

PRELIMINARY DETERMINATION

PERMIT RENEWAL AND MODIFICATION

City Of Oxford
42 Public Works Drive
Oxford, Alabama 36203

City of Oxford Landfill
Permit No. 08-08

October 21, 2025

The City of Oxford has submitted to the Alabama Department of Environmental Management (ADEM) an application to renew and an application to modify the Solid Waste Disposal Facility Permit for the City of Oxford Landfill (Permit No. 08-08). The proposed modification would increase the permitted disposal area from 10.51 acres to 16.74 acres. The waste stream for the City of Oxford Landfill would remain non-putrescible and non-hazardous construction and demolition waste and rubbish as defined by ADEM Admin. Code 335-13-1-.03 and discarded tires. The service area for the City of Oxford Landfill would remain the City of Oxford, Alabama. The maximum average daily volume of waste disposed at the landfill would remain 200 cubic yards per day. All other permit conditions would remain unchanged.

The City of Oxford Landfill is located in the Northwest $\frac{1}{4}$ and Northeast $\frac{1}{4}$ of Section 25, Township 16 South, Range 7 East in Calhoun County, Alabama. The permitted facility consists of approximately 67.04 acres with 16.74 acres approved for disposal.

The Land Division has determined that the permit renewal application and the major modification application comply with the applicable requirements of ADEM's Administrative Code Division 335-13 regulations for a construction and demolition landfill.

Technical Contact:

Melissa H. Adornato
Solid Waste Engineering Section
Land Division
(334) 270-5605

SOLID WASTE DISPOSAL FACILITY PERMIT

PERMITTEE: City of Oxford

FACILITY NAME: City of Oxford Landfill

FACILITY LOCATION: Northwest ¼ and Northeast ¼ of Section 25, Township 16 South, Range 7 East in Calhoun County, Alabama. The total permitted area is approximately 67.04 acres with 16.74 acres approved for disposal.

PERMIT NUMBER: 08-08

PERMIT TYPE: Construction/Demolition Landfill

WASTE APPROVED FOR DISPOSAL: Non-putrescible and non-hazardous construction and demolition waste and rubbish as defined by ADEM Admin. Code 335-13-1-.03. This facility has also been approved to accept discarded tires.

APPROVED WASTE VOLUME: Maximum Average Daily Volume of 200 cubic yards per day.

APPROVED SERVICE AREA: City of Oxford, Alabama

In accordance with and subject to the provisions of the Alabama Solid Wastes and Recyclable Materials Management Act, as amended, Code of Alabama 1975, SS 22-27-1 to 22-27-27 ("SWRMMA"), the Alabama Environmental Management Act, as amended, Code of Alabama 1975, SS 22-22A-1 to 22-22A-15, and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to dispose of the above-described solid wastes at the above-described facility location.

ISSUANCE DATE: ?????????????

EFFECTIVE DATE: ?????????????

EXPIRATION DATE: ?????????????

**ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
SOLID WASTE PERMIT**

Permittee: City of Oxford
42 Public Works Drive
Oxford, AL 36203

Landfill Name: City of Oxford Landfill

Landfill Location: Northwest ¼ and Northeast ¼ of Section 25, Township 16 South, Range 7 East,
Calhoun County, Alabama

Permit Number: 08-08

Landfill Type: Construction/Demolition Landfill

Pursuant to the Solid Wastes & Recyclable Materials Management Act, Code of Alabama 1975, §§ 22-27-1, *et seq.*, as amended, and attendant regulations promulgated thereunder by the Alabama Department of Environmental Management (ADEM), this permit is issued to City of Oxford (hereinafter called the Permittee), to operate a solid waste disposal facility, known as the City of Oxford Landfill.

The Permittee must comply with all terms and conditions of this permit. This permit consists of the conditions set forth herein (including those in any attachments), and the applicable regulations contained in Chapters 335-13-1 through 335-13-16 of the ADEM Administrative Code (hereinafter referred to as the "ADEM Admin. Code"). Rules cited are set forth in this document for the purpose of Permittee reference. Any Rule that is cited incorrectly in this document does not constitute grounds for noncompliance on the part of the Permittee. Applicable ADEM Administrative Codes are those that are in effect on the date of issuance of this permit or any revisions approved after permit issuance.

This permit is based on the information submitted to the Department on March 8, 2024, for permit renewal, and on February 14, 2023, for permit modification, and as amended, and known as the Permit Application (hereby incorporated by reference and hereinafter referred to as the Application). Any inaccuracies found in this information could lead to the termination or modification of this permit and potential enforcement action. The Permittee must inform the Department of any deviation from or changes in the information in the Application that would affect the Permittee's ability to comply with the applicable ADEM Admin. Code or permit conditions.

This permit is effective as of ????????????, and shall remain in effect until ??????????????, unless suspended or revoked.

Alabama Department of Environmental Management

Date Signed

SECTION I. STANDARD CONDITIONS

A. Effect of Permit

The Permittee is allowed to dispose of nonhazardous solid waste in accordance with the conditions of this permit and ADEM Admin. Code 335-13. Issuance of this permit does not convey property rights of any sort or any exclusive privilege, nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of state or local laws or regulations. Except for actions brought under Code of Alabama 1975, §§ 22-27-1, et seq., as amended, compliance with the conditions of this permit shall be deemed to be compliance with applicable requirements in effect as of the date of issuance of this permit and any future revisions.

B. Permit Actions

This permit may be suspended, revoked, or modified for cause. The filing of a request for a permit modification or the notification of planned changes or anticipated noncompliance on the part of the Permittee, and the suspension or revocation does not stay the applicability or enforceability of any permit condition.

C. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

D. Definitions

For the purpose of this permit, terms used herein shall have the same meaning as those in ADEM Admin. Code 335-13, unless this permit specifically provides otherwise; where terms are not otherwise defined, the meaning associated with such terms shall be as defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term.

1. "EPA", for purposes of this permit, means the United States Environmental Protection Agency.
2. "Permit Application", for the purposes of this permit, means all permit application forms, design plans, operational plans, closure plans, technical data, reports, specifications, plats, geological and hydrological reports, and other materials which are submitted to the Department in pursuit of a solid waste disposal permit.

E. Duties and Requirements

1. Duty to Comply

The Permittee must comply with all conditions of this permit except to the extent and for the duration such noncompliance is authorized by a variance granted by the Department. Any permit noncompliance constitutes a violation of Code of Alabama 1975, §§ 22-27-1 et seq., as amended, and is grounds for enforcement action, permit suspension, revocation, modification, and/or denial of a permit renewal application.

2. Duty to Reapply

If the Permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the Permittee must apply for and obtain a new permit. The renewal application must be submitted to the Department at least one hundred eighty (180) days before this permit expires.

3. Permit Expiration

This permit and all conditions therein will remain in effect beyond the permit's expiration date if the Permittee has submitted a timely, complete application as required by Section I, Paragraph E, Subparagraph 2, and, through no fault of the Permittee, the Department has not made a final decision regarding the renewal application.

4. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the conditions of this permit.

5. Duty to Mitigate

In the event of noncompliance with this permit, the Permittee shall take all reasonable steps to minimize releases to the environment, and shall carry out such measures as are reasonable to prevent significant adverse impacts on human health or the environment.

6. Proper Operation and Maintenance

The Permittee shall, at all times, properly operate and maintain all facilities and systems of control (and related appurtenances) that are installed or used by the Permittee to achieve compliance with the conditions of this permit.

7. Duty to Provide Information

If requested, the Permittee shall furnish to the Department, within a reasonable time, any information that the Department may reasonably need to determine whether cause exists for denying, suspending, revoking, or modifying this permit, or to determine compliance with this permit. If requested, the Permittee shall also furnish the Department with copies of records kept as a requirement of this permit.

8. Inspection and Entry

Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the employees of the Department or their authorized representative to:

- a. Enter at reasonable times the Permittee's premises where the regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit.
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit.
- c. Inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit.
- d. Sample or monitor, at reasonable times, any substances or parameters at any location for the purposes of assuring permit compliance or as otherwise authorized by Code of Alabama 1975, §§ 22-27-1 *et seq.*

9. Monitoring, Corrective Actions, and Records

- a. Samples and measurements taken for the purpose of monitoring or corrective action shall be representative of the monitored activity. The methods used to obtain representative samples to be analyzed must be the appropriate method from ADEM Admin. Code 335-13-4 or the methods as specified in the Application attached hereto and incorporated by reference. Laboratory methods must be those specified in Standard Methods for the Examination of Water

and Wastewater (American Public Health Association, latest edition), Methods for Chemical Analysis of Water and Wastes (EPA-600/4-79-020), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (EPA Publication SW-846, latest edition), other appropriate EPA methods, or as specified in the Application. All field tests must be conducted using approved EPA test kits and procedures.

- b. The Permittee shall retain records, at the location specified in Section I, Paragraph I, of all monitoring, or corrective action information, including all calibration and maintenance records, copies of all reports and records required by this permit, and records of all data used to complete the application for this permit for a period of at least three years from the date of the sample, measurement, report or record, or for periods elsewhere specified in this permit. These periods may be extended by the request of the Department at any time and are automatically extended during the course of any unresolved enforcement action regarding this facility.
- c. Records of monitoring and corrective action information shall include:
 - i. The exact place, date, and time of sampling or measurement.
 - ii. The individual(s) and company who performed the sampling or measurements.
 - iii. The date(s) analyses were performed.
 - iv. The individual(s) and company who performed the analyses.
 - v. The analytical techniques or methods used.
 - vi. The results of such analyses.
- d. The Permittee shall submit all monitoring and corrective action results at the interval specified elsewhere in this permit.

10. Reporting Planned Changes

The Permittee shall notify the Department, in the form of a request for permit modification, at least one hundred twenty (120) days prior to any change in the permitted service area, increase in the waste received, or change in the design or operating procedure as described in this permit, including any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

11. Transfer of Permit

This permit may be transferred to a new owner or operator. All requests for transfer of permits shall be in writing and shall be submitted on forms provided by the Department. Before transferring ownership or operation of the facility during its operating life, the Permittee shall notify the new owner or operator in writing of the requirements of this permit.

12. Certification of Construction

Before the Permittee may commence disposal of waste in any new cell or phase:

- a. The Permittee must submit a letter to the Department signed by both the Permittee and a professional engineer stating that the facility has been constructed in compliance with the permit.
- b. The Department must inspect the constructed cells or phases unless the Permittee is notified that the Department will waive the inspection.

- c. The Permittee may not commence disposal activities in any new cells or phases until approval of the new cells or phases is granted by the Department.

13. Noncompliance

The Permittee shall report all instances of noncompliance with the permit at the time noncompliance is discovered.

14. Other Information

If the Permittee becomes aware that information required by the Application was not submitted or was incorrect in the Application or in any report to the Department, the Permittee shall promptly submit such facts or information. In addition, upon request, the Permittee shall furnish to the Department, within a reasonable time, information related to compliance with the permit.

F. Design and Operation of Facility

The Permittee shall maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or nonsudden release of contaminants (including leachate and explosive gases) to air, soil, groundwater, or surface water, which could threaten human health or the environment.

G. Inspection Requirements

1. The Permittee shall comply with all requirements of ADEM Admin. Code 335-13-4-.21(1)(b).
2. The Permittee shall conduct random inspections of incoming loads.
3. Records of all inspections shall be included in the operating record.

H. Recordkeeping and Reporting

1. The Permittee shall maintain a written operating record at the location specified in Section I, Paragraph I. The operating record shall include:
 - a. Documentation of inspections and maintenance activities.
 - b. Daily Volume reports.
 - c. Personnel training documents and records.
 - d. Solid/Hazardous Waste Determination Forms for Industrial Wastes and associated ADEM disposal approval correspondence for industrial wastes and special wastes.
 - e. Groundwater monitoring records, if required.
 - f. Explosive gas monitoring records, if required.
 - g. Surface water and leachate monitoring records, if required.
 - h. Copies of this Permit and the Application.
 - i. Copies of all variances granted by the Department, including copies of all approvals of special operating conditions.

2. Quarterly Volume Report

Beginning with the effective date of this permit, the Permittee shall submit, within thirty (30) days after the end of each calendar quarter, a report summarizing the daily waste receipts for the previous (just ended) quarter. Copies of the quarterly reports shall be maintained in the operating record.

3. Monitoring and Corrective Action Reports

The Permittee shall submit reports on all monitoring and corrective action activities conducted pursuant to the requirements of this permit, including, but not limited to, groundwater, surface water, explosive gas, and leachate monitoring. If groundwater monitoring is required in Section IV, groundwater monitoring shall be conducted in March and September of each year, or as directed by the Department, and the reports shall be submitted at least semi-annually, or as directed by the Department. The reports should contain all monitoring results and conclusions from samples and measurements conducted during the sampling period. Explosive gas monitoring must be conducted on an annual basis, and the reports should be submitted to the Department and placed in the operating record within thirty (30) days of the monitoring event. Copies of the groundwater and explosive gas monitoring reports shall be maintained in the operating record.

4. Availability, Retention, and Disposition of Records

- a. All records, including plans, required under this permit or ADEM Admin. Code 335-13 must be furnished upon request and made available at reasonable times for inspection by any officer, employee, or representative of the Department.
- b. All records, including plans, required under this permit or ADEM Admin. Code 335-13 shall be retained by the Permittee for a period of at least three years. The retention period for all records is extended automatically during the course of any unresolved enforcement action regarding the facility, or as requested by the Department.
- c. A copy of records of waste disposal locations and quantities must be submitted to the Department and local land authority upon closure of the facility.

I. Documents to be Maintained by the Permittee

The Permittee shall maintain, at the City of Oxford Maintenance Facility, the following documents and amendments, revisions, and modifications to these documents until an engineer certifies closure.

1. Operating record.
2. Closure Plan.

J. Mailing Location

All reports, notifications, or other submissions which are required by this permit should be sent via signed mail (i.e. certified mail, express mail delivery service, etc.) or hand delivered to:

1. Mailing Address
Chief, Solid Waste Branch, Land Division
Alabama Department of Environmental Management
P.O. Box 301463
Montgomery, AL 36130-1463

2. Physical Address
Chief, Solid Waste Branch, Land Division
Alabama Department of Environmental Management
1400 Coliseum Blvd.
Montgomery, Alabama 36110-2400

K. Signatory Requirement

All applications, reports, or information required by this permit, or otherwise submitted to the Department, shall be signed and certified by the owner as follows:

1. If an individual, by the applicant.
2. If a city, county, or other municipality or governmental entity, by the ranking elected official or by a duly authorized representative of that person.
3. If a corporation, organization, or other legal entity, by a principal executive officer, of at least the level of Vice President, or by a duly authorized representative of that person.

L. Confidential Information

The Permittee may claim information submitted as confidential pursuant to ADEM Admin. Code 335-1-1-.06.

M. State Laws and Regulations

Nothing in this permit shall be construed to preclude the initiation of any legal action or to relieve the Permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation.

SECTION II. GENERAL OPERATING CONDITIONS

A. Operation of Facility

The Permittee shall operate and maintain the disposal facility consistent with the Application, this permit, and ADEM Admin. Code 335-13.

B. Open Burning

The Permittee shall not allow open burning without prior written approval from the Department and other appropriate agencies. A burn request should be submitted in writing to the Department outlining why that burn request should be granted. This request should include, but not be limited to, specifically what areas will be utilized, types of waste to be burned, the projected starting and completion dates for the project, and the projected days and hours of operation. The approval, if granted, shall be included in the operating record.

C. Prevention of Unauthorized Disposal

The Permittee shall follow the approved procedures, as provided in the Application, for detecting and preventing the disposal of free liquids, regulated hazardous waste, PCBs, regulated medical waste, and other unauthorized waste streams at the facility.

D. Unauthorized Discharge

The Permittee shall operate the disposal facility in such a manner that there will be no water pollution or unauthorized discharge. Any discharge from the disposal facility, or practice thereof, may require a National Pollutant Discharge Elimination System permit under the Alabama Water Pollution Control Act.

E. Industrial Waste Disposal

The Permittee shall not dispose of industrial waste at this landfill. Only those wastes shown in Section III, Paragraph B, are allowed for disposal in this landfill.

F. Boundary Markers

The Permittee shall ensure that the facility is identified with a sufficient number of permanent boundary markers that are at least visible from one marker to the next.

G. Certified Operator

The Permittee shall be required to have an operator certified by the Department on-site during hours of operation, in accordance with the requirements of ADEM Admin. Code 335-13-12.

SECTION III. SPECIFIC REQUIREMENTS FOR C/D LANDFILLS

A. Waste Identification and Management

1. Subject to the terms of this permit, the Permittee may dispose of the nonhazardous solid wastes listed in III, Paragraph B. Disposal of any other wastes is prohibited, except waste granted a temporary or one time waiver by the Director.
2. The total permitted area for the City of Oxford Landfill is approximately 67.04 acres with 16.74 acres permitted for disposal operations.
3. The maximum average daily volume of waste disposed at the facility shall not exceed 200 cubic yards/day. Should the average daily volume exceed this value by 20% or 100 tons/day, whichever is less, for two (2) consecutive quarters, the Permittee shall be required to modify the permit in accordance with ADEM Admin. Code 335-13-5-.06(2)(b)2. An increase in maximum average daily volume shall be approved by the Department unless the Permittee has received local approval for the increased maximum average daily volume. The average daily volume shall be computed as specified by ADEM Admin. Code 335-13-4-.23(2)(f).

B. Waste Streams

The Permittee may accept for disposal non-putrescible and non-hazardous construction and demolition waste and rubbish as defined by ADEM Admin. Code 335-13-1-.03. This facility has also been approved to accept discarded tires.

C. Service Area:

The Permittee is allowed to receive for disposal waste from the City of Oxford, Alabama.

D. Waste Placement, Compaction, and Cover

All waste shall be confined to an area as small as possible within a single working face and placed onto an appropriate slope not to exceed 4 to 1 (25%) or as otherwise approved by the Department. All waste shall be spread in layers two feet or less in thickness and thoroughly compacted weekly with adequate landfill

equipment prior to placing additional layers of waste or placing the weekly cover. A minimum of six inches of compacted earth or other alternative cover material approved by the Department and listed in Section VIII shall be added at the conclusion of each week's operation unless a variance is granted in Section VIII.

E. Liner Requirements

At this time, the Permittee shall not be required to install a liner system. The bottom of the construction and demolition waste shall be a minimum of five (5) feet above the highest measured groundwater level as determined by ADEM Admin. Code 335-13-4-.11(2)(a).

F. Security

The Permittee shall provide artificial and/or natural barriers, which prevent entry of unauthorized vehicular traffic to the facility.

G. All Weather Access Roads

The Permittee shall provide an all-weather access road to the dumping face that is wide enough to allow passage of collection vehicles.

H. Adverse Weather Disposal

The Permittee shall provide for disposal activities in adverse weather conditions.

I. Personnel

The Permittee shall maintain adequate personnel to ensure continued and smooth operation of the facility.

J. Environmental Monitoring and Treatment Structures

The Permittee shall provide protection and proper maintenance of environmental monitoring and treatment structures.

K. Vector Control

The Permittee shall provide for vector control as required by ADEM Admin. Code 335-13.

L. Bulk or Noncontainerized Liquid Waste

The Permittee shall not dispose of bulk or noncontainerized liquid waste, or containers capable of holding liquids, unless the conditions of ADEM Admin. Code 335-13-4-.23(1)(j) are met.

M. Empty Containers

Empty containers larger than 10 gallons in size must be rendered unsuitable for holding liquids prior to disposal in the landfill unless otherwise approved by the Department.

N. Other Requirements

The Department may enhance or reduce any requirements for operating and maintaining the landfill as deemed necessary by the Land Division.

O. Other Permits

The Permittee shall operate the landfill according to this and any other applicable permits.

P. Scavenging and Salvaging Operations

The Permittee shall prevent scavenging and salvaging operations, except as part of a controlled recycling effort. Any recycling operation must be in accordance with plans submitted and approved by the Department.

Q. Signs

If the landfill is available to the public or commercial haulers, the Permittee shall provide a sign outlining instructions for use of the site. The sign shall be posted and have the information required by ADEM Admin. Code 335-13-4-.23(1)(f).

R. Litter Control

The Permittee shall control litter.

S. Fire Control

The Permittee shall provide fire control measures.

SECTION IV. GROUNDWATER MONITORING REQUIREMENTS:

Groundwater monitoring is not required at this landfill provided that the waste stream is in accordance with Section III, Paragraph B. Should any waste be disposed other than the waste streams indicated in Section III, Paragraph B, the Department may require that groundwater monitoring wells be installed.

SECTION V. GAS MONITORING REQUIREMENTS

The permittee must install and maintain an explosive gas monitoring system in accordance with ADEM Admin. Code Division 335-13.

SECTION VI. SURFACE WATER MANAGEMENT REQUIREMENTS

The Permittee shall construct and maintain run-on and run-off control structures to control the discharge of pollutants to waters of the State during wet weather events. Any discharges from drainage control structures shall be permitted through a discharge permit issued by the ADEM Water Division.

