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England-Thims & Miller, Inc.

ENGINEERS • PLANNERS • SURVEYORS • GIS • LANDSCAPE ARCHITECTS

ENVIRONMENTAL

2003 MAY 21 P 2:11

NORTHEAST DIST
JACKSONVILLE

May 19, 2003

Principals

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Douglas C. Miller, P.E., President
N. Hugh Mathews, P.E., Exec., V.P.
Joseph A. Tarver, Exec., V.P.
Juanitta Bader Clem, P.E., V.P.
Scott A. Wild, P.E., PSM, V.P.
Samuel R. Crissinger, CPA, V.P.
Robert A. Mizell, Jr., P.E., V.P.
Bryan R. Stewart, V.P.

Mr. Ken Kohn, P.E.
Industrial Waste Section
Florida Department of Environmental Protection
7825 Baymeadows Way, Suite 200B
Jacksonville, Florida 32256

Reference: Trail Ridge Landfill - Annual Stormwater Pond Inspection
Permit No. 0013493-002-SC
ET&M No. E98-34

NORTHEAST DISTRICT
JACKSONVILLE, FL

2003 MAY 21 P 2:11

STATE OF FLORIDA
DEPARTMENT OF
ENVIRONMENTAL
PROTECTION

Dear Mr. Kohn:

In accordance with Specific Condition No. 49 2.B.(1)a. of the referenced permit for the Trail Ridge Landfill, the annual inspection of the stormwater treatment facility (a wet detention pond) has been conducted and the pond has been found to be operating in accordance with the permitted design. Please see the attached inspection report, which has been signed and sealed in accordance with the specific condition.

If you have any questions, please do not hesitate to give me a call.

Sincerely,

ENGLAND, THIMS & MILLER, INC.

Juanitta Bader Clem, P.E.
Vice President

Attachment

cc: Greg Mathes, General Manager, Trail Ridge Landfill
Chris Pearson, City of Jacksonville
Mary Nogas, Solid Waste Section, FDEP

ENGLAND-THIMS & MILLER, INC.

Consulting & Design Engineers
14775 St. Augustine Road
Jacksonville, Florida 32258

TRAIL RIDGE LANDFILL ANNUAL STORMWATER POND INSPECTION

Attendees: Jimmy Purvis – Trail Ridge Landfill, Inc.
David Durham – Trail Ridge Landfill, Inc.
William McDonald – Trail Ridge Landfill, Inc.
Juanitta Clem – England-Thims & Miller, Inc.
Adrian Delaney – England-Thims & Miller, Inc.

Reference: Trail Ridge Landfill
ET&M Project No. 98-34

Date: May 15, 2003

Weather: Partly Cloudy and Warm

The stormwater pond at Trail Ridge Landfill was reviewed and it was determined that the pond is low due to the dry weather. The operator is going to take the opportunity with the low conditions to conduct some maintenance at the inlet points to the pond.

The permitted discharge rate for this wet detention pond is between 2.11 CFS (947 GPM) and 2.50 CFS (1,122 GPM). Based upon the wet well size (8' x 8' or 478.7 Gallons/Foot of Depth), the discharge rate into the wet well from the pond should be:

$$947 \text{ GPM} / (478.7 \text{ Gal./Ft.}) = 2.0 \text{ Ft./Min. (Min.)}$$
$$1,122 \text{ GPM} / (478.7 \text{ Gal./Ft.}) = 2.3 \text{ Ft./Min. (Max.)}$$

In order to test the system, the inlet valves in the wet well were set with both valves partially opened (4 complete revolutions on one valve and 5 complete revolutions on the other valve). Then, the flow into the wet well was determined as follows:

| <u>Depth</u> | <u>Time</u> | <u>Rise</u> |
|--------------|-------------|--------------------------------|
| 16.6 | 0 | 0 |
| 16.0 | 30 Sec. | 0.6 |
| 15.4 | 30 Sec. | 0.6 |
| 14.9 | 30 Sec. | 0.5 |
| 14.3 | 30 Sec. | 0.6 |
| 13.8 | 30 Sec. | 0.5 |
| 13.3 | 30 Sec. | 0.5 |
| 12.8 | 30 Sec. | 0.5 |
| 12.3 | 30 Sec. | 0.5 |
| 11.8 | 30 Sec. | 0.5 |
| 11.5 | 30 Sec. | 0.3 |
| 11.2 | 30 Sec. | 0.3 |
| Total | 5.5 Min. | 5.4' = 0.98 Ft./Min. = 470 GPM |

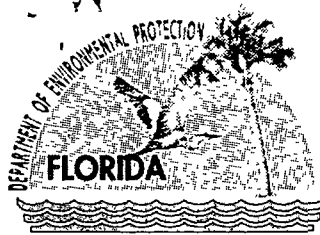
Since the flow rate is below the permitted minimum flow rate of 947 GPM, the valves were both opened further (to 5.5 revolutions). Then, the flow into the wet well was determined as follows:

| <u>Depth</u> | <u>Time</u> | <u>Rise</u> |
|--------------|----------------|-----------------------------------|
| 16.9 | 0 | 0 |
| 18.4 | 30 Sec. | 1.5 |
| 19.6 | 30 Sec. | 1.2 |
| <u>20.4</u> | <u>30 Sec.</u> | <u>0.8</u> |
| Total | 1.5 Min. | 3.5' = 2.33 Ft./Min. or 1,117 GPM |

Since the flow rate of 1,117 GPM is within the permitted range, the discharge rate was deemed acceptable. The inlet valves will be operated in the partially opened position (5.5 complete revolutions).

In conclusion, the stormwater pond is functioning according to the permitted wet detention design.

*Quetta
Bade Cam
May 19, 2003*



Jeb Bush
Governor

Department of Environmental Protection

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

David B. Struhs
Secretary

March 17, 2000

CERTIFIED - RETURN RECEIPT

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

Dear Mr. Mathes:

Trail Ridge Landfill
Modification No. 0013493-005-SC to Permit No. 0013493-002-SC

Your request to modify this permit, consisting of the application for minor permit modification received on February 28, 2000 (DEP File No. 0013493-005, has been reviewed by the Department. The application involved a modification to revise the quality assurance plan for the liner system construction.

This Notice of Modification does not alter the expiration date, the General Conditions, or any Specific Conditions, with the exception of Specific Condition Number 24, as noted below. **This letter must be attached to the original permit.**

Specific Condition Number 24 shall now read as follows.

24. **Fill Phasing Plan.** The sequence of fill operations at the Trail Ridge Landfill shall be in accordance with Drawing Numbers 11 (modified February 28, 2000), 12 (modified February 28, 2000) and 13 of Document 2 and modified page 25 of Document 1 referenced in Specific Condition Number 1.

Since the proposed modification is not expected to result in any adverse environmental impact or water quality degradation, the permit is hereby modified as noted. By copy of this letter, we are notifying all necessary parties of the modification.

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

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

Petitions by the applicant or any of the parties listed below must be filed within 14/21 days of receipt of this written notice. Petitions filed by other persons must be filed within 14/21 days of publication of the notice or receipt of the written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication. The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

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

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action,
- (c) A statement of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
- (d) A statement of all material facts disputed by petitioner or a statement that there are no disputed facts,
- (e) A statement of the ultimate facts alleged, including a statement of the specific facts which the petitioner contends warrants reversal or modification of the Department's action or proposed action,
- (f) A statement of the specific rules or statutes the petitioner contends requires reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

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

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

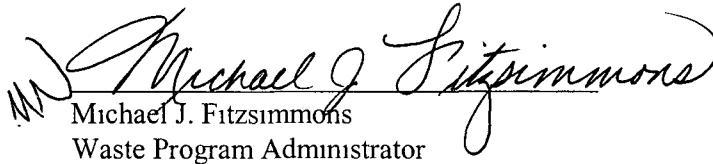
Mediation is not available in this proceeding.

Mr Greg Mathes
March 17, 2000
Page three

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

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

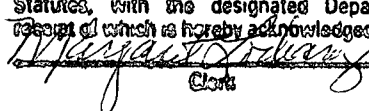

Michael J. Fitzsimmons
Waste Program Administrator

Copies furnished to:

Juanita Bader Clem, P.E., England Thims & Miller, Inc.
Chris Pearson, City of Jacksonville

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT MODIFICATION was mailed by certified mail before the close of business on March 17, 2000.

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to S120 52 Florida
Statutes, with the designated Department Clerk,
receipt of which is hereby acknowledged
 3-17-00
Clerk Date



Jeb Bush
Governor

Department of Environmental Protection

David B. Struhs
Secretary

February 3, 2000

CERTIFIED - RETURN RECEIPT

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

Dear Mr. Mathes:

Trail Ridge Landfill
Modification No. 0013493-004-SC to Permit No. 0013493-002-SC

Your request to modify this permit consisting of the application for minor permit modification received on January 5, 2000 (DEP File No. 0013493-004) and additional information received February 1, 2000, has been reviewed by the Department. The application involved a modification to revise the quality assurance plan for the liner system construction.

This Notice of Modification does not alter the expiration date, the General Conditions, or any Specific Conditions, with the exception of Specific Condition Number 25, as noted below. **This letter must be attached to the original permit.**

Specific Condition Number 15 shall now read as follows:

15. **Landfill Construction Specifications and Certification.** For the phases remaining to be constructed, the bottom liner system shall be constructed in accordance with FAC 62-701, the documents submitted in Specific Condition Number 1 of this permit including the Construction Quality Assurance Manual for the Installation of Liner Systems (Appendix F of Document 1 and Attachment M of Document 4), minor modification application received January 5, 2000, additional information received February 1, 2000, and all applicable Department rules. Following completion of all significant construction activities, the Permittee or authorized representative shall complete and submit to the Department, 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 provide a signed and sealed final construction quality assurance report and record drawings to the Department and shall certify that the liner system has been installed in substantial conformance with the plans and specifications for the liner system. At such time, the Permittee shall arrange for Department representatives to inspect the construction of these phases in the company of the Permittee, Project Engineer and the landfill operator. The facility shall not accept solid waste in a newly constructed phase of the Class I landfill until the Department has notified the Permittee, in writing, that all required documents related to the construction of the liner system, have been submitted and found acceptable.

"More Protection, Less Process"

Printed on recycled paper

Mr. Greg Mathes
February 3, 2000
Page two

Since the proposed modification is not expected to result in any adverse environmental impact or water quality degradation, the permit is hereby modified as noted. By copy of this letter, we are notifying all necessary parties of the modification.

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

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

Petitions by the applicant or any of the parties listed below must be filed within 14/21 days of receipt of this written notice. Petitions filed by other persons must be filed within 14/21 days of publication of the notice or receipt of the written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication. The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

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

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
- (d) A statement of all material facts disputed by petitioner or a statement that there are no disputed facts;
- (e) A statement of the ultimate facts alleged, including a statement of the specific facts which the petitioner contends warrants reversal or modification of the Department's action or proposed action;
- (f) A statement of the specific rules or statutes the petitioner contends requires reversal or modification of the Department's action or proposed action; and

Mr. Greg Mathes
February 3, 2000
Page three

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

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

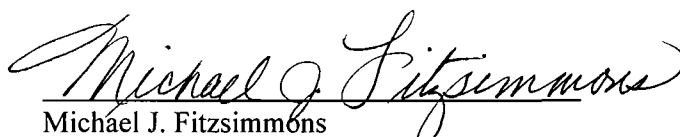
Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of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

Mediation is not available in this proceeding.

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

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

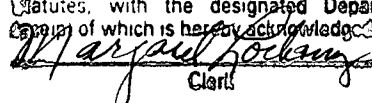

Michael J. Fitzsimmons
Waste Program Administrator

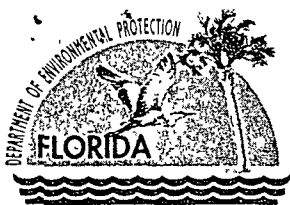
SN
Copies furnished to:

Juanita Bader Clem, P.E., England Thims & Miller, Inc.
Chris Pearson, City of Jacksonville

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT MODIFICATION was mailed by certified mail before the close of business on February 3, 2000.

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

Margaret Lockamy
Clerk
2-3-00
Date



Department of Environmental Protection

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

January 28, 1998

Mr. Greg Maths
General Manager & Division President
Trail Ridge Landfill, Inc.
5110 U.S. Highway 301
Baldwin, Florida 32234 •

Duval County - Stormwater
Modification of the Stormwater System
Permit No. MS16-296691 to Solid Waste
Permit No. SC16-184444

Dear Mr. Maths:

On January 26, 1998, the Department conducted an inspection of the stormwater system located adjacent to the Trail Ridge Landfill. After reviewing the as-built plan submitted to the Department along with the review of the permit and associated construction plans and calculations, the Department finds that the constructed modification of the stormwater system is in compliance with Chapter 373, Florida Statutes, Chapters 40C-4 and 40C-42, F.A.C.

It is the Department's understanding that the permit will now move into the operational phase with Trail Ridge Landfill, Inc. being the responsible entity for the operation and maintenance of the stormwater system. It is the responsibility of Trail Ridge Landfill, Inc. to meet all conditions of the permit and provide information on monitoring to the Department as required by the permit. This information is to be submitted to the stormwater engineer.

If you have any questions, please feel free to call me at (904) 448-4340, extension 345.

Sincerely,

Reza Shayan, E.I.
Stormwater Compliance Engineer

RS/lgb

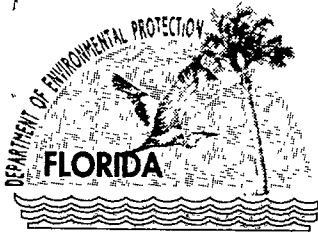
cc: Juanita Bader-Clem, P.E.

Jeremy Tyler

David Apple

Mary Nogas

"Protect, Conserve and Manage Florida's Environment and Natural Resources"



Jeb Bush
Governor

Department of Environmental Protection

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

David B. Struhs
Secretary

January 23, 2001

CERTIFIED - RETURN RECEIPT

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

Dear Mr. Mathes:

Trail Ridge Landfill
Modification No. 0013493-007-SC to Permit No. 0013493-002-SC

Your request to modify this permit, consisting of the application for minor permit modification received on January 04, 2001 (DEP File No. 0013493-007), has been reviewed by the Department. The application involved modifying the Fill Phasing Plan.

This Notice of Modification does not alter the expiration date, the General Conditions, or any Specific Conditions, with the exception of Specific Condition Number 24, as noted below. **This letter must be attached to the original permit.**

Specific Condition Number 24 shall now read as follows:

24. **Fill Phasing Plan.** The sequence of fill operations at the Trail Ridge Landfill shall be in accordance with Drawing Numbers 11 (modified January 03, 2001), and 12 (modified January 03, 2001) of Document 2, and modified page 25 of Document 1 referenced in Specific Condition Number 1.

Since the proposed modification is not expected to result in any adverse environmental impact or water quality degradation, the permit is hereby modified as noted. By copy of this letter, we are notifying all necessary parties of the modification.

