



Florida Department of Environmental Protection

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

CERTIFIED MAIL 7008 0150 0003 4893 7223
RETURN RECEIPT REQUESTED

October 28, 2008

NOTICE OF PERMIT

Clark Environmental, Inc.
755 North Prairie Industrial Parkway
Mulberry, FL 33860

Attn: Ms. Elizabeth G. Clark

Re: Clark Environmental, Inc., Mulberry Facility
Water Quality Monitoring Permit #215408-002-SO(GW)
Polk County

Dear Ms. Clark:

Attached is **Permit #215408-002-SO(GW)**, issued pursuant to Section(s) 403.087(1), Florida Statutes. This letter and its attachments constitute a **complete permit**, and **replace** all previous permits and permit modifications for the above referenced facility.

The Department's proposed agency action shall become final unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, Florida Statutes (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;
- (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, warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of the specific rules or statutes the petitioner contends require 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.

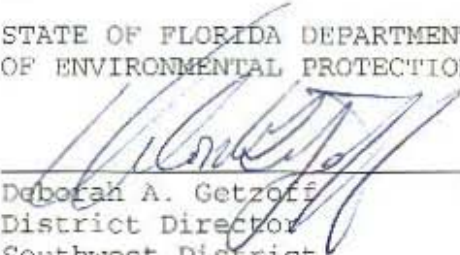
Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of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

In accordance with Section 120.573, F.S., the Department advises that mediation is not available in this case under the provisions of that statute. This does not prevent any interested parties from agreeing to other forms of alternate dispute resolution.

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 Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


Deborah A. Getzoff
District Director
Southwest District

DAG/jrm
Attachment

Copies furnished to:

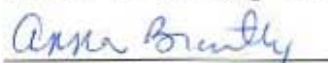
Folk County Board of County Commissioners
Folk County Notification List
Mark Stephens, P.G., P.E., The Colinas Group, email: stephensmr@cs.com
Ronni Moore, OGC Tallahassee (email)
Richard Tedder, P.E., FDEP Tallahassee (email)
Fred Wick, FDEP Tallahassee (email)
(Permit Notebook)

CERTIFICATE OF SERVICE

This undersigned duly designated deputy clerk hereby certifies that this **NOTICE OF PERMIT** and all copies was mailed to the addressee before the close of business on Oct. 28, 2008.
(date stamp)

Other copies were transmitted electronically to the listed persons.

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to Section 120.52(10), Florida Statutes, with the designated Department, Clerk, receipt of which is hereby acknowledged.


Clerk

10/28/2008
Date



Florida Department of Environmental Protection

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Charlie Crist
Governor

Jeff Kottkamp
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Michael W. Sole
Secretary

PERMITTEE

Clark Environmental, Inc.
755 North Prairie Industrial Pkwy.
Mulberry, FL 33860

Attn: Ms. Elizabeth G. Clark,
President

PERMIT/CERTIFICATION

WACS ID No: SWD/53/51555
Permit No: 215408-002-SO (GW)
Date of Issue: 10/28/2008
Expiration Date: 10/28/2013
County: Polk
Lat/Long: 27° 54' 09"
81° 59' 36"
Sec/Town/Rge: 3/30 S/23 E
Project: Clark Env., Inc., Mulberry
Facility, Water Quality
Monitoring Permit

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Chapters 62-4, 62-302, 62-520, 62-522, 62-550, 62-701, 62-713 and 62-770, Florida Administrative Code (F.A.C.). The above named permittee is hereby authorized to perform the work and conduct the monitoring at the facility as shown on the application and approved drawing(s), plans and other documents, attached hereto or referenced in Specific Condition #A.2. and made a part hereof and specifically described as follows:

To implement a combined monitoring plan for the activities conducted at the Clark Environmental, Inc., facility located at 755 North Prairie Industrial Parkway, Mulberry, Polk County, Florida. The monitoring activities described herein address the environmental monitoring requirements of current Solid Waste Processing Permit #38627-004-SO and current Soil Thermal Treatment Permit #138634-003-SO, and successor permits, and are subject to the specific and general conditions attached.

The Clark Environmental, Inc., facility in Mulberry includes five buildings where solid wastes, and petroleum contaminated soils or soil-like materials are processed or treated, as follow:

- Building #1 - non-hazardous solid waste material processing for disposal at permitted landfills or wastewater treatment facilities
- Building #2 - non-hazardous solid waste material processing for thermal treatment or disposal at wastewater treatment facilities
- Building #3 - storage of unprocessed petroleum contaminated soil and soil-like materials, and of non-hazardous coal tar and creosote contaminated soil
- Building #4 - storage of unprocessed petroleum contaminated soil and soil-like materials, and of non-hazardous coal tar and creosote contaminated soil
- Building #5 - soil thermal treatment processing equipment, storage of unprocessed petroleum contaminated soil and soil-like materials, and of non-hazardous coal tar and creosote contaminated soil, and storage of processed but unverified treated soil

This permit authorizes only the ground water and surface water monitoring of the Clark Environmental, Inc., Mulberry facility to demonstrate compliance with Department standards and criteria.