SECTION VII. CLOSURE AND POST-CLOSURE REQUIREMENTS

The Permittee shall close the landfill and perform post-closure care of the landfill in accordance with ADEM Admin. Code 335-13.

A. Final Cover

The Permittee shall grade final soil cover such that surface water does not pond over the permitted area as specified in the Application. The final cover system shall comply with ADEM Admin. Code Division 335-13.

B. Vegetative Cover

The Permittee shall establish a vegetative or other appropriate cover, as approved by the Department, within ninety (90) days after completion of final grading requirements in the Application. Preparation of a vegetative cover shall include, but not be limited to, the placement of seed, fertilizer, mulch, and water.

C. Notice of Intent

The Permittee shall place in the operating record and notify the Department of their intent to close the landfill prior to beginning closure.

D. Completion of Closure Activities

The Permittee must complete closure activities of each landfill unit in accordance with the Closure Plan within one hundred eighty (180) days of the last known receipt of waste.

E. Certification of Closure

Following closure of each unit, the Permittee must submit to the Department a certification, signed by a registered professional engineer, verifying the closure has been completed according to the Closure Plan.

F. Post-Closure Care Period

Post-closure care activities shall be conducted after closure of each unit throughout the life of this permit and continuing for a period of a minimum of thirty (30) years following closure of the facility. The Department may shorten or extend the post-closure care period applicable to the solid waste disposal facility.

G. Post-Closure Maintenance

The Permittee shall provide post-closure maintenance of the facility to include regularly scheduled inspections. This shall include maintenance of the cover, vegetation, monitoring devices and pollution control equipment, and correction of other deficiencies that may be observed by the Department. Monitoring requirements shall continue throughout the post-closure period as determined by the Department unless all waste is removed and no unpermitted discharge to waters of the State have occurred.

H. Post-Closure Use of Property

The Permittee shall ensure that post-closure use of the property never be allowed to disturb the integrity of the final cover, liner, or any other component of the containment system. This shall preclude the growing of deep-rooted vegetation on the closed area.

I. Certification of Post-Closure

Following post-closure of each unit, the Permittee must submit to the Department a certification, signed by a registered professional engineer, verifying the post-closure has been completed according to the Post-Closure Plan.

J. Recording Instruments

The Permittee must provide documentation of compliance with the requirements of the Uniform Environmental Covenants Program in ADEM Admin. Code 335-5 and shall execute the following:

1. Record a notation onto the land deed within ninety (90) days from the certification of closure. This notation shall state that the land has been used as a solid waste disposal facility, the name of the Permittee, type of disposal activity, location of the disposal facility, and beginning and closure dates of the disposal activity.
2. File the covenant at the courthouse where the land deed is held within thirty (30) days of receipt of the covenant signed by ADEM's Land Division Chief.

3. The Permittee shall submit a certified copy of the recording instrument to ADEM within one hundred twenty (120) days after permit expiration, revocation, or as directed by ADEM as described in the Application.

K. Removal of Waste

If the Permittee, or any other person(s), wishes to remove waste, waste residues, or any liner or contaminated soils, the owner must request and receive prior approval from the Department.

SECTION VIII. VARIANCES

There are no approved variances for the City of Oxford Landfill.

Any variance granted by the Department may be terminated by the Department whenever the Department finds, after notice to the petitioner, that the petitioner is in violation of any requirement, condition, schedule, limitation, or any other provision of the variance, or that operation under the variance does not meet the minimum requirements established by state and federal laws and regulations or is unreasonably threatening the public health.

Permit No. 08-08 Renewal

Application

February 16, 2024
File No. 09222092.04

Mr. Jared D. Kelly, Chief
Solid Waste Engineering Section
Alabama Department of Environmental Management
1400 Coliseum Boulevard
Montgomery, AL 36130

Received
MAR 08 2024
Land Division

Subject: Request for Solid Waste Disposal Facility Permit Renewal
City of Oxford
City of Oxford Landfill
Permit No. 08-08

Dear Mr. Kelly:

On behalf of the City of Oxford (Oxford), SCS Engineers (SCS) is pleased to submit the attached application for the renewal of Solid Waste Disposal Facility Permit No. 08-08 for the City of Oxford Landfill. This permit renewal application package includes the completed ADEM Form 439, a USGS map showing the facility's location, a list of adjacent property owners, and the documentation requested in ADEM's August 7, 2023 Permit Expiration notice.

If you have any questions or comments related to this permit renewal request, please contact Kevin Frinak at kfrinak@scsengineers.com or by phone at (334) 329-4168.

Sincerely,

Robert B. Curtis, P.E.
Project Director
SCS Engineers

Kevin Frinak, EI
Project Professional
SCS Engineers

Attachments:

- A – Form 439
- B – USGS Maps
- C – List of Adjacent Property Owners
- D – Index of Permit Documents



ATTACHMENT A

**SOLID WASTE DISPOSAL FACILITY
PERMIT APPLICATION PACKAGE**

January 16, 2018

MEMORANDUM

TO: Applicants Seeking a Permit for Solid Waste Facilities

FROM: Stephen A. Cobb, Chief
Land Division
Alabama Department of Environmental Management

RE: Processing Solid Waste Permits by ADEM

Any permit issued by ADEM must be in accordance with §22-27-48 and §22-27-48.1 Code of Alabama. This section indicates that ADEM may not consider an application for a new or modified permit unless such application has received approval by the affected unit of local government having an approved plan. ADEM, therefore, will require the following before it can process a new or modified permit application:

1. The local government having jurisdiction must approve the permit application in accordance with §22-27-48 and §22-27-48.1 Code of Alabama.
2. Local governments should follow the procedures outlined in §22-27-48 and §22-27-48.1 Code of Alabama and the siting standards included in the local approved plan in considering approval of a facility.

This procedure applies to applications for new or modified permits. ADEM cannot review an application unless it includes approval from the affected local government. This procedure shall not apply to exempted industrial landfills receiving waste generated on site only by the permittee.

Please contact the Solid Waste Branch of ADEM at (334) 274-4201 if there are any questions.

SAC/ssj/abj

SOLID WASTE APPLICATION

PERMIT APPLICATION
SOLID WASTE DISPOSAL FACILITY
ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
(Submit in Triplicate)

1. Facility type: _____ Municipal Solid Waste Landfill (MSWLF)
_____ Industrial Landfill (ILF)
☒ Construction and Demolition Landfill (C/DLF)
_____ CCR Landfill (CCRLF)
_____ CCR Surface Impoundment (CCRSI)
_____ Other (explain) _____

2. Facility Name City of Oxford Landfill

3. Applicant/Permittee:

Name: City of Oxford

Address: 42 Public Works Drive, Oxford, AL 36203

Telephone: (256) 835-6124

If applicant/permittee is a Corporation, please list officers:

4. Location: (include county highway map or USGS map)

Township	<u>16 S</u>	Range	<u>7 E</u>
Section	<u>25</u>	County	<u>Calhoun</u>

5. Land Owner:

Name: City of Oxford

Address: 42 Public Works Drive, Oxford, AL 36203

Telephone: (256) 835-6124

(Attach copy of agreement from landowner if applicable.)

Solid Waste Permit Application
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6. Contact Person:

Name Todd Gauntt

Position or
Affiliation Assistant Public Works Superintendent

Address: 42 Public Works Drive, Oxford, AL 36203

Telephone: (256) 835-6124

7. Size of Facility:

65 Acres

Size of Disposal Area(s):

40.2 Acres

8. Identify proposed service area or specific industry that waste will be received from:

City of Oxford

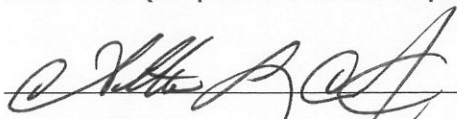
9. Proposed maximum average daily volume to be received at landfill (choose one):

 Tons/Day 200 Cubic Yards/Day

10. List all waste streams to be accepted at the facility (i.e., household solid waste, wood boiler ash, tires, trees, limbs, stumps, etc.):

Non-putrescible and non-hazardous construction and demolition waste, storm debris,
and landscaping/yard waste. Facility is also approved to accept discarded tires.

SIGNATURE (Responsible official of permit applicant):

 TITLE: MAYOR

ALTON L. CRAFT DATE: 2-28-2024
(please print or type name)

ADDITIONAL REQUIRED INFORMATION

Applicants seeking to obtain a permit to construct and/or continue to operate a municipal solid waste (MSW) landfill, industrial landfill, construction and demolition (C/D) landfill, coal combustion residuals (CCR) landfill, or CCR surface impoundment are required to submit additional information as part of the Solid Waste Disposal Facility Permit Application. These additional information requirements vary depending on the facility type.

For new and existing landfill units, refer to ADEM Admin Code 335-13-5-.02 for a list of additional information to be submitted in the permit application. Some requirements apply only to MSW landfills and CCR landfills, while other requirements apply to industrial landfills and C/D landfills. You need only to address the requirements that pertain to your type landfill. For new and existing CCR surface impoundments, refer to ADEM Admin Code 335-13-15-.09 for additional information to be submitted in the permit application.

Each rule that is applicable to your type landfill or surface impoundment must be addressed in detail in the operational narrative and/or engineering drawings before the review process can be completed. All operational narratives, engineering drawings, survey maps and legal descriptions are to be prepared by licensed engineers or surveyors registered in the State of Alabama and with their stamp or seal on each drawing/map and cover of the narrative.

Act No. 89-824 Section 9(a) states "The department may not consider an application for a new or modified permit for a facility unless such application has received approval by the affected unit of local government having an approved plan." This document must be received by the Department prior to processing the application.

The referenced rules are covered in greater detail in ADEM's Administrative Code, Division 13. Clarification can be obtained by reviewing the regulations. Copies of the ADEM Administrative Code, Division 13 regulations, can be obtained for a fee by contacting ADEM's Permits and Services Division. If the Department can answer any questions, please contact the Solid Waste Branch at (334) 274-4201.

ATTACHMENT B



U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY



OXFORD QUADRANGLE
ALABAMA
7.5-MINUTE SERIES



Produced by the United States Geological Survey

This map is a reproduction of the original map. It is not a substitute for the original map. The original map is the only authoritative source for the information on this map. The original map is the only authoritative source for the information on this map.

Map data is derived from the National Geographic Society's Digital Data Service (NGS DDS). The map data is derived from the National Geographic Society's Digital Data Service (NGS DDS). The map data is derived from the National Geographic Society's Digital Data Service (NGS DDS).



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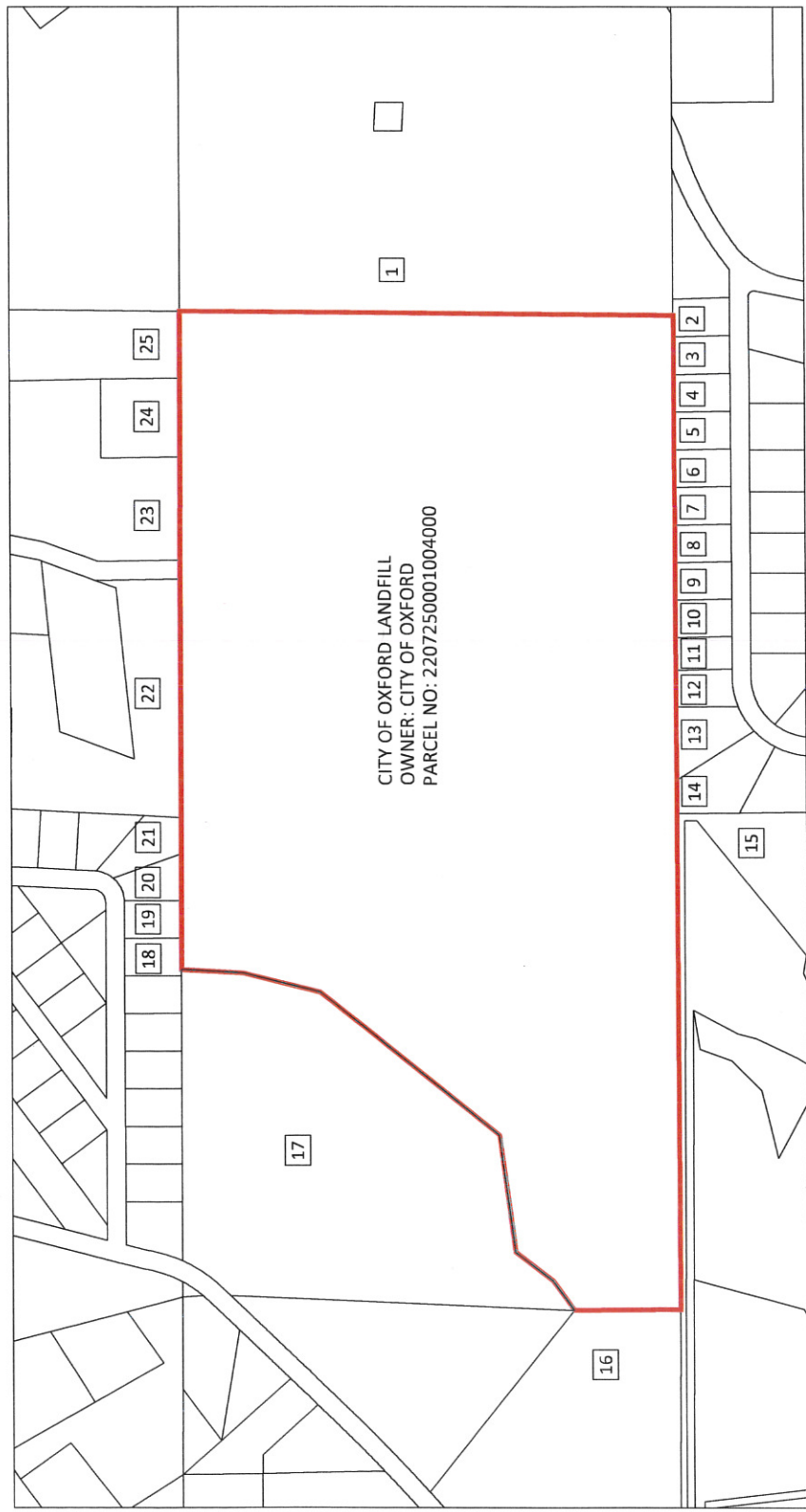
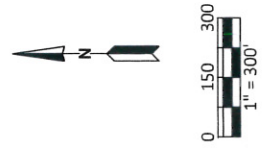
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ROAD CLASSIFICATION	
Expressway	Light Connector
Arterial Road	Arterial Road
Collector Road	Collector Road
Local Road	Local Road
Unimproved Road	Unimproved Road
Trail	Trail

OXFORD, AL
2021



ATTACHMENT C



City of Oxford Landfill - Adjacent Landowners

1	
OWNER	CITY OF OXFORD
ADDRESS	PO BOX 3383, OXFORD, AL 36203
PARCEL	2207250001001000
PPIN	61030

2	
OWNER	FARELLA WILLIAM A & PAMELA H
ADDRESS	250 HIDDEN LAKES LN, MUNFORD, AL, 36268
PARCEL	2207250001015000
PPIN	61162

3	
OWNER	FARELLA WILLIAM A & PAMELA H
ADDRESS	250 HIDDEN LAKES LN, MUNFORD, AL, 36268
PARCEL	2207250001016000
PPIN	61163

4	
OWNER	DUNN'S PROPERTY MGMT LLC
ADDRESS	1 ZOE CT, WEAVER, AL, 36277
PARCEL	2207250001017000
PPIN	61167

5	
OWNER	SEALES MARVIN CALVIN & BRENDA
ADDRESS	PO BOX 10066, OXFORD, AL, 36203
PARCEL	2207250001018000
PPIN	61168

6	
OWNER	DOYLE TOMMY M & ROBBIE R
ADDRESS	839 TIMOTHY DR, OXFORD, AL, 36203
PARCEL	2207250001019000
PPIN	61169

7	
OWNER	MURPHY JERRIE R & TERESA T
ADDRESS	1205 SHERWOOD DR, OXFORD, AL, 36203
PARCEL	2207250001020000
PPIN	61170

8	
OWNER	OSBORNE AMIE L & JAIMIE
ADDRESS	835 TIMOTHY DR, OXFORD, AL, 36203

PARCEL	2207250001021000
PPIN	61333

9	
OWNER	DERAMUS DARRIE JEAN & DOUGLAS
ADDRESS	833 TIMOTHY DR, OXFORD, AL, 36203
PARCEL	2207250001022000
PPIN	61334

10	
OWNER	THIEME TRAVIS LEE
ADDRESS	5735 KEATON SPRINGS DR, LAKE LAND, FL, 33811
PARCEL	2207250001023000
PPIN	61151

11	
OWNER	LYTLE BRANDIE N
ADDRESS	829 TIMOTHY DR, OXFORD, AL, 36203
PARCEL	2207250001024000
PPIN	61152

12	
OWNER	CHAPLIN JASON J & JENNIFER
ADDRESS	825 TIMOTHY DR, OXFORD, AL, 36203
PARCEL	2207250001025000
PPIN	61153

13	
OWNER	CHAPLIN JASON J & JENNIFER
ADDRESS	825 TIMOTHY DR, OXFORD, AL, 36203
PARCEL	2207250001026000
PPIN	61146

14	
OWNER	ANNISTON MUSEUM ENDOWMENT CORPORATION
ADDRESS	PO BOX 1587, ANNISTON, AL, 36202
PARCEL	2207250001027000
PPIN	61147

15	
OWNER	FARR RONALD & STACI
ADDRESS	6229 SHANNON BROK LN, OXFORD, AL, 36203
PARCEL	2207250001013005
PPIN	2648

16	
OWNER	ROSS BILLY

ADDRESS	PO BOX 3324, OXFORD AL,36203
PARCEL	2207250001006001
PPIN	61014

17	
OWNER	HOLLOWAY MAUDINE
ADDRESS	1924 CONSTANTINE AVE, ANNISTON, AL, 36201
PARCEL	2207250001005000
PPIN	61012

18	
OWNER	MALONE BOBBY
ADDRESS	131 HIDDEN OAKS DR, OXFORD, AL, 36203
PARCEL	2206240003048000
PPIN	61425

19	
OWNER	MALONE BOBBY
ADDRESS	131 HIDDEN OAKS DR, OXFORD, AL, 36203
PARCEL	2206240003047000
PPIN	61424

20	
OWNER	MALONE BOBBY
ADDRESS	131 HIDDEN OAKS DR, OXFORD, AL, 36203
PARCEL	2206240003046000
PPIN	61433

21	
OWNER	MALONE BOBBY
ADDRESS	131 HIDDEN OAKS DR, OXFORD, AL, 36203
PARCEL	2206240003045000
PPIN	61432

22	
OWNER	LINDSEY JESSIE L
ADDRESS	3017 POPLAR GROVE DR, GREENVILLE, NC, 27858
PARCEL	2206240003056000
PPIN	61409

23	
OWNER	CONLEY BOBBY & SHARON M
ADDRESS	3904 E 190 ST,BEACHWOOD, OH, 44122
PARCEL	2206240003057000

PPIN	61414
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24	
OWNER	HOWARD ALVIN L & ELEAINE
ADDRESS	4507 MARTIN LUTHER KING DR, CLEVELAND, OH, 44125
PARCEL	2206240003056003
PPIN	61417

25	
OWNER	MALONE WILLIAM A & LEON
ADDRESS	107 BRUCE ST, ANNISTON, AL 36201
PARCEL	2206240003061000
PPIN	61422

ATTACHMENT D

Document Date	Document Title	File Name	Pages
11/19/18	Documentation of Compliance with Siting Standards	9321 08-08 015 11-19-2018 PERM P/L 09321 Permit Application.pdf	16-17, 45-49
11/19/18	Hydrogeological Report	9322 08-08 015 11-19-2018 PERM P/L 09321 Permit Application.pdf	34-41
11/19/18	Stormwater Controls	9323 08-08 015 11-19-2018 PERM P/L 09321 Permit Application.pdf	23
11/19/18	QA/QC Plan	9324 08-08 015 11-19-2018 PERM P/L 09321 Permit Application.pdf	42-44
11/19/18	Operations Plan	9325 08-08 015 11-19-2018 PERM P/L 09321 Permit Application.pdf	28-31
11/19/18	Closure/Post-Closure Plan	9326 08-08 015 11-19-2018 PERM P/L 09321 Permit Application.pdf	24-27
05/04/09	Cell Certification	9321 08-08 015 05-04-2009 PERM P/L 09321 Cell Certification.pdf	ALL
11/19/18	Permit Drawing	9325 08-08 015 11-19-2018 PERM P/L 09321 Permit Application.pdf	60
11/19/18	Legal Description	9326 08-08 015 11-19-2018 PERM P/L 09321 Permit Application.pdf	51
10/17/13	Boundary Survey	9321 08-08 015 10-17-2013 PERM P/L 09321 Renewal App.pdf	30

Permit No. 08-08 Modification

Application

February 9, 2023
File No. 09222092.02

Mr. Jared Kelly, Chief
Permitting and Compliance Section
Land Division
Alabama Department of Environmental Management
1400 Coliseum Boulevard
Montgomery, AL 36130-2400

Received
FEB 14 2023
Land Division

Subject: Request for Solid Waste Disposal Permit Modification
Landfill Sequence of Fill Update
City of Oxford Landfill
Solid Waste Disposal Facility Permit No. 08-08

Dear Mr. Kelly,

SCS Engineers (SCS), on behalf of the City of Oxford, is requesting a modification of the City of Oxford's Solid Waste Disposal Facility Permit (Permit No. 08-08). The requested modification entails revising the existing design plans to update the sequence of fill for the disposal of solid waste within the previously approved disposal boundary of the landfill.