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

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

"More Protection, Less Process"

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Mr. Greg Mathes
January 23, 2001
Page two

Petitions by the applicant or any of the parties listed below must be filed within 14/21 days of receipt of this written notice. Petitions filed by other persons must be filed within 14/21 days of publication of the notice or receipt of the written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication. The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

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

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department File Number and the county in which the project is proposed,
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
- (d) A statement of all material facts disputed by petitioner or a statement that there are no disputed facts;
- (e) A statement of the ultimate facts alleged, including a statement of the specific facts which the petitioner contends warrants reversal or modification of the Department's action or proposed action;
- (f) A statement of the specific rules or statutes the petitioner contends requires reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

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

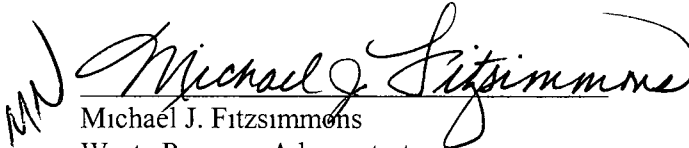
Mediation is not available in this proceeding.

Mr. Greg Mathes
January 23, 2001
Page three

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

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

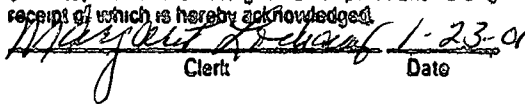

Michael J. Fitzsimmons
Waste Program Administrator

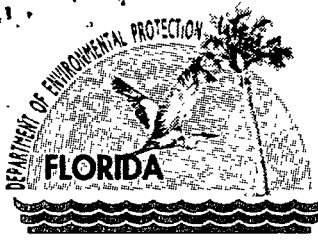
Copies furnished to:

Juanita Bader Clem, P.E., England Thims & Miller, Inc.
Chris Pearson, City of Jacksonville

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT MODIFICATION was mailed by certified mail before the close of business on January 23, 2001.

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

Clerk Date



Jeb Bush
Governor

Department of Environmental Protection

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

David B. Struhs
Secretary

December 4, 2001

CERTIFIED - RETURN RECEIPT

Greg Mathes
General Manager
Trail Ridge Landfill, Inc.
5110 U.S. Highway 301
Baldwin, Florida 32234

Dear Mr. Mathes.

Trail Ridge Landfill
Modification No. 0013493-009 to Permit No. 0013493-002-SC

Your request to modify this permit, consisting of the application for minor permit modification received on November 16, 2001 (DEP File No. 0013493-009), has been reviewed by the Department. The application involved modifying the Fill Phasing Plan with the addition of Fill Phases 6A and 6B.

This Notice of Modification does not alter the expiration date, the General Conditions, or any Specific Conditions, with the exception of Specific Condition Number 24, as noted below. **This letter must be attached to the original permit.**

Specific Condition Number 24 shall now read as follows:

24. Fill Phasing Plan. The sequence of fill operations at the Trail Ridge Landfill shall be in accordance with Drawing Numbers 11 (modified January 03, 2001), 12 (modified November 16, 2001), and 13 (modified November 16, 2001) of Document 2, and modified page 25 of Document 1 referenced in Specific Condition Number 1.

Since the proposed modification is not expected to result in any adverse environmental impact or water quality degradation, the permit is hereby modified as noted. By copy of this letter, we are notifying all necessary parties of the modification.

This Notice of Modification is final and effective on the date filed with the Clerk of the Department unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

"More Protection, Less Process"

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Mr Greg Mathes
December 04, 2001
Page two

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

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

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
- (d) A statement of all material facts disputed by petitioner or a statement that there are no disputed facts;
- A statement of the ultimate facts alleged, including a statement of the specific facts which the petitioner contends warrants reversal or modification of the Department's action or proposed action;
- (f) A statement of the specific rules or statutes the petitioner contends requires reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

Mr. Greg Mathes

Mr. Greg Mathes
December 04, 2001
Page three

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


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


Mediation is not available in this proceeding.

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

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

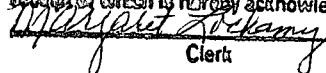

Michael J. Fitzsimmons
Waste Program Administrator

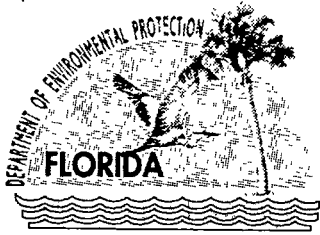

Copies furnished to:

Francis D. Dayao, P.E., England Thims & Miller, Inc.
Chris Pearson, City of Jacksonville

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT MODIFICATION was mailed by certified mail before the close of business on December 04, 2001.

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

Clerk Date 12-4-01



Jeb Bush
Governor

Department of Environmental Protection

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

David B. Struhs
Secretary

October 10, 2000

CERTIFIED - RETURN RECEIPT

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

Dear Mr. Mathes:

Trail Ridge Landfill-Duval County
Modification No. 0013493-006 to Permit No. 0013493-002-SC

Your request to modify this permit, consisting of the application for minor permit modification received on September 15, 2000 (DEP File No. 0013493-006), has been reviewed by the Department. The application involves a modification to revise a maximum daily tonnage of 3500 tons to a maximum daily tonnage of 5000 tons. The application for permit modification also includes information regarding the equipment and personnel required for this increase in waste receipt.

This Notice of Modification does not alter the expiration date, the General Conditions, or any Specific Conditions, with the exception of Specific Condition Numbers 20, 21, 23, as noted below. **This letter must be attached to the original permit.**

Specific Condition Number 20 shall now read as follows.

- 20 **Maximum Daily Tonnage.** The facility shall not accept more than 5000 tons of solid waste on any working day.

Specific Condition Number 21 shall now read as follows:

- 21 **Operating Personnel.** As required by FAC Rule 62-701.500(1), all Class I landfills shall have at least one (1) trained operator at the landfill during all times when the landfill receives waste. Trained operators are those who have satisfied the requirements of Chapter 62-701, FAC. All Class I landfills shall have at least one (1) spotter at the working face at all times when the landfill receives waste to detect unauthorized waste. The personnel present at the working face shall include four spotters and three equipment operators. During peak operating hours, the facility shall have an additional spotter and an additional equipment operator at the working face.

Mr. Greg Mathes
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Specific Condition Number 23 shall now read as follows:

23. **Landfill Equipment.** The facility shall maintain onsite, at a minimum, the equipment listed in Addendum "Equipment," provided in the Permit Application for minor modification received on September 15, 2000. The list includes, but not limited to, refuse placement/compaction equipment: two 826C compactors, two 836F compactors, D8N Dozer; a cover soil placement and transport: EL300B Excavator, two D-400E Articulating Dump Trucks, A30 Articulating Dump Truck, two D-6H L.G.P. Dozers, supplemental equipment: 12 G Road Grader, 623 Water Truck, IT-28. The lighting equipment for non-daylight operation shall be at the site at all times to ensure proper operation of the landfill. If the waste receipt rate exceeds 1300 tons per day, the Permittee shall provide two (2) compactors at the working face; if the waste receipt rate exceeds 2600 tons per day, three (3) compactors shall be provided at the working face; if the waste receipt rate exceeds 3900 tons per day, four (4) compactors shall be provided at the working face. The Permittee shall ensure that sufficient reserve equipment is available or arrangements have been made to obtain additional equipment within 24 hours of equipment breakdown.

Since the proposed modification is not expected to result in any adverse environmental impact or water quality degradation, the permit is hereby modified as noted. By copy of this letter, we are notifying all necessary parties of the modification.

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

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

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

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

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department File Number and the county in which the project is proposed;

Mr Greg Mathes
October 10, 2000
Page three

- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
- (d) A statement of all material facts disputed by petitioner or a statement that there are no disputed facts;
- (e) A statement of the ultimate facts alleged, including a statement of the specific facts which the petitioner contends warrants reversal or modification of the Department's action or proposed action;
- (f) A statement of the specific rules or statutes the petitioner contends requires reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

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

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

Mediation is not available in this proceeding

Any party to this order has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110, Florida Rules of Appellate Procedure, with the clerk of the Department in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the

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October 10, 2000
Page four

applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

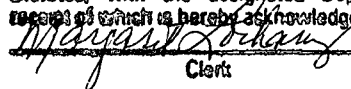

Michael J. Fitzsimmons
Waste Program Administrator

Copies furnished to:

Juanita Bader Clem, P. E., England Thims & Miller, Inc.
Chris Pearson, City of Jacksonville

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT MODIFICATION was mailed by certified mail before the close of business on October 10, 2000

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to §120.52 Florida
Statutes, with the designated Department Clerk,
receipt of which is hereby acknowledged.
 10-10-00
Clerk Date



Department of Environmental Protection

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

March 26, 1998

CERTIFIED - RETURN RECEIPT

Mr. Greg Mathes
Division President and General Manager
Trail Ridge Landfill, Inc
5110 U S Highway 301
Baldwin, Florida 32234

Dear Mr. Mathes:

Trail Ridge Landfill - Duval County
Modification No. 00139493-003 of Issued Permit No. 0013493-002-SC

Your request to modify Permit Number 0013493-002-SC, to modify the management of leachate collected at the Class I landfill, to allow for the recirculation of leachate at the facility's active working face area, has been reviewed by the Department and the Department does not object to the request. The application for permit modification consisted of the following documents:

1. Request for Minor Permit Modification - Leachate Management, including an application form, dated December 23, 1997, prepared by England-Thims, and Miller, Inc., signed and sealed by Juanitta Bader Clem, P.E., received December 23, 1997.
2. Response to Request for Additional Information, "Leachate Recirculation," dated February 6, 1998, prepared by England-Thims, and Miller, Inc., signed and sealed by Juanitta Bader Clem, P.E., received February 9, 1998.
3. Response to Request for Additional Information, "Request for Permit Minor Modification," dated March 11, 1998, prepared by England-Thims, and Miller, Inc., signed and sealed by Juanitta Bader Clem, P.E., received March 12, 1998.

This Notice of Modification does not alter the expiration date, the General Conditions or Specific Conditions, with the exception of alteration to Specific Condition Number 43, specifically 43 b, c, and h, as noted below, or monitoring requirements of the permit, unless so indicated specifically in this modification. **This letter must be attached to the original permit.**

Specific Condition Number 43 shall now read as follows:

43. Leachate Management.

- a Leachate shall be managed in accordance with FAC Rule 62-701.500(8) and the applicable information submitted in the references listed in Specific Condition No. 1.
- b The quantity of leachate collected from the leachate collection and removal system (LCRS) and the leachate detection system (LDS) shall be recorded in gallons on a daily basis, except on days when the facility is not operating. The Permittee shall maintain a recording rain gauge and shall compare the recorded precipitation rates to the leachate generation rates. Leachate generation reports shall be compiled monthly and submitted to the Department by January 15, April 15, July 15 and October 15 of each year. Leachate generation reports shall include the daily precipitation amounts, the quantities of leachate collected from the LCRS and LDS, the amount of leachate recirculated, and the amount transported to the wastewater treatment facility.
- c Leachate collected from the landfill that is not recirculated, shall be transported to the Buckman Street Wastewater Treatment Facility. The owner or operator shall obtain approval from the Department prior to disposing leachate to another wastewater treatment facility.
- d The overflow 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 the Department upon request for the lifetime of the liquid storage system.
- e 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 FAC Rule 62-730.160. The sludge and solids shall be disposed of in a permitted facility, based on the results of the testing performed.
- f The Permittee shall perform routine maintenance of the leachate collection and removal system and all associated structures, to ensure proper operation of the system.
- g The Permittee shall, in an appropriate manner, clean out the leachate collection system if and when obvious signs of obstruction(s) are exhibited.

- h The facility may recirculate leachate at the facility. Leachate recirculation activities shall be implemented in accordance with the aforementioned documents numbered as 1, 2, and 3, FAC Chapter 62-701 and as modified by these conditions
- (1) **Location.** Leachate may only be recirculated at the active working face and in areas that have a minimum of fifteen (15) feet of in-place compacted waste. The facility shall spray the leachate in a manner to not allow it to spray outside the active working face area. Leachate shall not be recirculated on exterior sideslopes
 - (2) **Maximum Allowable Amount.** The facility shall not recirculate more than 37,826 gallons of leachate at the facility on any one day. Nor shall the facility spray leachate to the point of saturation.
 - (3) **Records.** The facility shall keep and maintain records of the leachate recirculation events. The following information shall be recorded at a minimum: the amount recirculated in gallons each day; the amount of time of the recirculation activity; the date of recirculation; the weather conditions at time of recirculation; a statement of any problems; and who supervised the recirculation activity. This information shall be kept at the landfill office and shall be made available to the Department upon request.
 - (4) **Inspections and maintenance of structures.** All clamps, hoses, flow meters and structures associated with the leachate recirculation activity shall be maintained and inspected on a weekly basis and prior to each recirculation event, at a minimum
 - (5) **Non-authorized.** Leachate being recirculated shall not be allowed to run off or pond. If necessary, berms or other such structures shall be constructed to prevent leachate runoff. Also, initial cover shall be permeable to the extent necessary to prevent perched water conditions and gas buildup

Since the proposed modification is not expected to result in any adverse environmental impact or water quality degradation, the permit is hereby modified as noted. By copy of this letter, we are notifying all necessary parties of the modification.

The Department will issue the permit modification with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to Sections 120.569 and 120.57 of the Florida Statutes, or all parties reach a written agreement on mediation as an alternative remedy under Section 120.573 before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for petitioning for a hearing are set forth below, followed by the procedures for pursuing mediation

Mr. Greg Mathes
March 26, 1998
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A person whose substantial interests are affected by this modification may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard MS #35, Tallahassee, Florida 32399-3000, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes

The Petition shall contain the following information;

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

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes, 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, Florida Administrative Code. When the Order (Permit) is final, any party

Mr. Greg Mathes
March 26, 1998
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to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, MS #35, Tallahassee, Florida 32300-3000; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department. Any person may elect to pursue mediation by reaching a mediation agreement with all parties to the proceeding (which include the applicant, the Department, and any person who has filed a timely and sufficient petition for a hearing) and by showing how the substantial interests of each mediating party are affected by the Department's action or proposed action. The agreement must be filed in (received by) the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, by the same deadline as set forth above for the filing of a petition.

The agreement to mediate must include the following:

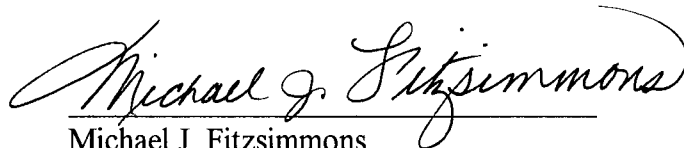
- (a) The names, addresses, and telephone numbers of any persons who may attend the mediation;
- (b) The name, address, and telephone number of the mediator selected by the parties, or a provision for selecting a mediator within a specified time;
- (c) The agreed allocation of the costs and fees associated with the mediation;
- (d) The agreement of the parties on the confidentiality of discussions and documents introduced during mediation;
- (e) The date, time, and place of the first mediation session, or a deadline for holding the first session, if no mediator has yet been chosen;
- (f) The name of each party's representative who shall have authority to settle or recommend settlement;
- (g) Either an explanation of how the substantial interests of each mediating party will be affected by the action or proposed action addressed in this notice of permit or a statement clearly identifying the petition for hearing that each party has already filed, and incorporating it by reference; and
- (h) The signatures of all parties or their authorized representatives.