Replaces Permit #38627-005-SO (GW) [including modifications]

This permit contains compliance items summarized in Attachment 1 that shall be complied with and submitted to the Department by the dates noted. If the compliance dates are not met and submittals are not received by the Department on the dates noted, enforcement action may be initiated to assure compliance with the conditions of this permit.

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.161, 403.727, or 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
 - (a) Have access to and copy any records that must be kept under conditions of the permit;
 - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
 - (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

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

GENERAL CONDITIONS:

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- (a) A description of and cause of noncompliance; and
- (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida 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 62-4.120 and 62-730.300, Florida Administrative Code, 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:

- (a) Determination of Best Available Control Technology (BACT)
- (b) Determination of Prevention of Significant Deterioration (PSD)
- (c) Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)
- (d) Compliance with New Source Performance Standards

GENERAL CONDITIONS:

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.

SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements

1. **Facility Designation.** The Clark Environmental, Inc., Mulberry facility shall be classified as a materials processing and soil treatment facility for the processing and treatment of **non-hazardous** materials only. The operation of this facility is subject to the definitions, list of permitted materials and specific conditions presented in permit #38627-004-SO [solid waste processing activities] and #138634-003-SO [soil thermal treatment activities], or successor permits.
2. **Permit Application Documentation.** This permit is valid for ground water and surface water monitoring of activities related to solid waste processing and soil thermal treatment at the Mulberry facility operated by Clark Environmental, Inc., in accordance with all applicable requirements of Department rules, and in accordance with the reports, plans and other information, as follows:
 - a. Application for Monitoring Plan Approval, DEP Form #62-522.900(1), signed October 12, 2007, received October 16, 2007;
 - b. Document entitled "Water Quality Monitoring Plan, Pending Permit #215408-002-SO(GW), Revision 2.0," [3-ring binder] prepared by The Colinas Group, dated May 2, 2008, received May 12, 2008; including replacement pages submitted in response to request for additional information (Revision 2.1), prepared by The Colinas Group, dated July 21, 2008, received July 21, 2008 [inserted into 3-ring binder].
3. **Permit Modifications.** Any activities not previously approved as part of this permit may require a separate permit unless the Department determines a permit modification to be more appropriate. Permits shall be modified in accordance with the requirements of Rule 62-4.080, F.A.C. A modification which is reasonably expected to lead to substantially different environmental impacts which require a detailed review by the Department is considered a substantial modification.
4. **Permit Renewal.** No later than April 15, 2013, the permittee shall apply for a renewal of this water quality monitoring permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules. Applications for permit renewal shall include a demonstration of compliance with any applicable new or revised laws or rules relating to water quality monitoring.
5. **Professional Certification.** Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.), Florida Statutes, applicable portions of permit applications and supporting documents which are submitted to the Department for public record shall be signed and sealed by the professional(s) who prepared or approved them.
6. **General Conditions.** The permittee shall be aware of and operate under the "General Conditions". General Conditions are binding upon the permittee and enforceable pursuant to Chapter 403, Florida Statutes.
7. **Permit Acceptance.** By acceptance of this Permit, the Permittee certifies that he/she has read and understands the obligations imposed by the Specific and General Conditions contained herein and also including date of permit expiration and renewal deadlines. It is a violation of this permit for failure to comply with all conditions and deadlines.

SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements

8. **Regulations.** The following regulations and effective dates are incorporated into this permit by reference:

- Chapter 62-4, F.A.C., effective date April 2, 2008
- Chapter 62-302, F.A.C., effective date April 2, 2008
- Chapter 62-520, F.A.C., effective date December 9, 1996
- Chapter 62-522, F.A.C., effective date August 27, 2001
- Chapter 62-550, F.A.C., effective date September 18, 2007
- Chapter 62-701, F.A.C., effective date May 27, 2001
- Chapter 62-713, F.A.C., effective date August 5, 1999
- Chapter 62-770, F.A.C., effective date December 27, 2007

In the event that these regulations governing this permit are revised, the Department shall notify the permittee, and the permittee shall request modification of those specified conditions that are affected by the revision of regulations to incorporate those revisions.

9. **Prohibitions.** The prohibitions of Rule 62-701.300, F.A.C., shall not be violated by the activities at this facility.

a. In the event that surface depressions or other occurrences which may be indicative of sinkhole activity or subsurface instability, are discovered onsite, or within 500 feet of the site, the Department shall be notified in accordance with Specific Condition #C.6.b. The written notification shall include a description of the incident, the location and size of the affected area shown on an appropriate plan sheet, and a corrective action plan which describes the actions necessary to prevent the unimpeded discharge of waste or leachate into ground or surface water.

b. Open burning of solid waste is prohibited except in accordance with Rule 62-701.300(3) and Chapter 62-256, F.A.C. All fires which require longer than one (1) hour to extinguish must be promptly reported to the Department in accordance with Specific Condition #C.6.b.

