



Lee Martin

# Department of Environmental Protection

Lawton Chiles  
Governor

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

Virginia B. Wetherell  
Secretary

RECEIVED  
NOV 06 1995  
DEPT OF ENV PROTECTION  
WEST PALM BEACH

## NOTICE OF PERMIT

CERTIFIED

Z-188 599 762

OCD-SW-95-0349

Keene Road Landfill, Inc.  
Post Office Box 498  
Clarcona, Florida 32710

Attention: James E. O'Connor, President

Orange County - SW  
Keene Road Landfill, Inc. -  
Soil Recycling Center/Bioremediation

Dear Mr. O'Connor:

Enclosed is Permit Numbers SC48-263591 & SO48-263594 to construct and operate the soil recycling center/bioremediation facility, issued pursuant to Section(s) 403.061(14) and 403.707, Florida Statutes.

Any party to this Order (permit) has the right to seek judicial review of the permit 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, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; 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 this Notice is filed with the Clerk of the Department.

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

Vivian G. Garfein  
Director of District Management

DATE: October 17, 1995

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

*J. Fulmer*      10/17/95  
Clerk                      Date

*RS. DRM*  
VFG/gc/ew

Copies furnished to:

Ronald R. DeBattista, P.E. - Waste Management, Inc. of Florida  
Mary Jean Yon - FDEP - Tallahassee  
Orange County Resource Recovery Department/J. McDonald  
Orange County Environmental Protection Department

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed  
before the close of business on 10/17/95 to the listed persons,  
by *Luey Albrecht*.



# Department of Environmental Protection

Lawton Chiles  
Governor

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

Virginia B. Wetherell  
Secretary

Permittee:  
Keene Road Landfill, Inc.  
Post Office Box 498  
Clarcona, Florida 32710

Attention: Mr. James E. O'Connor,  
President

I. D. Number:  
Permit/Certification Number  
SC48-263591 & SO48-263594  
Date of Issue:  
Expiration Date: 1/10/2000  
County: Orange  
Section/Township/Range:  
21/21 South/28 East  
Latitude/Longitude:  
28°38'23"/81°30'56"  
Project: Keene Road Landfill, Inc.-  
Soil Recycling Center/Bioremediation

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-4, 62-701, and 62-775. The above named permittee is hereby authorized to perform the work or operate 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 construct and operate the Keene Road Landfill, Inc. - Soil Recycling Center/Bioremediation facility. The bioremediation process will be located at an approximately four acre project area within the Parcel I section of the permitted landfill. An eighteen inch separation barrier will be constructed within the project area to separate the contaminated soil from the prepared subbase and underlying existing soils. The contaminated storage and treatment piles are required to be covered with a synthetic material at all times except during material handling. The remediated soil will be used for cover and other general fill construction projects at Keene Road Landfill or used off-site as a clean fill for general construction projects.

The project incorporates a ground water monitoring plan.

LOCATION: The Keene Road Landfill, Inc. - Soil Recycling Center/Bioremediation facility is located approximately two miles south of Apopka, north of Keene Road, west of Old Apopka-Clarcona Road, and east of Lake Maynard at 255 W. Keene Road in northwest Orange County, Florida.

General Conditions are attached.

DER FORM 62-1.201(5) Effective November 30, 1982 Page 1 of 6.

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

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust-Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, 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 and at reasonable times, access to the premises where the permitted activity is located or conducted to:
  - (a) Have access to and copy any records that must be kept under conditions of the permit;
  - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

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

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

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

GENERAL CONDITIONS:

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Section 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
11. This permit is transferable only upon Department approval in accordance with Rule 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. This permit also constitutes:
  - ( ) Determination of Best Available Control Technology (BACT)
  - ( ) Determination of Prevention of Significant Deterioration (PSD)
  - ( ) Certification of compliance with state Water Quality Standards (Section 401, PL 92-500)
  - ( ) Compliance with New Source Performance Standards
14. The permittee shall comply with the following:
  - (a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
  - (b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
  - (c) Records of monitoring information shall include:
    1. the date, exact place, and time of sampling or measurements;
    2. the person responsible for performing the sampling or measurements;
    3. the dates analyses were performed;
    4. the person responsible for performing the analyses;
    5. the analytical techniques or methods used;
    6. the results of such analyses.
15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

PERMITTEE:  
Keene Road Landfill, Inc.

