris that could impede the free flow of water through the conveyance. Any and all breaches of the system's integrity shall be immediately repaired. Any and all non-functioning pipes shall be repaired within 14 days. Whenever erosion is detected, measures shall be taken to stabilize, restore, and protect affected areas within three days.
- d. Functional Deficiency. 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 days of the date the system was determined to be design deficient.
- e. 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 62-302, 62-4, 40C-4, 40C-40, 40C-41, and 40C-42, F.A.C., and Chapters 373 and 403, F.S. The Permittee is encouraged to use the appropriate Best Management Practices described in the Florida Land

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Development Manual: A guide to Sound Land and Water Management (DER, 1988). All wetland areas or water bodies which are outside of the specific limits of construction authorized by this permit must be protected from erosion, siltation, scouring, or excess turbidity and dewatering. Turbidity barriers shall be installed at all locations where the possibility of transferring suspended solids into the receiving water body exists due to the proposed work. Turbidity barriers shall remain in place at all locations until construction is completed and soils are stabilized and vegetation has been established. The Permittee shall be responsible for the removal of the barriers.

48. **Irrigation System for Wetlands.** After treatment in the wet detention pond, stormwater is discharged through a perforated spreader pipe around the perimeter of the stormwater management basin to existing wetlands. This wetland irrigation system shall, at a minimum, be inspected by the Permittee once per quarter.
- a. **Operation and Maintenance.** The Permittee shall continue to maintain and operate the irrigation system for wetlands adjacent to the pond berm that was installed to mitigate any potential effects to the natural hydroperiod of the adjacent wetland as a result of hydrologic drawdown caused by the stormwater pond. The irrigation system, which extends along the southern and eastern most edges of the pond berm and along a portion of the northern edge of the pond berm, is shown in Attachment 10.
 - b. **Erosion Control.** The Permittee shall take all appropriate measures to ensure that the wetland irrigation system (i.e., the stormwater discharge system) does not cause erosion into any wetland area during construction and operation.
 - c. **Reporting.** On an annual basis, the wet detention and the wetland irrigation systems, including the pumping system that is used to facilitate stormwater treatment and irrigation of the adjacent wetlands, shall be inspected by a registered Florida Professional Engineer. This inspection shall demonstrate that the stormwater management system is operating as designed and the discharge rate for the wet detention pond is within the allowable permitted range of between 2.11cfs (947 GPM) and 2.50 cfs (1,122 GPM). A signed and sealed report certifying that the systems are functioning as designed shall be submitted to the DEP's Stormwater Engineer at 7825 Baymeadows Way, Suite B-200, Jacksonville, Florida 32256-7590 by December 31 of each year.

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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, FS. The permittee is placed on notice that DEP 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 DEP.
3. As provided in subsections 403.987(6) and 403.722(5), FS, 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 DEP 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 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, as 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.

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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.
8. Reasonable time may depend on the nature of the concern being investigated. 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 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 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 Department may be used by 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

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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 Rules 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 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 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; and
 6. The results of such analyses.

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15. When requested by 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 Department, such facts or information shall be corrected promptly.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Michael J. Fitzsimmons
Waste Program Administrator

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

Beverly J. McRae 5/11/2012
Clerk Date

**TRAIL RIDGE LANDFILL
REQUIRED PERSONNEL MATRIX**

Time	3000 Tons / Day			3500 Tons / Day			4000 Tons / Day		
	Spotters Required*	Laborers Required	Equip. Op. Required	Spotters Required*	Laborers Required	Equip. Op. Required	Spotters Required*	Laborers Required	Equip. Op. Required
6:00 - 7:00 AM	2.0	2.0	3.0	2.0	2.0	3.0	2.0	3.0	3.0
7:00 - 10:00 AM	1.0	2.0	2.0	1.0	2.0	2.0	1.0	2.0	2.0
10:00 AM - 3:00 PM	1.0	2.0	2.0	2.0	2.0	3.0	2.0	3.0	3.0
3:00 - 5:00 PM	1.0	1.0	1.0	1.0	1.0	2.0	1.0	2.0	2.0
5:00 - 7:00 PM	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Time	4500 Tons / Day			5000 Tons / Day		
	Spotters Required*	Laborers Required	Equip. Op. Required	Spotters Required*	Laborers Required	Equip. Op. Required
6:00 - 7:00 AM	2.0	3.0	4.0	2.0	3.0	4.0
7:00 - 10:00 AM	1.0	2.0	2.0	2.0	2.0	3.0
10:00 AM - 3:00 PM	2.0	3.0	3.0	2.0	3.0	4.0
3:00 - 5:00 PM	1.0	2.0	2.0	1.0	2.0	2.0
5:00 - 7:00 PM	1.0	1.0	1.0	1.0	1.0	1.0

Notes:

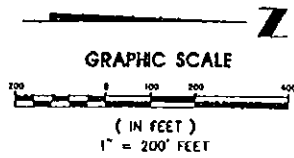
* When more than one Spotter is required, the second spotter may also serve as an Equipment Operator(s).