The modification package includes ADEM Form 365 Application, Design Plans including supporting calculations for stormwater control, and adjacent landowner documentation. Please note the proposed update maintains the previously approved minimum base elevation of 840 feet MSL and a maximum trench depth of 15 feet.

Please contact Eric Sanderson at (334) 332-8402 or via email at esanderson@scsengineers.com if you have any questions or need additional information.

Sincerely,



Eric L. Sanderson, P.E.
Project Director
SCS Engineers



Robert B. Curtis, P.E.
Project Director
SCS Engineers

cc: Rusty Gann, City of Oxford (Electronic)
Todd Gauntt, City of Oxford (Electronic)

Enclosures: ADEM Form 365
Design Plans
Stormwater Control Calculations
Adjacent Landowner Documentation

Received

FEB 14 2023

Land Division

PERMIT APPLICATION
SOLID WASTE DISPOSAL FACILITY
CONSTRUCTION/DEMOLITION LANDFILL
ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
(Submit in Triplicate)

The following application, with all required attachments, must be submitted before the Department will begin its review.

SECTION I:

LANDFILL ACTION: _____ New Application
_____ Renewal Application, Permit Number _____
X _____ Modification Application, Permit Number 08-08

LANDFILL NAME: City of Oxford Landfill

LANDFILL ADDRESS (MAILING): 42 Public Works Drive
Oxford, AL 36203

LANDFILL ADDRESS (PHYSICAL): 499 West Oak St
Oxford, AL 36203

SECTION II:

APPLICANT/PERMITTEE:

NAME: City of Oxford

ADDRESS: 42 Public Works Drive, Oxford, AL 36203

TELEPHONE: 256-835-6124

If applicant/permittee is a Corporation, please list officers:

Permit No. 08-08 Modification

Application

City of Oxford Landfill Survey

RG

Rusty Gann <rusty.gann@oxfordal.gov>

     ...

To: Adornato, Melissa H

Wed 8/20/2025 3:27 PM

Cc: Todd Gauntt <todd.gauntt@oxfordal.gov>

Melissa,

Would you mind replacing the modification and renewal application forms with the forms that I emailed you earlier today? Please let me know if further information is needed.

Thanks,

Rusty V. Gann, P.E.
Oxford City Engineer
Public Works Director
Oxford, AL



Alabama Department of Environmental Management
adem.alabama.gov

1400 Coliseum Blvd. 36110-2400 ■ Post Office Box 301463
Montgomery, Alabama 36130-1463
(334) 271-7700 ■ FAX (334) 271-7950

March 13, 2023

Mr. Todd Gauntt
City of Oxford
42 Public Works Drive
Oxford, AL 36203

**Re: Solid Waste Disposal Facility Permit Modification Application
City of Oxford Landfill, Permit No. 08-08
Calhoun County, Alabama**

Dear Mr. Gauntt:

The Solid Waste Branch is in receipt of a major permit modification from SCS Engineers on behalf of the City of Oxford for the City of Oxford Landfill. The Department requests verification as to whether the local approval requirements for the permit modification per Code of Alabama §22-27-48 have been met. Once ADEM has received documentation from the City of Oxford that local approval requirements have been met, ADEM will begin its review of the permit modification application.

Also, the City of Oxford should remember that local host governments not covered by a current Solid Waste Management Plan (SWMP) due to expiration or revocation will not be able to rule on any proposed solid waste site modifications until the local host government has obtained approval from the Department on a new or updated SWMP.

If you have any questions, please contact Ms. Melissa H. Adornato of the Solid Waste Engineering Section by email at melissa.adornato@adem.alabama.gov or (334) 270-5605.

Sincerely,

A handwritten signature in black ink, appearing to read "Jared D. Kelly", is written over a horizontal line.

Jared D. Kelly, Chief
Solid Waste Engineering Section
Land Division

JDK/mha





City of Oxford
DEPARTMENT OF PUBLIC WORKS
42 PUBLIC WORKS DRIVE
OXFORD, ALABAMA 36203
WWW.OXFORDALABAMA.ORG

ALTON CRAFT
Mayor

Received
MAY 02 2023
Land Division

COUNCIL MEMBERS

CHRIS SPURLIN, C.M.O.
COUNCIL PRESIDENT

PHIL GARDNER, C.M.O.

CHARLOTTE HUBBARD

MIKE HENDERSON,
A.C.M.O.

STEVEN WAITS, A.C.M.O.
COUNCIL PRO TEMPORE

CITY ENGINEER
RUSTY V. GANN, P.E.
256-835-6132

March 27, 2023,

via email: jkelly@adem.alabama.gov

Mr. Jared. D Kelly, Chief
Solid Waste Engineering Section
Land Division
Alabama Department of Environmental Management
1400 Coliseum Blvd.
Montgomery, AL. 36130-1463

RE: Solid Waste Disposal Facility Permit Modification Request
ADEM Local Host Government Approval Verification Response
City of Oxford Landfill – Permit No. 08-08
Calhoun County, Alabama

Dear Mr. Kelly,

On February 9, 2023, SCS Engineers (SCS), on behalf of the City of Oxford, submitted an application to the Alabama Department of Environmental Management (Department) requesting a modification of the City of Oxford's Solid Waste Disposal Facility Permit (Permit No. 08-08). The requested modification entailed revising the existing design plans to update the sequence of fill for the disposal of solid waste within the previously approved disposal boundary of the landfill.

The City of Oxford has received the Department's letter dated March 13, 2023, via email on March 22, 2023, requesting verification as to whether the local approval requirements, for the referenced permit modification request, have been met. This letter is intended to serve as verification that the local approval requirements, for the referenced permit modification request, do not require local host review and approval.

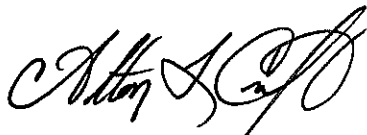
AL Code §22-27-48 (2022) details the type of modifications, at a Solid Waste Disposal Facility, that must obtain approval by the affected local governing body. AL Code §22-27-48(d) (2022) states the following:

(d) The application of the plan for local approval shall be accompanied by an application fee payable to the local governing body in an amount equal to 20 percent of the application or permit fee required by the department, but local approval shall not apply to simple renewals of a permit which is to be otherwise unchanged. ***Further, there shall be no requirement for local review and approval of permit modifications for the limited purposes of*** changing liner and leachate collection design, changes in waste streams from within the facility's designated service area, ***changes in sequence of fill***, changes to incorporate new technology, and changes intended to bring a facility into compliance with statutes and regulations. A renewed application for local approval submitted within 18 months of an application being denied or rejected by the local governing body shall be accompanied by an application fee payable to the local governing body in an amount equal to 50 percent of the application or permit fee required by the department.

The City of Oxford has specifically requested to revise the existing design plans to update the sequence of fill for the disposal of solid waste within the previously approved disposal boundary of the landfill. As noted above in AL Code §22-27-48 (2022), there shall be no requirement for local review and approval of permit modifications for changes in sequence of fill. Therefore, the City of Oxford's application dated February 9, 2023, does not require local approval per AL Code §22-27-48 (2022).

Please contact me if you have any questions regarding this matter.

Sincerely,

A handwritten signature in black ink, appearing to read 'Alton Craft', with a stylized flourish at the end.

Alton Craft, Mayor

City of Oxford

Cc: Rusty Gann, City of Oxford
Todd Gauntt, City of Oxford
Melissa Adornato, ADEM
Eric Sanderson, SCS Engineers

FK

Frinak, Kevin <KFrinak@scsengineers.com>

To: Adornato, Melissa H

Cc: Todd Gauntt <todd.gauntt@oxfordal.gov>; Rusty Gann <rusty.gann@oxfordal.gov>

😊 ↩️ ⏪ ⏩ ⋮

Wed 9/4/2024 7:27 AM

 Oxford Sheet Set Sept-24.pdf
13 MB

Good Morning Melissa,

Based on comments received by you on the pending permit modification for the Oxford Landfill, attached is the revised drawing set. Sheets 05 and 07 (Base Grading Plans for Phases I and II) have been revised to ensure a minimum ten-feet of separation between the bottom of the landfill and groundwater. The cell layout of Phase I has also been adjusted to allow for smaller cell areas.

We hope that these changes satisfy your comments. If you have any additional questions or comments, please don't hesitate to reach out.

As a reminder, Oxford is in urgent need of this permit modification in order to resume their landfill's normal operations. We appreciate your expediency in this matter.

Thank you,

Kevin Frinak
Project Professional
SCS Engineers
1 St. Louis Street, Suite 1001
Mobile, AL 36602 USA
(334) 329-4168 (C)
[\[kfrinak@scsengineers.com\]](mailto:kfrinak@scsengineers.com)kfrinak@scsengineers.com

Driven by Client Success

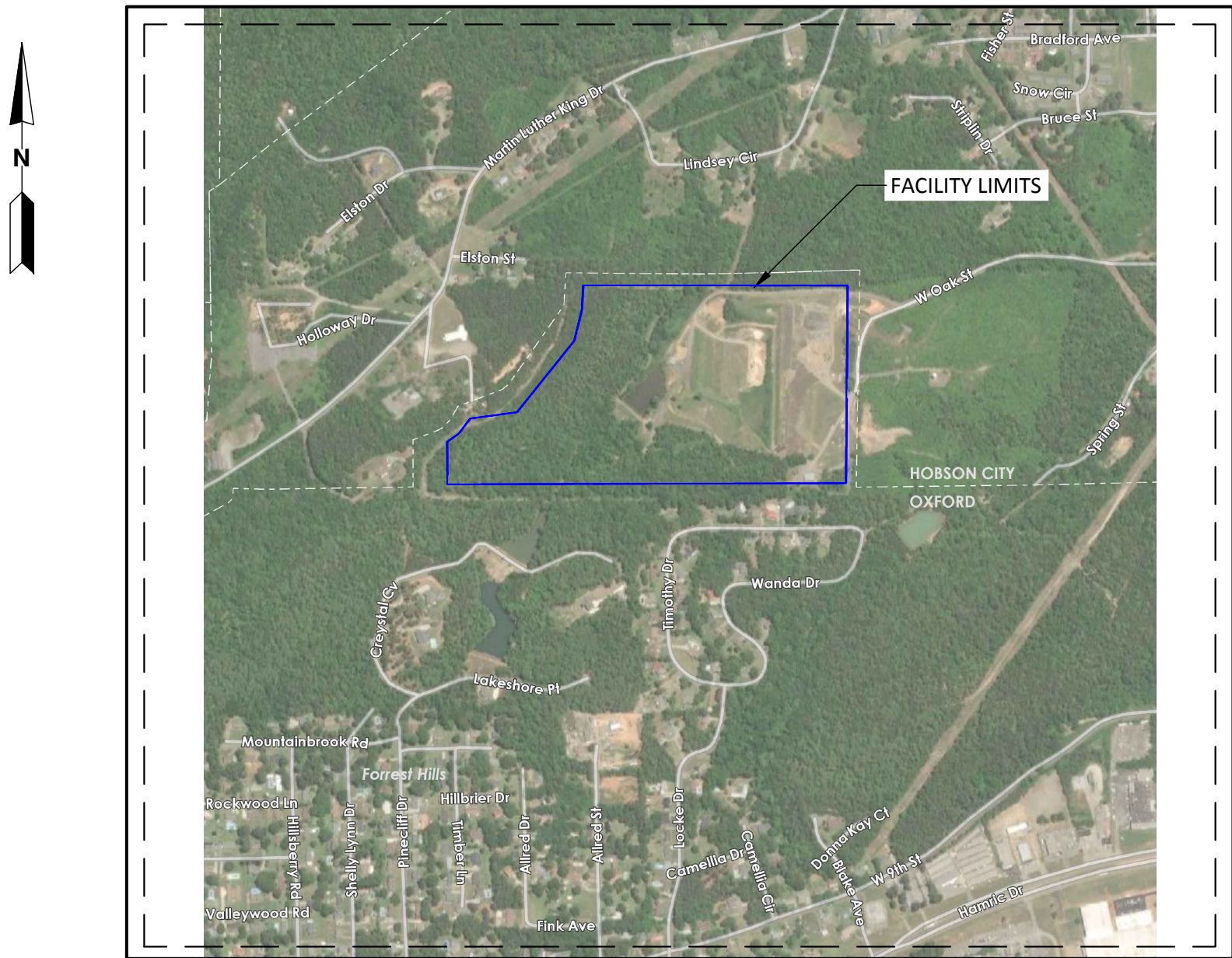
www.scsengineers.com

CITY OF OXFORD
CITY OF OXFORD LANDFILL
CELL DESIGN & SEQUENCE OF FILL
PERMIT DRAWINGS
PERMIT NO. 08-08

OXFORD, AL
MARCH 2024

INDEX OF DRAWINGS	
SHEET NO.	SHEET TITLE
01	COVER SHEET
02	SITE PLAN
03	EXISTING CONDITIONS
04	INITIAL GRADING PLAN
05	PHASE I BASE GRADING PLAN
06	PHASE I FINAL GRADING
07	PHASE II BASE GRADING PLAN
08	PHASE II FINAL GRADING PLAN
09	PHASE III FINAL GRADING PLAN

PREPARED FOR:
MR. RUSTY GANN, PE
OXFORD CITY ENGINEER &
PUBLIC WORKS DIRECTOR
42 PUBLIC WORKS DRIVE
OXFORD, AL 36203



LOCATION MAP
SCALE: 1" = 1000'



SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.

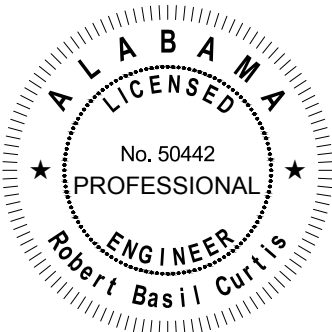
1 ST. LOUIS STREET, SUITE 1001, MOBILE, AL 36602
PH. (251) 282-6440
WWW.SCSENGINEERS.COM

SCS PROJECT NO. 09222092.02

PERMIT DRAWINGS

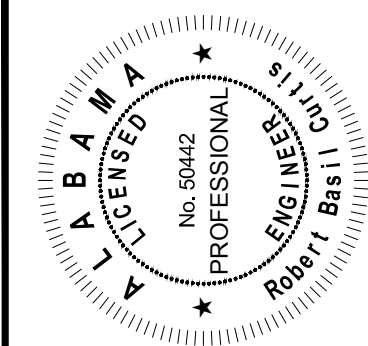
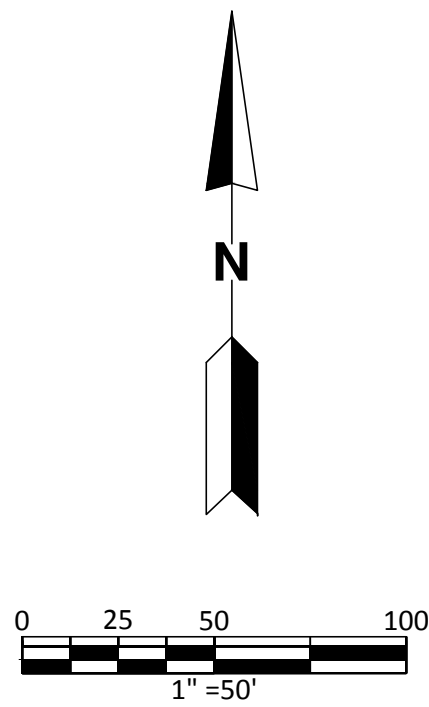
03/04/2024

This item has been digitally signed and sealed by [Engineer] on the date indicated on the cover page. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



ROBERT CURTIS, P.E.
LICENSE NO. PE50442

This item has been digitally signed and sealed by [Engineer] on the date indicated on the cover page. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

[illegible]

SHEET TITLE	SITE PLAN
PROJECT TITLE	CELL DESIGN & SEQUENCE OF FILL

CITY OF OXFORD
OXFORD, AL

SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 3932 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619 PH (813) 621-0080 FAX NO. (813) 623-6757 FLORIDA FIRM REGISTRATION RY-4892		Q/A R/W BY: _____ ELS	
PROJ. NO. 09222092.04	DWN BY: _____ AEB	CHK BY: _____ D/C	APP BY: _____ D/C
DES. BY: _____ TAU			

CADD FILE:
SITE PLAN

DATE:	MARCH 2024
DRAWING NO.	

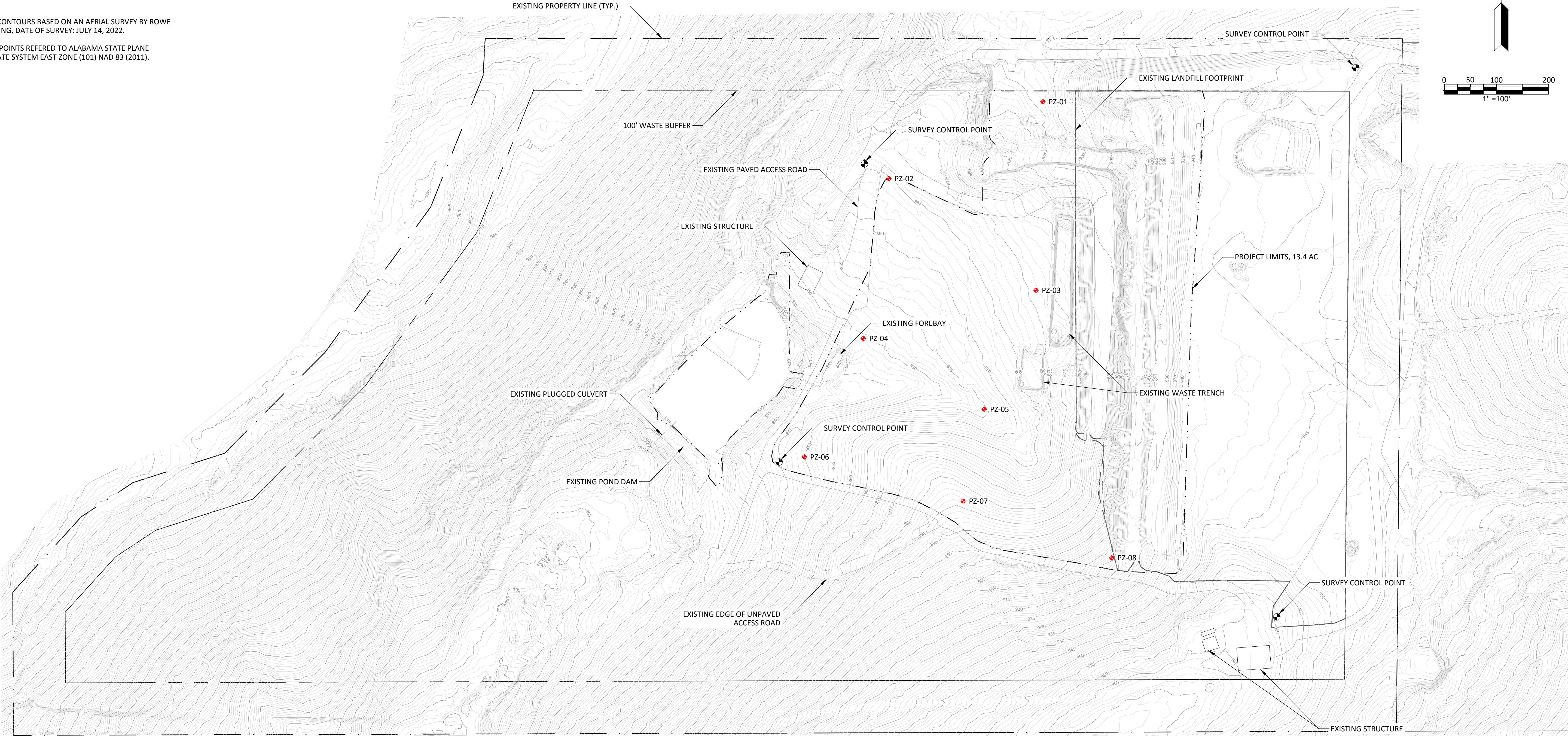
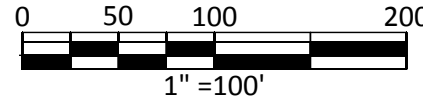
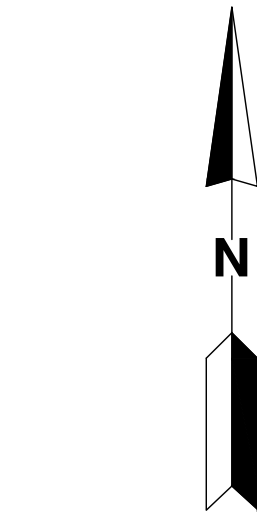
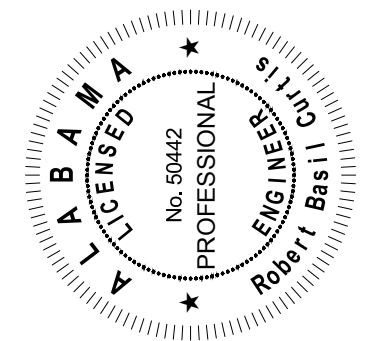
EXISTING CONDITIONS LEGEND

1FT CONTOUR	
5FT CONTOUR	
PROPERTY LINE	
100FT WASTE BUFFER	
EDGE OF PAVED ROAD	
EDGE OF UNPAVED ROAD	
PROJECT LIMITS	
LANDFILL FOOTPRINT	

NOTES:

- EXISTING CONTOURS BASED ON AN AERIAL SURVEY BY ROWE ENGINEERING, DATE OF SURVEY: JULY 14, 2022.
- CONTROL POINTS REFERED TO ALABAMA STATE PLANE COORDINATE SYSTEM EAST ZONE (101) NAD 83 (2011).