SPECIFIC CONDITIONS: PART B - Construction Requirements

1. **Construction.** All construction activities shall be approved by the Department prior to initiating work, unless specifically authorized otherwise.

SPECIFIC CONDITIONS: PART C - Operation Requirements

1. **Facility Operation Requirements.** The permittee shall operate this facility in accordance with Chapters 62-701 and 62-713, F.A.C., and in accordance with the requirements of permits #38627-004-SO [solid waste processing activities] and #138634-003-SO [soil thermal treatment activities], or successor permits.

2. **Operating Personnel.** Sufficient trained personnel shall be on duty at the facility whenever the facility is operating and during environmental sample collection events.

3. **Control of Access.** Access to, and use of, the facility shall be controlled. Adequate access to the waste processing and soil thermal treatment areas shall be provided for all weather conditions.

4. **Monitoring of Waste.** The permittee shall not accept hazardous waste or any hazardous substance at this site. Hazardous wastes are wastes listed in 40 CFR 261 Subpart D as hazardous or are wastes characterized in 40 CFR 261 Subpart C as hazardous. Hazardous substances are those defined in Section 403.703, Florida Statutes, or in any other applicable state or federal law or administrative rule. Sludges or other wastes which may be hazardous should be disposed of in accordance with Rules 62-701.300(4) and 62-701.500(6)(b), F.A.C. In the event that hazardous wastes are discovered, the Department shall be notified in accordance with Specific Condition #C.6.b.

5. **Control of Nuisance Conditions.** The owner or operator shall control odors, vectors (mosquitoes, other insects, rodents), and fugitive particulates (dust, smoke) arising from the operation so as to protect the public health and welfare. 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.

6. **Facility Maintenance and Repair.**

a. The facility shall be properly maintained including maintenance of access roads, equipment, processing buildings, stormwater management system, and ground water monitoring system. Erosion and ponded water in processing areas shall be prevented. Erosion in the stormwater management system shall be minimized.

b. In the event of damage to any portion of the facility, such as unauthorized leachate discharge, failure of any portion of the facility systems, damaged or dry ground water monitoring wells, fire, explosion, the development of sinkhole(s) or other subsurface instability at the site, etc., the permittee shall **immediately (within 24 hours)** notify the Department explaining such occurrence and remedial measures to be taken, method to prevent reoccurrence, and time needed for repairs. Written, detailed notification shall be submitted to the Department within seven (7) days following the occurrence.

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.6., cont'd)

c. In the event that any portion of the ground water monitoring system is damaged or unable to be sampled, corrective actions shall be completed **within sixty (60) days** of the written notification specified in Specific Condition #C.6.b., unless otherwise approved by the Department. Corrective actions which include relocation or installation of new ground water monitoring wells shall be in accordance with Specific Condition #E.5., or as otherwise approved by the Department.

d. In the event that the storm water management system is damaged or is not operating effectively, corrective actions shall be implemented **within thirty (30) days** of the written notification specified in Specific Condition #C.6.b., unless otherwise approved by the Department.

7. **Stormwater System Management.** The facility shall have a surface water management system operated and maintained to prevent surface water from running onto waste unloading, loading, processing and storage areas, and a stormwater runoff control system operated and maintained to collect and control stormwater to meet the requirements of Chapter 62-330, F.A.C., and other applicable Department rules, and the requirements of the Southwest Florida Water Management District.

8. **Leachate Management.** Leachate shall be managed in accordance with the requirements of permits #38627-004-SO [solid waste processing activities] and #138634-003-SO [soil thermal treatment activities], or successor permits.

SPECIFIC CONDITIONS: PART D - Recordkeeping

1. **Report submittals.** Unless otherwise specified, all submittals, notifications, requests for permit modification, reports for compliance with this permit, etc., shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.

2. **Operation Plan and Operating Record.** The facility's owner or operator shall comply with the operational plans referenced in permits #38627-004-SO [solid waste processing activities] and #138634-003-SO [soil thermal treatment activities], or successor permits. Copies of the Department approved permits, operational plans, construction reports and record drawings, and supporting information shall be kept at the facility at all times for reference and inspections. Operational records as required by Rules 62-701.710(9) and 62-713.500(5), F.A.C., are part of the operations plan, and shall also be maintained at the facility.

3. **Waste Records.** Waste quantity records shall be maintained in accordance with the requirements of permits #38627-004-SO [solid waste processing activities] and #138634-003-SO [soil thermal treatment activities], or successor permits.