Trail Ridge Landfill
Landfill Inspection Checklist

Name of Inspector: _____		Date of Inspection: _____	
If answered yes, attach additional comment pages or site plan as needed.			
Section A: Fencing and Security	Yes	No	Not Applicable
1. Damage to fences, gates, or locks	_____	_____	_____
2. Gates unlocked/locks missing	_____	_____	_____
3. Signs of forced entry detected	_____	_____	_____
Section B: Access Roads	Yes	No	Not Applicable
1. Access and site roads in poor condition	_____	_____	_____
Section C: Final Cover System	Yes	No	Not Applicable
1. Settlement of cover	_____	_____	_____
2. Evidence of erosion, cracks, gullies	_____	_____	_____
3. Holes or damage to cover	_____	_____	_____
4. Patches of dead grass on cover	_____	_____	_____
5. Evidence of leachate seeps	_____	_____	_____
6. Impacts due to settlement	_____	_____	_____
7. Ponding of water in terraces	_____	_____	_____
Section D: Gas Management System	Yes	No	Not Applicable
1. Visible damage to system components	_____	_____	_____
2. Excessive release of odors	_____	_____	_____
3. Gas flare operating	_____	_____	_____

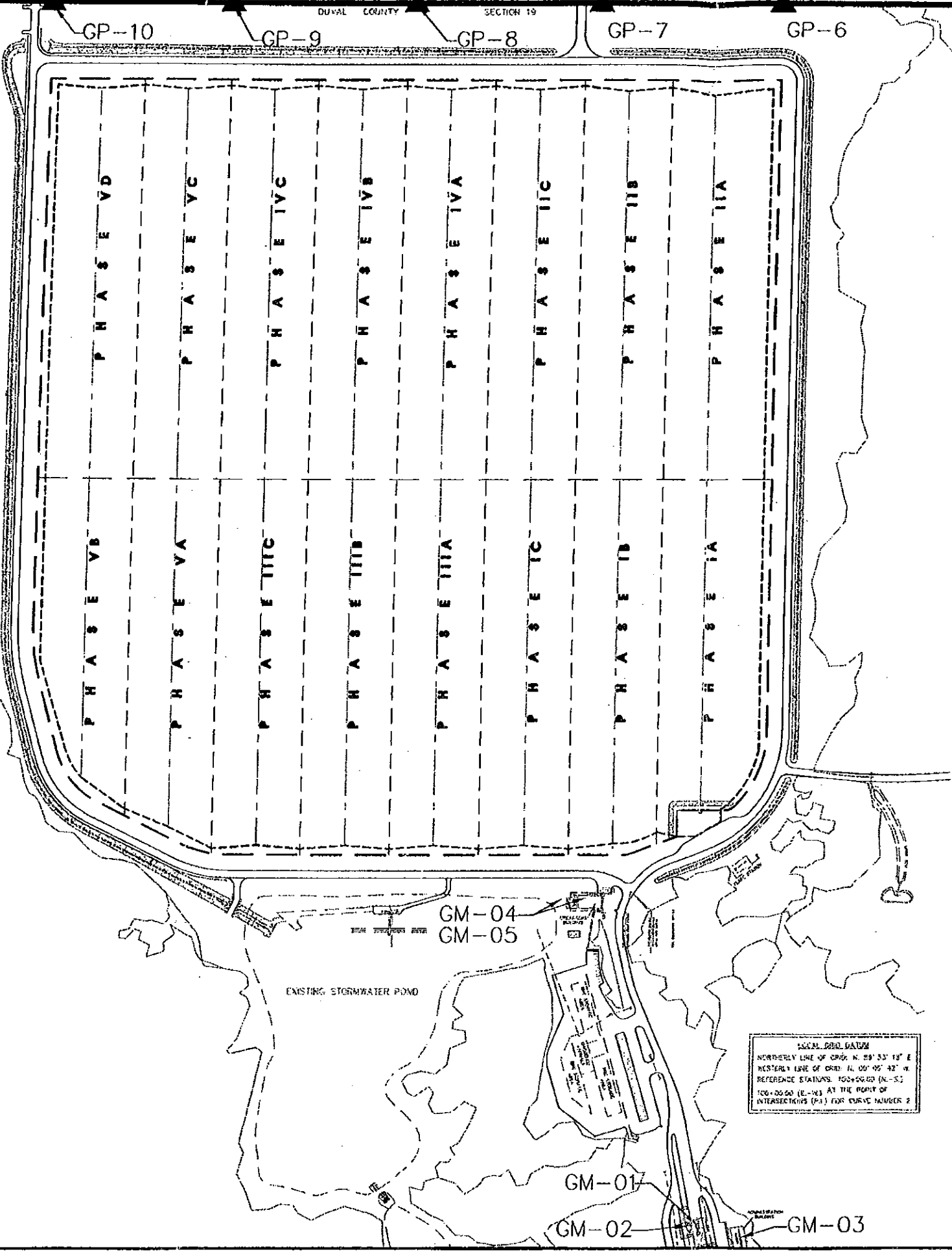
Trail Ridge Landfill
Landfill Inspection Checklist