Attention: James E. O'Connor, President

I. D. Number  
Permit/Certification Number:  
SC48-263591 & SO48-263594  
Date of Issue:  
Expiration Date: 1/10/2000

**SPECIFIC CONDITIONS:**

1. **Plans and Specifications:** Drawings, plans, documents and specifications submitted by the permittee, not attached hereto, but remain on file at the Central District office, are made a part of this permit.
2. **Inspection Requirements:** A copy of the permit, with a complete copy of the permit application and engineering drawings shall be kept on file at the landfill for inspection and review upon request.
3. **Other Permits:** This permit does not relieve the permittee from complying with any other appropriate stormwater, MSSW or other permit requirements.
4. **Signs:** Signs indicating the name of the operating authority, traffic flow, hours of operation, charges for disposal and the types of wastes accepted shall be placed at all entrances to the site.
5. **Site Access:** Access to the site shall be restricted by an effective barrier designed to prevent unauthorized entry and dumping.
6. **Dust, Litter and Fire Protection:** The facility shall have litter control devices, dust controls, fire protection and fire-fighting facilities.
7. **Safety Devices:** Safety devices shall be provided on equipment to shield and protect the operators from potential hazards during operation.
8. **Effluent Discharge:** There shall be no discharge of liquid effluents or contaminated runoff to surface or ground water without prior approval from this Department.
9. **Surface Water Management:** All surface water runoff from the site shall be collected and treated to meet the requirements of Chapters 62-3, 62-4 and 62-25, F.A.C. prior to discharge off-site. The surface water management system shall prevent surface water flow into soil pile areas.
10. **Soil Treatment Area:** The working floor shall consist of a twelve inch layer of low permeability soil overlain by a six inch layer of shredded waste tires, compost and/or gravel. The hydraulic conductivity of the low permeability soil shall be equal to or less than  $1.0 \times 10^{-7}$  cm/sec.
11. **Liner Destruction Prevention:** A six inch layer of shredded tires, mulch or gravel placed on top of the working floor will be uncovered when deconstruction of the remediated soil pile is complete. The shredded tire or alternative material layer shall be used as a marker to prevent liner destruction and replenished to design dimensions following deconstruction.

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SC48-263591 & SO48-263594  
Date of Issue:  
Expiration Date: 1/10/2000

**SPECIFIC CONDITIONS:**

12. **Soil Run-off Prevention:** A containment berm shall be constructed around each proposed operating pile and temporary stockpile to prevent run-off from or onto the contaminated soil.  
  
Contaminated soil shall be covered with a synthetic material at the end of each operating day during pile construction, during periods of rainfall, and when the pile construction is complete to prevent rainfall or stormwater from infiltrating the soil pile.
13. **Contaminated Soil Characteristics:** This Soil Recycling Center/Bioremediation facility shall receive only petroleum contaminated soil as defined in Rule 62-775.200(9), F.A.C.
14. **Criteria For Clean Soil:** The soil shall be considered treated when it meets the criteria set forth in Rule 62-775.400, F.A.C., as determined by the method set forth in Rule 62-775.410, F.A.C.
15. **Contaminated Soil Transfer:** Soil may not be removed from the facility unless it is treated, except to another permitted treatment or disposal site.
16. **Leachate:** Accumulated liquids not required for use in maintaining optimum moisture content or to propagate microorganisms, shall be managed off-site at a wastewater treatment plant.
17. **Process Air:** Operation of the Soil Recycling Center shall require that all process air be recycled.
18. **Well Design:** Should the wells produce water with elevated turbidity, they will be abandoned and replaced with wells which are assured of having 2 inch thick filter packs.
19. **Ground Water Monitoring:** The Ground Water Monitoring Plan attached as Exhibit I, is made a part of this permit.
20. **Operations Record Keeping:** The facility operator shall retain all records regarding the operation for a period of three years unless otherwise indicated by the Florida Department of Environmental Protection. All records shall be made available to the Florida Department of Environmental Protection or a duly authorized representative of the Florida Department of Environmental Protection, for review during normal business hours.
21. **Treatment/Control System Malfunction:** The system shall be shut down upon detection of any malfunctions of the treatment/control system. If repairs cannot be made in a timely fashion, the affected petroleum contamination soils shall be immediately disposed of at a lined landfill or thermal treatment facility.