Mr. Greg Mathes
March 26, 1998
Page six

As provided in Section 120.573 of the Florida Statutes, the timely agreement of all parties to mediate will toll the time limitations imposed by Sections 120.569 and 120.57 for requesting and holding an administrative hearing. Unless otherwise agreed by the parties, the mediation must be concluded within sixty days of the execution of the agreement. If mediation results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. Persons whose substantial interests will be affected by such a modified final decision of the Department have a right to petition for a hearing only in accordance with the requirements for such petitions set forth above, and must therefore file their petitions within fourteen days of receipt of this notice of permit modification. If mediation terminates without settlement of the dispute, the Department shall notify all parties, in writing, that the administrative hearing processes under Sections 120.569 and 120.57 remain available for disposition of the dispute, and the notice will specify the deadlines that will then apply for challenging the agency action and electing remedies under those two statutes.

Executed in Jacksonville, Florida

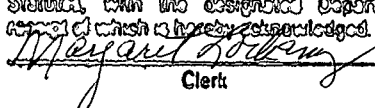
STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

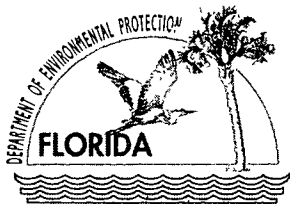


Michael J. Fitzsimmons
Environmental Administrator-DEP
Northeast District
7825 Baymeadows Way, Suite B-200
Jacksonville, Florida 32256-7590
(904)448-4320

MN

cc: Juanitta Clem, P. E

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to §120.52, Florida
Statutes, with the designated Department Clerk,
of which is hereby acknowledged.
 3-26-98
Clerk Date



Department of Environmental Protection

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

NOTICE OF PERMIT ISSUANCE

CERTIFIED - RETURN RECEIPT

November 25, 1997

In the Matter of an
Application for Permit by

Duval County
DEP File Number 0013493-001 and
0013493-002

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

Enclosed is Permit Number 0013493-002-SC to continue to construct and operate the Trail Ridge Class I Landfill, issued pursuant to Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-3, 62-4, and 62-701.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, MS #35, Tallahassee, Florida 32399-3000, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed,

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action,

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of the material facts disputed by Petitioner, if any,

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

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

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

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

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above 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. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, MS #35, Tallahassee, Florida 32399-3000, and by filing a copy of the Notice of Appeal accompanied by the applicable filing

fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department

Any person may elect to pursue mediation by reaching a mediation agreement with all parties to the proceeding (which include the applicant, the Department, and any person who has filed a timely and sufficient petition for a hearing) and by showing how the substantial interests of each mediating party are affected by the Department's action or proposed action. The agreement must be filed in (received by) the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, by the same deadline as set forth above for the filing of a petition.

The agreement to mediate must include the following:

- (a) The names, addresses, and telephone numbers of any persons who may attend the mediation,
- (b) The name, address, and telephone number of the mediator selected by the parties, or a provision for selecting a mediator within a specified time,
- (c) The agreed allocation of the costs and fees associated with the mediation,
- (d) The agreement of the parties on the confidentiality of discussions and documents introduced during mediation,
- (e) The date, time, and place of the first mediation session, or a deadline for holding the first session, if no mediator has yet been chosen;
- (f) The name of each party's representative who shall have authority to settle or recommend settlement, and
- (g) Either an explanation of how the substantial interests of each mediating party will be affected by the action or proposed action addressed in this notice of permit or a statement clearly identifying the petition for hearing that each party has already filed, and incorporating it by reference.
- (h) The signatures of all parties or their authorized representatives.

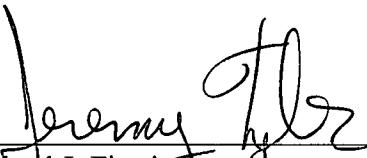
As provided in Section 120.573 of the Florida Statutes, the timely agreement of all parties to mediate will toll the time limitations imposed by Sections 120 569 and 120 57 for requesting and holding an administrative hearing Unless otherwise agreed by the parties, the mediation must be

Notice of Permit Issuance
November 25, 1997
Page four

concluded within sixty (60) days of the execution of the agreement. If mediation results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. Persons whose substantial interests will be affected by such a modified final decision of the Department have a right to petition for a hearing only in accordance with the requirements for such petitions set forth above, and must therefore file their petitions within fourteen days of receipt of this notice of permit. If mediation terminates without settlement of the dispute, the Department shall notify all parties, in writing, that the administrative hearing processes under Sections 120.569 and 120.57 remain available for disposition of the dispute, and the notice will specify the deadlines that then will apply for challenging the agency action and electing remedies under those two statutes.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



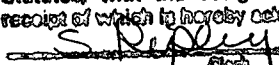
Michael J. Fitzsimmons
Environmental Administrator-DEP
Northeast District
7825 Baymeadows Way, Suite B-200
Jacksonville, Florida 32256-7590
(904)448-4320

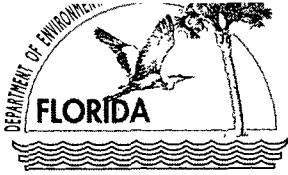
CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE was mailed by certified mail before the close of business on November 25, 1997

Copy furnished to

Juanitta Bader Clem, P. E., England - Thims and Miller, Inc

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to §120.52 (9), Florida
Statutes, with the designated Department Clerk,
receipt of which is hereby acknowledged.
 11-25-97
[unclear]



Department of Environmental Protection

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

PERMITTEE

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

I. D Number: GMS3116P02787
Permit Number: 0013493-002-SC
Date of Issue: November 25, 1997
Expiration Date: November 25, 2002
Lat/Long: 30°14'00"/82°02'30"
Section/Town/Range: 18,19,20,21/3S/23E
Project: Trail Ridge Landfill - Class I
Construction and Operation - Renewal of Permit
No. SC16-184444

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code (FAC) Chapters 62-3, 62-4, 62-25, 62-522, 62-550 and 62-701. The above-named Permittee is hereby authorized to perform the work or maintain the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the Department and made a part hereof, and specifically described as follows.

To operate and construct a municipal solid waste Class I landfill, referred to as the Trail Ridge Landfill. The Trail Ridge Landfill has a total disposal area of approximately 153 acres, of which 91 acres has been lined and 62 acres are still left to be lined. This permit also authorizes the Permittee to construct and operate an active gas collection system and a waste tire processing facility.

The facility design includes wetland mitigation, a surface water management system, groundwater and methane gas monitoring systems.

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

This permit is issued in accordance with the permit application received October 28, 1996 and additional information received November 19, 1996, February 27, 1997, April 24, 1997 and October 9, 1997 and includes Department File Numbers 0013493-001 and 0013493-002.

GENERAL CONDITIONS

- 1 The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the Permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The Permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the Permittee, its agents, employees, servants, or representatives.
- 2 This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.
- 3 As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor 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 does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the 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, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the Permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.
- 6 The Permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or 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.
- 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, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of

GENERAL CONDITIONS.

- a Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules

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

- 8 If, for any reason, the Permittee does not comply with, or will be unable to comply with, any condition or limitation specified in this permit, the Permittee shall immediately notify and provide the department with the following information
 - a A description of and cause of non-compliance, and
 - b The period of non-compliance, including exact dates and times, or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance

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

- 9 In accepting this permit, the Permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes
- 10 The Permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided however, the Permittee does not waive any other rights granted by Florida Statutes or department rules.
- 11 This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 62-4.12 and 62-730.300, as applicable. The Permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the department.
- 12 This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation

GENERAL CONDITIONS:

13. This permit also constitutes:

- ☐ Determination of Best Available Control Technology (BACT)
- ☐ Determination of Prevention of Significant Deterioration (PSD)
- ☒ 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 monitoring and record keeping requirements

- a Upon request, the Permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action
- b The Permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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
 - the date, exact place, and time of sampling or measurements,
 - the person responsible for performing the sampling or measurements,
 - the date(s) analyses were performed;
 - the person responsible for performing the analyses,
 - the analytical techniques or methods used, and
 - the results of such analyses

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

SPECIFIC CONDITIONS:

1. The Trail Ridge Landfill shall be constructed, operated and maintained in accordance with this permit and all applicable requirements of Chapters 62-3, 62-4, 62-25, 62-28, 62-522, 62-550, 62-701, 62-703 and 62-730 Florida Administrative Code (FAC) and the following documents submitted in support of Department File Numbers 0013493-001 and 0013493-002 (formerly File Numbers 286904 and 286905):
 - a. **Document 1** - “Permit Documents for Trail Ridge Landfill - Operation and Construction Renewal,” prepared by England-Thims and Miller, Inc , dated October 28, 1996, signed and sealed by Juanitta Bader Clem, P. E., received on October 28, 1996;
 - b. **Document 2** - “Trail Ridge Landfill Permit Renewal for Trail Ridge Landfill, Inc ,” drawings dated October 28, 1997, prepared by England-Thims and Miller, Inc , signed and sealed by Juanitta Bader Clem, P. E., received on October 28, 1996;
 - c. **Document 3** - “Trail Ridge Landfill - Landfill Gas Management System Design and Engineering Calculations,” dated November 1996, prepared by Rust Environment and Infrastructure, signed and sealed by Thomas M Yanoschak, P E , received November 19, 1996, and Corrected Drawing Number P1 received October 9, 1997, signed and sealed by Thomas M Yanoschak, P E
 - d. **Document 4** - “Permit Documents for Trail Ridge Landfill - Request for Additional Information (RAI) Response,” submitted by England-Thims and Miller, Inc , dated and received on February 27, 1997;
 - e. **Document 5** - “Response to the Department’s March 28 RAI,” received on April 24, 1997, prepared by England-Thims and Miller, Inc Document 6 - “Response to Comments,” received on April 24, 1997, prepared by Golder Associates, Inc , and
 - f. **Document 6** - “Response to Review Memorandum - Proposed Active Gas Collection System,” received on April 24, 1997, prepared by Rust Environmental and Infrastructure, Inc

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

2. A copy of the Department approved engineering drawings, plans, reports, operation and contingency plans and all revisions and supporting information, as well as a copy of this permit, shall be kept at the landfill office at all times for reference and inspections
3. **Applicable Permits.** Receipt of any permits from the Department does not relieve the applicant from obtaining other federal, state, and local permits required by law including those of the St Johns River Water Management District

SPECIFIC CONDITIONS:

- 4 **Other Regulatory Requirements.** If any other regulatory agency should require revisions or modification to the permitted project, the Department is to be notified of the revisions or modifications so that a determination can be made as to whether or not a permit modification is required.
- 5 **Permit Renewal.** Pursuant to FAC Rule 62-4.090, no later than sixty (60) days before the expiration of this construction and operation permit, the Permittee shall apply for a renewal of the permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules. Permits shall be renewed at least every five (5) years as required by FAC Rule 62-701.330(3).
- 6 **Transfer of Permit.** The Department must be notified, in writing, using Department Form 62-1.201(1), within thirty (30) days of any sale, conveyance, or other transfer of the facility or within thirty (30) days of any transfer of ownership or control of the real property at which the facility is located. All transfers of ownership or transfers of a permit are subject to the requirements of FAC Chapter 62-4.
- 7 **Notification in Case of an Emergency.** The Permittee shall immediately notify the Department by telephone whenever a serious problem occurs at the facility, including a fire or other emergency that poses an unanticipated threat to the public health or the environment. During regular business hours, notification shall be made to the Northeast District Office at (904) 448-4320. If an emergency occurs outside regular business hours, the Permittee shall telephone the 24-hour emergency phone number (904) 488-1320. This number is for emergencies only. Within seven (7) days of any emergency, the Permittee shall submit to the Department, a written report explaining the extent of the problem, the cause, and what actions have been or will be taken to correct the problem, or prevent its recurrence.
- 8 **Provision of Temporary Source of Potable Water.** The Permittee shall provide a temporary source of potable water within seven (7) days and a permanent safe drinking water supply within 180 days of discovery of contamination to replace any potable water well that is shown by chemical and hydrogeologic analysis to be contaminated by the Trail Ridge Landfill. This water shall meet all drinking water standards set forth in FAC Chapter 62-550 and shall be provided at the Permittee's expense.
- 9 **Use of Closed Landfill Areas.** Pursuant to FAC Rule 62-701.610(7), the Department retains regulatory control over any activities which may affect the integrity of the environmental protection measures such as the landfill cover, drainage, liners, monitoring system, or leachate and stormwater controls. The Permittee shall consult with the Department prior to conducting any activities on the landfill other than the activities proposed in the permit application.

SPECIFIC CONDITIONS:

- 10 **Financial Assurance.** Pursuant to FAC Rule 62-701.630, the owner or operator of the landfill shall provide and maintain financial assurance for the closure construction and long-term care of the Trail Ridge Landfill. The owner or operator shall file with and submit to the Department, a signed duplicate of the escrow account agreement and an annual audit of the account respectively. The annual audit shall be conducted by an independent Certified Public Accountant and shall be filed no later than December 31 of each year. All submittals in response to this specific condition shall be submitted to: Financial Coordinator, Solid Waste Section, Department of Environmental Protection, Mail Station Number 4565, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.
- 11 **Annual Cost Adjustments for Closure and Long-Term Care.** The owner or operator of the landfill shall submit to the Department's Northeast District Office, annual cost adjustment statements with all necessary justifications, certified by a professional engineer. The closing costs shall be based on the nature and characteristics of the wastes disposed of at the site and shall include costs of cover material, topsoil, seeding, fertilizing, mulching, labor, waste tire disposal and any other costs of compliance with Rules 62-701.600 thru 62-701.610. Closing and long-term care costs shall be listed separately. For owners and operators using an escrow account, this statement shall be submitted between July 1 and September 1 of each year. The annual cost adjustments shall also include, an annual estimate of the remaining life and capacity in cubic yards of the existing permitted landfill.
- 12 **Landfill Final Closure.** At least ninety (90) days prior to the date when waste will no longer be accepted, the Permittee shall submit to the Department, a permit application for final closure of the landfill. The application shall be on Department Form Number DEP Form 62-701.900(1).
- 13 **Design Elevation and Annual Survey.** The maximum design elevation for the Trail Ridge Landfill is elevation 350.6 ft. MSL. This maximum specified elevation shall include the final cover system. A survey of the waste disposal areas shall be conducted by July of each year commencing in 1998, until it is within ten (10) feet of the maximum design elevation, after which, the survey shall be conducted quarterly. This information is to be submitted to the Department within sixty (60) days of conducting the survey and shall include the maximum existing elevations, all points designed for terraces and the location of the toes of the sideslopes.
- 14 **Bottom Liner Design.** The Class I Landfill shall include sixteen (16) phases. Phases IA, IB, IC, IIA, IIB, IIC, IIIA, IIIB, IVA and IVB have already been constructed and have been authorized to accept waste. Phases IIIC, IVC, VA, VB, VC and VD remain to be constructed. The remaining phases, if constructed, shall have a double liner system and shall consist of the following materials, from top to bottom: 24-inch protective soil layer with a minimum permeability of 1×10^{-3} cm/sec, 16 oz geotextile fabric, 20-mil drainage layer (geonet), 60-mil high density polyethylene (HDPE) primary liner, geosynthetic clay liner (bentonite mat); 6 oz geotextile fabric, 20-mil geonet, 60-mil HDPE secondary liner, and a 6-inch compacted subgrade with a maximum saturated hydraulic conductivity of 1×10^{-5} cm/sec. The 60-mil HDPE primary and secondary liners shall have a maximum water vapor transmission rate of $.24 \text{ g/m}^2 \times \text{day}$.