This item has been digitally signed and sealed by [Engineer] on the date indicated on the cover page. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



CHK. BY	DESCRIPTION	DATE

REV	DATE	DESCRIPTION

SHEET TITLE	EXISTING CONDITIONS
PROJECT TITLE	CELL DESIGN & SEQUENCE OF FILL

CITY OF OXFORD OXFORD, AL

SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 3922 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619 PH (813) 621-0080 FAX NO. (813) 623-6757 FLORIDA FIRM REGISTRATION RY-4892	CLIENT
PROJ. NO. 0922092.04 DATE: 03/04/2024	OWN. BY: AEB CHK. BY: TAH
Q/A REVIEW BY: ELS APP. BY: RBC	APP. BY: RBC

CADD FILE: EXISTING CONDITIONS

DATE: MARCH 2024

DRAWING NO.
SHEET 03 of - 09

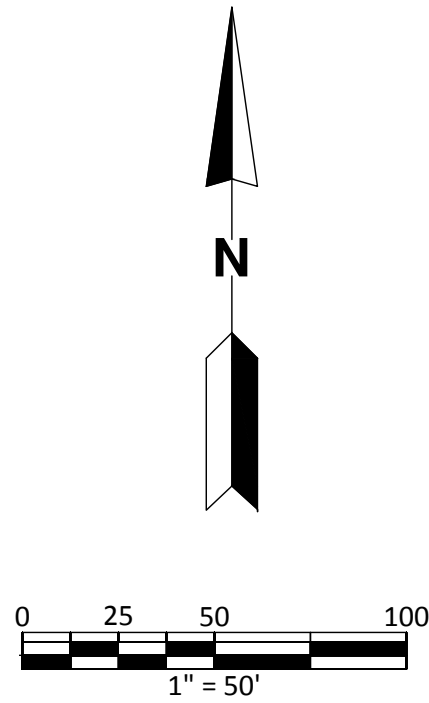
TEMPORARY DIVERSION DITCH

TEMPORARY DIVERSION DITCH AS NEEDED
TO DIRECT RUNOFF TO FOREBAY

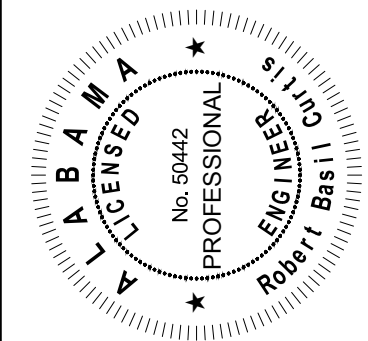
- 0.5% SLOPE MIN

— 0.5% SLOPE MIN

— EMERGENCY SPILLWAY



This item has been digitally signed and sealed by [Engineer] on the date indicated on the cover page. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

[illegible]

SHEET TITLE	INITIAL GRADING PLAN
PROJECT TITLE	CELL DESIGN & SEQUENCE OF FILL

CITY OF OXFORD
OXFORD, AL

CLIENT

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3922 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619
PH (813) 621-0080 FAX NO. (813) 623-6757
FEDERAL FIRM REGISTRATION RY-4892

PROJ. NO.	DWN. BY:	Q/A RWV BY:
0922092.04	AEB	ELS
DSN. BY:	CHK. BY:	APP. BY:
TAH	RBC	RBC

CADD FILE:

INITIAL GRADING

DATE: MARCH 2024

DRAWING NO.

04
SHEET **04** of - **09**

PERMIT DRAWINGS

03/04/2024

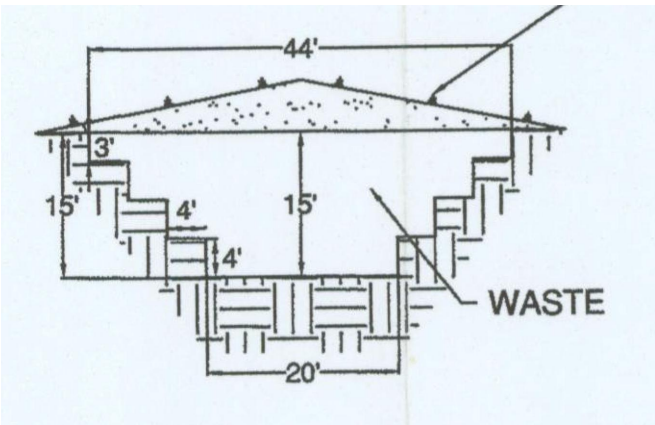
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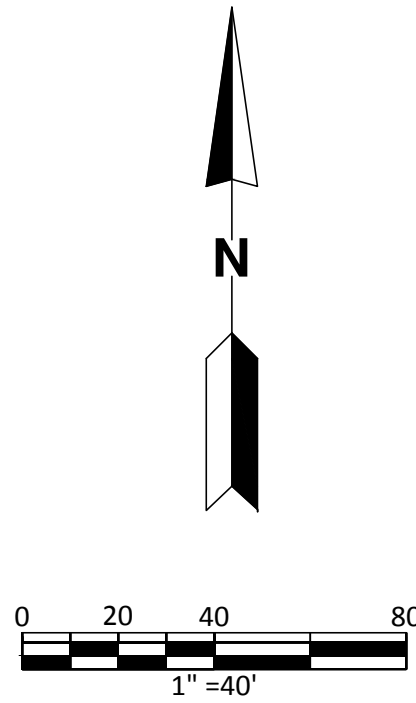
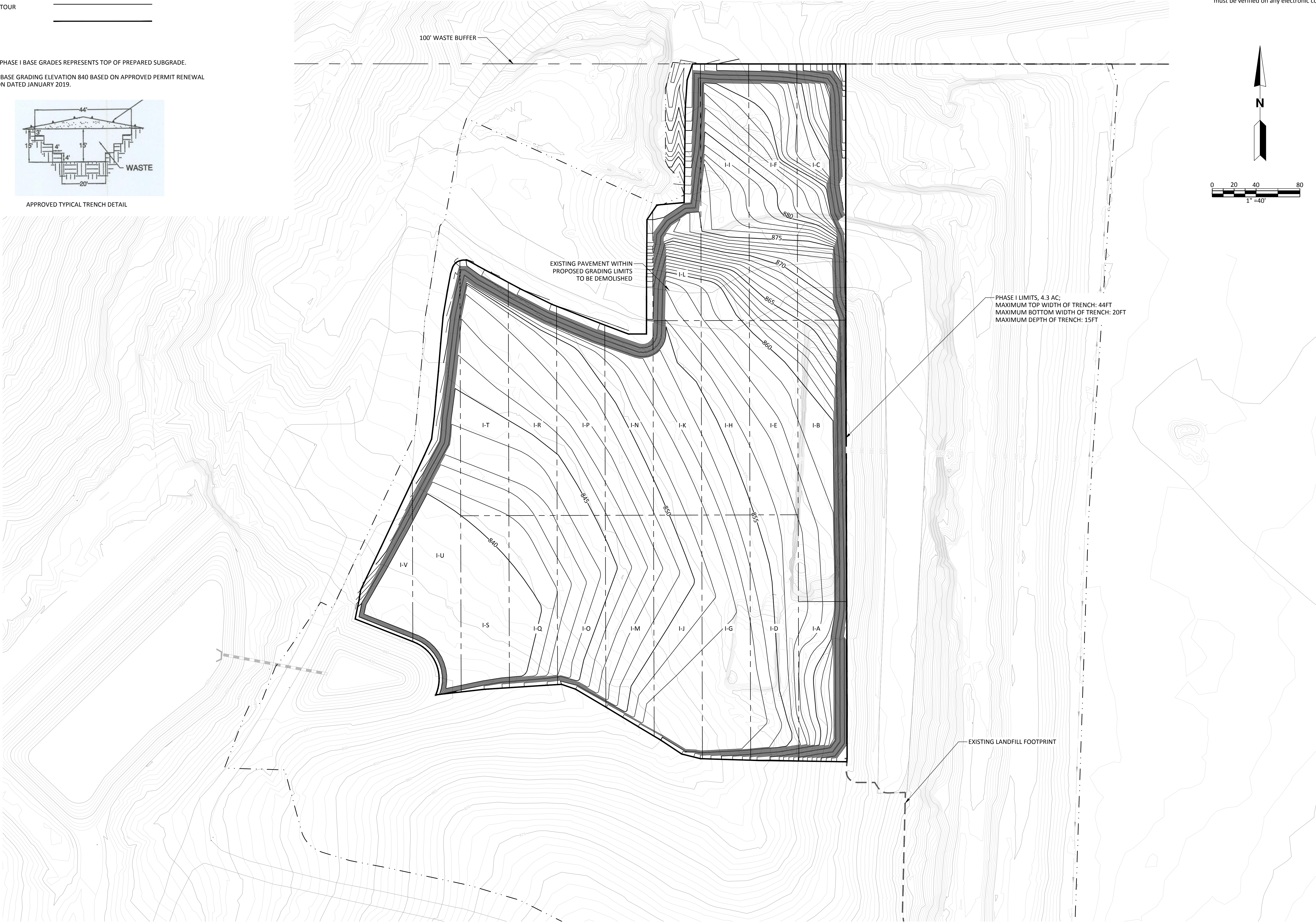
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- PROPOSED 5' CONTOUR _____
- PHASE LIMITS _____

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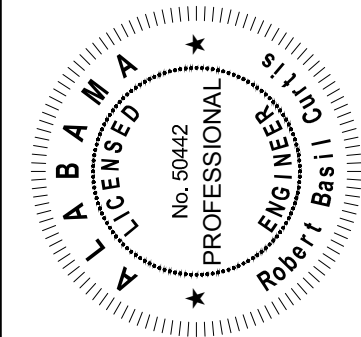
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2. MAXIMUM BASE GRADING ELEVATION 840 BASED ON APPROVED PERMIT RENEWAL APPLICATION DATED JANUARY 2019.



APPROVED TYPICAL TRENCH DETAIL



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CHK. BY	DESCRIPTION	DATE	REV
			△
			△
			△
			△
			△

SHEET TITLE	PROJECT TITLE
PHASE I BASE GRADING PLAN	CELL DESIGN & SEQUENCE OF FILL

CITY OF OXFORD
OXFORD, AL

SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 3922 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619 PH (813) 621-0080 FAX NO. (813) 623-6757 FLORIDA FIRM REGISTRATION RY-4892			
PROJ. NO. 0922092.04	OWN. BY: AEB	CHK. BY: TAH	Q/A REVIEW BY: ELS
DATE: 03/04/2024	APP. BY: RBC		RBC

CADD FILE: PHASE I BASE GRADE - V3
DATE: MARCH 2024
DRAWING NO. 05
SHEET 05 of - 09

PERMIT DRAWINGS
03/04/2024

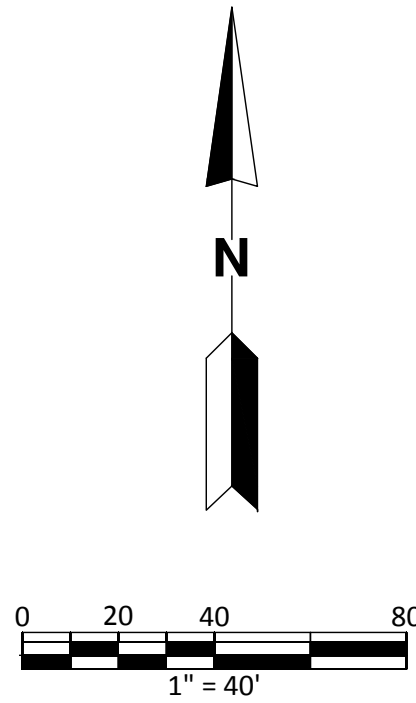
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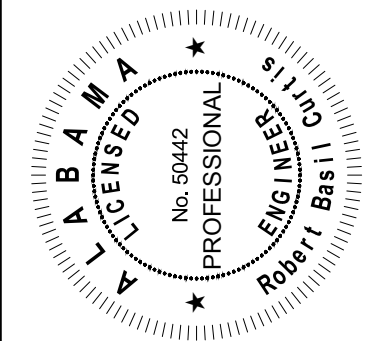
DOWNDRAIN

TACK- ON BERM

1. PROPOSED PHASE I FINAL GRADES REPRESENTS TOP OF INTERMEDIATE COVER.



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SHEET TITLE PHASE I FINAL GRADING PLAN	PROJECT TITLE CELL DESIGN & SEQUENCE OF FILL
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CITY OF OXFORD
OXFORD, AL

CLIENT

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS
3922 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619
PH (813) 621-0080 FAX NO. (813) 623-6757
FEDERAL FIRM REGISTRATION RY-4892

PROJ. NO.	DWN. BY:	Q/A RWV BY:
0922092.04	AEB	ELS
DSN. BY:	CHK. BY:	APP. BY:
TAH	RBC	RBC

CADD FILE
PH

DATE: MARCH 2024

DRAWING NO.

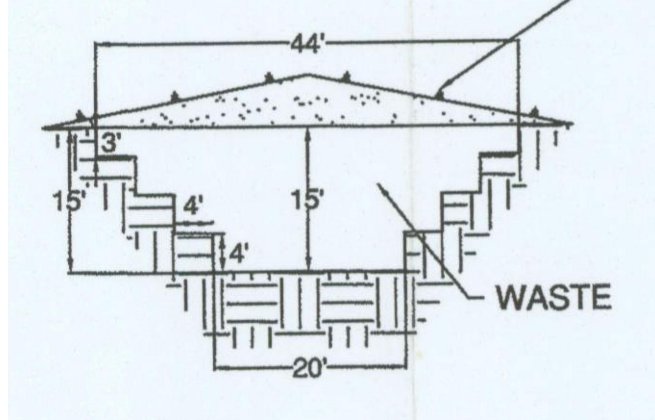
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PERMIT DRAWINGS

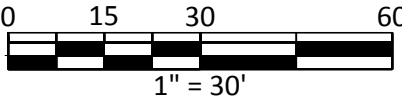
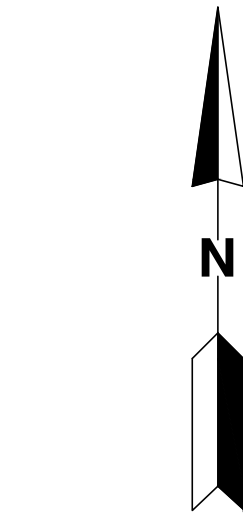
03/04/2024

BASE GRADING PLAN LEGEND	
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PHASE LIMITS	

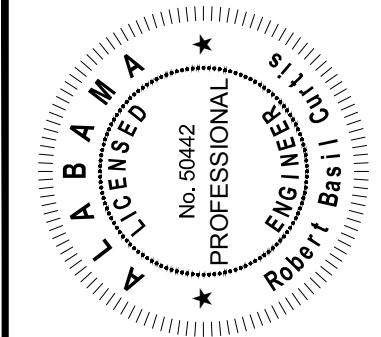
- NOTES:
- PROPOSED PHASE I BASE GRADES REPRESENTS TOP OF PREPARED SUBGRADE.
 - MAXIMUM BASE GRADING ELEVATION 840 BASED ON APPROVED PERMIT RENEWAL APPLICATION DATED JANUARY 2019.



APPROVED TYPICAL TRENCH DETAIL



PHASE II LIMITS 2.6 AC.
MAXIMUM TOP WIDTH OF TRENCH: 44FT
MAXIMUM BOTTOM WIDTH OF TRENCH: 20FT
MAXIMUM DEPTH OF TRENCH: 15FT



CHK. BY	DESCRIPTION	DATE	REV

SHEET TITLE	PROJECT TITLE
PHASE II BASE GRADING PLAN	CELL DESIGN & SEQUENCE OF FILL

CITY OF OXFORD
OXFORD, AL

CLIENT

SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 3922 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619 PH (813) 621-0080 FAX NO. (813) 623-6757 FLORIDA FIRM REGISTRATION RY-4892		OWN. BY: AEB CHK. BY: RBC APP. BY: ELS	
PROJ. NO.: 0922092.04	DATE: 03/04/2024	DESIGN BY: TAH	DATE: 03/04/2024

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DATE: MARCH 2024
DRAWING NO. 07
SHEET 07 of 09

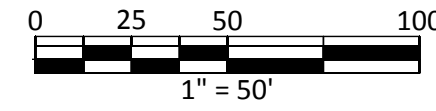
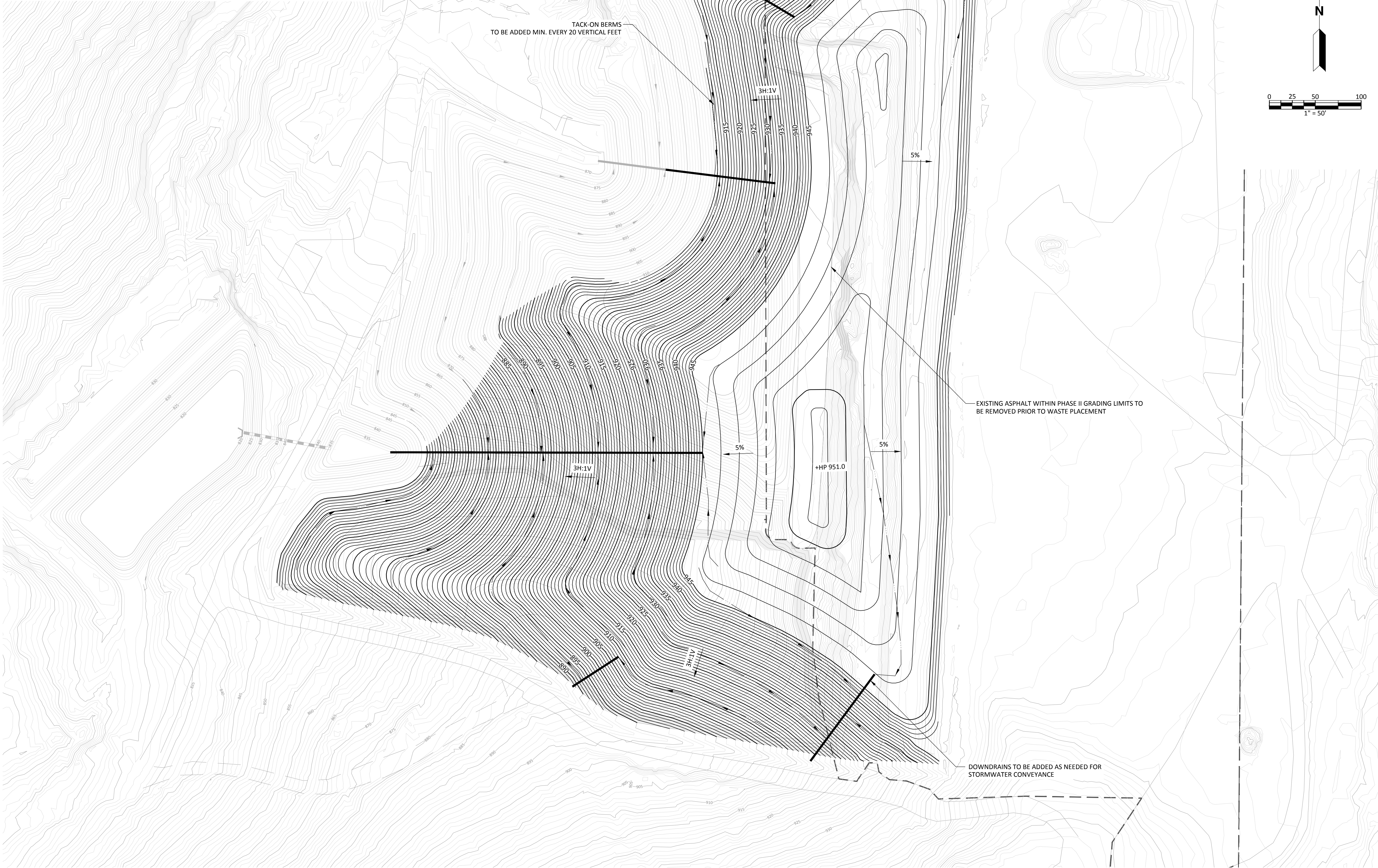
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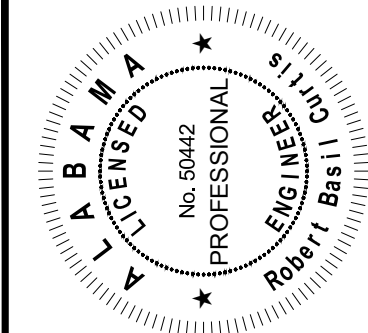
- PROPOSED 1' CONTOUR
- PROPOSED 5' CONTOUR
- DOWNDRAIN
- TACK- ON BERM