Section E: Stormwater Management System	Yes	No	Not Applicable
1. Ponding of water	_____	_____	_____
2. Excessive silting due to lack of vegetation	_____	_____	_____
3. Inlets repair required	_____	_____	_____
4. Perimeter ditch or swale	_____	_____	_____
5. Retention pond damage	_____	_____	_____
6. Downcomer pipe repair required	_____	_____	_____
7. Leachate breakouts affecting water quality	_____	_____	_____
8. Ditches/Inlets/Culverts need cleaning	_____	_____	_____
Section F: Monitoring Devices	Yes	No	Not Applicable
1. Damage to groundwater monitoring wells	_____	_____	_____
2. Damage to gas wells	_____	_____	_____
3. Locks missing	_____	_____	_____
4. Damage to gas monitor probes	_____	_____	_____
Section G: Leachate Collection and Storage	Yes	No	Not Applicable
1. Leachate pumps operating	_____	_____	_____
2. Leachate flow meters operating	_____	_____	_____
3. Leachate control panels operating	_____	_____	_____
4. Control panel alarms operating	_____	_____	_____
5. Leachate storage tanks leaking	_____	_____	_____
6. Leachate containment area leaking	_____	_____	_____
Section H: Active Area	Yes	No	Not Applicable
1. Graded to provide drainage	_____	_____	_____
2. Leachate/stormwater ponding	_____	_____	_____
3. Any hot spots?	_____	_____	_____
4. Erosion of intermediate and/or initial cover	_____	_____	_____
Signature of Inspector: _____		Date: _____	



LEGEND	
	GAS PROBE
GP-10	GAS PROBE NUMBER
GM-04	GAS MONITORING LOCATION

PROPERTY BOUNDARY



LOCAL GRID DATUM
NORTHERLY LINE OF GRID: N. 89° 53' 13" E
EASTERLY LINE OF GRID: E. 00° 00' 42" W
REFERENCE STATIONS: 155+00.00 (N-S)
156+00.00 (E-W) AT THE POINT OF
INTERSECTION (PI) FOR CURVE NUMBER 2

PERMIT DOCUMENT

GAS PROBE MONITORING PLAN
TRAIL RIDGE LANDFILL THIRD PERMIT RENEWAL
FOR
TRAIL RIDGE LANDFILL, INC.

England, Thims & Miller, Inc.
ENGINEERS - PLANNERS - SURVEYORS - LANDSCAPE ARCHITECTS
14775 OLD ST. AUGUSTINE ROAD JACKSONVILLE, FLORIDA 32256
CERTIFICATE OF AUTHORIZATION NUMBER 2384
PHONE NUMBER (904) 842-8500 FAX NUMBER (904) 848-9488



DRAWING NO.