SPECIFIC CONDITIONS:

15. **Landfill Construction Specifications and Certification.** For the phases remaining to be constructed, the bottom liner system shall be constructed in accordance with FAC 62-701, the documents submitted in Specific Condition Number 1 of this permit including the Construction Quality Assurance Manual for the Installation of Liner Systems (Appendix F of Document 1 and Attachment M of Document 4) and all applicable Department rules. Following completion of all significant construction activities, the Permittee or authorized representative shall complete and submit to the Department, 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 provide a signed and sealed final construction quality assurance report and record drawings to the Department and shall certify that the liner system has been installed in substantial conformance with the plans and specifications for the liner system. At such time, the Permittee shall arrange for Department representatives to inspect the construction of these phases in the company of the Permittee, Project Engineer and the landfill operator. The facility shall not accept solid waste in a newly constructed phase of the Class I landfill, until the Department has notified the Permittee, in writing, that all required documents related to the construction of the liner system, have been submitted and found acceptable.
16. **Initial Placement of Waste.** The first layer of waste placed above the liner and leachate collection system shall be a minimum of four (4) feet in compacted thickness and consist of selected waste containing no large rigid objects that may damage the liner or leachate collection system. Initial placement of select waste shall be conducted under the supervision of a quality assurance engineer.
17. **Active Gas Collection System.**
 - a. **Authorization and Permits.** This permit authorizes Trail Ridge Landfill to construct and operate an active gas collection system. However, the Permittee shall be responsible for obtaining all other necessary permits for the construction and operation of the active gas collection system. All requirements of FAC Chapter 62-701, the New Source Performance Standards (NSPS) for Municipal Solid Waste Landfills (40 CFR 60.756), FAC Rule 62-296, 40 CFR 60.18, and all applicable Department regulations, shall apply to the proposed active gas collection system. The active gas collection system and all associated structures and systems shall be constructed in accordance with Documents 3 and 7 (including the revisions to the QA/QC plan for the gravel and the gas well plugs dated May 8, 1997), manufacturer's specifications and standard industry practices. Installation of the active gas collection system will proceed in phases as sections of the landfill are brought up to final grade and elevations or as required by the NSPS for Municipal Solid Waste Landfills. Interim wells may also be installed in areas that have not achieved final grades in order to allow for immediate gas collection. Passive flares, as shown on Drawing Number P6 of Document 3, may be installed over proposed and existing gas wells prior to start up of the active gas collection system.
 - b. **Associated Structures.** The blower, flare station and the 5 condensate knockout units shall be constructed as shown on Drawing Number P1 (Corrected Page) and the Gas Management Plan of Document 3. Upon completion of the active gas collection system, approximately 73 gas extraction wells, which extend approximately 10 feet from the bottom liner system, will 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 and lateral alignment and liquid management facilities may slightly vary to accommodate landfill field slope.

SPECIFIC CONDITION:

- c. **Construction Certification.** Upon completion of the active gas collection system, the Permittee or authorized representative, shall complete and submit to the Department, 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 the Department. At such time, the Permittee shall arrange for Department representatives to inspect the construction of the active gas collection system in the company of the Permittee, Project Engineer and the landfill operator. The active gas collection system shall not be operated until the Department has notified the Permittee, in writing, that all required documents related to the construction have been submitted and determined acceptable.
 - d. **Gas Condensate Testing.** Gas condensate shall be tested semi-annually for Toxicity Characteristics Leaching Procedure (TCLP) parameters with the results submitted to the Department no later than June 30 and December 31 of each year commencing from the year the active gas collection system's construction has been approved by the Department and becomes operational. For each sampling event, a sample shall be taken from the condensate pump station and analyzed. The sampling location may be modified upon obtaining Department approval. Should the results of the TCLP analyses exceed regulatory standards, the Permittee may be required to modify the system to collect and isolate the gas condensate from the landfill's leachate collection system.
 - e. This permit does not authorize gas recovery at the Trail Ridge Landfill.
 - f. During the construction of the active gas collection system in areas where final cover has been installed, i.e., completed side slope units, the Permittee shall ensure that the final cover system is restored back to the original project closure construction specifications. This activities shall be documented and shall be submitted as part of the reporting requirements specified in Specific Condition No. 17 c above.
18. **Landfill Operation Requirements.** The Permittee shall operate the Trail Ridge Landfill in accordance with this permit, FAC Rule 62-701, the documents (unless otherwise specified) referenced in Specific Condition Number 1 of this permit, and all applicable Department rules.
19. **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 6.00 A.M. to 1.00 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. During emergency situations, i.e., after a hurricane, the facility may operate beyond these specified hours; however, the Department shall be notified, at the first available opportunity, of the extended hours. If landfill operations commences 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. The facility's lighting equipment shall be kept and maintained at the site. The Permittee or the landfill operator shall be responsible for ensuring

SPECIFIC CONDITIONS:

that adequate staff to cover all shifts and equipment are available at the facility to maintain proper landfill operations

- 20 **Maximum Daily Tonnage.** The facility shall not accept more than 3500 tons of solid waste on any normal working day, unless authorized by the Department or during emergency situations, in which case, special accommodations are made to handle additional volume of solid waste
21. **Operating Personnel.** As required by FAC Rule 62-701 500(1), all Class I landfills shall have at least one (1) trained operator at the landfill during all times when the landfill receives waste. Trained operators are those who have satisfied the requirements of Chapter 62-703, FAC. All Class I landfills shall have at least one (1) spotter at the working face at all times when the landfill receives waste to detect unauthorized waste. During peak operating hours, at least two (2) spotters shall be provided by the landfill operator at the working face
- 22 **Personnel Training.** Pursuant to FAC Rule 62-701 500(6)(d), inspectors, equipment operators, weigh station attendants and spotters shall be trained to identify unauthorized wastes or potential sources of regulated hazardous wastes. The training program shall emphasize familiarity with containers and labels typically used for hazardous wastes and hazardous materials. Documentation of personnel training shall be provided to the Department upon request.
- 23 **Landfill Equipment.** All equipment listed in Documents 1 (Section VIII, Operation Plan, page 48) and 2 (page 3) and including lighting equipment for non-daylight operation, shall be at the site at all times to ensure proper operation of the landfill. The on-site equipment shall consist of three (3) compactors, dozers, a grader, water wagon and earth moving and lighting equipment. If the waste receipt rate exceeds 1300 tons per day, the Permittee shall provide two (2) compactors at the working face, if the waste receipt rate exceeds 2600 tons per day, three (3) compactors shall be provided at the working face. The Permittee shall ensure that sufficient reserve equipment are available or arrangements to obtain additional equipment within 24 hours of equipment breakdown have been made
- 24 **Fill Phasing Plan.** The sequence of fill operations at the Trail Ridge Landfill shall be in accordance with Drawing Numbers 11, 12 and 13 of Document 2 referenced in Specific Condition Number 1
- 25 **Monitoring of Waste.** Pursuant to FAC 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 consist of the following minimum requirements
 - a The landfill operator shall examine at least three (3) random loads of solid waste delivered at 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

SPECIFIC CONDITIONS:

- b If any unauthorized wastes are found, the facility shall contact the generator, hauler, or other party responsible for shipping the waste to the landfill to determine the identity of the waste resources
26. **Recording Inspection Results.** 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 (3) years. The recorded information shall include, at a minimum, the following
- a. The date and time of the inspection;
 - b. The names of the hauling firm and driver of the vehicle;
 - c. the vehicle license plate number;
 - d. the source of the waste, as stated by the driver, and
 - e. observations made by the inspector during the detailed inspection.
- The written record shall be signed by the landfill inspector and shall be made available to Department representatives during inspections
27. **Waste Inspection at the Working Face.** Upon unloading solid waste at the working face, the spotter(s) shall inspect all loads for unauthorized wastes. Solid waste shall not be compacted unless the solid waste has been completely inspected. The landfill operator shall be responsible for providing additional spotters during peak hours or when the waste receipt rate is more than what the spotter(s) at the working face can adequately inspect
28. **Prohibited Wastes and Liquid Restrictions.** Unacceptable waste, including, but not limited to white goods, waste oil, yard waste, whole tires and lead acid batteries shall not be disposed of at the Class I landfill. Special waste accepted at the facility shall be stored in the respective designated areas until removal which shall be on an as-needed basis and no less than once a year. Additionally, liquids shall not be disposed of in a manner that would violate the liquid restrictions of FAC Rule 62-701.300(10). Furthermore, liquids containing a polychlorinated biphenol (PCB) concentration of 50 parts per million or greater, and non-liquid PCB's at concentrations of 50 parts per million or greater in the form of contaminated soil, rags, or other debris shall not be accepted at the facility for disposal. The Permittee will be responsible for ensuring 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
29. **Asbestos Disposal.** Asbestos disposal shall be in accordance with FAC 62-701.520(4) 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 61.154 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 which does not contain asbestos, with a minimum of six inches of daily cover.
30. **White Goods.** White goods shall be stored only at the designated storage area. White goods which may contain chlorofluorocarbons (CFCs) such as freon, shall be stored and managed in a manner such that CFCs are not discharged to the atmosphere

SPECIFIC CONDITIONS:

31. **Construction and Demolition Debris.** Pursuant to FAC Rule 62-701 730(16), the Permittee shall maintain a separate working face for construction and demolition debris materials.
32. **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 FAC Rule 62-711. Each storage pile shall be no more than 50 feet in width with an area no greater than 10,000 square feet and a height no greater than 15 feet. A 50-ft wide fire lane shall be maintained around the perimeters of each waste tire pile.
 - b. **Storage Limits.** The maximum waste tire storage capacity for Trail Ridge Landfill shall not exceed 3900 tons on any given day. The limits of the waste tire storage area shall be appropriately marked to ensure that all waste tires are stored within these limits.
 - c. **Processed Waste Tires.** At least 75 percent of the waste tires and processed tires that are delivered to or are stored at the facility at the beginning of each calendar year will be processed and disposed of on site or transported off-site to a permitted facility for recycling or disposal. The temperature of any above-ground piles of compacted, processed tires over 8 feet high shall be monitored and may not exceed 300 degrees Fahrenheit. Temperature control measures shall be instituted so that 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 will be disposed of at the landfill, the tire must be cut into at least 8 substantially equal pieces. Processed tires disposed of at the landfill, which does not meet the size requirement of FAC Rule 62-711 400(3)(a) must receive initial cover as defined in FAC Rule 62-701 200(37), which is once every week.
 - 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.
 - e. **Waste Tire Processing Facility Quarterly Report.** The Permittee shall complete and submit DEP Form # 62-711 900(4) [Attachment 7], by the 20th of the month following the close of each calendar quarter.
 - f. **Additional Recording Requirements.** The Permittee shall record and maintain for three (3) years, the information required in FAC 62-711.530(4)(a thru c) and FAC 62-711 530(5)(a thru g) and shall be made available to the Department upon request.
33. **Waste Quantity Reports.** The facility 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: residential, commercial, treated biohazardous waste, water treatment sludge,

SPECIFIC CONDITIONS:

agricultural, construction and demolition debris, waste tires, industrial, industrial sludge and domestic sludge and non-hazardous special waste. The waste reports shall be compiled monthly and shall be provided to the Department by April 15, July 15, October 15 and January 15 of each year of this permit.

34. **Litter Control.** The facility shall be inspected for litter on a daily basis. Any litter discovered outside the working face shall be collected and appropriately disposed of within 24 hours of discovery.
35. **Cover Requirements.** Initial cover shall be applied at the end of each work day over the entire working face. Initial cover, consisting of suitable soil, shall be placed at a minimum depth of 6 inches after placement. For those areas where waste will be deposited within 18 hours, initial cover such as the following geotextile materials may be utilized as initial cover: Fabrene Type TG Product G168 and Nicholon Baycor Style 27600. However, these temporary covers shall not be utilized if obvious signs of deterioration of the materials are observed. Other equivalent geotextile materials may be utilized upon receiving a written authorization from the Department. For portions of the working face not completely covered by the tarpaulin, the 6-inch initial soil cover requirement shall be applied at the end of the working day. During periods when tarpaulin has been utilized at the working face from Monday through Saturday, the 6-inch soil cover requirement shall be applied before the close of business on Saturday.
36. **Gas Monitoring Probes.** Within ninety (90) days of receipt of this permit, gas monitoring probes (GMP) 1 through 10 shall be constructed in accordance with the Permanent Gas Probe Detail, as shown in Appendix H of Document 1. The locations of the gas monitoring probes shall be in accordance with the locations shown in Attachment F of Document 4. Upon completion of construction, the professional engineer or professional geologist in charge of installation, shall submit a gas monitoring probe installation report to the Department which shall include boring logs.
37. **Gas Monitoring Requirement.** Objectionable odors and gas migration shall be controlled at the site. Gas monitoring probes 1 through 10 shall be properly monitored on a quarterly basis throughout the duration of this permit. The initial gas monitoring shall be performed within sixty (60) days from the date the installation of the gas monitoring probes has been completed. After which, gas monitoring shall be performed every three (3) months. The Permittee shall record these gas monitoring results and shall submit a summary report to the Department within 15 days of the monitoring event. Methane concentration shall not exceed the Lower Explosive Limit (LEL) at the property boundary or 25% of the LEL within any structure on the property. The Permittee may be subject to more frequent monitoring based upon the Department's review of these data results.
38. **Gas Remediation.** If, during a monitoring event, it is determined that the LEL at the property boundary, or 25% of the LEL within a structure has been exceeded, the Permittee shall immediately take all necessary steps to ensure protection of human health and notify the

FEB 10
MAY 10
AUG 10
NOV 10

SPECIFIC CONDITIONS:

Department, by telephone, of the violation within seventy-two (72) hours of the time that the violation is first discovered. Within seven (7) days of detection, the Permittee shall submit a report addressing the nature and extent of the problem. The report shall also include a proposed remedy for approval. The remedy shall be completed within sixty (60) days of detection unless otherwise approved by the Department.

39. **Gas Monitoring Well Maintenance.** The integrity of the gas monitoring system shall be inspected, at a minimum, during the quarterly monitoring event. Should the well be found damaged, the Permittee shall repair or replace the damaged gas monitoring well(s) within sixty (60) days of discovery. The Permittee, within thirty (30) days of completion of repair or replacement, shall monitor the well and submit the result(s) to the Department.
40. **Contingency Operations.** Prior to the imminent threat of a natural disaster (i.e., hurricane or tornado), flooding and fire, 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, and
 - c. All lightweight signs and equipment shall be secured.
41. **Groundwater Monitoring Requirements.** In accordance with FAC 62-701 and 62-522, the Permittee shall install, place into operation, and maintain a water quality monitoring system:
- a. The groundwater monitoring system shall be designed, constructed, operated and maintained in accordance with FAC Chapters 62-3, 62-520 and 62-522 and with the Groundwater Monitoring Plan with Additional Responses, as modified by the conditions specified in this permit.
 - b. Pursuant to FAC Rule 62-522.410, 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 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 FAC Rule 62-522.410.
 - 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 FAC Rule 62-522.410.
 - d. The Permittee shall ensure that the minimum criteria for ground water specified in FAC Rule 62-520.400 shall not be violated within the zone of discharge.