PERMITTEE:  
Keene Road Landfill, Inc.

Attention: James E. O'Connor, President

I. D. Number  
Permit/Certification Number:  
SC48-263591 & SO48-263594  
Date of Issue:  
Expiration Date: 1/10/2000

SPECIFIC CONDITIONS:

22. **Control of Nuisance Conditions:** The owner or operator shall be responsible for the control of odors and fugitive particulates arising from this construction and operation. Such control shall minimize the creation of nuisance conditions on adjoining property. Complaints received from the general public, and confirmed by Department personnel upon site inspection, shall constitute a nuisance condition, and the permittee must take immediate corrective action to abate the nuisance. The owner or operator shall control disease vectors so as to protect the public health and welfare.
23. **Permit Renewal:** The construction shall reasonably conform to the plans and supporting documents submitted as part of the application. If the permittee is unable to complete the construction on schedule, he must notify the Department in writing 60 days prior to the expiration of the construction permit and submit a request for renewal of the construction permit.

An operation permit renewal must be submitted at least 60 days prior to the expiration of the permit. (Rule 62-4.090, F.A.C.).

ISSUED

*October 17, 1995*  
STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

*Vivian F. Garfein*  
Vivian F. Garfein  
Director of District Management  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803



EXHIBIT I

KEENE ROAD LANDFILL  
SOIL RECYCLING CENTER/ BIOREMEDIATION

GMS #: 3048P00058

MONITORING PLAN IMPLEMENTATION SCHEDULE

GENERAL

1. The permittee must initiate implementation of this Monitoring Plan within sixty (60) days from the date of permit issuance.
2. The field testing, sample collection and preservation and laboratory testing, including quality control procedures, shall be in accordance with Chapter 62-160 Florida Administrative Code (F.A.C.). Approved methods as published by the Department or as published in Standard Methods, ASTM, or EPA Methods shall be used.
3. The organization collecting samples at this site must have or obtain a Comprehensive Quality Assurance Plan approved by the Department's Quality Assurance Section (Tallahassee). A copy of this plan and the approved annual plan updates shall be provided to the Department. This plan or its equivalent must be followed for the collection, preservation and transport of water samples for this facility under this permit. Any equivalent plan must be approved by the Department prior to sample collection. Sampling personnel must have a copy of the quality assurance plan for purging and sampling in the field when sampling and must be knowledgeable of its contents, procedures, and forms. The laboratory designated to conduct the chemical analyses must have or obtain a Comprehensive Quality Assurance Plan approved by the Department's Quality Assurance Section (Tallahassee) for the parameters included in this monitoring plan.
4. If, at any time, analyses show that ground water standards or minimum criteria are exceeded in the detection wells or at the edge of the Zone of Discharge, the Permittee shall resample the wells within fifteen (15) days after the sampling data are received, to confirm the data. Should the permittee choose not to resample, the Department will consider the water quality analysis as representative of current ground water conditions at the facility. If the data are confirmed, or if the permittee chooses not to resample, the permittee shall notify the Department in writing within 14 days of this finding. Upon notification by the Department, the permittee shall initiate assessment monitoring in accordance with Rule 62-701.510(7) F.A.C..

5. The Department must be notified in writing at least fourteen (14) days prior to the installation and/or sampling of any monitoring well(s).

#### GROUND WATER QUALITY MONITORING

6. The eight (8) ground water monitoring wells designated for water quality testing are listed on Attachment A and are shown on Attachment B. The wells and piezometers for water level measurements are shown on Attachment B.