NOTES:

1. PROPOSED PHASE II FINAL GRADES REPRESENTS TOP OF INTERMEDIATE COVER.



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			5

SHEET TITLE	PROJECT TITLE
PHASE II FINAL GRADING PLAN	CELL DESIGN & SEQUENCE OF FILL

CITY OF OXFORD
OXFORD, AL

CLIENT	SCS ENGINEERS	STEARN, CONRAD AND SCHMIDT	CONSULTING ENGINEERS	3922 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619	PH (813) 621-0080 FAX NO. (813) 623-6757	FLORIDA FIRM REGISTRATION RY-4892	PROJ. NO. 0922092.04	DATE: 03/04/2024	CHK. BY: AEB	APP. BY: ELS	RBC

CADD FILE:	PHASE II FILL
DATE:	MARCH 2024
DRAWING NO.	08
SHEET	08 of - 09

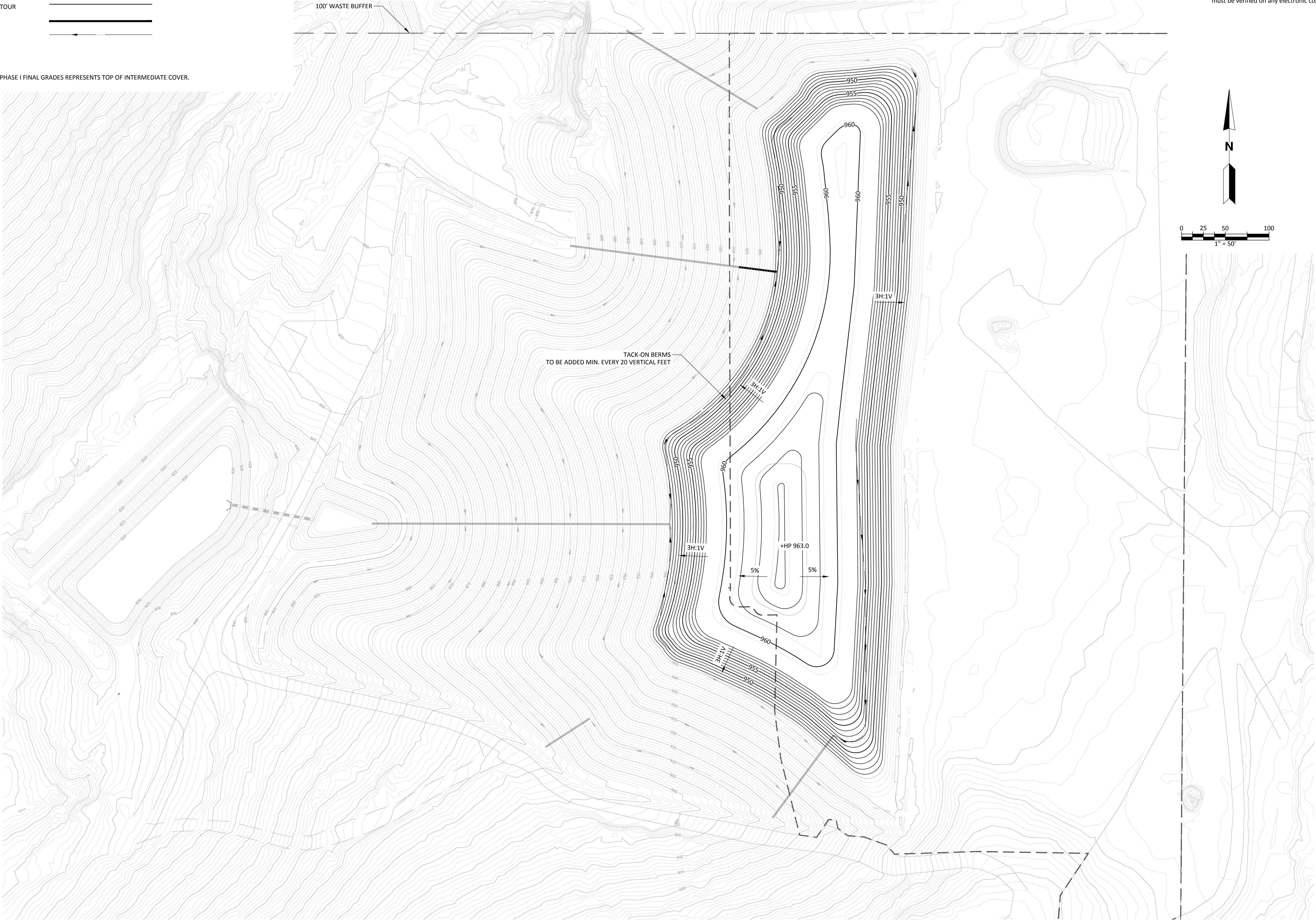
PERMIT DRAWINGS
03/04/2024

PHASE III FINAL GRADING PLAN LEGEND

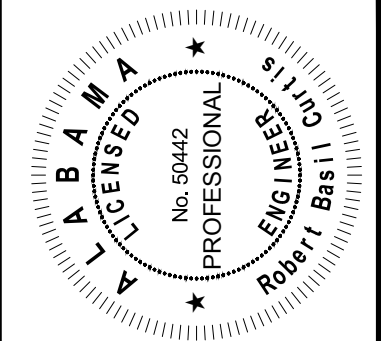
- PROPOSED 1' CONTOUR
- PROPOSED 5' CONTOUR
- DOWNDRAIN
- TACK- ON BERM

NOTES:

1. PROPOSED PHASE I FINAL GRADES REPRESENTS TOP OF INTERMEDIATE COVER.



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CHK. BY	DESCRIPTION	DATE	REV

SHEET TITLE	PROJECT TITLE
PHASE III FINAL GRADING PLAN	CELL DESIGN & SEQUENCE OF FILL

CLIENT			
CITY OF OXFORD OXFORD, AL			
SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS 3922 COCONUT PALM DRIVE, SUITE 102, TAMPA, FL 33619 PH (813) 621-0080 FAX NO. (813) 623-6757 FLORIDA FIRM REGISTRATION RY-4892			
PROJ. NO. 0922092.04	OWN. BY. AEB	CHK. BY. RBC	Q/A REVIEW BY. ELS
DESIGN BY. TAH			APP. BY. RBC
CADD FILE: PHASE III FILL			
DATE: MARCH 2024			
DRAWING NO. 09			
SHEET 09 of - 09			

PERMIT DRAWINGS

03/04/2024

REPORT OF GROUNDWATER MONITORING

**CITY OF OXFORD C&D LANDFILL
OXFORD, CALHOUN COUNTY, ALABAMA
PERMIT NO: 08-08**

Received

MAR 07 2024

Land Division

Submitted to:
Oxford City Engineer & Public Works Director
42 Public Works Drive
Oxford, AL 36203

Prepared by:
TTL, Inc.
3516 Greensboro Avenue
Tuscaloosa, Alabama 35401

TTL Project No. 000230101861.00

January 24, 2024

The logo for TTL, Inc. consists of the letters 'TTL' in a bold, italicized, sans-serif font. The letters are a dark red color. The 'T' and the first 'L' are connected, and the second 'L' is slightly offset to the right.

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1.0 PROJECT BACKGROUND	3
2.0 PROJECT SCOPE OF WORK.....	3
3.1 Task 1: ADEM Work Plan	3
3.2 Task 2: Drilling and Piezometer Installation	3
3.3 Task 3: Depth to Groundwater Measurements	4
3.0 EVALUATION OF WATER-LEVEL DATA	4
4.0 SIGNATURES OF PROFESSIONALS.....	4

FIGURES

Figure 1: Piezometer Location Map

Figure 2. Potentiometric Surface Map

TABLES

Table 1: Water-level Data Collected November 2023 – January 2024

Table 2: Summary of Water-level Data Used to Produce Potentiometric Surface Map

APPENDICES

Appendix A: Report of Piezometer Installation dated November 29, 2023

Appendix B: Topographic Surface Contour Map (SCS)

1.0 PROJECT BACKGROUND

In January 1997, Southern Earth Sciences, Inc. (SES) completed a Hydrogeologic Evaluation for the proposed “development of a construction and demolition landfill” at the City of Oxford (City) C&D Landfill. SES’ review consisted of a literature review and site visit. Based on their review, SES concluded:

- (1) “That the site is located within the Knox-Shady aquifer;”
- (2) “Groundwater at the site is estimated to be greater than 50 feet below ground surface (bgs) and flows radially from the site to the south, southeast;”
- (3) “A groundwater seep was observed at an elevation of approximately 830 feet MSL.”

TTL understands that SCS Engineers (SCS) is currently providing professional services for the City’s C&D Landfill which includes assisting the City with modification of the City’s Solid Waste Disposal Facility Permit (Permit No. 08-08). Following submittal of the permit modification request to the Alabama Department of Environmental Management (ADEM), ADEM notified SCS and the City that the previously approved groundwater elevation data is no longer valid. The modification request maintains the previously approved minimum base elevation of 840 feet mean sea level (MSL) and a maximum trench depth of 15 feet required verification.

The ADEM requested that additional groundwater measurements be conducted, and SCS and ADEM agreed that water-level measurements be collected twice per month for three (3) consecutive months to evaluate depths to groundwater and for use in developing a potentiometric surface map of the uppermost water-bearing zone beneath the site.

2.0 PROJECT SCOPE OF WORK

An initial task in TTL’s scope of services was to develop a Work Plan to facilitate the drilling and installation of a series of piezometers in order to:

1. Provide a means of collecting water-level measurements two (2) times a month for three (3) consecutive months.
2. Develop a potentiometric surface map of the uppermost saturated zone beneath the site.
3. Confirm the direction(s) of groundwater flow at the site.

The Work Plan was prepared and submitted to the City on October 10, 2023 and outlined three (3) Tasks designed to evaluate/confirm the depth to groundwater within proposed waste disposal areas. TTL understands that the facility will utilize trenches for waste disposal and each trench will be excavated no more than 15 feet deeper than the existing (current) land surface. The three (3) Tasks listed in the Work Plan included:

3.1 Task 1: ADEM Work Plan – This initial Task consisted of developing the Work Plan. In TTL’s opinion the completion of Work Plan components would be adequate to satisfy ADEM’s request for additional groundwater data.

3.2 Task 2: Drilling and Piezometer Installation - Our proposed scope of work for the project included installing eight (8) piezometers (PZ-01 through PZ-08) at locations shown on Figure 1. Piezometers were installed at the site during the period of October 24 and 31, 2023. TTL’s Report of Piezometer Installation was dated November 29, 2023 and documents the drilling and construction for the piezometer installation (Appendix A). Piezometer depths ranged from 29.0 feet below land

surface (BLS) in piezometer PZ-06 to 80.5 feet BLS in piezometer PZ-08. Logs and construction information for each piezometer are provided in the Piezometer Installation Report. Following completion of construction, each piezometer was developed. Conductivity, temperature, pH, and turbidity measurements were monitored and documented throughout the development process until the data indicated these groundwater parameters were relatively stable. TTL attempted to develop each piezometer until the turbidity reached 10 NTU (nephelometric turbidity units).

3.3 Task 3: Depth to Groundwater Measurements - TTL personnel measured depths to groundwater in each piezometer twice per month for three (3) consecutive months. The measurements were made a minimum of 12 days apart in the months of November and December 2023 and January 2024. Depths to groundwater were measured to the nearest 0.01-foot in each piezometer using an electronic water-level meter. This water-level data is summarized in Table 1 of this report. A topographic map indicating land surface contours was provided by SCS (Appendix B) and was used to interpret land surface elevations for each piezometer (Tables 1 and 2).

3.0 EVALUATION OF WATER-LEVEL DATA

Water-level data collected over the period of November 2023 through January 2024 indicates piezometer PZ-02 was dry during each measurement event. Piezometers PZ-01 and PZ-05 had measurable water each of the six times these piezometers were measured. Piezometers PZ-03, PZ-04, PZ-07 and PZ-08 were dry during three (3) or four (4) of the six (6) events and piezometer PZ-06 was dry two (2) of the six (6) measurements events (Table 1).

Water levels recorded in each piezometer during the three (3) month period of record were converted to elevations using elevations obtained from a land surface topographic contour map provided by SCS. Please note that the piezometer elevations were not surveyed. Piezometer elevations were determined based on approximation from the SCS provided elevation data. Piezometer stickups (top of casings or measuring points) were determined in the field by measuring the distance from land surface topo top of casing. Measurements should be considered approximate. The shallowest recorded water level recorded for each piezometer (Table 2) was then used to prepare a potentiometric surface map (Figure 2). For well PZ- 2, no water was recorded and a minimum depth to groundwater was conservatively assumed to be the bottom of the piezometer (49.1 feet). The potentiometric map indicates groundwater flows from east to west in the northern portion of the study area and from northeast to southwest in southern portion of the study area. Water levels exceeded 20 feet below land surface in seven (7) of eight (8) piezometers. Data for piezometer PZ-5 indicates the shallowest recorded water level was 11.63 feet below land surface.

4.0 SIGNATURES OF PROFESSIONALS

The professionals listed below participated in field services and/or preparation of this report.


J. Mark Tanner, P.G.
Senior Principal Geologist
Alabama License No. 247




Christopher M. Stanford, P.G.
Professional Geologist

FIGURES

Figure 1: Piezometer Location Map
Figure 2. Potentiometric Surface Map

NOTES:

1. PIEZOMETER LOCATIONS SHOWN ON THIS DRAWING WERE SURVEYED WITH SUBMETER ACCURACY.
2. PIEZOMETER LOCATION SYMBOLS ONLY REPRESENT THE LOCATION OF THE PIEZOMETER AND DO NOT REPRESENT THE SIZE OR SHAPE OF THE ACTUAL PIEZOMETER.



LEGEND

-  Landfill Expansion Phases
-  Piezometer Location & ID

0 200
Feet



FIGURE 1: PIEZOMETER LOCATION MAP

CITY OF OXFORD LANDFILL
PIEZOMETER INSTALLATION SERVICES
OXFORD, CALHOUN COUNTY, ALABAMA
BASEMAP: Google Earth Satellite Imagery, November 2021.

DRAWN BY: JDM

CHECKED BY: CMS

DRAWING DATE: 1/23/2024

REVISION DATE: N/A

TTL JOB NO.: 23-01-01861.00

APPROX. SCALE: 1 in = 200 ft

Table 1. Piezometer Construction Summary and Groundwater Measurements (November 2023 – January 2024)
City of Oxford, Alabama Construction and Debris Landfill Proposed Expansion (Permit No. 08-08)

Piezometer ID	Easting X	Northing Y	Approximate Land Surface Elevation (Feet AMSL)*	Top of Casing Elevation (Feet AMSL)	Casing Stickup (Feet ALS)	Total Depth (Feet BLS)	Depth to Water (Feet BMP) (11-12-2023)	Depth to Water (Feet BMP) (11-20-2023)	Depth to Water (Feet BMP) (12-04-2023)	Depth to Water (Feet BMP) (12-18-2023)	Depth to Water (Feet BMP) (01-02-2024)	Depth to Water (Feet BMP) (01-15-2024)	Groundwater Elevation (Feet AMSL)
PZ-01	-85.8541	33.61487	901	903.5	2.5	78.5	63.68	66.25	69.93	64.34	64.21	64.17	839.82
PZ-02	-85.8551	33.61447	865	868.5	3.5	49.1	Dry	Dry	Dry	Dry	Dry	Dry	819.45
PZ-03	-85.8541	33.61387	871	874	3.0	30.2	Dry	Dry	Dry	Dry	33.04	32.89	841.11
PZ-04	-85.8552	33.61361	849	852.7	3.7	33.1	Dry	Dry	Dry	Dry	35.42	35.22	817.48
PZ-05	-85.8544	33.61324	855	858.8	3.8	38.2	15.68	17.42	18.56	15.82	15.57	15.43	843.37
PZ-06	-85.8556	33.61298	849	852	3.0	29.0	Dry	31.23	Dry	30.76	30.44	30.11	821.89
PZ-07	-85.8546	33.61275	884	887	3.0	63.5	Dry	Dry	Dry	Dry	65.76	65.91	821.24
PZ-08	-85.8536	33.61245	916	919	3.0	80.5	Dry	Dry	Dry	Dry	83.28	83.22	835.78

ID = Identification
AMSL = Above Mean Sea Level
ALS = Above Land Surface
BLS = Below Land Surface
BMP = Below Measuring Point
*Approximate surface elevation determined from Existing Conditions sheet as provided by SCS.

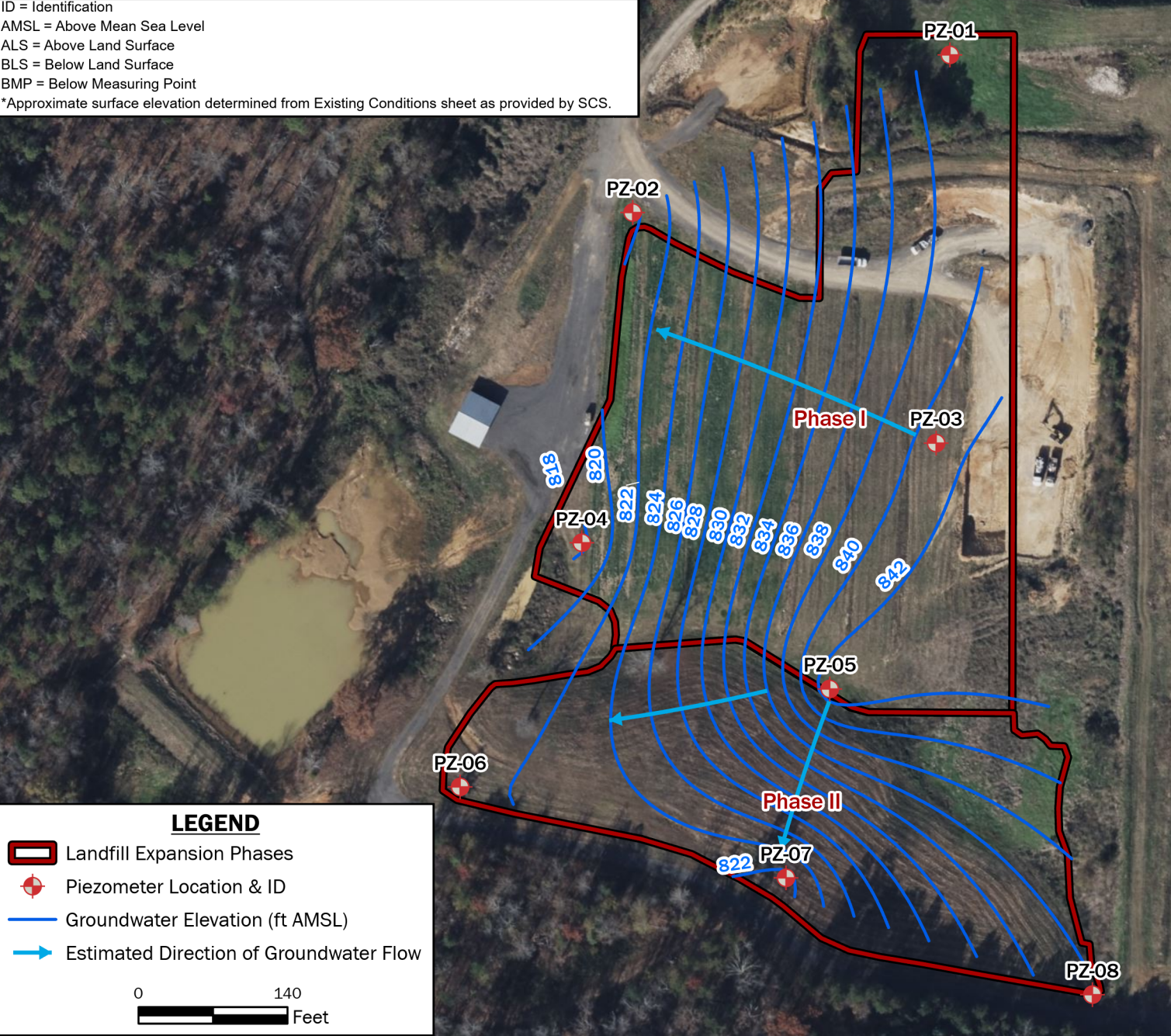


FIGURE 2: POTENTIOMETRIC SURFACE MAP
CITY OF OXFORD
CITY OF OXFORD LANDFILL
OXFORD, CALHOUN CO., ALABAMA
BASEMAP: Google Earth Satellite Imagery, Noveber 2021.