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- e. Approximate monitoring well locations and designations shall be in accordance with Attachment 1. 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 FAC Rule 62-701, new wells constructed to monitor phases III C, IV C, VA, VB, VC, VD shall be designated detection wells and be placed no greater than 50 feet from the limits of the waste. New detection wells MWB-32(S)d, (I)d, (D)d, MWB-33(S)d, and MWB-34 (S)d, (I)d, (D)d shall be installed within sixty (60) days from receipt of this permit. 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)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
MWB-21(S)c
MWB-22(S)c

Phase II

Compliance Well Clusters MWB-17(S)c, 17(I)c, 17(D)c

Phase III

Compliance Well Clusters MWB-13(S)c, 13(I)c
* MWB-23(S)c

Detection Well Clusters MWB-33(S)d (Phase III C/IVC)
MWB-34(S)d, 34(I)d, 34(D)d (Phase III C/IVC)

Phase IV

| | |
|-------------------------|-------------------|
| Detection Well Clusters | Same as Phase III |
|-------------------------|-------------------|

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

* 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 new groundwater monitoring wells shall be designated and constructed in accordance with FAC Chapter 62-522 and ASTM Standard D-5092. All existing and new 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 the groundwater monitoring wells, the following information shall be submitted to the Department within fifteen (15) days for all groundwater monitoring wells (permanent and temporary):

| | |
|---------------------------|--------------------------|
| Well identification | Driller's Lithologic Log |
| Latitude/Longitude | Total well depth |
| Aquifer monitored | Casing diameter |
| Screen type and slot size | Casing type and length |
| Elevation at land surface | Depth to groundwater |

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) which will be horizontally located by metes and bounds or equivalent surveying techniques. The surveyed drawing shall include the monitor well identification number as well as location and elevation of all permanent bench mark(s) and/or corner monument marker(s) at the site. The survey shall be conducted by a Florida Registered Surveyor.

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- g In the event any monitoring well becomes damaged or inoperable, the Permittee shall notify the Department within seventy-two (72) hours and a detailed written report shall follow within seven (7) days. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent a recurrence. All monitoring well design and replacement shall be approved by the Department prior to installation.
- h. Within sixty (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 FAC Rule 17-21 10(4) and St. Johns River Water Management District Rule 40C3 531. The Permittee shall submit a written report to the Department 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 the Department for approval.
- i. Groundwater levels shall be recorded no less than forty-eight (48) hours after well installation and prior to evacuating the well for sample collection. Measurements, referenced to National Geodetic Vertical Datum (N G V.D), shall include groundwater surface elevation, the top of well casing, and land surface at each site at a precision of plus or minus 0.01 feet. This information shall be submitted to the Department with the semi-annual groundwater analytical results. A map must be constructed depicting locations of wells and piezometers and corresponding water level measurements.
- j Following receipt of this permit, the Permittee shall within ninety (90) days, initially sample and analyze all groundwater monitoring wells which are part of the detection monitoring program for the parameters listed in Attachment 2. Tentative identification of all peaks greater than 10 ppb is required.
- k Sixty (60) days prior to acceptance of wastes in Phases III C or IV C, the Permittee shall sample and analyze monitoring wells MWB-33 S (d) and MWB-34 S, I, D(d), for the parameters listed in Attachment 2. Sixty (60) days prior to acceptance of wastes in phase VA or VC, the Permittee shall sample and analyze monitoring wells MWB-32 S, I, D(d), for the parameters listed in Attachment 2.
- l All sample collection and water quality analysis shall be in conformance with FAC Chapter 62-160 and FAC 62-522 600.
- m Groundwater sampling results shall be reported on the attached Parameter Monitoring Report Form [DEP Form 62-522.900(2)] (Attachment 5). In order to facilitate entry of this data into the state computer systems, these forms or an exact replica must be used and must not be altered as to content. The original forms shall be retained so that the necessary information is available to properly complete future reports. The report forms received from the laboratory must be submitted along with the DEP Parameter Monitoring Report Forms described above. The Permittee shall submit to the Department the results of the groundwater monitoring well water quality analysis no later than the fifteenth (15) day of

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the month immediately following the end of the sampling period Analytical results shall be accompanied by a brief narrative summary. The results shall be sent to the Department of Environmental Protection, Northeast District, 7825 Baymeadows Way, Suite 200-B, Jacksonville, Florida 32256-7590.

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

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

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

- n This condition was intentionally left blank
- o All groundwater background detection monitoring wells and active compliance monitoring wells shall be sampled and analyzed semi-annually for the parameters listed in Attachment 3. However, additional samples, wells, and parameters may be required based upon subsequent analyses. Semi-annual samples will be collected for all wells for each phase of monitoring prior to March 30 and September 30 of each year. A report of laboratory data will be submitted to the Department for each sampling period no later than April 15 and October 15 of each year respectively.
- p The Permittee shall prepare and submit to the Department 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 the Department, with the groundwater elevation data. This information shall be submitted in conjunction with the initial and semi-annual analytical data.
- q 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 the Department within seventy-two (72) hours of discovery and resample the monitor well(s) to verify the contamination analysis within fourteen (14) days from the date the Permittee received the results. The Permittee shall

SPECIFIC CONDITIONS:

submit to the Department the results of the resampled groundwater monitoring well water quality analysis and the original analysis no later than the fifteenth (15th) day of the following month.

Should the Permittee choose not to resample, the Department 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

If the groundwater standards and/or criteria are exceeded in a detection well or if parameters in a detection well are significantly above unaffected background water quality, the Permittee shall implement the Assessment Monitoring and Corrective Action requirements of FAC Rule 62-701 510, and shall as required by the Department, initiate and implement the "Corrective Actions for Contamination Site Cases," attached and incorporated as Attachment 6, within the time frames specified therein

If the groundwater standards and/or criteria are exceeded in a compliance well or if parameters in a compliance well are significantly above unaffected background water quality, the Permittee shall initiate and implement the "Corrective actions for Contamination Site Cases," attached and incorporated as Attachment 6, within the time frame specified therein

- r Sixty (60) days prior to the renewal of this permit, the Permittee shall sample and analyze all monitoring wells for the parameters listed on Attachment 2, in conjunction with the last scheduled semi-annual sampling event
- s Compliance with groundwater standards and/or criteria shall be determined by analysis of unfiltered or settled groundwater samples.
- t FAC Rule 62-522.600(3)(k) requires that the groundwater monitoring program must inventory and map surface waters within one mile of the landfill. If there are any modifications to the surface waters within one mile of the landfill, the Permittee shall, upon request, submit to the Department a revised inventory and map of surface waters within ninety (90) days
- u FAC Rule 62-522 600(3)(g) requires an inventory and map of all wells within a one (1) mile radius of the landfill, including the owners' names and addresses, well locations, well specifications (well depth, diameter, screened interval, capacity, etc.) and utilization. If there are any changes to the well inventory, the Permittee shall, upon request, revise the well inventory and shall submit the revised inventory to the Department within ninety days
- v. 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 every two

SPECIFIC CONDITIONS:

(2) years to the Department by the Permittee in accordance with FAC Chapter 62-701. In addition, it shall include a graphic plot of analytical laboratory data over time for the leachate and surface water sampling parameters. Evaluation of the adequacy of the monitoring frequency and analyses shall include the surface water and leachate monitoring programs. The Permittee shall have this report prepared and sealed by a qualified groundwater professional and submit this information by December 31, 1998 and December 31, 2000.

- 42 In accordance with F.A.C. Rule 62-701.510(6), surface water monitoring is required on a semi-annual basis in conjunction with the groundwater monitoring schedule. The following Surface Water Monitoring Program shall be implemented within ninety (90) days of the issuance of this permit.

- a The Surface Water Monitoring System shall be designed and operated in accordance with plans submitted to the Department, as modified by the conditions specified in this permit
- b The surface water monitoring sites shall be located as follows

| SITE NUMBER | LOCATION |
|-------------|------------------------------|
| SW-1 | As indicated in Attachment 1 |
| SW-2 | As indicated in Attachment 1 |

- c All surface water sampling sites shall be sampled and analyzed on a semi-annual basis for the parameters listed in Attachment 4. However, additional sampling sites and parameters may be required based upon subsequent analyses. The results shall be reported in accordance with Specific Condition Number 41(l) and submitted with the groundwater monitoring reports

43 **Leachate Management.**

- a Leachate shall be managed in accordance with FAC Rule 62-701 500(8) and the applicable information submitted in the references listed in Specific Condition No 1
- b The quantity of leachate collected from the leachate collection and removal system (LCRS) and the leachate detection system (LDS), shall be recorded in gallons on a daily basis, except on days when the facility is not operating. The Permittee shall maintain a recording rain gauge and shall compare the recorded precipitation rates to the leachate generation rates. Leachate generation reports shall be compiled monthly and submitted to the Department by January 15, April 15, July 15 and October 15 of each year. Leachate generation reports shall include the daily precipitation amounts, the quantities of leachate collected from the LCRS and LDS and the amount of leachate transported to the wastewater treatment facility

SPECIFIC CONDITIONS:

- c. Leachate collected from the landfill shall be transported to the Buckman Wastewater Treatment Facility. The owner or operator shall obtain approval from the Department prior to disposing leachate to another wastewater treatment facility.
- d. The overflow 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 which 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 the Department upon request for the lifetime of the liquid storage system.
- e. 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 FAC Rule 62-730.160. The sludge and solids shall be disposed of in at a permitted facility, based on the results of the testing performed.
- f. The Permittee shall perform routine maintenance of the leachate collection and removal system and all associated structures, to ensure proper operation of the system.
- g. The Permittee shall, in an appropriate manner, clean out the leachate collection system if and when obvious signs of obstruction(s) are exhibited.
- h. Leachate recirculation is not authorized under this permit renewal; however, the Permittee may request to modify the permit to allow leachate recirculation.

44 **Leachate Monitoring.** Leachate shall be sampled semi-annually in conjunction with the groundwater monitoring schedule specified in Specific Condition Number 41o. A composite sample will be taken from the drain valve of each of the five (5) leachate collection system storage tanks (Tanks 1 thru 5) and one (1) sample shall be taken from the drain valve of the leachate detection system storage tank (Tank 6) and shall be analyzed for the following parameters.

Field Parameters

Specific conductivity
pH
Dissolved Oxygen
Colors, sheens

Laboratory Parameters

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

SPECIFIC CONDITIONS:

IN ADDITION, leachate shall be sampled and analyzed **annually** for the parameters listed in 40 CFR Part 258, Appendix II.

The sampling and analysis shall be conducted under a Department-Approved Comprehensive Quality Assurance Plan that covers these activities. Detection levels shall be at or below groundwater standards and/or criteria. Leachate sampling results shall be reported on the attached Groundwater Monitoring Report Form [DEP Form 17-522 900(2)](Attachment 5). In addition to the information required on the Groundwater Monitoring Report Form and the requirements of FAC Rule 62-701.510(9)(a), the following shall be generated:

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

Test results shall be submitted to the Department as part of the semi-annual ground and surface water monitoring reports.

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 FAC Rule 62-701.510(6)(b)2. Should the composite sample taken from the five (5) leachate collection storage tanks be determined hazardous, leachate stored in all five (5) 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 FAC 62-730.

Please note that this permit does not authorize on-site treatment or pretreatment of leachate.

45. **Power generators.** For power outages that extend for a period of 24 hours or more, the facility shall, unless on-site 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.
46. **Intermediate Cover.** An intermediate cover, in addition to the six-inch initial cover, shall be applied and maintained within seven (7) days of cell completion if additional solid waste will not be disposed of within 180 days of cell completion. The intermediate cover shall be appropriately maintained to prevent erosion and waste exposure.
47. **Final Cover Application.**
 - a. **Installation Schedule.** Final cover shall be placed over the entire surface of each completed solid waste disposal unit(s) or those closure phases of the landfill which have been filled to the

SPECIFIC CONDITIONS:

extent of the design dimensions, within 180 days after attaining final elevation in accordance with the Closure Phasing Plan

- b. **Closure Phasing Plan.** The Closure Phasing Plan, including the closure phases, shall be in accordance with Drawing Numbers 14 and 15 of Document 2.
 - c. **Incremental Side Slope Closure.** An exterior side slope unit, as defined in this permit, is that area between the toe of the slope and intermediate benches or between two intermediate benches as shown in the Closure Phasing Plan, which has attained the final elevation. The closure design and closure construction of the side slope units, unless otherwise modified in the permit or by rule, shall be in accordance with Document 1, including the Quality Assurance/Quality Control Plan for Side Slope Closure, and Page 20 of Document 2, Closure Details
- 48 **Best Management Practices.** The Permittee is responsible for the selection, implementation, and operation of all erosion and sediment controls on-site to prevent violations of water quality standards in Chapters 62-3 and 62-4, FAC. The Permittee is encouraged to use the appropriate Best Management Practices described in the Florida Land Development Manual; A guide to Sound Land and Water Management (DER 1988)
- 49 **Stormwater Management System.**
- 1. **Permit Modification Phase (Modification Number MS16-296691 of Permit Number SC16-184444):**
 - a. The construction, operation and maintenance of the stormwater management system shall be as set forth in the plans, specifications and performance criteria contained in the Department file and approved by this permit. Any deviation from the permitted plans are to be addressed by the Department prior to their implementation to determine if a modification to the permit is required.
 - b. The Permittee must obtain an individual permit pursuant to 40C-4 FAC prior to beginning construction of any work not authorized by this permit
 - c. The following information is to be submitted to the Department:
 - 1. Within thirty (30) days after completion of construction of the modification to the stormwater system, the Permittee shall submit a signed and sealed certification by an appropriate registered Florida Professional Engineer that the system has been constructed and is ready for inspection.