4. **Financial Assurance.** Financial assurance cost estimates and proof of funding shall be submitted in accordance with the requirements of permits #38627-004-SO [solid waste processing activities] and #138634-003-SO [soil thermal treatment activities], or successor permits.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

1. Water Quality Monitoring Quality Assurance.

a. All field work done in connection with the facility's Water Quality Monitoring Plan regarding the collection of ground water and surface water samples shall be conducted in accordance with the Standard Operating Procedures (SOPs) described in DEP-SOP-001/01 (February 1, 2004) [or as replaced by successor SOPs], as referenced in Rule 62-160.210(1), F.A.C. All laboratory analyses done in connection with the facility's Water Quality Monitoring Plan shall be conducted by firms that hold certification from the Department of Health, Environmental Laboratory Certification Program under Chapter 64E-1, F.A.C., as referenced in Rule 62-160.300(1), F.A.C. The SOPs utilized and the laboratory's list of certified test methods and analytes must specifically address the types of sampling and analytical work that are required by the permit and shall be implemented by all persons performing sample collection or analysis related to this permit. Alternate field procedures and laboratory methods may be used if approved according to the requirements of Rules 62-160.220 and 62-160.330, F.A.C., respectively.

b. The field testing, sample collection and preservation, and laboratory testing, including the collection of quality control samples, shall be in accordance with methods approved by the Department in accordance with Rule 62-4.246 and Chapter 62-160, F.A.C. Approved methods published by the Department or as published in Standard Methods, A.S.T.M., or EPA methods shall be used.

2. Zone of Discharge.

a. The zone of discharge for this facility shall extend horizontally 100 feet from the processing, treatment and storage areas, or to the property boundary, whichever is less, and shall extend vertically to the bottom of the surficial aquifer.

b. 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 according to Rule 62-520.420, F.A.C., and that the minimum criteria listed in Rule 62-520.400, F.A.C., will not be exceeded outside the footprint of the processing, treatment and storage areas.

3. Ground Water Monitor Well Locations. The ground water monitoring well network for the facility shall be located as shown on Plate #3, entitled "Monitoring Stations and Zone of Discharge," prepared by The Colinas Group, Inc., received May 12, 2008 (attached), as follow:

WACS Testsite				
Well #	ID #	Aquifer	Designation	Location
MW-1	19960	Surficial	Background	See Plate #3
MW-4	19963	Surficial	Background	↓
MW-5	19964	Surficial	Intermediate	↓
MW-8	20267	Surficial	Intermediate	↓
MW-10	20655	Surficial	Intermediate	↓
MW-11	20657	Surficial	Intermediate	↓
MW-12	20657	Surficial	Intermediate	↓
MW-13	23062	Surficial	Compliance	↓
MW-14	23063	Surficial	Compliance	↓
MW-15	23064	Surficial	Compliance	↓
MW-2 *	19961	Surficial	Abandoned	See Plate #3
MW-9 *	20268	Surficial	Abandoned	↓
PZ-1	NA	Surficial	Piezometer	See Plate #3
PZ-2	NA	Surficial	Piezometer	↓
PZ-3	NA	Surficial	Piezometer	↓
PZ-4	NA	Surficial	Piezometer	↓
PZ-5	NA	Surficial	Piezometer	↓

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

(Specific Condition #E.3., continued)

- = to be abandoned **within 30 days of issuance of permit #215408-002-SO(GW)**; documentation of well abandonment shall be submitted in accordance with Specific Condition #E.6.

All monitor wells and piezometers are to be clearly labeled and easily visible at all times. The permittee should keep all monitor wells and piezometers locked to minimize unauthorized access.

4. Ground Water Sampling. The locations, parameters, and frequencies specified herein represent the minimum requirements for ground water monitoring. Additional samples, wells, and parameters may be required based upon subsequent analysis. Method Detection Limits must be less than or equal to the Maximum Contaminant Levels established for the individual parameters to demonstrate compliance with Class G-II ground water standards referenced in Chapter 62-520.420, F.A.C., and with the ground water minimum criteria referenced in Chapter 62-520.400, F.A.C. Compliance with ground water standards and minimum criteria shall be based on the analysis of unfiltered samples.

a. Ground water levels shall be measured at all active wells and piezometers listed in Specific Condition #E.3., during all sampling events described in Specific Condition #E.4.b., #E.4.c., and #E.4.d., to a precision of 0.01 foot. Surface water elevations in the stormwater pond located north of Building #5 shall also be measured during all sampling events described in Specific Condition #E.4.b., #E.4.c., and #E.4.d., to a precision of 0.01 foot. Ground water surface elevation contour maps for the surficial aquifer shall be prepared for each sampling event and shall include ground water elevations (using a consistent, nationally recognized datum) calculated for each monitor well and piezometer, and the surface water elevation (using a consistent, nationally recognized datum) calculated for the storm water pond.

b. An "initial sampling event" shall be conducted at all new or replacement wells **within 7 days of well installation and development** for analysis of the following parameters:

Field Parameters
Static water levels
before purging
Specific conductivity
pH
Dissolved oxygen
Temperature
Turbidity
Colors & sheens
(by observation)

Laboratory Parameters
Total ammonia - N
Chlorides
Iron
Mercury
Nitrate
Sodium
Total dissolved solids(TDS)
Parameters listed in 40 CFR Part 258,
Appendix II