NOTE: Unless otherwise approved by the Department, wells with high turbidities must be remediated or reinstalled to reduce the turbidity value to less than 20 NTU's prior to sample collection. Should any ground water sample exhibit dissolved oxygen concentrations greater than 20% of oxygen saturation at the field measured temperature, the sampled well must be repurged then resampled as soon as an acceptable dissolved oxygen value has been attained unless it can be demonstrated that insitu ground water contains higher levels of dissolved oxygen. All water quality analyses will be performed on unfiltered samples unless approved by the Department.

7. Samples from the eight (8) ground water monitoring wells shall be collected quarterly and analyzed as follows: pH (field), specific conductance (field), turbidity (field), dissolved oxygen (field), temperature (field), EPA Method 602, EPA Method 610, arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver. All analyses must use detection limits at or below State Standards;

8. Ground water levels in all wells, whether sampled or not, and all piezometers must be measured to the nearest 0.01 foot and reported quarterly unless required more frequently by permit condition. All water level measurements must be made within a one day period. These measurements must be referenced to the National Geodetic Vertical Datum of 1929 (NGVD).

#### MONITORING WELL REQUIREMENTS

9. New monitoring wells MW-11A, MW-11B, MW-12A, MW-12B, MW-13A, MW-13B, MW-14A and MW-14B shall be installed within sixty (60) days from the date of permit issuance.

10. If a monitoring well becomes damaged or inoperable, the Permittee shall notify the Department in writing within seven (7) days. The written report shall describe what problem has

occurred and the remedial measures that have been taken to prevent a recurrence. The Department can require the replacement of inoperable monitoring wells.

11. New or replacement monitoring well design or placement must be approved by the Department. Proposed well construction details based on site specific borings must be submitted with all supporting data (grain size analyses, in-situ hydraulic conductivity testing, depth to water, etc.) for Department approval prior to well installation. Use of hollow stem auger equipment is recommended. Other drilling methods must be approved by the Department prior to well installation.

12. All wells shall be clearly and permanently labeled and the well site maintained so that the well is visible at all times. Protective barriers must be installed at all wells which may be subject to damage by heavy equipment or traffic.

13. An abandonment plan for abandoning any well which is unsuitable for ground water monitoring must be approved by the Department prior to abandonment.

#### REPORTING REQUIREMENTS

##### GENERAL

14. Well completion reports for new monitor wells MW-11A, MW-11B; MW-12A, MW-12B, MW-13A, MW-13B, MW-14A and MW-14B must be submitted to the Department on the attached Ground Water Monitoring Well Completion Report Form thirty (30) days after installation. Note that the latitude and longitude in degrees, minutes and seconds of each well must be provided on the form. In addition, as-built well construction diagrams and soil boring logs that cover the entire depth of the monitoring wells must be submitted to the Department

15. A survey drawing must be submitted within sixty (60) days following monitor well installation showing the location of all monitor wells (active and abandoned), water bodies and waste filled areas. The location of features on the survey drawing must be horizontally located by standard surveying techniques. The survey drawing shall include the monitor well name and identification number as well as the location and elevation, referenced to NGVD, of all wells, permanent benchmark(s) and/or corner monument marker(s) at the site. The survey shall be conducted and certified by a Florida Registered Surveyor.

##### QUARTERLY

16. Ground water quality analyses shall include the parameters described above. Parameter Report Forms (DEP Form 62-522.900(2)) are attached for reporting quarterly analyses. In order to facilitate entry of this data into the State computer system,

these forms or exact replicas must be used and must not be altered as to content. If these forms are computerized, the completed forms should be submitted on an IBM formatted diskette along with the hardcopy. The original copies of the forms should be retained so that the necessary information is available to properly complete future reports. The laboratory sheets shall be submitted for all analyses. The quarterly submittal shall also include Chain of Custody sheets, field data sheets and a summary of any water quality standards or minimum criteria that are exceeded. Monitoring test results must be submitted to the Department within fourteen (14) days of receipt from the laboratory.

17. Water levels in all monitoring wells, whether sampled or not, all piezometers and all surface water sites must be measured to the nearest 0.01 foot and reported quarterly unless required more frequently by permit condition. All water level measurements must be made within a one day period. These measurements should be reported in a table that includes well or surface water point name, date water level measured, measuring point elevation referenced to NGVD, depth to water and calculated water level elevation referenced to NGVD.