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2. The registered professional engineer shall certify that the system has been constructed substantially in accordance with the approved plans and specifications; or any deviations from the plans will not prevent the system from functioning in compliance with appropriate regulations
3. Signed and sealed drawings will be furnished and revised to reflect any changes made during construction which shall include dimensions, calculations and elevations of all discharge structures
4. Once the referenced modification (MS16-296691) to the existing stormwater system is determined to be in compliance with the approved permitted plans, the modification shall become part of the operation permit for the stormwater system

2. Operation Phase of the Stormwater System:

- A The following operational maintenance activities shall be performed on all permitted systems on a regular basis or as needed
 - (1) Removal of trash and debris
 - (2) Inspection of inlets and outlets
 - (3) Removal of sediments when the storage volume or conveyance capacity of the system is below design level or when the system is rendered ineffective on account of clogging/sedimentation of the pond bottoms
 - (4) Stabilization and restoration of eroded areas.
 - (5) Mowing and removal of grass clippings
 - (6) Aeration, tilling or replacement of topsoil as needed to restore percolation capability of the system
- B The stormwater management system shall be inspected after each heavy rain, but a minimum, once per quarter
 - (1) The Permittee is required to provide for periodic inspections of the stormwater management system. The Permittee shall submit reports to the Department certifying that the stormwater management system is operating as designed. The reports shall be submitted to the Department as follows
 - a Inspection reports for retention, underdrain, wet detention (with/without littoral shelf), swales and pumped systems shall be submitted one year after the completion of

SPECIFIC CONDITIONS:

construction and every year thereafter. A registered Florida Professional Engineer must sign and seal the report certifying the system is functioning as designed

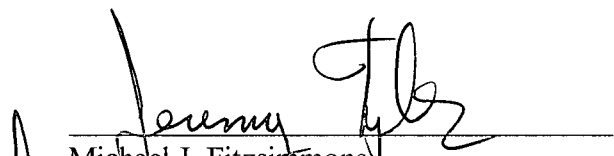
- b The reports shall be submitted to the Department's Stormwater Engineer at 7825 Baymeadows Way, Suite B-200, Jacksonville, Florida 32256-7590.
 - C If the stormwater management system is not functioning as designed and permitted, operational maintenance must be performed immediately to restore the system. If operational maintenance measures are insufficient to enable the system to meet the design standards, the Permittee must either replace the system or construct an alternative design. In such a case, the Permittee must submit a permit modification application within sixty (60) days of the date the system was determined to be design deficient.
- 50. **Hydrology Monitoring Requirement.** All piezometers (installed as part of the requirements of Specific Condition No. 48I(a) of Permit Number SC16-184444) at the wetland/upland boundary and at existing groundwater monitoring locations, installed to determine groundwater elevations in the wetland discharge areas, shall be monitored at 6 month intervals commencing 6 months from the permit receipt date. The hydrology monitoring reports shall be submitted to the Department's Northeast District's Environmental Resource Permitting Section within 45 days from the monitoring event.
- 51. **Wetland Vegetation Monitoring.** The vegetation in the wetland areas of discharge shall be monitored every 2 years commencing from the permit receipt date. These vegetation monitoring reports shall utilize the transects established in the Base Line Study (required in Specific Condition Number 48I(a) of Permit Number SC16-184444) and shall include all the required information in this Base Line Study. These vegetation monitoring reports shall be submitted to the Department's Northeast District's Environmental Resource Permitting Section no later than 30 days after each monitoring event.
- 52. **Monitoring report.** Each vegetative monitoring report shall document any quantitative changes in vegetational composition which indicates any significant changes in the hydroperiod of the wetlands. Monitoring data shall be collected from all previously established quadrants along the existing transects. Each vegetative monitoring report shall contain an explanation of short term trends caused by, but not limited to, rainfall, fire, flooding and or other natural events and an explanation of any potential long term trends based on past reports which indicate potential changes in the hydroperiod of the wetland. The Department shall review the vegetative monitoring reports and the Permittee shall take whatever corrective remedial actions required by the Department in the event of significant indications of changes or potential changes in the hydroperiod of the wetland.
- 53. **Erosion control.** The Permittee shall take all appropriate measures to insure that the wetland stormwater discharge system does not cause erosion into any wetland area during construction and operation.


SPECIFIC CONDITIONS:

54. The landfill owner or operator is not required to obtain any air construction permit unless landfill construction or any modification is subject to the prevention of significant deterioration (PSD) requirements of Chapter 62-212, FAC. A landfill for which construction or modification is subject to PSD requirements 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.
55. The landfill owner or operator is not required to obtain any air operating permit unless the landfill is required to obtain a Title V air operating permit (Title V permit) pursuant to Sec 403.0872, F.S. A landfill is required to obtain a Title V permit if the landfill (or the total facility, if the landfill is collocated or part of a larger facility) has the potential to emit 10 TPY of any hazardous air pollutant, 25 TPY of any combination of hazardous air pollutants or 100 TPY of any other regulated air pollutant. A landfill is also required to obtain a Title V permit if the maximum design capacity, as defined at 40 CFR 60, Subpart WWW, is equal or greater than 2.5 million Megagrams or 2.5 million cubic meters. Title V permits must be applied for in accordance with the timing and content requirements of Rule 62-204.800, FAC and Chapter 62-213, FAC. Title V applications shall be submitted to the District Air Program Administrator or County Air Program Administrator with air permitting authority for the landfill location.
56. The Permittee shall comply with the requirements of 40 CFR 60, Subparts WWW and Cc, as adopted by reference at Rule 62-204.800, FAC. The Permittee shall submit to the Division of Air Resources Management, Department of Environmental Protection, Mail Station 5500, 2600 Blair Stone Road, Tallahassee, Florida, 32399-2400, any amended design capacity report and any Non-Methane Organic Compound (NMOC) emission rate report, as applicable, pursuant to 40 CFR 60.757(a)(3) and (b).
57. **Permit Acceptance.** By acceptance of this permit, the Permittee certifies that he/she has read and understands the obligations imposed by the Specific Conditions and General Conditions contained in this permit including the permit expiration date and renewal deadline. It is a violation of this permit to fail to comply with any conditions and deadlines.

Executed in Jacksonville, Florida

**STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION**


Michael J. Fitzsimmons
Environmental Administrator-DEP

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BACKGROUND PARAMETERS

Field Parameters

Static water level in wells
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

SEMI-ANNUAL PARAMETERS

Field Parameters

Static water level in wells
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

SURFACE WATER PARAMETERS

Field Parameters

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

Laboratory Parameters

Unionized ammonia N
Total hardness
Biochemical oxygen
demand (BOD5)
Copper
Iron
Mercury
Nitrate
Zinc
Total dissolved solids
(TDS)
Total organic carbon
(TOC)
Fecal Coliform
Total phosphates
Chlorophyll A
Total Nitrogen
Chemical oxygen demand
(COD)
Total suspended solids
(TSS)
Those parameters listed in
40 CFR Part 258 Appendix I

Florida Department of Environmental Protection

Twin Towers Office Bldg., 2600 Blair Stone Road Tallahassee, Florida 32399-2400

DEP Form # 62-522.900(2)

Form Title GROUND WATER MONITORING
REPORT

Effective Date 04/14/94

DEP Application No _____

GROUND WATER MONITORING REPORT

Rule 62-522.600(11)

PART I GENERAL INFORMATION

- 1) Facility Name _____
Address _____
City _____ Zip _____
Telephone Number () _____
- 2) The GMS Identification Number _____
- 3) DEP Permit Number _____
- 4) Authorized Representative Name _____
Address _____
City _____ Zip _____
Telephone Number () _____
- (5) Type of Discharge _____
- (6) Method of Discharge _____

Certification

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

Date: _____
Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP # _____

Analytical Lab Comp QAP #/HRS Certification # _____

*Comp QAP #/HRS Certification # _____

Lab Name _____

Address _____

Phone Number () _____

Page 1 of 2

PART III ANALYTICAL RESULTS

ATTACHMENT 5

Facility GMS #: _____

Sampling Date/Time: _____

Test Site ID #: _____

Report Period: _____

$\frac{1}{\sqrt{2}} \left(\begin{matrix} 1 & 0 \\ 0 & 1 \end{matrix} \right)$

- (year/quarter)

Well Name: _____

Well Purged (Y/N): _____

Classification of Ground Water: _____

Well Type: () Background

Ground Water Elevation (NGVD): 105.14 m

(b) Compliance

or (MSL): _____

[illegible]

* Attach Laboratory Reports

Facility GMS #: _____

Sampling Date/Time: _____

Test Site ID #: _____

Report Period: _____

(year/quarter)

Well Name: _____

Well Purged (Y/N): _____

Classification of Ground Water: _____

Well Type: () Background

Ground Water Elevation (NGVD): 10.1

() Compliance

or (MSL): _____

Storet

Parameter

Sampling

Field

Analysis

Analysis

* Analysis

Detection

[illegible]

* Attach Laboratory Reports

CORRECTIVE ACTIONS FOR CONTAMINATION SITE CASES

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Part 1 Quality Assurance Certification

1. Within 30 days of confirmation of exceedance of groundwater standards and/or criteria as specified in Specific Condition No. 41q, the Permittee shall submit to the Department documents certifying that the organization(s) and laboratory(s) performing the sampling and analysis have a Department-approved Comprehensive Quality Assurance Plan (Comp QAP) in which each is approved for the sampling and analysis activities each will perform as part of the assessment and corrective actions at the site. The documentation shall, at a minimum, contain either the most recent TITLE PAGE (signed by the FDEP QA Officer) and TABLE OF CONTENTS of the Department-approved CompQAP (if the CompQAP is a 15-section document) or the most current CompQAP letter of approval signed by the FDEP QA Officer. All identified organizations and laboratories must follow the protocols outlined in their respective CompQAP(s) in order for the data to be reliable. At this time, the FDEP QA Officer will issue a letter which summarizes the activities each organization is qualified to perform. These activities must be consistent with the activities proposed in the IRAP, CAP, MOP, pilot tests/bench tests and RAP.

A. If at any time sampling and/or analysis activities are anticipated which are not in the Department-approved CompQAP, and the Permittee wishes to maintain the services of the affected organization(s), the organization(s) shall submit amendments to add the capabilities to the CompQAP(s). Such amendments shall be approved before the proposed activity(s) may be conducted. The letter approving such amendments, and signed by the FDEP QA Officer, shall be submitted to the Department.

B. If the organization(s) or laboratory(s) performing the sampling and analysis change at any time during the assessment and corrective actions, documentation of their Department-approved CompQAP (as outlined in 1. above) shall be required.

C. If the approval of the CompQAP for a specified organization expires during the course of the investigation or corrective actions, the Permittee shall discontinue using the organization until 1) the organization obtains CompQAP approval or 2) another organization with a Department approved CompQAP is selected and documentation outlined in 1. above is submitted.

CORRECTIVE ACTIONS FOR CONTAMINATION SITE CASES

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Part 1 Quality Assurance Certification

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A. If at any time sampling and/or analysis activities are anticipated which are not in the Department-approved CompQAP, and the Permittee wishes to maintain the services of the affected organization(s), the organization(s) shall submit amendments to add the capabilities to the CompQAP(s). Such amendments shall be approved before the proposed activity(s) may be conducted. The letter approving such amendments, and signed by the FDEP QA Officer, shall be submitted to the Department.

B. If the organization(s) or laboratory(s) performing the sampling and analysis change at any time during the assessment and corrective actions, documentation of their Department-approved CompQAP (as outlined in 1. above) shall be required.

C. If the approval of the CompQAP for a specified organization expires during the course of the investigation or corrective actions, the Permittee shall discontinue using the organization until 1) the organization obtains CompQAP approval or 2) another organization with a Department approved CompQAP is selected and documentation outlined in 1. above is submitted.

D. The Department reserves the right to reject any results generated by the Permittee if any organization performs an activity that is not specifically approved in its CompQAP, if there is reasonable doubt as to the quality of the data or method used, if the sampling and analysis were not performed in accordance with the approved CompQAPs or if the CompQAP of any organization expires.

Part 2 Interim Remedial Actions

2. If at any time the Department determines or the Permittee proposes that an Interim Remedial Action (IRA) is appropriate to achieve the objectives set forth below, the Permittee shall submit to the Department a detailed written Interim Remedial Action Plan (IRAP). The IRAP shall be submitted within sixty (60) days following Department determination that an IRA is appropriate. Applicable portions of the IRAP shall be signed and sealed pursuant to Chapters 492 & 471, F.S. The objectives of the IRA shall be to remove specific known contaminant source(s), and/or provide temporary controls to prevent or minimize contaminant migration or protect human health. The IRA shall not spread contaminants into uncontaminated or less contaminated areas through untreated or undertreated discharges or improper treatment. The IRAP may include the following, as appropriate:

A. Rationale for the IRA and the cleanup criteria proposed, incorporating engineering and hydrogeological considerations including, as applicable, technical feasibility, long-term and short-term environmental effects, implementability (including any permits or approvals from federal, state, and local agencies), and reliability;

B. Design and construction details and specifications for IRA;

C. Operational details of the IRA including the disposition of any effluent, expected contaminant concentrations in the effluent, an effluent sampling schedule if treated ground water is being discharged to ground water, surface water, or to the ground; and the expected concentrations and approximate quantities of any contaminants discharged into the air as a result of remedial action;

D. Operation and maintenance plan for the IRA including, but not necessarily limited to daily, weekly, and monthly operations under routine conditions; a contingency plan for nonroutine conditions;

E. Details of the treatment or disposition of any contaminated soils or sediments;

F. Proposed methodology including post-IRA soil, sediment, surface water, and ground water monitoring, as applicable, to confirm the effectiveness of the interim remedial action; and

G. Schedule for the completion of the IRA;

3. The Department shall review the proposed IRAP and provide Permittee with a written response to the proposal. Any action taken by the Permittee with regard to the implementation of the IRAP before the IRAP has been approved shall be at Permittee's risk and Paragraph 44 applies.

4. In the event that additional information is necessary for the Department to evaluate the IRAP, or if the IRAP does not adequately address the objectives set forth in Paragraph 2, the Department will make a written request to Permittee for the information, and Permittee shall provide all requested revisions in writing to the Department within thirty (30) days from receipt of said request. If the requested

information requires additional time for a response, the Permittee shall submit in writing to the Department within thirty (30) days of the Department's request, a reasonable schedule for completing the work needed to provide the requested information.

5. If the Department determines upon review of the resubmitted IRAP that the IRAP adequately addresses the objectives set forth in paragraph 2, then the Department shall approve the IRAP. If the Department determines that the IRAP still does not adequately address the objectives of the IRAP, the Department may choose one of the options listed in Paragraph 43.

6. Once an IRAP has been approved by the Department, it shall become effective and made a part of the Order and shall be initiated within thirty (30) days from receipt of the Department's notification to the Permittee that the IRAP has been approved. The approved IRAP shall incorporate all required modifications to the IRAP identified by the Department. All reporting and notification requirements spelled out in Part 6 shall be complied with during the IRAP implementation.

Part 3 Contamination Assessment and Risk Assessment

7. Within sixty (60) days of confirmation of exceedance of groundwater standards and/or criteria, Permittee shall submit to the Department a detailed written Contamination Assessment Plan (CAP). Applicable portions of the CAP shall be signed and sealed pursuant to Rule 62-103.110(4), F.A.C. If the Permittee has previously conducted a Preliminary Contamination Assessment, the Permittee shall submit to the Department a detailed written CAP within sixty (60) days of receipt of notice from the Department that a CAP is required. The purpose of the CAP shall be to propose methods for collection of information necessary to meet the objectives of the Contamination Assessment.

A. The objectives of the Contamination Assessment shall be to:

(1) Establish the horizontal and vertical extent of soil, sediment, surface water and ground water contamination;

(2) Determine or confirm the contaminant source(s); mechanisms of contaminant transport; rate and direction of contaminant movement in the air, soils, surface water and ground water; and rate and direction of ground water flow;

(3) Provide a complete characterization, both onsite and offsite, of any and all contaminated media;

(4) Determine the amount of product lost, and the time period over which it was lost (if applicable);

(5) If leaking storage tanks may be the source of the contamination, determine the structural integrity of all aboveground and underground storage systems (including integral piping) which exist at the site (if applicable);

(6) Establish the vertical and horizontal extent of free product (if applicable);

(7) Describe pertinent geologic and hydrogeologic characteristics of affected and potentially affected hydrogeologic zones;

(8) Describe geologic and hydrogeologic characteristics of the site which influence migration and transport of contaminants; and

(9) Provide a site history as specified in Paragraph 7.C.
(1).