DRAWN BY: JDM
CHECKED BY: CMS
DRAWING DATE: 5/31/2023
REVISION DATE: 1/19/2024
TTL JOB NO.: 23-01-01861.00
APPROX. SCALE: 1 in = 140 ft

TABLES

**Table 1: Piezometer Construction Summary and Groundwater Measurements
(November 2023 – January 2024)**

Table 2: Summary of Water-level Data Used to Produce Potentiometric Surface Map

Table 1. Piezometer Construction Summary and Groundwater Measurements (November 2023 – January 2024) City of Oxford, Alabama Construction and Debris Landfill Proposed Expansion (Permit No. 08-08)											
Piezometer ID	Approximate Land Surface Elevation (Feet AMSL)*	Top of Casing Elevation (Feet AMSL)	Casing Stickup (Feet ALS)	Total Depth (Feet BLS)	Depth to Water (Feet BMP) (11-12-2023)	Depth to Water (Feet BMP) (11-20-2023)	Depth to Water (Feet BMP) (12-04-2023)	Depth to Water (Feet BMP) (12-18-2023)	Depth to Water (Feet BMP) (01-02-2024)	Depth to Water (Feet BMP) (01-15-2024)	Groundwater Elevation (Feet AMSL)
PZ-01	901	903.5	2.5	78.5	63.68	66.25	69.93	64.34	64.21	64.17	839.82
PZ-02	865	868.5	3.5	49.1	Dry	Dry	Dry	Dry	Dry	Dry	819.45
PZ-03	871	874	3.0	30.2	Dry	Dry	Dry	Dry	33.04	32.89	841.11
PZ-04	849	852.7	3.7	33.1	Dry	Dry	Dry	Dry	35.42	35.22	817.48
PZ-05	855	858.8	3.8	38.2	15.68	17.42	18.56	15.82	15.57	15.43	843.37
PZ-06	849	852	3.0	29.0	Dry	31.23	Dry	30.76	30.44	30.11	821.89
PZ-07	884	887	3.0	63.5	Dry	Dry	Dry	Dry	65.76	65.91	821.24
PZ-08	916	919	3.0	80.5	Dry	Dry	Dry	Dry	83.28	83.22	835.78
ID = Identification AMSL = Above Mean Sea Level ALS = Above Land Surface BLS = Below Land Surface BMP = Below Measuring Point *Approximate surface elevation determined from Existing Conditions sheet as provided by SCS.											

Table 2. Summary of Water-level Data Used to Produce Potentiometric Surface Map
City of Oxford, Alabama Construction and Debris Landfill Proposed Expansion (Permit No. 08-08)

Piezometer ID	Approximate Land Surface Elevation (Feet AMSL)	Well Total Depth (Feet BGS)	Well Bottom Elevation (Feet AMSL)	Groundwater Elevation (Feet AMSL)
PZ-01	901	78.5	822.5	839.82
PZ-02	865	49.1	815.9	819.45
PZ-03	871	30.2	840.9	841.11
PZ-04	849	33.1	815.9	817.48
PZ-05	855	38.2	816.8	843.37
PZ-06	849	29.0	820.0	821.89
PZ-07	884	63.5	820.2	821.24
PZ-08	916	80.5	835.5	835.78

APPENDICES

Appendix A: Report of Piezometer Installation dated November 29, 2023

Appendix B: Topographic Surface Contour Map (SCS)



3516 Greensboro Avenue
Tuscaloosa, AL 35401
205.345.0816
www.TTLUSA.com

November 29, 2023

Transmitted via email: (rusty.gann@oxfordal.gov.com)

Mr. Rusty Gann, PE
Oxford City Engineer & Public Works Director
City of Oxford C & D Landfill
42 Public Works Drive
Oxford, Alabama 36203

Subject **Report of Piezometer Installation**
 City of Oxford C & D Landfill
 Oxford, Calhoun County, Alabama
 TTL Project No. 000230101861.00

Dear Mr. Gann,

TTL, Inc. (TTL) is pleased to submit, for your files, this letter report documenting field activities performed on October 24 through October 31, 2023. TTL's services were provided in accordance with TTL's Proposal No. P00230101861.00 dated July 21, 2023, as authorized by the City of Oxford on September 14, 2023. This letter report documents the work performed and the methods used for piezometer installation activities.

Sincerely,

TTL, Inc.


Jordan P. Faltys
Project Professional


J. Mark Tanner, P.G.
Senior Principal Geologist

REPORT OF PIEZOMETER INSTALLATION

CITY OF OXFORD C & D LANDFILL OXFORD, CALHOUN COUNTY, ALABAMA

Submitted to:

City of Oxford C & D Landfill
42 Public Works Drive
Oxford, Alabama 36203

Prepared by:

TTL, Inc.
3516 Greensboro Avenue
Tuscaloosa, Alabama 35401

TTL Project No. 000230101861.00

November 29, 2023



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1.0	PROJECT INFORMATION	3
2.0	FIELD ACTIVITIES	3
2.1	Piezometer Installation	3
3.0	SIGNATURES OF PROFESSIONALS	4

Appendix A: Figures

- Figure 1. Site Location and Topographic Map
- Figure 2. Piezometer Location Map

Appendix B: Boring & Piezometer Construction Logs

1.0 PROJECT INFORMATION

The City of Oxford's C & D Landfill is located in Oxford, Calhoun County, Alabama. The subject property is in the northeast $\frac{1}{4}$ of Section 25, Township 16 south, Range 7 east, of the U.S.G.S. Oxford, Alabama 7.5-Minute Quadrangle Map, dated 2018. A Site Location and Topographic Map (Figure 1) is provided in **Appendix A**.

TTL was contacted on May 18, 2023 by Mr. Eric Sanderson, Project Director for SCS Engineers (SCS) regarding TTL's potential participation on the proposed project. On July 13, 2023, Mr. Sanderson requested that TTL provide our proposal directly to the City. TTL understands that SCS is currently providing professional services for the City of Oxford C & D Landfill which includes assisting the City of Oxford with modification of the City of Oxford's Solid Waste Disposal Facility Permit (Permit No. 08-08). Following submittal of the permit modification request to the Alabama Department of Environmental Management (ADEM), ADEM notified SCS and the City of Oxford that the previously approved groundwater elevation is no longer valid. The modification request maintains the previously approved minimum base elevation of 840 feet mean sea level (MSL) and a maximum trench depth of 15 feet.

In January 1997, Southern Earth Sciences, Inc. (SES) completed a Hydrogeologic Evaluation for the proposed "development of a construction and demolition landfill" at the site. SES' review consisted of a literature review and site visit. Based on their review, SES concluded:

- (1) "That the site is located within the Knox-Shady aquifer;"
- (2) "Groundwater at the site is estimated to be greater than 50 feet below ground surface (bgs) and flows radially from the site to the south, southeast;"
- (3) "A groundwater seep was observed at an elevation of approximately 830 feet MSL."

2.0 FIELD ACTIVITIES

2.1 Piezometer Installation

TTL utilized a CME 75 ATV drill rig equipped with 4 $\frac{1}{4}$ -inch inside diameter (I.D.) hollow-stem augers to advance eight (8) soil borings in an attempt to evaluate/confirm the depth to groundwater within proposed waste disposal areas. A Boring Location Map (Figure 2) depicting the spatial location on-site is provided in **Appendix A**.

TTL arrived on site October 24, 2023, to install the proposed piezometers (designated PZ-01 through PZ-08) on the City of Oxford's C & D Landfill. During drilling operations, unconsolidated samples were continuously collected utilizing a 5-foot-long split-spoon sampler for piezometers PZ-02, PZ-03, PZ-04, and PZ-05. Samples were collected using a 2-foot-long split-spoon sampler at 5-foot intervals for piezometers PZ-01, PZ-06, PZ-07, and PZ-08. An on-site geologist supervised the drilling efforts and documented lithologic descriptions of the subsurface material for the preparation of a continuous soil record. Soil properties such as color, grain-size composition, mineralogy, and saturation were documented. A digitized version of the piezometer boring logs were generated from the field notes utilizing Bentley's gINT software. A copy of the boring logs is provided in **Appendix B**. We note that in order to provide elevation data for piezometers TTL used final locations and Google earth data on land surface to develop elevation information as shown on the piezometer logs. Therefor these elevations should be considered approximate.

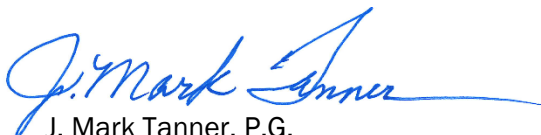
During advancement of the hollow stem augers, lean clay was observed to approximately 10' below ground surface (BGS) followed by silty sand and silty clay with interbedded clays in PZ-01, PZ-04, PZ-05, and PZ-08. Piezometers PZ-02, PZ-03, PZ-06, and PZ-07 had a majority of silty sand and silty clays to termination. Groundwater was encountered in PZ-01, PZ-05, and PZ-06. The piezometers were constructed using 10-foot sections of 2-inch diameter 0.010-inch slotted, schedule 40-PVC screen and PVC riser to 3' above ground surface. 15-foot screens were installed for the deeper piezometers PZ-01 and PZ-08. A sand pack of 20/40 graded filter sand was placed around the annulus of the screen from total depth to 2-feet above the screen. A 2-foot-thick bentonite seal was placed immediately on top of the sand pack and the remaining annular space was filled with a cement-bentonite grout to land surface. On November 2, 2023, TTL returned to develop the piezometers. Groundwater was encountered in PZ-01 with a depth-to-water of 63.68 feet BGS, and PZ-05 with a depth-to-water of 15.88 feet BGS. No water was encountered in the other piezometers. A table summarizing total depths and depths to groundwater is provided below.

Piezometer I.D.	Total Depth from Top of Casing (ft)	Casing Stick Up (ft) Above Land Surface	Depth BGS (ft)	Water Encountered During Drilling (ft)	Water Delayed (ft)	Measured Depth-To-Water (ft) Below BGS
PZ-01	81	2.5	78.5	-	78	63.68
PZ-02	52.6	3.5	49.1	-	-	-
PZ-03	33.1	3	30.1	-	-	-
PZ-04	36.8	3.7	33.1	-	-	-
PZ-05	42	3.8	38.2	26	15.65	15.88
PZ-06	32	3	29.0	-	29.43	-
PZ-07	66.8	3	63.8	-	-	-
PZ-08	83.5	3	80.5	-	-	-

TTL will continue to measure piezometers two times each month during November, December 2023, and January 2024. These measurements will be spaced a minimum of 12 days apart. Results of these measurements will be summarized in a letter report upon conclusion of the six weeks of water-level measurements.

3.0 SIGNATURES OF PROFESSIONALS

The professionals listed below participated in field services and/or preparation of this report.


J. Mark Tanner, P.G.
Senior Principal Geologist


Jordan P. Faltys
Project Professional

APPENDIX A: FIGURES

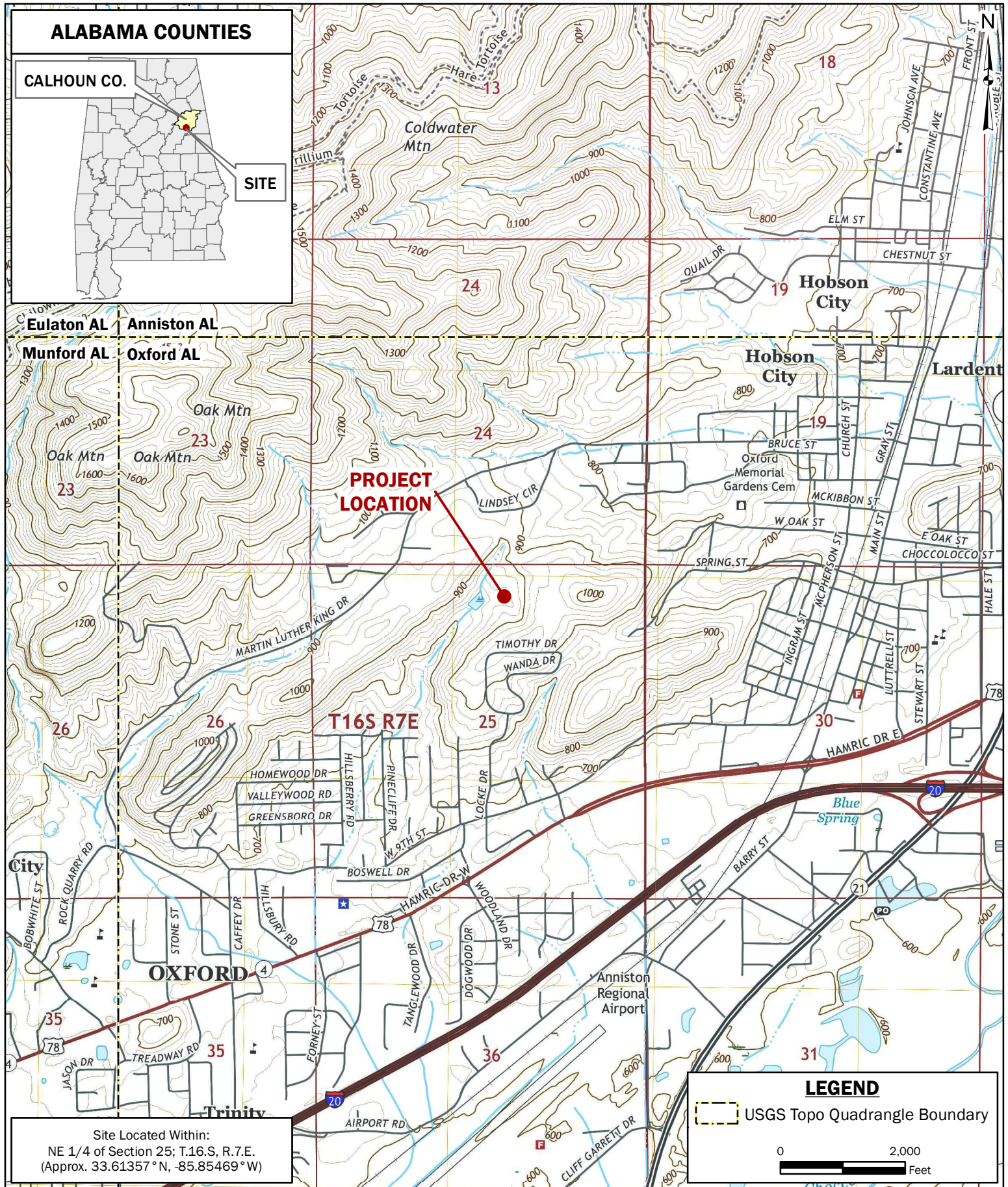


FIGURE 1: SITE LOCATION & TOPOGRAPHIC MAP

CITY OF OXFORD LANDFILL
PIEZOMETER INSTALLATION SERVICES
OXFORD, CALHOUN COUNTY, ALABAMA

BASEMAP: Oxford, Alabama, USGS 7.5 Minute Quadrangle Map, 2018 (20-ft Contour Interval).



DRAWN BY: DEK
CHECKED BY: JPF
DRAWING DATE: 11/3/2023
REVISION DATE: N/A
TTL JOB NO.: 23-01-01861.00
APPROX. SCALE: 1 in = 2,000 ft

NOTES:

1. PIEZOMETER LOCATIONS SHOWN ON THIS DRAWING WERE SURVEYED WITH SUBMETER ACCURACY.
2. PIEZOMETER LOCATION SYMBOLS ONLY REPRESENT THE LOCATION OF THE PIEZOMETER AND DO NOT REPRESENT THE SIZE OR SHAPE OF THE ACTUAL PIEZOMETER.



FIGURE 2: PIEZOMETER LOCATION MAP

CITY OF OXFORD LANDFILL
PIEZOMETER INSTALLATION SERVICES
OXFORD, CALHOUN COUNTY, ALABAMA
BASEMAP: Google Earth Satellite Imagery, November 2021.



LEGEND

 Piezometer Location & ID

0 200
Feet

DRAWN BY: DEK

CHECKED BY: JPF

DRAWING DATE: 11/3/2023

REVISION DATE: N/A

TTL JOB NO.: 23-01-01861.00

APPROX. SCALE: 1 in = 200 ft

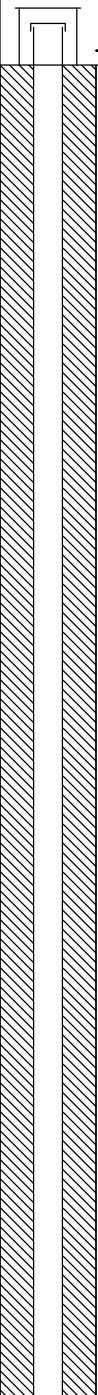
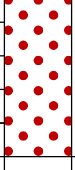
APPENDIX B: BORING & PIEZOMETER CONSTRUCTION LOGS



CITY OF OXFORD
CITY OF OXFORD C&D LANDFILL

LOG OF PIEZOMETER
PZ-01
& PIEZOMETER
CONSTRUCTION

PROJECT NUMBER	23-01-01861	PROFESSIONAL	J. Faltys
LOCATION	Oxford, Alabama	DATE(S) DRILLED	10/31/2023 - 10/31/2023
DRILLING COMPANY	TTL, Inc.	CASING DIA./TYPE	2" PVC
DRILLER	D. Campbell	SCREEN SLOT/TYPE	0.010-in. slotted PVC
DRILLING METHOD	Hollow Stem Auger w/SPT Sampling	FILTER PACK TYPE	20-40 Graded Sand
REMARKS	Water was encountered during drilling at approx. 78 feet. Delayed water was measured at approx. 63.7 feet	TOP OF CASING	919.50 Ft. AMSL
		GROUND ELEVATION	917.00 Ft. AMSL
		DEPTH TO WATER	63.7 Ft. BMP
		WATER ELEVATION	855.80 Ft. AMSL

DEPTH (feet)	GRAPHIC LOG	U.S.C.S.	SAMPLE			LITHOLOGIC DESCRIPTION	WATER LEVEL & DATE	PIEZOMETER DIAGRAM	
			INTERVAL (feet)	% RECOVERY	PID (ppm)				
						Topsoil			← Well Cover
5		CL	3-5			Clay: very hard, dense to very dense, dry, red brown - 2.5 YR 4/6			
10		CL	8-10			Clay: hard, dense, dry, mottled reddish brown - 2.5 YR 4/6 to reddish yellow - 2.5 YR 6/8. small lens of sandstone			
15		SM	13-15			Silty Sand: soft, loose, dry, pale brown - 10 YR 8/4, fine to very fine grained			
		CL/SC				Clayey Silty Sand: medium stiff, medium dense to loose, dry, reddish-brown to tan - 7.5 YR 6/8, very fine grained			
20		CL	18-20			Clay: medium dense, stiff, dry, light grey - 2.5 Y 7/2			
		CL/SC				Clayey Sand: soft, loose to medium dense, dry, light reddish brown - 7.5 YR 7/8 to light grey - 2.5 YR 7/2, fine to medium grained			
25		SP	23-25			Sand: soft, loose, dry, light reddish brown - 7.5 YR 7/8 to grey - 2.5 Y 7/2, medium to coarse grained, minor clay - mottled, reddish brown - 2.5 YR 4/6			
30			26-28			Sandstone: coarse grained, highly weathered, very loose, pale to light brown - 10 YR 7/3 and 10 YR 7/4			
35		CL/SC	35-37			Clayey Sand: very soft, medium to light dense, dry, reddish brown - 2.5 YR 4/6 to light tan - 10 YR 8/4, fine to very fine grained			
						Sandstone: coarse grained, highly weathered, very loose, pale to light brown - 10 YR 7/3 and 10 YR 7/4			

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LOG OF PIEZOMETER
PZ-01
& PIEZOMETER
CONSTRUCTION

PROJECT NUMBER 23-01-01861 PROFESSIONAL J. Faltys
LOCATION Oxford, Alabama DATE(S) DRILLED 10/31/2023 - 10/31/2023

Continued from Previous Page

DEPTH (feet)	GRAPHIC LOG	U.S.C.S.	SAMPLE			LITHOLOGIC DESCRIPTION	WATER LEVEL & DATE	PIEZOMETER DIAGRAM
			INTERVAL (feet)	% RECOVERY	PID (ppm)			
45		SM/CL	45-47			Silty Clay: soft, medium stiff, medium dense, moist, light grey - 2.5 Y 8/2, very fine grained		
55		SM/CL CL	55-57			Silty Clay: soft, medium stiff, medium dense, moist, light grey - 2.5 Y 8/2, very fine grained Clay: soft, medium stiff, medium dense, moist, mottled, reddish brown - 10 YR 6/6 and 10 YR 7/4.		
65		SM/CL	65-67			Silty Clay: soft, medium stiff, medium dense, moist to wet, mottled, yellow brown - 10 YR 5/8 to light grey - 2.5 Y 8/2, very fine to fine grained	10/31/2023	
73			73-73					
80						Bedrock	10/31/23	
						AUGER REFUSAL AT 81 FEET.		