1 OF 1

PLANS PREPARED UNDER THE
DIRECTION OF:
REVISIONS:
8-15-08 GENERAL REVISIONS:
ETM NO. E 07-044-01
DRAWN BY: S. Lohmeyer
DESIGNED BY: J. Olin
CHECKED BY: J. Olin
DATE: September 25, 2002
JUANITA BADER, CLEM, P.E.
P.E. NO. 43245

Attachment 4

GUIDANCE FOR SUBMITTING ELECTRONIC WATER QUALITY DATA TO THE SOLID WASTE PROGRAM

October 1, 2010

I. General Information

Water quality monitoring reports and all ground water, surface water and leachate analytical results for the Solid Waste Program shall be submitted to the Department electronically on compact disc 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). ADaPT¹ has been developed to evaluate and upload water quality data into the Department's Water Assurance Compliance System (WACS) database. A copy of this ADaPT software with installation instructions and EDD specifications can be downloaded from the following website address:
<http://www.dep.state.fl.us/waste/categories/shw/pages/ADaPT.htm>

II. Monitoring Report

The monitoring report shall be submitted in Adobe pdf format, with the EDD as an attachment, and shall include the following items:

1. Cover letter;
2. Summary of exceedances and recommendations;
3. Ground water contour maps;
4. Chain of custody forms;
5. Water levels, water elevation table;
6. Ground Water Monitoring Report Certification, using the appropriate Department form;
7. Appropriate sampling information on Form FD 9000-24 (DEP-SOP-001/01); and,
8. Laboratory and Field EDDs that are compatible with ADaPT software and the ADaPT error log(s).

¹ The Department recognizes that many laboratories have been using software called Validator to prepare the water quality data EDDs for solid waste facilities. In the event ADaPT is not available or a laboratory preparing the EDDs has not yet transitioned to ADaPT, then Validator may continue to be used to prepare the EDDs for submittal to the Department. However, the laboratory should transition to ADaPT as soon as possible since at some date in the future Validator will no longer be supported and become obsolete.

The monitoring report shall be sent both to:

Florida Department of Environmental Protection
Northeast District Office
7825 Baymeadows Way, Suite 200B
Jacksonville, Florida 32256

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 format for the Laboratory EDD and the Field EDD are described below. In addition, as explained in Section V, a copy of the Laboratory EDD shall be prepared in Adobe Portable Document Format (PDF) file by the laboratory.

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 conformation 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 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 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 copy² 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 Department's Solid Waste staff at the appropriate District office. The information for the Department's District offices is as follows:

Northwest District Office
160 Governmental Center, Room 308
Pensacola, Florida 32502
(850) 595-8300

Northeast District Office
7825 Baymeadows Way, Suite 200B
Jacksonville, Florida 32256
(904) 807-3300

Southwest District Office
13051 N. Telecom Parkway
Temple Terrace, Florida 33637
(813) 632-7600