B. The CAP shall specify the tasks necessary to achieve the applicable objectives described in Paragraph 7.A. above. The tasks may include, but are not limited to, the following:

- (1) Use of piezometers or wells to determine the horizontal and vertical directions of the ground water flow;
- (2) Use of Electromagnetic Conductivity (EM) and other geophysical methods or vapor analyzers to trace extent of ground water contamination;
- (3) Use of fracture trace analysis to discover linear zones in which discrete flow could take place;
- (4) Use of permanent monitoring wells to sample ground water in affected areas and to determine the vertical and horizontal extent of the ground water plume;
- (5) Sampling of public and private wells;
- (6) Sampling of surface water and sediments;
- (7) Sampling of air for airborne contaminants;
- (8) Analysis of soils, drum and tank residues, or any other media for hazardous waste determination and contaminant characterization;
- (9) Use of organic vapor analyzers or geophysical equipment such as magnetometers, ground penetrating radar, or metal detectors to detect tanks, lines, etc.;
- (10) Determination of the horizontal and vertical extent of soil and sediment contamination;
- (11) Use of soil and well borings to determine pertinent site-specific geologic and hydrogeologic characteristics of affected and potentially affected hydrogeologic zones such as aquifers, confining beds, and unsaturated zones;
- (12) Use of geophysical methods, aquifer pump tests and representative slug tests to determine geologic and hydrogeologic characteristics of affected and potentially affected hydrogeologic zones; and
- (13) As a mandatory task, preparation and submittal of a written Contamination Assessment Report ("CAR") to the Department.

C. The CAP shall provide a detailed technical approach and description of proposed methodologies describing how proposed tasks are to be carried out. The CAP shall include, as applicable, the following information:

- (1) A detailed site history including: a description of past and present property and/or facility owners; a description of past and present operations including those which involve the storage, use, processing or manufacture of materials which may be potential pollution sources; a description of all products used or manufactured and of all by-products and wastes (including waste constituents) generated during the life of the facility; a summary of current and past environmental permits and enforcement actions; a summary of known spills or releases of materials which may be potential pollution sources; and an inventory of potential pollution sources within 0.25 (one quarter) mile;
- (2) Details of any previous site investigations including results of any preliminary ground water flow evaluation and/or stratigraphy investigation. If no reliable information exists, consider following a phased approach or conducting a limited pre-CAP investigation to determine groundwater flow direction and stratigraphy.
- (3) Proposed sampling locations and rationale for their placement;

(4) A description of methods and equipment to be used to identify and quantify soil or sediment contamination, including dry bulk density, soil porosity, soil moisture and total organic carbon (for site specific leachability cleanup goals);

(5) A description of water and air sampling methods;

(6) Parameters to be analyzed for, analytical methods to be used, and detection limits of these methods with justification for their selection;

(7) Proposed piezometer and well construction details including methods and materials, well installation depths and screened intervals, well development procedures;

(8) A description of methods proposed to determine aquifer properties. (e.g., aquifer pump tests, representative slug tests, permeability tests, computer modeling);

(9) A description of geophysical methods proposed for the project;

(10) Details of any other assessment methodology including innovative assessment technologies proposed for the site;

(11) A description of any survey to identify and sample public or private wells which are or may be affected by the contaminant plume; Surveys should include Water Management District, local and county health department files, utility companies and detailed door-to-door reconnaissance for a minimum distance of a quarter mile.

(12) A description of the regional geology and hydrogeology of the area surrounding the site;

(13) A description of site features (both natural and man-made) pertinent to the assessment;

(14) A description of methods and equipment to be used to determine the site specific geology and hydrogeology; and

(15) Details of how drill cuttings, development and purge water from installation of monitoring wells will be collected, managed and disposed of.

(16) Tables which summarize the proposed samples, analyses, and method detection limits for each medium compared to state standards/criteria or generic cleanup goals. Include the appropriate number and type of quality assurance samples.

(17) Provide information regarding state listed endangered and threatened flora and fauna species within and near the site.

(18) Provide a reasonable time schedule for completing each task, preparing the CAR and submitting the CAR.

8. The Department shall review the CAP and provide the Permittee with written responses to the plan and the quality assurance certification status of Part 1. Any action taken by the Permittee with regard to the implementation of the CAP prior to the Permittee receiving written notification from the Department that the CAP has been approved shall be at Permittee's risk and Paragraph 44 applies.

9. In the event that additional information is necessary for the Department to evaluate the CAP, or if the CAP does not adequately address the CAP objectives set forth in Paragraph 7.A, the Department will make a written request to the Permittee for the information. The Permittee shall provide all requested revisions in writing to the Department within thirty (30) days from receipt of said request. If the requested information requires additional time for a response, the Permittee shall submit a written reasonable schedule for completing the work needed to provide the requested information.

10. If the Department determines upon review of the resubmitted CAP that the CAP adequately addresses the objectives set forth in paragraph 7, then the Department shall approve the CAP. If the Department determines that the CAP still does not adequately address the objectives and/or requirements in Paragraph 7.A, the Department may choose one of the options listed in Paragraph 43.

11. Once a CAP has been approved by the Department, it shall become effective and made a part of the Order and shall be initiated within thirty (30) days of the Department's written notification to the Permittee that the CAP has been approved. The approved CAP shall incorporate all required modifications to the proposed CAP identified by the Department. All reporting and notification requirements spelled out in Part 6 shall be complied with during the implementation of the CAP tasks.

12. The Permittee shall submit a written Contamination Assessment Report (CAR) to the Department in accordance with the CAP schedule approved by the Department. Applicable portions of the CAR shall be signed and sealed pursuant to Rule 62-103.110(4), F.A.C. The CAR shall:

A. Summarize all tasks which were implemented pursuant to the CAP;

B. Provide the results, discussion and conclusions regarding the Contamination Assessment objectives outlined in Paragraph 7.A;

C. Include, the following tables and figures as appropriate:

(1) A table with well construction details, top of casing elevation, depth to water measurements, and water elevations (The top of casing elevations should be referenced to the National Geodetic Vertical Datum (NGVD) of 1929 if at all possible.);

(2) A site map showing water elevations, water table contours and the groundwater flow direction for each aquifer monitored for each sampling period;

(3) A table with water quality information for all monitor wells and surface water sampling locations;

(4) Site maps showing contaminant concentrations and contours of the contaminants for all contaminated media;

(5) Cross sections depicting the geology of the site at least to the top of the first confining unit. In general there should be at least one north to south cross section and one east to west cross section;

(6) A table with soil and sediment quality information;

(7) A map showing the locations of all monitor wells, soil, surface water, and sediment samples; and

(8) If applicable, a map showing the locations of all potable wells located within a quarter mile of the site. A table with the names and addresses of private and public potable wells should be included.

D. Include copies of field notes pertaining to field procedures, particularly of data collection procedures; laboratory results to support data summary tables, and soil boring logs, well construction logs, and lithologic logs, and

E. Summarize conclusions regarding the CAP objectives and include a recommendation for either No Further Action (NFA), a Monitoring Only Plan (MOP), a Risk Assessment/Justification proposal (RAJ), a Feasibility Study (FS) or remedial actions requiring a Remedial

Action Plan (RAP). If the recommendation is for a MOP (see Paragraphs 20 to 25) or a RAJ (see Paragraphs 17 to 19), the MOP or the RAJ proposal shall be attached to the CAR for review.

[Note: The following justification is optional and applies only to those sites with mitigating circumstances such as technology or engineering limitations, lithology limitations or documented natural attenuation.]

F. Justification for a "monitoring only" or "no further action" proposal if the results of the contamination assessment alone do not support a No Further Action or Monitoring Only Alternative. If the Permittee plans to develop alternative Site Rehabilitation Levels (SRLs) for the site, the proposal for a Risk Assessment/Justification (RAJ) shall be included in the CAR for review. In most instances the Department will not approve alternative SRLs for water if a standard exists or a numerical interpretation of the minimum criteria has been developed by the Department for the constituent for a particular class of water or in all waters. Factors to be evaluated shall be, at a minimum:

(1) The present and future uses of the affected aquifer and adjacent surface waters with particular consideration of the probability that the contamination is substantially affecting or will migrate to and substantially affect a public or private source of potable water or a viable wildlife habitat;

(2) Potential for further degradation of the affected aquifer or degradation of other connected aquifers;

(3) The technical feasibility of achieving the SRLs based on a review of reasonably available technology; and

(4) Individual site characteristics, including natural rehabilitative processes.

13. The Department shall review the CAR and determine whether it has adequately met the objectives specified in Paragraph 7.A. In the event that additional information is necessary for the Department to evaluate the CAR or if the CAR does not adequately address the CAP objectives set forth in Paragraph 7.A, the Department will make a written request to the Permittee for the information. The Permittee shall provide all requested revisions in writing to the Department within thirty (30) days from receipt of said request, unless the requested information requires additional time for a response, in which case the Permittee shall submit in writing to the Department, within thirty (30) days of the Department's request, a reasonable schedule for completing the work needed to provide the requested information.

14. If the Department determines upon review of the CAR or the CAR Addendum that all of the CAP objectives and tasks have been satisfactorily completed and that the recommended next action proposed is reasonable and justified by the results of the contamination assessment, the Department will provide written approval of the CAR, MOP, or NFA as applicable to the Permittee. If the Department approves a "no further action" proposal, this approval shall terminate Permittee's actions under the Order unless previously unavailable information becomes known and connects other contamination to the site.

15. If the Department determines upon review of the CAR or the CAR Addendum that the CAR still does not adequately address the objectives in Paragraph 7.A, or that the next proposed action is not acceptable, the Department may choose one of the options listed in Paragraph 43.

16. The Department, at its option, may establish from review of the CAR and other relevant information the Site Rehabilitation Levels (SRLs) to which the contamination shall be remediated or may require the Permittee to implement the risk assessment process to develop such SRLs for the site. The SRLs for ground water as determined by the Department shall be the Chapter 62-520, (which references Chapter 62-550) F.A.C. standards and the Department's numerical interpretation of the Rule 62-520.400, F.A.C. minimum criteria. The SRLs for surface waters shall be the standards specified in Chapter 62-302, F.A.C., the minimum criteria and the toxicity criteria per Rule 62-302.530(62) F.A.C. The Department, at its option, may define the SRLs for soils and sediments or may require the Permittee to complete a risk assessment to define SRLs for soils or sediments that are sufficiently contaminated to present a risk to the public health, the environment or the public welfare. The cleanup goals for soils will be risk based and if ground water contamination is present, may also be based on potential leachate generation. If the Department does choose to provide SRLs to the Permittee and does not choose to require a risk assessment and requires the Permittee to remediate the site to those SRLs, the Permittee shall implement the FS, if required by the Department as set forth in Paragraph 26, or submit the RAP as set forth in Paragraph 31. The Permittee may choose to develop site specific soil cleanup goals utilizing site specific parameters such as total organic carbon, soil porosity, soil moisture content, and dry bulk density in combination with Department acceptable exposure assumptions.

17. After Department approval of the CAR and the RAJ proposal, the Permittee shall prepare and submit a RAJ. . In most instances the Department will not approve the use of a RAJ to develop alternative SRLs for water if a standard exists or a numerical interpretation of the minimum criteria has been developed by the Department for the constituent for a particular class of water or in all waters. The RAJ which includes a risk assessment and a detailed justification of any alternative SRLs or "monitoring only" or "no further action" proposals shall be submitted within ninety (90) days of the Department's written approval of the CAR and notice that a RAJ is required, or within ninety (90) days of the Department's written approval of the CAR and the RAJ recommendation. Unless otherwise approved by the Department, the subject document shall address the following task elements, divided into the following five major headings:

A. Exposure Assessment - The purpose of the Exposure Assessment is to identify routes by which receptors may be exposed to contaminants and to determine contaminant levels to which receptors may be exposed. The Exposure Assessment should:

- (1) Identify the contaminants found at the site and their concentrations as well as their extent and locations;
- (2) Identify possible transport pathways;
- (3) Identify actual and potential exposure routes;
- (4) Identify actual and potential receptors for each exposure route; and
- (5) Calculate expected contaminant levels to which actual or potential receptors may be exposed.

B. Toxicity Assessment - The purpose of the Toxicity Assessment is to define the applicable human health and environmental criteria for contaminants found at the site. The criteria should be

defined for all potential exposure routes identified in the Exposure Assessment. DEP standards shall be the criteria for constituents and exposure routes to which the standards apply. Criteria for constituents and exposure routes for which specific DEP standards are not established shall be based upon criteria such as Carcinogenic Slope Factor (SF), Reference Doses (RfDs), organoleptic threshold levels, Ambient Water Quality Criteria for Protection of Human Health and for Protection of Aquatic Life, and other relevant criteria as applicable in combination with Department approved exposure assumptions. If there are no appropriate criteria available for the contaminants and exposure routes of concern, or the criteria are in an inappropriate format, the Respondent shall develop the criteria using Department approved equations and current scientific literature acceptable to toxicological experts. Criteria for the following exposure routes shall be defined or developed as applicable:

(1) Potable water exposure route - develop criteria for ingestion, dermal contact, and inhalation of vapors and mists, utilizing applicable health criteria such as SF, RfDs, organoleptic threshold levels, and other relevant criteria as applicable.

(2) Non-potable ground water and surface water usage exposure route - develop criteria for incidental ingestion, dermal contact, and inhalation of vapors and mists, such as through the ingestion of food crops irrigated with such water, lawn watering, ingestion by pets and livestock, and other related exposure.

(3) Soil exposure route - develop criteria for ingestion, dermal contact, inhalation, and ingestion by humans or animals of food crops grown in contaminated soils.

(4) Non-potable surface water and sediment exposure - develop criteria for prevention of adverse effects on human health (e.g. incidental ingestion and dermal contact effects on humans utilizing the resource for recreational purposes and ingesting fish, shellfish, etc.) or the environment (e.g. toxic effects of the contaminants on aquatic or marine biota, bio-accumulative effects in the food chain, other adverse effects that may affect the designated use of the resource as well as the associated biota).

(5) Air exposure route - develop criteria for exposure to the contaminants.

C. Risk Characterization - The purpose of the Risk Characterization is to utilize the results of the Exposure Assessment and the Toxicity Assessment to characterize cumulative risks to the affected population and the environment from contaminants found at the site. Based on contaminant levels presently found at the site, a risk and impact evaluation will be performed which considers, but is not limited to:

(1) Risks to human health and safety from the contamination including,

(a) carcinogenic risk (FDEP's acceptable risk level is $10E-6$), and

(b) non-carcinogenic risk (FDEP considers a hazard index of one as acceptable).

(2) Effects on the public welfare of exposure to the contamination which may include but not be limited to soils and to adverse affects on actually and potentially used water resources; and

(3) Environmental risks in areas which are or will be ultimately affected by the contamination including,

(a) other aquifers,

- (b) surface waters, including wetlands,
- (c) sediments,
- (d) sensitive wildlife habitats, and
- (e) sensitive areas including, but not limited to, National Parks, National Wildlife Refuges, National Forests, State Parks, State Recreation Areas, State Preserves.