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LOG OF PIEZOMETER
PZ-02
& PIEZOMETER
CONSTRUCTION

PROJECT NUMBER	23-01-01861	PROFESSIONAL	J. Faltys
LOCATION	Oxford, Alabama	DATE(S) DRILLED	10/24/2023 - 10/24/2023
DRILLING COMPANY	TTL, Inc.	CASING DIA./TYPE	2" PVC
DRILLER	D. Campbell	SCREEN SLOT/TYPE	0.010-in. slotted PVC
DRILLING METHOD	Hollow Stem Auger w/Continuous Sampling	FILTER PACK TYPE	20-40 Graded Sand
REMARKS	Water was not encountered during drilling. No delayed water was observed	TOP OF CASING	885.50 Ft. AMSL
		GROUND ELEVATION	882.00 Ft. AMSL
		DEPTH TO WATER	Not Encountered
		WATER ELEVATION	

DEPTH (feet)	GRAPHIC LOG	U.S.C.S.	SAMPLE			LITHOLOGIC DESCRIPTION	WATER LEVEL & DATE	PIEZOMETER DIAGRAM
			INTERVAL (feet)	% RECOVERY	PID (ppm)			
5		CL	0-4			Topsoil Clay: soft, dense, dry, dark brown - 10 YR 3/3		 Well Cover
		GC	4-9			Clayey Gravel: medium stiff, loose to medium dense, moist, reddish brown - 2.5 YR 3/4, fine to medium grained, subangular to rounded		
		SM				Silty Sand: soft, loose to dense, dry, pale brown - 10 YR 8/4, very fine to fine grained		
10		SM/GC	9-14			Silty Sand: soft, loose to dense, dry, pale brown - 10 YR 8/4, very fine to fine grained, with interbedded gravel from sandstone.		
15		CL/SM	14-19			Silty Sand: soft, loose to dense, dry, pink - 2.5 YR 8/3, very fine to fine grained Clay: soft, loose to medium dense dry, pinkish - 2.5 YR 8/2 to 8/4, minor organics		
20		SM	19-24			Silty Sand: soft, loose, dry, pink - 2.5 YR 8/4, fine to very fine grained. minor clay lenses (CH) hard, dry, pinkish white 2.5 YR 8/2		
25			24-29					
30			29-34					
35		SM	34-39			Silty Sand: soft, loose, moist, pink - 2.5 YR 8/4, fine to very fine grained		
		CL	39-44			Clay: soft, low dense, dry, mottled, brownish orange - 10 YR 7/4 and 10 YR 7/8		

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CITY OF OXFORD C&D LANDFILL

LOG OF PIEZOMETER
PZ-02
& PIEZOMETER
CONSTRUCTION

PROJECT NUMBER 23-01-01861 PROFESSIONAL J. Faltys
LOCATION Oxford, Alabama DATE(S) DRILLED 10/24/2023 - 10/24/2023

Continued from Previous Page

DEPTH (feet)	GRAPHIC LOG	U.S.C.S.	SAMPLE			LITHOLOGIC DESCRIPTION	WATER LEVEL & DATE	PIEZOMETER DIAGRAM	
			INTERVAL (feet)	% RECOVERY	PID (ppm)				
		CL/SM				Clayey Silty Sand: medium stiff, medium dense, moist, pale brown - 10YR 8/3 to light grey 10 YR 8/4, fine to very fine grained			
45			44-49						
50									
BORING TERMINATED AT 52.6 FEET.									

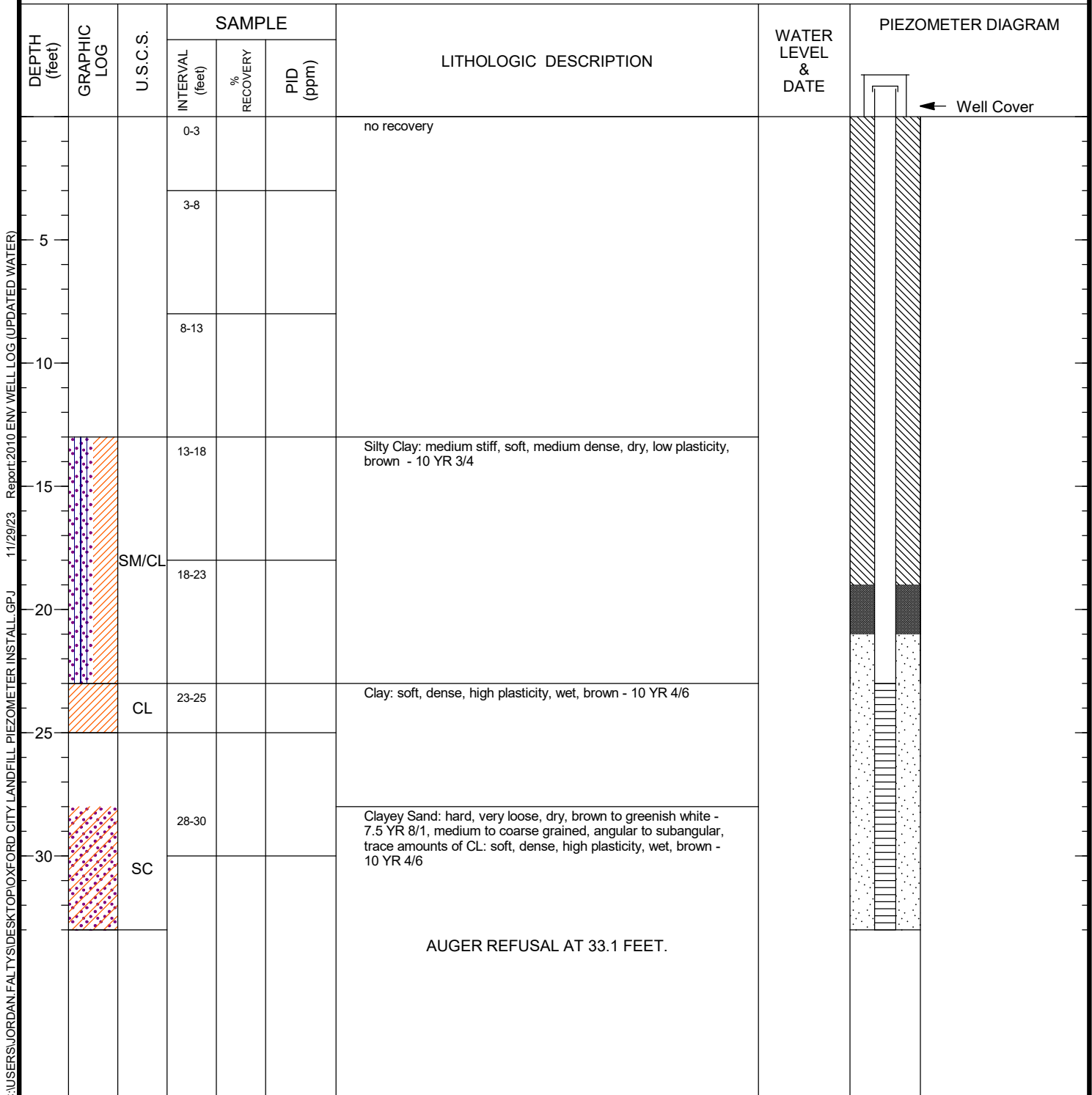
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CITY OF OXFORD C&D LANDFILL

LOG OF PIEZOMETER
PZ-03
& PIEZOMETER
CONSTRUCTION

PROJECT NUMBER	23-01-01861	PROFESSIONAL	J. Faltys
LOCATION	Oxford, Alabama	DATE(S) DRILLED	10/25/2023 - 10/25/2023
DRILLING COMPANY	TTL, Inc.	CASING DIA./TYPE	2" PVC
DRILLER	D. Campbell	SCREEN SLOT/TYPE	0.010-in. slotted PVC
DRILLING METHOD	Hollow Stem Auger w/Continuous Sampling	FILTER PACK TYPE	20-40 Graded Sand
REMARKS	Water was not encountered during drilling. No delayed water was observed	TOP OF CASING	886.00 Ft. AMSL
		GROUND ELEVATION	883.00 Ft. AMSL
		DEPTH TO WATER	Not Encountered
		WATER ELEVATION	



PROFESSIONAL	J. Faltys
DATE(S) DRILLED	10/24/2023 - 10/24/2023
CASING DIA./TYPE	2" PVC
SCREEN SLOT/TYPE	0.010-in. slotted PVC
FILTER PACK TYPE	20-40 Graded Sand
TOP OF CASING	860.70 Ft. AMSL
GROUND ELEVATION	857.00 Ft. AMSL
DEPTH TO WATER	Not Encountered
WATER ELEVATION	

DEPTH (feet)	GRAPHIC LOG	U.S.C.S.	SAMPLE			LITHOLOGIC DESCRIPTION	WATER LEVEL & DATE	PIEZOMETER DIAGRAM
			INTERVAL (feet)	% RECOVERY	PID (ppm)			
0			0-3			Topsoil		
		SC				Sand: hard, very loose, dry, dark brown - 7.5 YR 3/3, medium to coarse grained, subrounded.		
		CL				Clay: very stiff, dense, dry, mottled, greyish - orangish - brown - 7.5 YR 6/6, 7.5 YR 8/1, 7.5 YR 7/8.		
5		CL/SC	3-8			Clayey Sand: very stiff, dense, dry, mottled, greyish - orangish - brown - 7.5 YR 6/6, 7.5 YR 8/1, 7.5 YR 7/8, fine grained		
		CL				medium stiff, medium dense, dry, orangish brown - 7.5 YR 4/6		
10		CL	8-13			Clay, soft, medium dense, dry, very dark brown - 7.5 YR 2.5/3		
15		SM/CL	13-18			Silty Clay: very stiff, very dense, moist to dry, mottled, greyish - orangish - brown - 7.5 YR 6/6, 7.5 YR 8/1, 7.5 YR 7/8, very fine to fine grained		
20		SM/CL	18-23					
25		SM/CL	23-28			Silty Clay: stiff, dense, wet, brown - 7.5 YR 4/6, fine to medium grained		
30		CL	28-33			Clay: hard, dense, moist to dry, dark brown - 7.5 YR 2.5/3		
35								
BORING TERMINATED AT 36.8 FEET.								



CITY OF OXFORD
CITY OF OXFORD C&D LANDFILL

LOG OF PIEZOMETER
PZ-05
& PIEZOMETER
CONSTRUCTION

PROJECT NUMBER	23-01-01861	PROFESSIONAL	J. Faltys
LOCATION	Oxford, Alabama	DATE(S) DRILLED	10/25/2023 - 10/25/2023
DRILLING COMPANY	TTL, Inc.	CASING DIA./TYPE	2" PVC
DRILLER	D. Campbell	SCREEN SLOT/TYPE	0.010-in. slotted PVC
DRILLING METHOD	Hollow Stem Auger w/Continuous Sampling	FILTER PACK TYPE	20-40 Graded Sand
REMARKS	Water was encountered during drilling at approx. 26 feet. Delayed water was measured at approx. 15.7 feet	TOP OF CASING	870.80 Ft. AMSL
		GROUND ELEVATION	867.00 Ft. AMSL
		DEPTH TO WATER	15.7 Ft. BMP
		WATER ELEVATION	855.10 Ft. AMSL

DEPTH (feet)	GRAPHIC LOG	U.S.C.S.	SAMPLE			LITHOLOGIC DESCRIPTION	WATER LEVEL & DATE	PIEZOMETER DIAGRAM
			INTERVAL (feet)	% RECOVERY	PID (ppm)			
			0-3			Topsoil		
		CL				Clay: very stiff, dense to very dense, moist, orangish brown - 7.5 YR 4/4		
5		CL	3-8			Clay: stiff, medium dense to dense, dry, mottled, reddish orangish grey - 7.5 YR 7/6 and 10 YR 8/8		
10		SC/CL	8-13			Silty Sandy Clay: soft to stiff, loose to medium dense, dry, yellowish brown - 10 YR 8/8 and 3/6, fine to medium grained, subangular	10/26/2023	
15		SC/CL	13-18			Silty Sandy Clay: soft to stiff, loose to medium dense, wet, greyish brown - 10 YR 8/4, fine to medium grained, subangular		
20		CL	18-23			Clay: very stiff, very dense, dry, greenish reddish orange - 10 YR 8/4 and 7.5 YR 7/6		
25		CH	23-28			Clay: very stiff, very dense, dry, greyish brown - 10 YR 8/4	10/25/23	
30		CH	28-33					
35		SC/CL				Sandy Clay: soft, stiff to loose, dry, greyish brown - 7.5 YR 8/1 and 7.5 YR 2.5/3, medium grained, subrounded		
		SC/CL	33-38			Sandy Clay: soft, stiff to loose, wet/SATURATED, greyish brown - 7.5 YR 8/1 and 7.5 YR 2.5/3, medium grained, subrounded		
		CH				Clay: very stiff, very dense, dry, greyish brown - 10 YR 8/4		



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LOG OF PIEZOMETER
PZ-05
& PIEZOMETER
CONSTRUCTION

PROJECT NUMBER 23-01-01861 PROFESSIONAL J. Faltys
LOCATION Oxford, Alabama DATE(S) DRILLED 10/25/2023 - 10/25/2023

Continued from Previous Page

DEPTH (feet)	GRAPHIC LOG	U.S.C.S.	SAMPLE			LITHOLOGIC DESCRIPTION	WATER LEVEL & DATE	PIEZOMETER DIAGRAM
			INTERVAL (feet)	% RECOVERY	PID (ppm)			
						AUGER REFUSAL AT 42 FEET.		

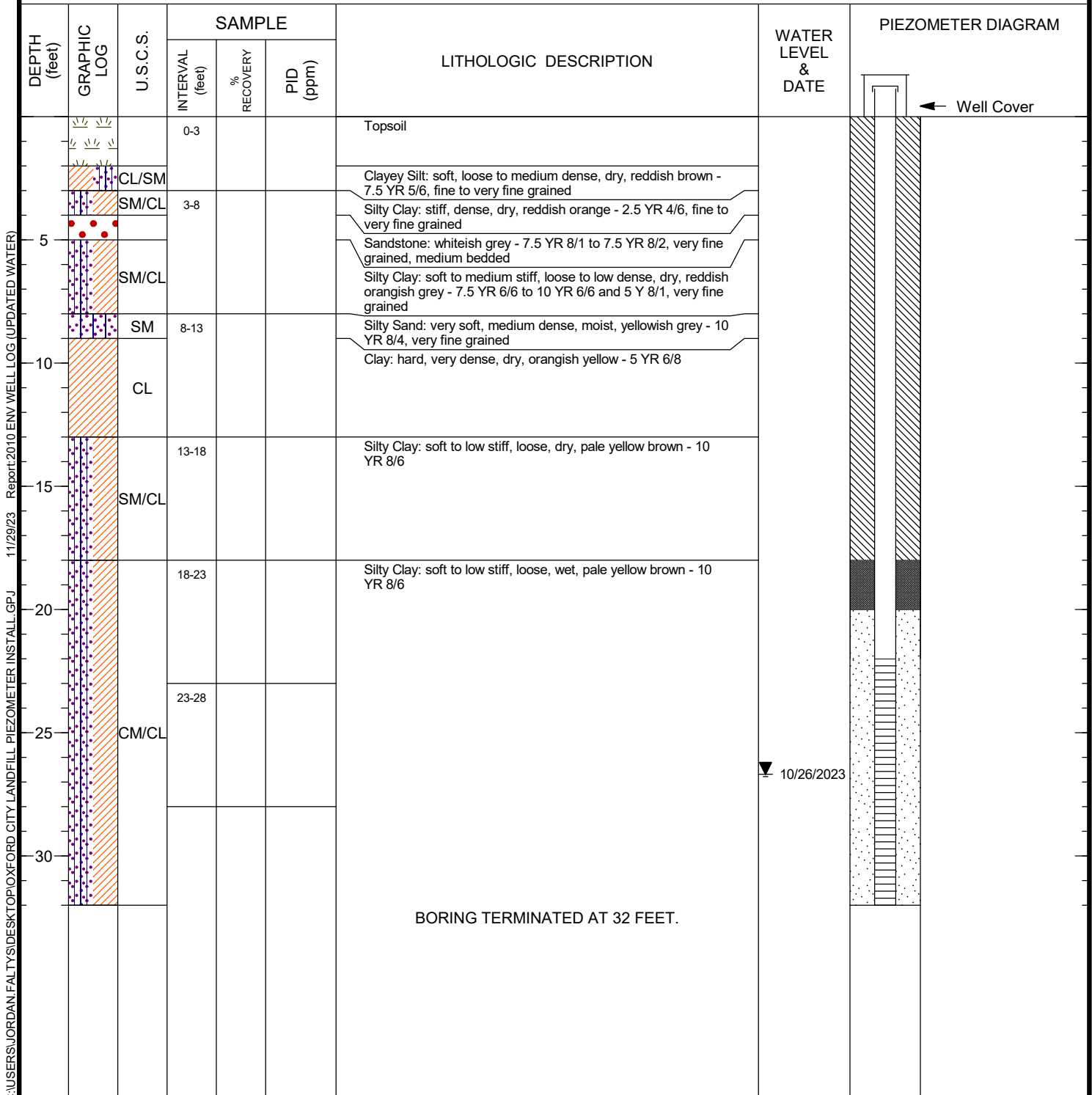
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LOG OF PIEZOMETER
PZ-06
& PIEZOMETER
CONSTRUCTION

PROJECT NUMBER	23-01-01861	PROFESSIONAL	J. Faltys
LOCATION	Oxford, Alabama	DATE(S) DRILLED	10/25/2023 - 10/25/2023
DRILLING COMPANY	TTL, Inc.	CASING DIA./TYPE	2" PVC
DRILLER	D. Campbell	SCREEN SLOT/TYPE	0.010-in. slotted PVC
DRILLING METHOD	Hollow Stem Auger w/SPT Sampling	FILTER PACK TYPE	20-40 Graded Sand
		TOP OF CASING	861.00 Ft. AMSL
REMARKS	Water was not encountered during drilling. Delayed	GROUND ELEVATION	858.00 Ft. AMSL
	water was measured at approx. 29.5 feet	DEPTH TO WATER	29.5 Ft. BMP
		WATER ELEVATION	831.50 Ft. AMSL

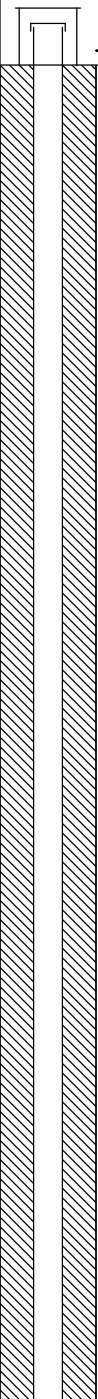




CITY OF OXFORD
CITY OF OXFORD C&D LANDFILL

LOG OF PIEZOMETER
PZ-07
& PIEZOMETER
CONSTRUCTION

PROJECT NUMBER	23-01-01861	PROFESSIONAL	J. Faltys
LOCATION	Oxford, Alabama	DATE(S) DRILLED	10/26/2023 - 10/26/2023
DRILLING COMPANY	TTL, Inc.	CASING DIA./TYPE	2" PVC
DRILLER	D. Campbell	SCREEN SLOT/TYPE	0.010-in. slotted PVC
DRILLING METHOD	Hollow Stem Auger w/SPT Sampling	FILTER PACK TYPE	20-40 Graded Sand
REMARKS	Water was not encountered during drilling. No delayed water was observed	TOP OF CASING	901.00 Ft. AMSL
		GROUND ELEVATION	898.00 Ft. AMSL
		DEPTH TO WATER	Not Encountered
		WATER ELEVATION	

DEPTH (feet)	GRAPHIC LOG	U.S.C.S.	SAMPLE			LITHOLOGIC DESCRIPTION	WATER LEVEL & DATE	PIEZOMETER DIAGRAM
			INTERVAL (feet)	% RECOVERY	PID (ppm)			
			0-3			Topsoil		
5		CL	3-5			Clay: hard, dense, dry, brownish red - 2.5 YR 4/6 to 2.5 YR 4/8		
10		SM	8-10			Silty Sand: soft, loose to slightly stiff, dry, pale tan - 10 YR 8/2, very fine grained, lens of CL: stiff, medium dense, dry, pinkish red - 5 YR 7/6		
15		CL SM	13-15			Clay: very stiff, dense, dry, reddish brown - 5 YR 4/6 Silty Sand: soft, loose to slightly stiff, dry, pale tan - 10 YR 8/2 and 10 YR 5/4, very fine grained, grading to silty clay		
20		SM/CL	18-20			Silty Sand: soft, loose to slightly stiff, dry, pale tan - 10 YR 8/2, very fine grained, interbedded with CL: stiff, medium dense, dry, pinkish red - 5 YR 7/6		
25			23-25					
30		CL/SC	28-30			Clayey Silty Sand: loose to stiff, dense, dry, pale brown - 10 YR 8/2, fine grained with lens of yellowish brown to pinkish clay - 10 YR 5/4, hard, dense, dry.		
35		CL/SC CL	33-35			Clayey Silty Sand: loose to stiff, dense, dry, pale brown - 10 YR 8/2, coarse grained with gravel and lens of yellowish brown to pinkish clay - 10 YR 5/4, hard, dense, dry. Clay: very stiff to hard, dense to very dense, dry, mottled, yellowish brownish red - 5 YR 5/8		
			38-40					

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CITY OF OXFORD
CITY OF OXFORD C&D LANDFILL

LOG OF PIEZOMETER
PZ-07
& PIEZOMETER
CONSTRUCTION

PROJECT NUMBER 23-01-01861 PROFESSIONAL J. Faltys
LOCATION Oxford, Alabama DATE(S) DRILLED 10/26/2023 - 10/26/2023

Continued from Previous Page

DEPTH (feet)	GRAPHIC LOG	U.S.C.S.	SAMPLE			LITHOLOGIC DESCRIPTION	WATER LEVEL & DATE	PIEZOMETER DIAGRAM
			INTERVAL (feet)	% RECOVERY	PID (ppm)			
45		CL/SM	43-45			Silty Clayey Sand: loose to stiff, dense, dry to moist, white - 2.5 YR 9.5/1 with light tan - 10 YR 8/2, and brown - 10 YR 5/4, coarse grained, striations and lenses of CL: hard, very stiff, reddish brown - 2.5 YR 7/8 and pinkish - 10 YR 5/4		
			48-53					
50			53-55					
55			58-60					
60			63-65					
65						BORING TERMINATED AT 66.8 FEET.		