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

(Specific Condition #E.4., continued)

c. Routine ground water sampling events shall be conducted at the background, intermediate and compliance wells listed in Specific Condition #E.3. [MW-1, MW-4, MW-5, MW-8, MW-10, MW-11, MW-12, MW-13, MW-14 and MW-15], **semi-annually** for analysis of the following parameters:

Field Parameters
Static water levels
before pumping
Specific conductivity
pH
Temperature
Turbidity
Dissolved oxygen
Color & sheens
(by observation)

Laboratory Parameters
Antimony
Arsenic
Barium
Cadmium
Chromium
Iron
Lead
Mercury
Selenium
Silver
Thallium
Total ammonia - N
Chlorides
Nitrate
Parameters listed in EPA Method #624 and #625

d. The background, intermediate and compliance wells listed in Specific Condition #E.3. [MW-1, MW-4, MW-5, MW-8, MW-10, MW-11, MW-12, MW-13, MW-14 and MW-15], shall be sampled **at least once prior to permit renewal** for analysis of the parameters listed in Rule 62-701.510(8)(a), F.A.C, including:

Field Parameters
Static water levels
before purging
Specific conductivity
pH
Dissolved oxygen
Temperature
Turbidity
Colors & sheens
(by observation)

Laboratory Parameters
Total ammonia - N
Chlorides
Iron
Mercury
Nitrate
Sodium
Total dissolved solids(TDS)
Parameters listed in 40 CFR Part 258.
Appendix I

5. Ground Water Monitor Well Construction. The following information is required to be submitted **within 90 days of installation** of all new or replacement monitor wells and piezometers, or as stated below:

a. Prior to the construction of all new or replacement wells and piezometers, the permittee shall request and receive Department approval of a minor permit modification in accordance with Specific Condition #A.3.

b. Construction details (record drawings) for all new or replacement wells and piezometers shall be provided to the Department's Southwest District Office on Department Form #62-522.900(3), Monitor Well Completion Form (**attached**) [or as replaced by Department Form #62-701.900(30)].

c. Within 7 days of well completion and development, each new or replacement well shall be sampled for the parameters listed in Specific Condition #E.4.b., to comply with the requirements of Rules 62-701.510(8)(a) and 62-701.510(8)(d), F.A.C.

d. A surveyed drawing shall be submitted in accordance with Rule 62-701.510(3)(d)(1), F.A.C., showing the location of all monitor wells and piezometers (active and abandoned), horizontally located in degrees, minutes and seconds of latitude and longitude, and the elevation of the top of the well casing and ground surface by the well casing to the nearest 0.01 foot, using a consistent, nationally recognized datum. The surveyed drawing shall include the monitor well identification numbers, locations and elevations of all permanent benchmarks and/or corner monument markers at the site. The survey shall be conducted by a Florida Licensed Professional Surveyor and Mapper.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

6. Well Abandonment. All active wells and piezometers not listed in Specific Condition #E.3., and not a part of the approved Water Quality Monitoring Plan shall be plugged and abandoned in accordance with Rule 62-532.440, F.A.C., and the rules of the Southwest Florida Water Management District (SWFWMD). Documentation of abandonment shall include a map showing well/piezometer locations and SWFWMD abandonment records. The permittee shall submit a written report to the Department providing verification of the well/piezometer abandonment **within 30 days of abandonment**. A written request for exemption to the abandonment of a well must be submitted to the Department's Solid Waste Section for approval.

7. Verification/Evaluation Monitoring. If at any time monitoring parameters are detected at concentrations significantly above background water quality, or exceed the Department's water quality standards or minimum criteria in any intermediate well, the Permittee has 30 days from receipt of the sampling results to resample the monitor well(s) to verify the original analysis. 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 is 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 evaluation monitoring as described in Rule 62-701.510(7)(a), F.A.C. If monitoring parameters are detected at concentrations significantly above background water quality, and exceed the Department's water quality standards or minimum criteria in any compliance well, the Permittee shall submit a preventive measures plan and initiate corrective action as described in Rule 62-701.510(7)(b), F.A.C.

8. Surface Water Sampling. All surface water bodies that may be affected by a contaminant release at the facility shall be monitored, except bodies of water contained completely within the property boundaries of the site which do not discharge from the site to surface waters (Rule 62-701.510(4), F.A.C.). The locations, parameters, and frequencies specified herein represent the minimum requirements for surface water monitoring. Additional surface water sampling may be required based upon subsequent analysis. Method Detection Limits must be less than or equal to the Maximum Contaminant Levels established for the individual parameters to demonstrate compliance with Class III (predominantly fresh water) surface water criteria referenced in Chapter 62-320, F.A.C. Compliance with surface water criteria shall be based on the analysis of unfiltered samples.

a. Surface water samples shall be collected from the stormwater pond north of Building #5 at the locations shown on Plate #3, entitled "Monitoring Stations and Zone of Discharge," prepared by The Colinas Group, Inc., received May 12, 2008 (**attached**), as follow:

<u>Location #</u>	<u>Description</u>	<u>WACS Testsite ID #</u>	<u>Location</u>
S-3	Within the stormwater pond, near the outlet structure	22636	See Plate 3
S-4	Pond discharge outfall	22637	0

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

(Specific Condition #E.8., continued)

b. Surface water samples shall be collected within the stormwater pond at location S-3 **semi-annually** for the periods from January 1-June 30 and July 1-December 31 of each year. Surface water samples shall be collected at the outfall structure at location S-4 **per discharge event** from the stormwater pond. The collection of a discharge event sample at location S-4 during any semi-annual sampling period shall satisfy the requirement to collect a sample from location S-3 for that same semi-annual period. Surface water samples at location S-4 shall be collected **within 48 hours of the initiation of the discharge event**. In the event that discharge has ceased prior to being able to collect a sample at location S-4, a sample shall be collected at location S-3 to represent that particular discharge event. For the purposes of this Specific Condition, a single discharge event is considered to include the 7-day period following cessation of discharge into the outfall structure. The permittee shall keep a daily log indicating the staff gauge reading and if water is discharging into the outfall structure of the stormwater pond. The Solid Waste Section of the Department's Southwest District office shall be notified of the occurrence of each discharge event **within 24 hours of discovery**.

c. Surface water samples collected at locations S-3 and S-4 shall be analyzed for the following parameters:

Field Parameters

Staff gauge water level
before sampling
Specific Conductivity
pH
Dissolved oxygen
Turbidity
Temperature
Colors and sheens
(by observation)

Laboratory Parameters

Antimony
Arsenic
Barium
Cadmium
Chromium
Copper
Iron
Lead
Mercury
Selenium
Silver
Thallium
Total hardness
Unionized ammonia
Parameters listed by EPA
Method #624 and #625

d. Surface water elevations (using a consistent, nationally recognized datum) shall be measured at the staff gauge in the storm water pond (SG-1) during all sampling events described in Specific Condition #E.4.b., #E.4.c., #E.4.d., and #E.8.b., to a precision of 0.01 foot.

9. **Leachate Sampling.** Leachate management shall be conducted in accordance with the requirements of permits #38627-004-SO [solid waste processing activities] and #138634-003-SO [soil thermal treatment activities], or successor permits.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

10. Water Quality and Leachate Reporting Requirements. The results of each ground water and surface water sampling event conducted at the facility to comply with the Specific Conditions of this permit shall be included in reports that provide the following:

Electronic Data Deliverable (EDD) Portions of Report:

- An EDD on compact disk or flash drive media readable by Microsoft Windows in a format consistent with the requirements for evaluating the data and importing it into the Department databases that includes both field sampling data and laboratory data. The requirements for preparation of the EDD can be obtained on the Department's website at: <http://www.dep.state.fl.us/labs/dqa/adaptedms.htm>. The EDD shall provide the information required by Rules 62-701.510(9)(a)1 through 62-701.510(9)(a)7, F.A.C.

Hard Copy Portions of Report:

- Department Form 62-701.900(31) ["Water Quality Monitoring Certification"], certifying that the permittee has reviewed and approved the laboratory results;
- Certified laboratory report of results;
- Chain-of-custody documentation;
- Department SOP Form FD 9000-24 ["Ground Water Sampling Log"] for ground water sampling events; and,
- The information required by Rules 62-701.510(9)(a)8 through 62-701.510(9)(a)10, F.A.C.

The permittee shall submit to the Department the results of analyses conducted for each sampling event conducted at the facility by the following due dates:

- a. Specific Condition #E.4.b. - results of ground water "initial sampling events" shall be submitted **within 60 days from completion of laboratory analyses;**
- b. Specific Condition #E.4.c. - results of ground water routine semi-annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15th and July 15th of each year** for the periods July 1-December 31, and January 1-June 30, respectively;
- c. Specific Condition #E.4.d. - results of the ground water "renewal sampling event" shall be submitted **within 60 days from completion of laboratory analyses and no later than April 15, 2013;**
- d. Specific Condition #E.7. - results of ground water verification events shall be submitted **within 60 days from completion of laboratory analyses;**
- e. Specific Condition #E.8.b. - results of surface water routine semi-annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15th and July 15th of each year** for the periods July 1-December 31, and January 1-June 30, respectively;
- f. Specific Condition #E.8.b. - results of surface water "discharge sampling events" shall be submitted **within 60 days from completion of laboratory analyses.**

The results shall be submitted to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, FL 33637-0926.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

11. **Monitoring Plan Evaluation.** By October 15, 2010 and April 15, 2013, the permittee shall submit an evaluation of the water quality monitoring data. The periods of time to be covered by the evaluations are summarized below:

<u>Water Quality Monitoring Data Evaluation Due Date</u>	<u>Starting Sampling Event</u>	<u>Ending Sampling Event</u>
October 15, 2010	Second half 2007	First half 2010
April 15, 2013	Second half 2010	Second half 2012

The evaluations shall include the applicable information as listed in Rule 62-701.510(9)(b), F.A.C., and shall include assessment of the effectiveness of the existing facility design and operation as related to the prevention of ground water and surface water contamination. Results of the ground water "renewal sampling event" required in Specific Condition #E.4.d., shall be included in the evaluation that is due by April 15, 2013. Any contamination that may exist shall be addressed as part of evaluation monitoring conducted at the facility in accordance with Rule 62-701.510(7), F.A.C. The evaluations shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, FL 33637-0926.