18. A ground water contour map for each monitored aquifer zone must be submitted quarterly to the Department. The map(s) must incorporate adjacent and on-site surface water elevations where appropriate.

#### ANNUALLY

19. A total depth measurement must be made on all wells annually, beginning with the initial monitoring. This measurement is to be reported as total apparent depth below ground surface and should be compared to the original total depth of the well.

20. A technical report shall be submitted to the Department annually, and shall be updated at the time of permit renewal. The report shall summarize and interpret the water quality data and water level measurements collected during the past two (2) years. The report shall contain, at a minimum, the following:

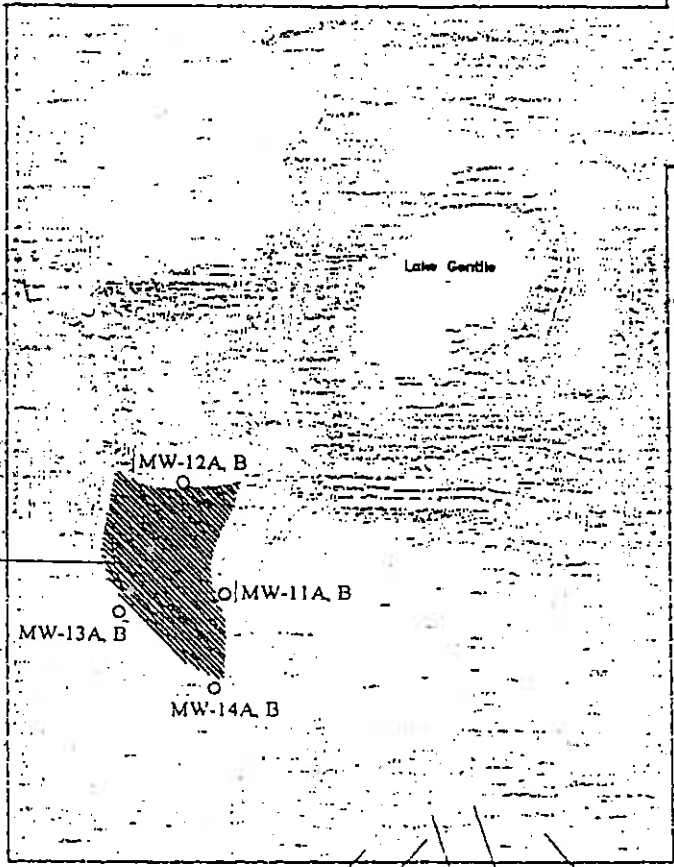
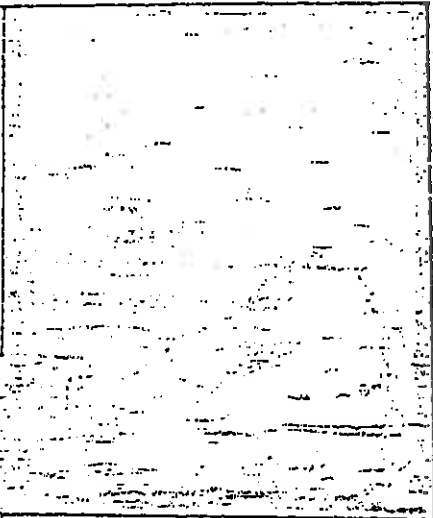
- a. Tabular and graphical displays of any data which shows that a monitoring parameter has been detected, including hydrographs for all monitor wells.
- b. Trend analyses of any monitoring parameters detected.
- c. Comparisons among shallow, middle, and deep zone wells.
- d. Comparison between upgradient and downgradient wells.
- e. Correlation between related parameters such as total dissolved solids and specific conductance.
- f. Discussion of erratic and/or poorly correlated data.
- g. An interpretation of the ground water contour maps, including an evaluation of ground water flow rates.

- h. An evaluation of the adequacy of the water quality monitoring frequency and sampling locations based upon site conditions.