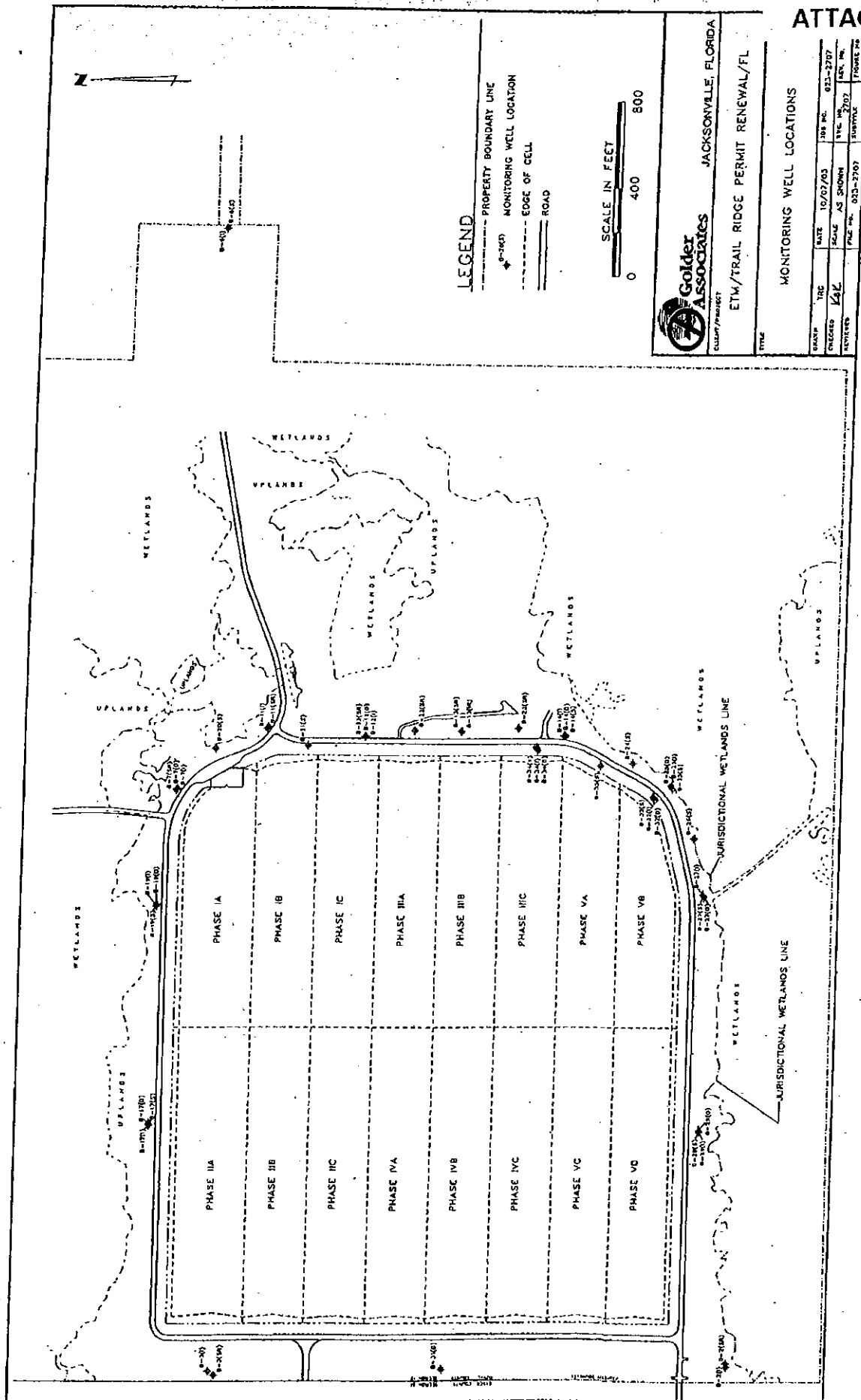
Central District Office
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803
(407) 894-7555

² This would be a read only file.

South District Office
P.O. Box 2549
2295 Victoria Avenue, Suite 364
Fort Myers, Florida 33901
(239) 332-6975

Southeast District Office
400 North Congress Avenue, Suite 200
West Palm Beach, Florida 33401
(561) 681-6600

You can also receive help by contacting Mr. Clark Moore (850-245-8739) or Mr. Lee Martin (850-245-8734) in Tallahassee.



ATTACHMENT 6

SEMI-ANNUAL GROUNDWATER QUALITY PARAMETERS

Field Parameters

Static water level in wells before purging
Specific conductivity
pH
Dissolved oxygen
Turbidity
Temperature
Colors and sheens (by observation)

Laboratory Parameters

Total ammonia - N
Chlorides
Iron
Mercury
Nitrate
Sodium
Total Dissolved Solids (TDS)
Those parameters listed in
40 CFR Part 258 Appendix I

ATTACHMENT 7

INITIAL BACKGROUND GROUNDWATER QUALITY PARAMETERS

Field Parameters

Static water level in wells before purging
Specific conductivity
pH
Dissolved oxygen
Turbidity
Temperature
Colors and sheens (by observation)


Laboratory Parameters

Total ammonia - N
Chlorides
Iron
Mercury
Nitrate
Sodium
Total Dissolved Solids (TDS)
Those parameters listed in
40 CFR Part 258 Appendices I and II