[Note: The following "justification" is not applicable to a Risk Assessment prepared to develop SRLs for the site where the toxicity data are not readily available to the Department. This justification is required for a Risk Assessment prepared to develop alternative SRLs.]

D. Justification for the alternative Site Rehabilitation Levels (SRLs)_____ The purpose of this section is to provide justification on a case-by-case basis for alternative SRLs at which remedial action shall be deemed completed. Factors to be evaluated shall be, at a minimum:

(1) The present and future uses of the affected aquifer and adjacent surface waters with particular consideration of the probability that the contamination is substantially affecting or will migrate to and substantially affect a public or private source of potable water;

(2) Potential for further degradation of the affected aquifer or degradation of other connected aquifers;

(3) The technical feasibility of achieving the SRLs based on a review of reasonably available technology;

(4) Individual site characteristics, including natural rehabilitative processes; and

(5) The results of the risk assessment.

18. The Department shall review the RAJ document and determine whether it has adequately addressed the risk assessment task elements and justification. In the event that additional information is necessary to evaluate any portion of the RAJ document, the Department shall make a written request and Permittee shall provide all requested information within twenty (20) days of receipt of said request.

19. The Department shall approve or disapprove the RAJ. If the Department does not approve the alternative SRLs, the Permittee shall use the SRLs as determined by the Department. The Permittee shall implement the Feasibility Study, if required by the Department as set forth in Paragraph 26, or submit the Remedial Action Plan (RAP) as set forth in Paragraph 31.

Part 4 Remedial Planning and Remedial Actions

20. If at any time following assessment or ground water remediation, it is determined that a MOP is an acceptable alternative for the site, the Permittee shall submit a MOP to the Department either with the CAR or within sixty (60) days of receipt of written Department concurrence. Applicable portions of the MOP shall be signed and sealed pursuant to Rule 62-103.110(4), F.A.C. The MOP shall provide a technical approach and description of proposed monitoring methodologies. The MOP shall include, but may not be limited to, the following:

A. Environmental media for which monitoring is proposed, monitoring locations and rationale for the selection of each location, and proposed monitoring frequency;

B. Parameters to be analyzed, analytical methods to be used, and detection limits of these methods;

C. Methodology for evaluating contamination trends based on data obtained through the MOP and a proposed format including a time table for submittal of monitoring data and data analysis to the Department; and

D. A detailed contingency plan describing proposed actions to be taken if trends indicate that contaminant concentrations are increasing, ground water standards or criteria are exceeded for monitoring locations at which exceedances did not occur during the previous monitoring period, or monitoring data appear questionable.

21. The Department shall review the MOP, and provide the Permittee with a written response to the proposal. Any action taken by the Permittee with regard to the implementation of the MOP before the MOP has been approved shall be at the Permittee's risk and Paragraph 44 shall apply.

22. In the event that additional information is necessary for the Department to evaluate the MOP or if the MOP does not adequately address the MOP requirements set forth in Paragraph 20, the Department will make a written request to the Permittee for the information. The Permittee shall provide all requested revisions in writing to the Department within thirty (30) days from receipt of said request, unless the requested information requires additional time for a response, in which case the Permittee shall submit in writing to the Department within 30 days of the Department's request, a reasonable schedule for completing the field work needed to provide the requested information.

23. If the Department determines upon review of the resubmitted MOP that the MOP still does not adequately address the requirements in Paragraph 20, the Department may choose one of the options listed in Paragraph 43.

24. Once a MOP has been approved by the Department, it shall become effective and made a part of the Order, and shall be initiated within thirty (30) days of the Department's written notification to the Permittee that the MOP has been approved. The approved MOP shall incorporate all required modifications to the MOP identified by the Department.

25. The Permittee shall submit the required monitoring data and data analysis products to the Department according to the time table in the approved MOP. If at any time trends are discovered by the Permittee that require any action proposed in the approved contingency plan, the Permittee shall notify the Department and initiate the Contingency Plan in a timely manner. Paragraph 43 applies to any exceptions to this paragraph.

26. The Department, at its option, shall also determine from review of the CAR and other relevant information whether the Permittee should prepare and submit a FS to the Department. The Permittee may request the option to prepare a FS. Applicable portions of the FS shall be signed and sealed pursuant to Rule 62-103.110(4), F.A.C. The FS may be required in complex cases to evaluate technologies and remedial alternatives, particularly if multiple contaminant classes are

represented or multiple media are contaminated. The FS evaluates remedial technologies and remedial alternatives with the objective of identifying the most environmentally sound and effective remedial action to achieve clean up of the site to SRLs or alternative SRLs (if approved). The FS shall be completed and a report submitted within sixty (60) days of receipt of written notice that a FS is required or within the time frame approved by the Department, unless the Permittee has approval to submit a RAJ pursuant to Paragraphs 16 or 17. The FS shall include the following tasks:

A. Identify and review pertinent treatment, containment, removal and disposal technologies;

B. Screen technologies to determine the most appropriate technologies;

C. Review and select potential remedial alternatives using the following criteria:

(1) long and short term environmental effects;

(2) implementability;

(3) capital costs;

(4) operation and maintenance costs;

(5) operation and maintenance requirements;

(6) reliability;

(7) feasibility;

(8) time required to achieve clean-up; and

(9) potential legal barriers to implementation of any of the alternatives;

D. Identify the need for and conduct pilot tests or bench tests to evaluate alternatives, if necessary;

E. Select the most appropriate remedial alternative that meets the objective of the FS and the criteria under paragraph C; and

F. (If applicable and not previously addressed) Develop soil cleanup criteria such that any remaining contaminated soils will not cause groundwater contamination in excess of the SRLs or alternative SRLs referenced in paragraphs 16 or 17, 18 and 19 (if approved).

27. The FS Report shall:

A. Summarize all FS task results; and

B. Propose a conceptual remedial action plan based on the selection process carried out in the FS.

28. The Department shall review the FS Report for adequacy and shall determine whether the Department agrees with the proposed remedial action based upon the objective and the criteria specified under paragraph 26.C. In the event that additional information is necessary to evaluate the FS report, the Department shall make a written request and Permittee shall provide all requested information within thirty (30) days of receipt of said request.

29. If the Department does not approve of the proposed remedial action, the Department will notify the Permittee in writing of the determination. The Permittee shall then have forty-five (45) days from

the Department's notification to resubmit a proposed alternate remedial action.

30. If the Department determines upon review of the resubmitted remedial action proposal that it does not agree with the proposal, the Department may choose one of the options listed in paragraph 43.

31. Within sixty (60) days of receipt of written notice from the Department, Permittee shall submit to the Department a detailed RAP. Applicable portions of the RAP shall be signed and sealed pursuant to Rule 62-103.110(4), F.A.C. The objective of the remedial action shall be to achieve the clean up of the contaminated media to the SRLs or the approved alternative SRLs referenced in paragraphs 16 or 17, 18, and 19. The RAP shall summarize the CAR findings and conclusions and state the approved SRLs for all media. The RAP shall include as applicable:

A. Rationale for the remedial action proposed which shall include at a minimum:

(1) Results from any pilot studies or bench tests;

(2) Evaluation of results for the proposed remedial alternative based on the following criteria:

a. long and short term environmental impacts;

b. implementability, which may include, but not be limited to, ease of construction, site access, and necessity for permits;

c. operation and maintenance requirements;

d. estimates of reliability;

e. feasibility; and

f. estimates of costs.

(3) (If applicable and not previously addressed) Soil cleanup criteria such that any remaining contaminated soils will not cause groundwater contamination in excess of the SRLs or alternative SRLs referenced in paragraphs 16 or 17, 18, and 19.

B. Design and construction details and specifications for the remedial alternative selected;

C. Operational details of the remedial action including the disposition of any effluent, expected contaminant concentrations in the effluent, an effluent sampling schedule if treated ground water is being discharged to soils, to ground water or to surface waters, and the expected concentrations and approximate quantities of any contaminants which are reasonably expected to be discharged into the air as a result of remedial action;

D. Tables which summarize the proposed samples and analyses for each pertinent medium and include the appropriate number and type of quality assurance samples consistent with the requirements of Part 1;

E. Details of the treatment or disposition of any contaminated soils or sediments;

F. Proposed methodology including post remedial action soil sampling and ground water monitoring as applicable for evaluation of the site status after the remedial action is complete to verify accomplishment of the objective of the RAP; and

G. Schedule for the completion of the remedial action.

32. The Department shall review the proposed RAP and provide Permittee with a written response to the proposal. Any action taken by the Permittee with regard to the implementation of the RAP before the RAP has been approved shall be at Permittee's risk and Paragraph 44 shall apply.

33. In the event that additional information is necessary for the Department to evaluate the RAP, or if the RAP does not adequately address the objectives and requirements set forth in Paragraph 31, the Department will make a written request to the Permittee for the information. The Permittee shall provide all requested revisions in writing to the Department within forty five (45) days from receipt of said request, unless the requested information requires additional time for a response, in which case the Permittee shall submit in writing to the Department, within forty five (45) days of the Department's request, a reasonable schedule for completing the work needed to provide the requested information.

34. If the Department determines upon review of the resubmitted RAP that the RAP adequately addresses the objectives set forth in paragraph 31, then the Department shall approve the RAP. If the Department determines that the RAP still does not adequately address the requirements of the RAP, the Department may choose one of the options listed in Paragraph 43.

35. Once a RAP has been approved by the Department, it shall become effective and made a part of the Order and shall be initiated within thirty (30) days from receipt of the Department's notification to the Permittee that the RAP has been approved. The approved RAP shall incorporate all required modifications to the RAP identified by the Department. All reporting and notification requirements spelled out in Part 6 below shall be complied with during the implementation of the RAP tasks.

36. If at any time during RAP implementation, it becomes apparent that the selected remedial alternative or treatment technology will be unable to achieve the SRLs, the Permittee may conduct a FS pursuant to Paragraph 26 to evaluate other alternatives and technologies to improve site remediation.

Part 5 Termination of Remedial Actions

37. Following termination of remedial action (clean up of contaminated media to the approved SRLs), designated monitoring wells shall be sampled on a schedule approved by the Department.

38. Following completion of monitoring requirements pursuant to the approved MOP or of the remedial action and post-remedial action monitoring, the Permittee shall submit a Site Rehabilitation Completion Report (SRCR) to the Department for approval. The SRCR shall contain documentation that site cleanup objectives have been achieved. Applicable portions of the SRCR shall be signed and sealed pursuant to Rule 62-103.110(4), F.A.C.

39. Within sixty (60) days of receipt of the SRCR, the Department shall approve the SRCR or make a determination that the SRCR does not contain reasonable assurances that site clean-up objectives have been achieved. If the Department determines that the SRCR is not adequate based upon information provided, the Department will notify the Permittee in writing. Site rehabilitation activities shall not be

deemed completed until such time as the Department provides the Permittee with written notice that the SRCR is approved.

Part 6 Progress Reporting and Notifications

40. On the first working day of each month, or on another schedule approved by the Department after initiating an IRAP, CAP or RAP, Permittee shall submit written progress reports to the Department. These progress reports shall evaluate progress, describe the status of each required IRAP, CAP and RAP task, and discuss any new data. The effectiveness of the IRAP and RAP shall be evaluated. The Progress Reports shall propose modifications and additional work as needed. The reports shall be submitted until planned tasks have been completed in accordance with the approved IRAP, CAP, or RAP. Each final report shall be signed and sealed by the appropriate professional pursuant to Rule 62-103.110(4), F.A.C. The final report shall include all data, manifests, and a detailed summary of the completed work.

41. The Permittee shall notify the Department at least ten days prior to installing monitoring or recovery wells, and shall allow Department personnel the opportunity to observe the location and installation of the wells. All necessary approvals must be obtained from the water management district before the Permittee installs the wells.

42. The Permittee shall notify the Department at least ten (10) days prior to any sampling, and shall allow Department personnel the opportunity to observe sampling or to take split samples. When the Department chooses to split samples, the raw data shall be exchanged between the Permittee and the Department as soon as the data are available.

Part 7 Conflict Resolution and Other Requirements

43. In the event that the Department determines a document to be inadequate or if there are disagreements, the Department, at its option, may choose to do any of the following:

A. Draft specific modifications to the document and notify the Permittee in writing that approval of the document is being granted contingent upon those modifications being incorporated into the document.

B. Resolve the issues through repeated correspondence, telephone discussions, and/or meetings.

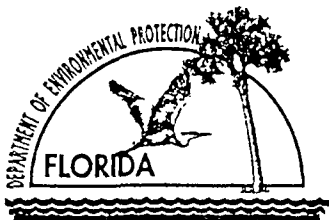
C. Notify the Permittee that Permittee has failed to meet the stated objectives for the document, in which case the Department may do any or all of the following: take legal action to enforce compliance with the Order; file suit to recover damages and civil penalties; or complete the corrective actions outlined herein and recover the costs of completion from the Permittee.

44. The Permittee is required to comply with all applicable local, state and federal regulations and to obtain any necessary approvals/permits from local, state and federal authorities in carrying out these corrective actions.

45. The Permittee shall immediately notify the Department of any circumstances encountered by the Permittee which require modification of

any task in the approved IRAP, CAP or RAP, and obtain Department approval prior to implementing any such modified tasks.

46. With regard to any agency action or determination made or taken by the Department under any of the provisions of this document "Corrective Actions for Contamination Site Cases", that portion of the Order containing dispute resolution procedures and remedies shall apply.



Department of Environmental Protection

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DEP Form # 62-711.900(4)

Form Title Waste Tire Processing Facility Quarterly Report

Effective Date February 28, 1988

DEP Application No. _____
(Filled in by DEP)

Waste Tire Processing Facility Quarterly Report

Pursuant to Rule 62-711.530, Florida Administrative Code, the owner or operator of a waste tire processing facility shall submit the following information to the Department quarterly.

Quarter covered by this report: _____ (First quarter begins on January 1 of any given year)

1. Facility name: _____

2. Facility mailing address: _____

City: _____ County: _____ Zip: _____

3. Facility permit number: _____

4. Facility telephone number: (_____) _____

5. Authorized person preparing report: _____

6. Affiliation with facility: _____

7. Telephone number (if different from above): (_____) _____

8. Activity: Report in tons.

| | Beginning Inventory | Received | Processed | Consumed | Removed | Adjustments | Ending Inventory |
|-------------------|---------------------|----------|-----------|----------|---------|-------------|------------------|
| Used Tires | | | | | | | |
| Other whole tires | | | | | | | |
| Processed tires | | | | | | | |
| Processing Waste | | | | | | | |
| Other | | | | | | | |
| Total | | | | | | | |

a. Explain all inventory adjustments. _____

b. List any period in which one or more category of inventory exceeded the permitted maximum for that category. How was that condition relieved? _____

_____ For any excess inventory at the end of the quarter, state how and when this condition will be relieved. Attach additional sheets, if necessary. _____

9. Certification:

To the best of my knowledge and belief, I certify the information provided in this report is true, accurate and complete.

Name of Authorized Agent

Signature of Authorized Agent

Date

Mail complete form to
the appropriate district office
Page 1 of 1