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

(THERE ARE NO LANDFILL GAS MANAGEMENT REQUIREMENTS FOR THIS FACILITY)

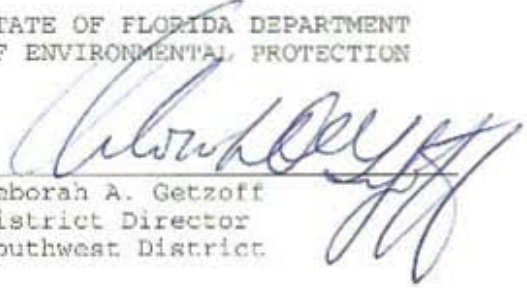
SPECIFIC CONDITIONS: PART G - Closure and Long-Term Care Requirements

1. **Closure Requirements.**

a. **Long-Term Care Requirements.** The owner or operator shall provide notification to the Department prior to ceasing operations in accordance with the requirements of permits #38627-004-SO [solid waste processing activities] and #138634-003-SO [soil thermal treatment activities], or successor permits.

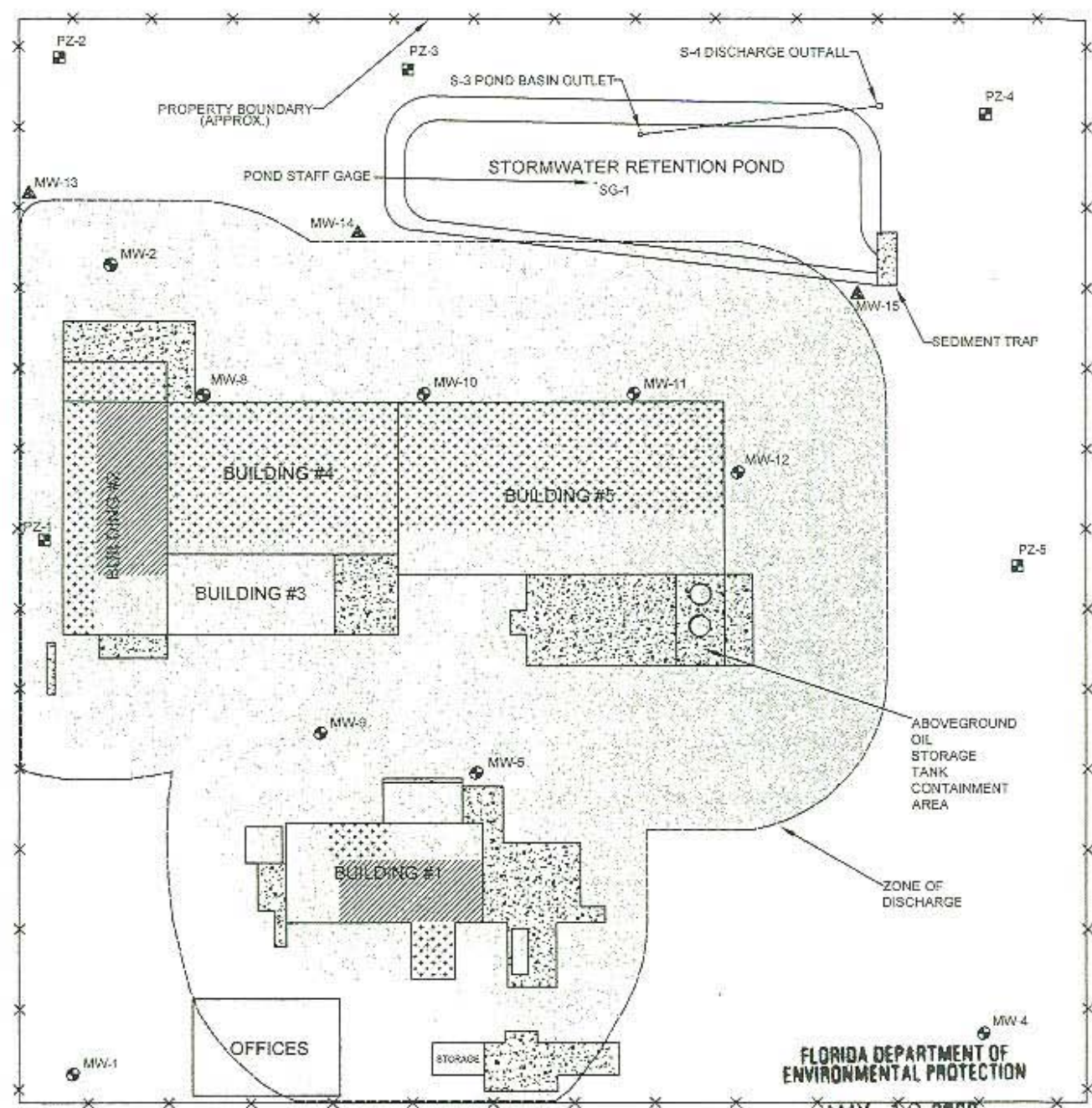
Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