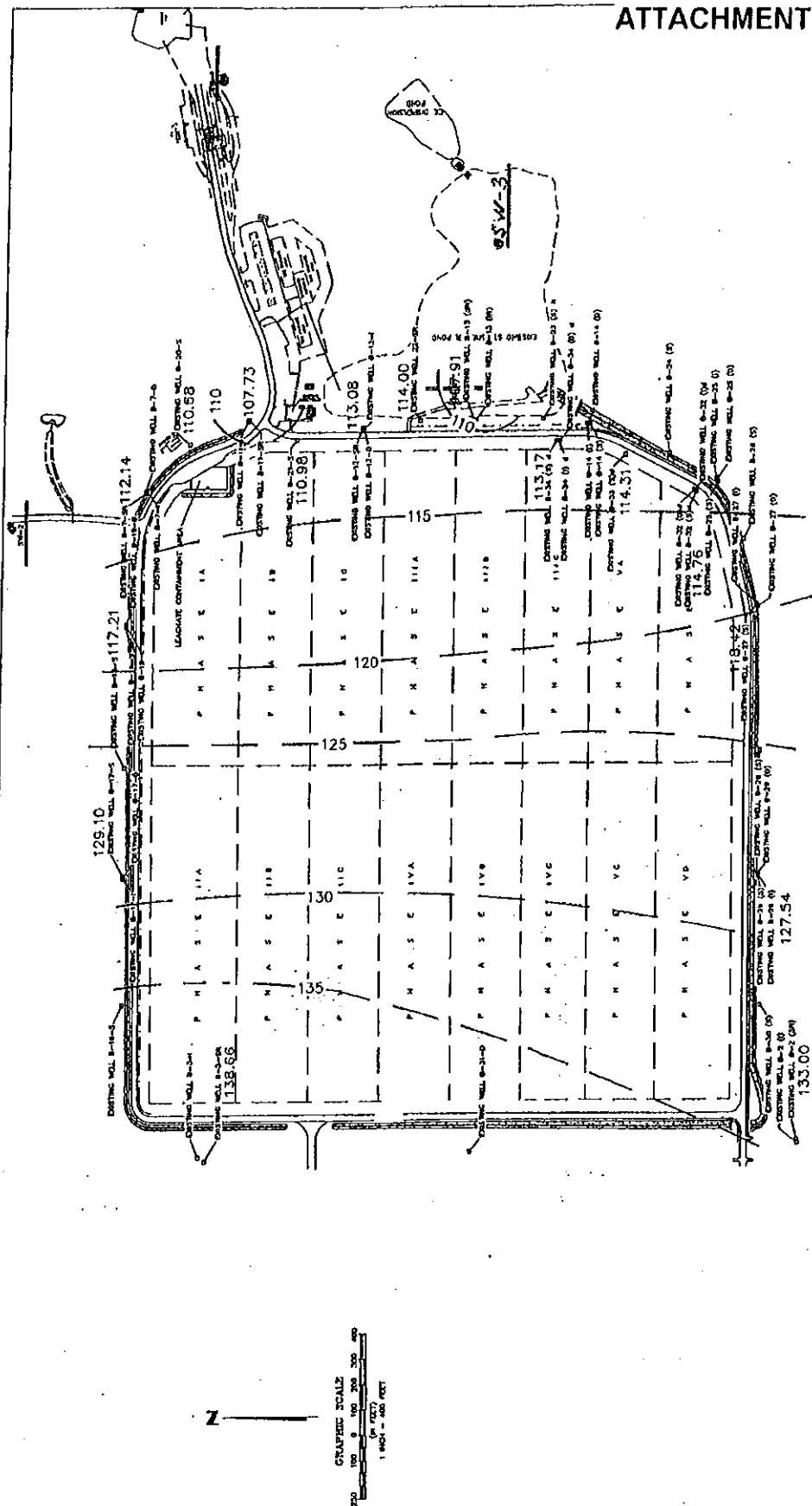
ATTACHMENT 8

DATE	SEPT 07
FIGURE	FIG. 1

GROUNDWATER CONTOUR MAP
SHALLOW WELLS
TRAIL RIDGE LANDFILL
MEASUREMENT DATE: JULY 11, 2007



HDR
 HDR ENGINEERING, INC.
 200 N. JEFFERSON ST.
 SUITE 400
 JACKSONVILLE, FL 32202
 (904) 444-4444



ATTACHMENT 9

SURFACE WATER MONITORING PARAMETERS

Field Parameters

Specific conductivity
pH
Dissolved oxygen
Turbidity
Temperature
Colors and sheens (by observation)