This report must be signed and sealed pursuant to Florida Statutes (F.S.) Chapters 471 and 472 which require that documents requiring the practice of professional engineering or professional geology, as described in Chapter 471 or 472, F.S., be signed and sealed by the professional(s) who prepared or approved them. This certification must be made by a registered professional who is able to demonstrate competence in the subject area(s) addressed within the sealed document.



North



Proposed Soil Recycling Center



LEGEND

- PROPOSED MONITORING WELL CLUSTER SET
- Each Cluster Set Will Consist Of A Shallow And An Intermediate Depth Well

- Site Office Trailer
- Scale House
- Parking
- Operation and Maintenance Building
- Entrance
- CareTaker Facility

DWG: 3370108

**RUST** ENVIRONMENT & INFRASTRUCTURE

# Florida Department of Environmental Protection

Suite 232 3319 Maguire Boulevard Orlando, Florida 32803

## GROUND WATER MONITORING REPORT Rule 62-522.600(11)

### PART I GENERAL INFORMATION

- (1) Facility Name Keene Road Landfill Soil Recycling Center/ Bioremediation  
Address \_\_\_\_\_  
City \_\_\_\_\_ Zip \_\_\_\_\_ County Orange  
Telephone Number ( ) \_\_\_\_\_
- (2) Facility Gms Number 3048P00058
- (3) DEP Permit Number SC48-263591/ SO48-263594
- (4) Authorized Representative's Name \_\_\_\_\_ Title \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ Zip \_\_\_\_\_ County \_\_\_\_\_  
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 submission false information including the possibility of fine and imprisonment.

\_\_\_\_\_

Owner or Authorized Representative's Signature

### PART II QUALITY ASSURANCE REQUIREMENTS

- Sampling Organization Comp QAP # \_\_\_\_\_
- Analytical Lab Comp QAP #/ HRS Certification \_\_\_\_\_
- Lab Name \_\_\_\_\_
- Address \_\_\_\_\_
- Phone Number ( ) \_\_\_\_\_



KEENE ROAD LANDFILL  
SOIL RECYCLING CENTER/ BIOREMEDIATION

PARAMETER MONITORING REPORT  
(Rule 17-520.400, 17-520.420, 17-520.460)

Ground Water Monitoring (Page 1)

FACILITY GMS# 3048P00058 SAMPLE DATE/ TIME \_\_\_\_\_

MONITORING WELL GMS# \_\_\_\_\_ ANALYSIS DATE \_\_\_\_\_

WELL NAME \_\_\_\_\_ Well Purged\* (Y/N): \_\_\_\_\_

CLASSIFICATION OF GROUNDWATER G-II WELL TYPE: ( ) Background

( ) Detection

Ground Water Elevation (NGVD): \_\_\_\_\_ Ft ( ) Compliance

( ) Other

or (MSL): \_\_\_\_\_ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
000010	Temperature (field)					°C	
000299	Dissolved Oxygen (field by probe)					mg/L	
000406	pH (field)					STD	
000094	Spec. Conductance (field)					umhos/cm	
082078	Turbidity (field)					NTU's	
	<u>METALS</u>						
001002	Arsenic					ug/L	-
01007	Barium					ug/L	-
001027	Cadmium					ug/L	
001034	Chromium					ug/L	
001051	Lead					ug/L	
71900	Mercury					ug/L	
01147	Selenium					ug/L	
01077	Silver					ug/L	
	<u>EPA METHOD 602</u>						
034030	Benzene					ug/L	
034371	Ethylbenzene					ug/L	
034010	Toluene					ug/L	
034020	Xylenes					ug/L	

\*Well Purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.