Deborah A. Getzoff
District Director
Southwest District

ATTACHMENT 1

Specific Condition	Submittal Due Date	Required Item
A.4.	April 15, 2013	Submit permit renewal application
C.6.b.	Within 24 hours of discovery	Notification of: unauthorized leachate discharge, failure of facility systems, damaged or dry monitor wells, occurrence of sinkhole or subsidence feature
	Within 7 days of verbal notification	Written notification & corrective action plan
C.6.c.	Within 60 days of written notification	Complete corrective actions for ground water monitoring system
C.6.d.	Within 30 days of written notification	Complete corrective actions for storm water monitoring system
E.4.c.	Semi-annually	Sample all ground water monitor wells
E.5.b., E.5.d., E.5.c.	Within 90 days of installation of new wells	Provide construction details for wells, submit survey drawing
	Within 1 week of well development	Conduct initial sampling event
E.6.	Within 30 days of abandonment	Submit documentation of abandonment
E.8.b.	Semi-annual and/or per discharge event	Conduct surface water sampling
E.10.	Semi-annually, by January 15 th and July 15 th of each year	Submit ground water quality monitoring analyses (SC#E.4.c.) and surface water quality monitoring analyses (SC#E.8.b.)
	Within 60 days of completion of laboratory analyses	Submit initial ground water sampling results (SC#E.4.b.), ground water verification sampling results (SC#E.7.), and surface water discharge event sampling results (SC#E.8.b.),
	By April 15, 2013	Submit ground water renewal sampling event results (SC#E.4.d.)
E.11.	By October 15, 2010 and by April 15, 2013	Submit water quality monitoring plan evaluations



LEGEND



CONCRETE PAD

SOLID WASTE PROCESSING AREAS

SOLID WASTE STORAGE AREAS

MW-2

MONITOR WELL LOCATION AND IDENTIFICATION

SG-1

STAFF GAGE LOCATION AND IDENTIFICATION

PZ-5

MONITOR WELL LOCATION AND IDENTIFICATION

MW-13

PROPOSED MONITOR WELL LOCATION AND IDENTIFICATION

SCALE: 1" = 100'



CLARK ENVIRONMENTAL, INC.

THE COLINAS GROUP, INC.
ENGINEERING AND ENVIRONMENTAL CONSULTANTS

2031 EAST EDGEWOOD DRIVE, SUITE 5, LAKELAND, FLORIDA 33805
PHONE 863-669-9141 - FAX 863-669-1742
LAKELAND - SARASOTA - WINTER PARK

DATE
03-05-2008

JOB NO.
S-512

PLATE NO.
3

MONITORING STATIONS
AND ZONE OF DISCHARGE

MULBERRY SOIL THERMAL
TREATMENT FACILITY

DEP Form # 62-622.900(3)
Form Title <u>MONITOR WELL COMPLETION REPORT</u>
Effective Date _____
DEP Application No. _____ (Filled in by DEP)

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

MONITOR WELL COMPLETION REPORT

DATE: _____

INSTALLATION NAME: _____

DEP PERMIT NUMBER: _____ GMS NUMBER: _____

WELL NUMBER: _____ WELL NAME: _____

DESIGNATION: Background _____ Immediate _____ Compliance _____

LATITUDE/LONGITUDE: _____

AQUIFER MONITORED: _____

INSTALLATION METHOD: _____

INSTALLED BY: _____

TOTAL DEPTH: _____ (bls) DEPTH OF SCREEN: _____ (bls)

SCREEN LENGTH: _____ SCREEN SLOT SIZE: _____ SCREEN TYPE: _____

CASING DIAMETER: _____ CASING TYPE: _____

LENGTH OF CASING: _____ FILTER PACK MATERIAL: _____

TOP OF CASING ELEVATION (MSL): _____

GROUND SURFACE ELEVATION (MSL): _____

COMPLETION DATE: _____

DESCRIBE WELL DEVELOPMENT: _____

POST DEVELOPMENT WATER LEVEL ELEVATION (MSL): _____

DATE AND TIME MEASURED: _____

REMARKS: (soils information, stratigraphy, etc.): _____

REPORT PREPARED BY: _____
(name, company, phone number)

NOTE: PLEASE ATTACH BORING LOG.

(bls)= Below Land Surface