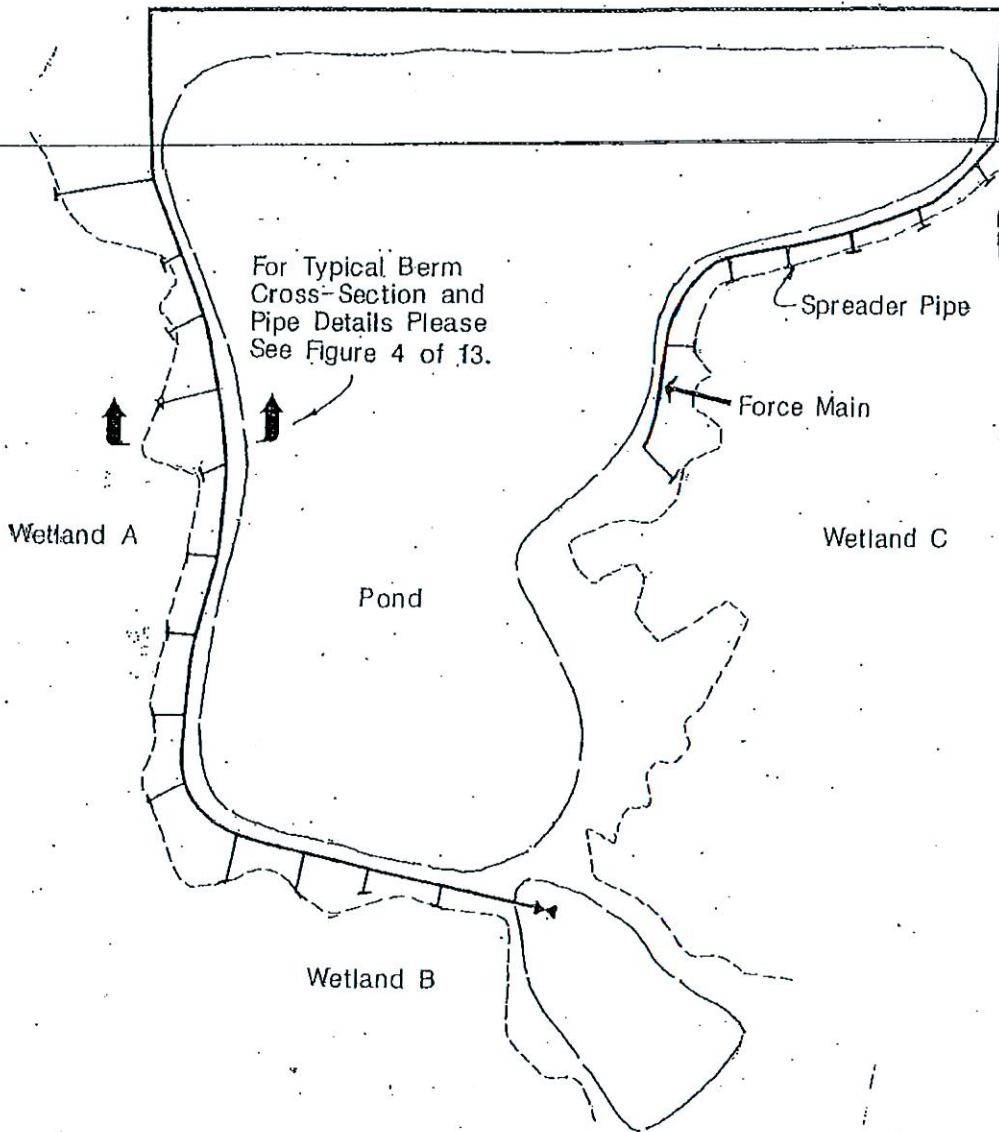
Laboratory Parameters

Unionized ammonia
Total hardness (as mg/L CaCO₃)
Biochemical oxygen demand (BOD₅)
Iron
Mercury
Nitrate
Total dissolved solids (TDS)
Total organic carbon (TOC)
Fecal Coliform
Total phosphorus (as mg/L P)
Chlorophyll A
Total nitrogen
Chemical oxygen demand (COD)
Total suspended solids (TSS)
Those parameters listed in
40 CFR Part 258 Appendix I



ENVIRONMENTAL
SERVICES, INC.

Trail Ridge Landfill
Jacksonville, Florida



Detailed Plan View of
Wetland Irrigation System

Project No. EJO2131.00

Date September 2002

Figure No. 3



ATTACHMENT 11

ANNUAL LEACHATE QUALITY PARAMETERS

Field Parameters

Specific conductivity
pH
Dissolved oxygen
Colors and sheens (by observation)
Temperature

Laboratory Parameters

Total ammonia - N
Total alkalinity (as mg/L CaCO₃)
Chlorides
Iron
Mercury
Nitrate
Sodium
Total Dissolved Solids (TDS)
Biochemical oxygen demand (BOD₅)
Chemical oxygen demand (COD)
Those parameters listed in
40 CFR Part 258 Appendix II