KEENE ROAD LANDFILL  
SOIL RECYCLING CENTER/ BIOREMEDIATION

PARAMETER MONITORING REPORT  
(Rule 17-520.400, 17-520.420, 17-520.460)

Ground Water Monitoring (Page 2)

FACILITY GMS# 3048P00058 SAMPLE DATE/ TIME \_\_\_\_\_

MONITORING WELL GMS# \_\_\_\_\_ ANALYSIS DATE \_\_\_\_\_

WELL NAME \_\_\_\_\_ Well Purged\* (Y/N): \_\_\_\_\_

CLASSIFICATION OF GROUNDWATER G-II WELL TYPE: ( ) Background

( ) Detection

Ground Water Elevation (NGVD): \_\_\_\_\_ Ft ( ) Compliance

( ) Other

or (MSL): \_\_\_\_\_ Ft

STORET CODE	PARAMETER MONITORED	SAMPLING METHOD	FIELD FILTERED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DETECTION LIMITS/ UNITS
	<u>EPA METHOD 610</u>						
34205	Acenaphthene					ug/L	
34200	Acenaphthylene					ug/L	
34220	Anthracene					ug/L	
34526	Benzo (a) anthracene					ug/L	
34247	Benzo (a) pyrene					ug/L	
34230	Benzo (b) fluoranthene					ug/L	
34521	Benzo (g, h, i) perylene					ug/L	
34242	Benzo (k) fluoranthene					ug/L	
34320	Chrysene					ug/L	
03658	Dibenzo (a, h) anthracene					ug/L	
34376	Fluoranthene					ug/L	
34381	Fluorene					ug/L	
34403	Indeno (1, 2, 3-cd) pyrene					ug/L	
77418	1-Methylnaphthalene					ug/L	
77416	2-Methylnaphthalene					ug/L	
34696	Naphthalene					ug/L	
34461	Phenanthrene					ug/L	
34469	Pyrene					ug/L	

\*Well Purging is the process of pumping the well prior to sampling in order to obtain a representative ground water sample.  
DEP Form 17-522.900(2) Effective April 14, 1994

# Florida Department of Environmental Protection

Suite 232 3319 Maguire Boulevard Orlando, Florida 32803

## MONITORING WELL COMPLETION REPORT

DATE \_\_\_\_\_

FACILITY NAME: Keene Road landfill Soil Recycling Center/ Bioremediation

DER PERMIT NO.: SC48-263591/ SO48-263594 FACILITY GMS NO: 3048P00058

WELL GMS NO.: \_\_\_\_\_ WELL NAME: \_\_\_\_\_

WELL TYPE: BACKGROUND \_\_\_\_\_ DETECTION \_\_\_\_\_ COMPLIANCE \_\_\_\_\_

LATITUDE AND LONGITUDE: \_\_\_\_\_

AQUIFER MONITORED: \_\_\_\_\_

DRILLING METHOD: \_\_\_\_\_ DATE INSTALLED: \_\_\_\_\_

INSTALLED BY: \_\_\_\_\_

BORE HOLE DIAMETER: \_\_\_\_\_ TOTAL DEPTH: \_\_\_\_\_ (BLS)

CASING TYPE: \_\_\_\_\_ CASING DIAMETER: \_\_\_\_\_ CASING LENGTH: \_\_\_\_\_

SCREEN TYPE: \_\_\_\_\_ SCREEN SLOT SIZE: \_\_\_\_\_ SCREEN LENGTH: \_\_\_\_\_

SCREEN DIAMETER: \_\_\_\_\_ SCREEN INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

FILTER PACK TYPE: \_\_\_\_\_ FILTER PACK GRAIN SIZE: \_\_\_\_\_

INTERVAL COVERED: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

SEALANT TYPE: \_\_\_\_\_ SEALANT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

GROUT TYPE: \_\_\_\_\_ GROUT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

TOP OF CASING ELEVATION (NGVD): \_\_\_\_\_ GROUND SURFACE ELEVATION (NGVD): \_\_\_\_\_

DESCRIBE WELL DEVELOPMENT: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): \_\_\_\_\_

DATE AND TIME MEASURED: \_\_\_\_\_

REMARKS: \_\_\_\_\_

\_\_\_\_\_

NAME OF PERSON PREPARING REPORT: \_\_\_\_\_

(Name, Organization, Phone No.)

NOTE ATTACH AS-BUILT MW CONSTRUCTION DIAGRAM AND LITHOLOGIC LOG.  
(NGVD) NATIONAL GEODETIC VERTICAL DATUM OF 1929

(BLS) = BELOW LAND SURFACE