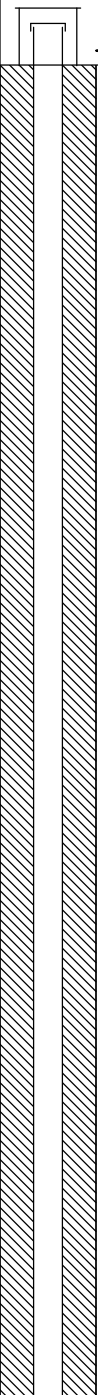
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CITY OF OXFORD
CITY OF OXFORD C&D LANDFILL

LOG OF PIEZOMETER
PZ-08
& PIEZOMETER
CONSTRUCTION

PROJECT NUMBER	23-01-01861	PROFESSIONAL	J. Faltys
LOCATION	Oxford, Alabama	DATE(S) DRILLED	10/26/2023 - 10/26/2023
DRILLING COMPANY	TTL, Inc.	CASING DIA./TYPE	2" PVC
DRILLER	D. Campbell	SCREEN SLOT/TYPE	0.010-in. slotted PVC
DRILLING METHOD	Hollow Stem Auger w/SPT Sampling	FILTER PACK TYPE	20-40 Graded Sand
REMARKS	Water was not encountered during drilling. No delayed water was observed	TOP OF CASING	934.00 Ft. AMSL
		GROUND ELEVATION	931.00 Ft. AMSL
		DEPTH TO WATER	Not Encountered
		WATER ELEVATION	

DEPTH (feet)	GRAPHIC LOG	U.S.C.S.	SAMPLE			LITHOLOGIC DESCRIPTION	WATER LEVEL & DATE	PIEZOMETER DIAGRAM
			INTERVAL (feet)	% RECOVERY	PID (ppm)			
			0-3			Topsoil		 Well Cover
			3-5					
5		CL	8-10			Clay: stiff, medium dense to dense, dry, reddish brown - 5 YR 4/6		
		SM	13-15			Silty Sand: soft to loose, medium dense, dry, yellowish brown - 10 YR 5/8		
15		SM				Silty Sand: soft to loose, medium dense, moist, yellowish brown - 10 YR 6/8 to pale tan - 10 YR 8/2		
			18-20					
		SM	23-25			Silty Sand: soft to loose, medium dense, wet, mottled yellowish brown - 10 YR 6/8 to pale tan - 10 YR 8/2 and white - 2.5 YR 9.5/2		
25								
		CH	28-30			Clay: stiff, dense, dry, light grey - 2.5 Y 7/2		
30		SM	33-35			Silty Sand: soft to medium dense, loose, dry to moist, medium brown - 10 YR 6/6, fine grained. some interbedded CL: stiff, dense, dry, pinkish red - 7.5 YR 8/6		
35								
		CL	38-40			Clay: soft to medium stiff, dense, dry, brownish reddish pink - 7.5 YR 7/8 to 5 YR 7/8 and 6/8		

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CITY OF OXFORD
CITY OF OXFORD C&D LANDFILL

LOG OF PIEZOMETER
PZ-08
& PIEZOMETER
CONSTRUCTION

PROJECT NUMBER 23-01-01861 PROFESSIONAL J. Faltys
LOCATION Oxford, Alabama DATE(S) DRILLED 10/26/2023 - 10/26/2023

Continued from Previous Page

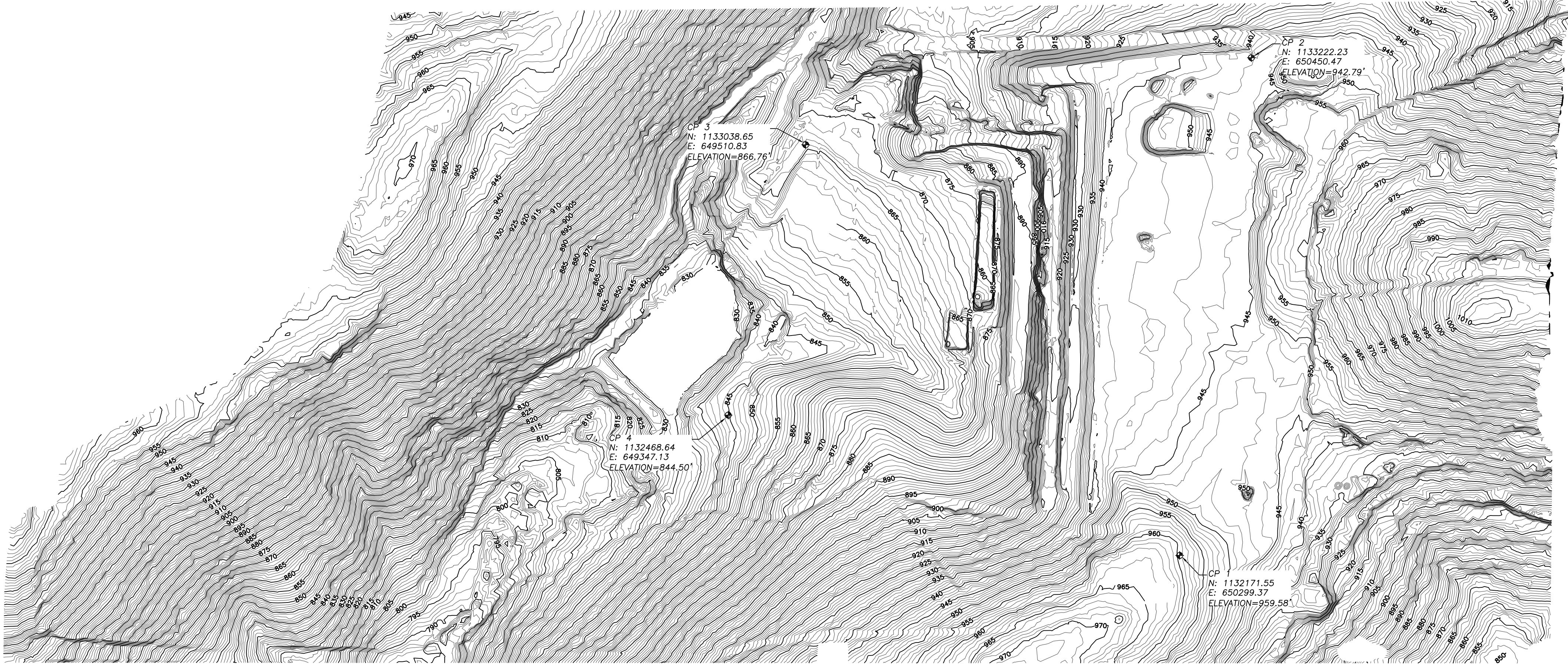
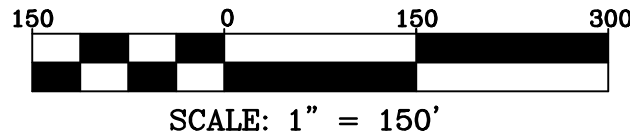
DEPTH (feet)	GRAPHIC LOG	U.S.C.S.	SAMPLE			LITHOLOGIC DESCRIPTION	WATER LEVEL & DATE	PIEZOMETER DIAGRAM
			INTERVAL (feet)	% RECOVERY	PID (ppm)			
45		SM	43-45			Silty Sand: soft, medium dense to loose, dry to moist, light brown to yellowish brown - 10 YR 8/3 and 7.5 YR 6/8, fine grained, minor clay.		
50		SM	48-50			Silty Sand: soft, medium dense to loose, wet, light brown to yellowish brown - 10 YR 8/3 and 7.5 YR 6/8, fine grained, minor clay.		
55		SM/CL	53-55			Silty Clay: soft, dense, high plasticity, wet, mottled, light tanish brown to reddish brown with light grey - 2.5 Y 7/2 and 7.5 YR 4/6		
60			58-60					
65		CL	63-65			Clay: very stiff, medium dense to very dense, moist to dry, yellowish grey - 2.5 YR 6/3		
70		SM/CL	68-70			Silty Sandy Clay: soft, dense, high plasticity, dry to moist, mottled, light tanish brown to reddish brown with light grey - 2.5 Y 7/2 and 7.5 YR 4/6 interbedded with Clay: very stiff, medium dense to very dense, moist to dry, yellowish grey - 2.5 YR 6/3		
75			73-75					
80		CL	78-80			Clay: hard, very dense, dry, light grey - 2.5 Y 6/3		
BORING TERMINATED AT 83.5 FEET.								

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LEGEND

- 23— GROUND CONTOUR
◆ CONTROL POINT
18"x5/8" REBAR W/TRAVERSE CAP



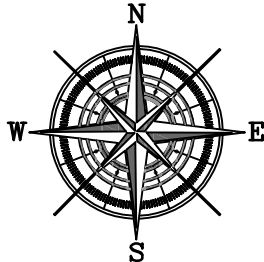
- NOTES:
- 1.) Bearing Basis: Referenced to Alabama State Plane Coordinate System East Zone (101) NAD 83(2011) established by RTK GPS utilizing ALDOT Network as a continuously operating reference station.
 - 2.) Type of Survey: Aerial
 - 3.) Field Date(s): July 14, 2022
 - 4.) All corners are as noted.
 - 5.) This drawing does not represent a boundary survey.
 - 6.) Elevations shown are referenced to NAVD 88, Geoid 18 and collected using a combination of RTK-GPS and Drone Mounted LIDAR.

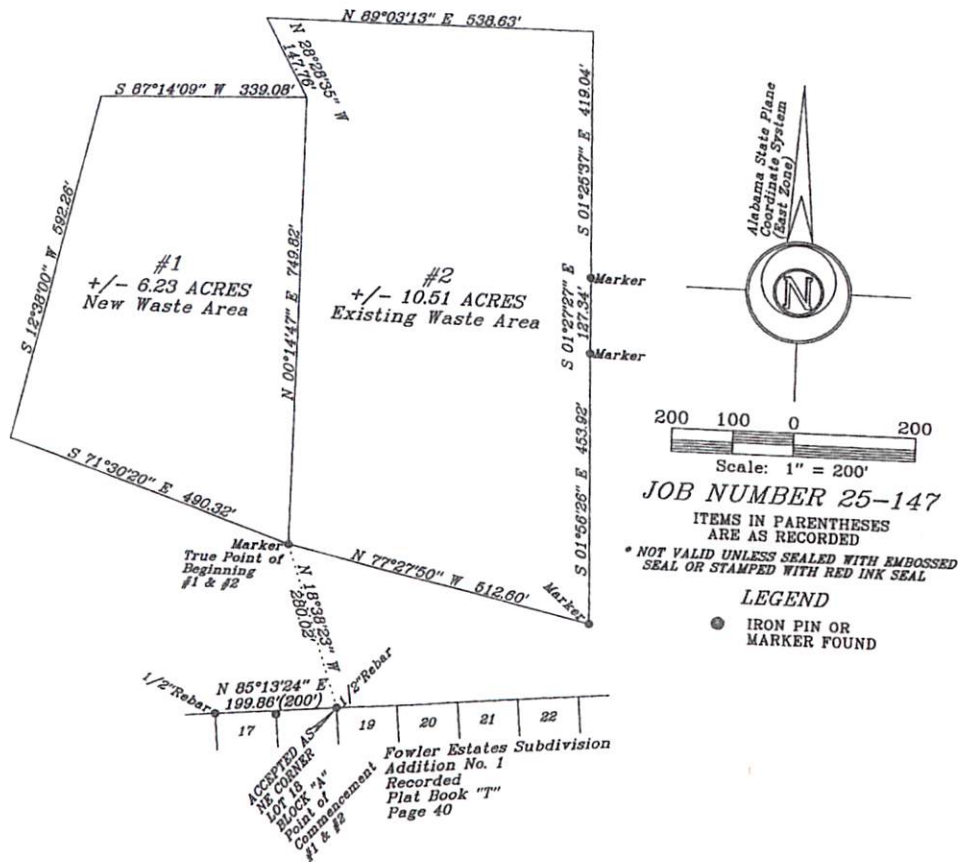


I hereby state that all parts of this survey and drawing have been completed in accordance with the current requirements of the Standards of Practice for Surveying in the State of Alabama to the best of my knowledge, information and belief.

Cecil T. Hudson
Cecil T. Hudson, PLS
Alabama Licensed Professional
Land Surveyor No. 29983-S
Prints not valid unless
they bear an original seal

Date: 07/14/2022

REVISIONS:	AERIAL SURVEY			
	PREPARED FOR SCS Engineers			
	 ROWE ENGINEERING & SURVEYING CONSULTING ENGINEERS 3502 LAUGHLIN DR • SUITE B • MOBILE, AL 36693 PHONE 251-666-2766 • FAX 251-660-1040			
DRAWING: 52208-Aerial	JOB: 52208	PLAT DATE: July 14, 2022	SCALE: 1" = 150'	SHEET NO. 1 OF 1
DRAWN BY: SBD	FB:			
CHECKED BY: CTH				



SPECIAL USAGE SURVEY

REFERENCE CITED: JOB NO. 07-467 BY B. G. BAILEY
 JOB NO. 07-467 BY SHAWN TAYLOR
 PLAT BOOK T, PAGE 40

State of Alabama:

To All Interested Parties:

Calhoun County:

I, B.G. Bailey, a professional land surveyor of the State of Alabama; do hereby certify that the hereon plat is a true and correct plat of a certain parcel of land lying in Section 25, Township 16 South, Range 7 East; said parcel being more particularly described as follows:
NEW WASTE AREA: Beginning at a 1/2 inch rebar at the Northeast corner of Lot 18, Block A, Fowler Estates Subdivision, Addition No. 1, as recorded in Plat Book T, Page 40 in the Probate Office of Calhoun County, Alabama; thence North 18 degrees 38 min. 23 sec. West 280.02 ft. to a sign post and the true point of beginning of the hereafter described New Waste Area; thence North 00 degrees 14 min. 47 sec. East 749.82 ft. to a sign post; thence South 87 degrees 14 min. 09 sec. West 399.08 ft. to a sign post; thence South 12 degrees 38 min. 00 sec. West 592.26 ft. to a sign post; thence South 71 degrees 30 min. 20 sec. East 490.32 ft. to true point of beginning. Containing 6.23 acres, more or less.

EXISTING WASTE AREA: Beginning at a 1/2 inch rebar at the Northeast corner of Lot 18, Block A, Fowler Estates Subdivision, Addition No. 1, as recorded in Plat Book T, Page 40 in the Probate Office of Calhoun County, Alabama; thence North 18 degrees 38 min. 23 sec. West 280.02 ft. to a sign post and the true point of beginning of the hereafter described Existing Waste Area; thence North 00 degrees 14 min. 47 sec. East 749.82 ft. to a sign post; thence North 28 degrees 28 min. 55 sec. West 147.76 ft. to a sign post; thence North 89 degrees 03 min. 13 sec. East 538.63 ft. to a sign post; thence South 01 degree 25 min. 37 sec. East 419.04 ft. to a sign post; thence South 01 degrees 27 min. 27 sec. East 127.34 ft. to a sign post; thence South 01 degrees 56 min. 26 sec. East 453.92 ft. to a sign post; thence North 77 degrees 27 min. 50 sec. West 512.60 ft. to true point of beginning. Containing 10.51 acres, more or less.

I hereby certify that all parts of this survey and drawings have been completed in accordance with the requirements of the Standards of Practice for Surveying in the State of Alabama to the best of my knowledge, information and belief, except as noted above.

According to my survey of July 29, 2025.

B.G. Bailey, Reg. No. 12502
 BAILEY ENGINEERING, INC.
 1205 Noble Street
 Anniston, Al. 36201
 256-237-4834



Received

JUL 31 2025

Land Division

about:blank

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FW: City of Oxford Solid Waste Permit (08-08) Modification Application

Jonathan should be able to help you with this.

From: Sanderson, Eric <ESanderson@scsengineers.com>

Sent: Tuesday, February 14, 2023 6:53 AM

To: Wilson, J Jason <JWilson@adem.alabama.gov>; Kelly, Jared <jkelly@adem.alabama.gov>

Cc: Hendrix, Trevor <THendrix@scsengineers.com>; Curtis, Bob <BCurtis@scsengineers.com>; Rusty Gann (rusty.gann@oxfordal.gov) <rusty.gann@oxfordal.gov>; Todd Gauntt <todd.gauntt@oxfordal.gov>

Subject: City of Oxford Solid Waste Permit (08-08) Modification Application

Jason and Jared,

Please see the attached application from the City of Oxford requesting to change the sequence of fill within the previously approved disposal area at the City of Oxford Landfill (08-08). The City of Oxford will pay the required permit fees through ADEM's online payment system. Please confirm via this email you have received this application. Please let me know if you have any questions.

Thanks

Eric

Eric Sanderson, PE

Project Director

SCS Engineers

1546 Elise Lane

Auburn, Alabama 36830

(334) 332-8402 (Cell)

esanderson@scsengineers.com



Adornato, Melissa H

👍 ↩️ ⏪ ⏩ ⋮

To: Eric Sanderson <ESanderson@scsengineers.com>

Tue 5/9/2023 1:31 PM

Cc: todd.gauntt@oxfordal.gov; rusty.gann@oxfordal.gov

Thank you all for providing the local approval verification and fee for the City of Oxford permit modification. However, the following information/documentation is still needed to complete the application:

- According to the ADEM Admin. Code r. 335-13-5-.06(1)(a)4., the modification for the City of Oxford is a major modification rather than a minor modification because this modification is not just a change in fill sequence but also a design plan for this part of the landfill which was not previously submitted. Please see if the online payment system will allow you to modify the payment.
- In the cover letter of the February 14, 2023, permit renewal application, SCS Engineers state that a previously approved minimum base elevation of 840 feet MSL was used in the application without providing the source of that 840 feet MSL. I have looked through all of our documents for the City of Oxford Landfill in laserfiche and have been unable to come up with a statement from ADEM approving the use of the 840 feet MSL (or any other number, for that matter). I did find a reference for the 840 feet MSL in the July 7, 1997, Hydrogeologic Evaluation by Southern Earth Sciences, Inc. (repeated in some of the subsequent City of Oxford permit renewal applications), but that number was not derived by a satisfactory method. In addition, the number 875 feet MSL was included in the February 13, 2009, cover letter to the 2008 permit renewal application update by Bailey Engineering, Inc., without any acceptable basis either. Please submit documentation supporting ADEM Admin. Code r. 335-13-4-.11(2)(a).
- Please submit Phase I Final Grading Plan (Drawing No. 6), Phase II Final Grading Plan (Drawing No. 8), and Phase III Final Grading Plan (Drawing No. 9) combined on one drawing. Please also provide a drawing or explanation as to what part of the permitted facility that these design plans are for.

Please let me know if you have any questions.



This email originated from outside of SCS Engineers. Do not click links or open attachments unless you recognize the sender and know the content is safe.

AH

Adornato, Melissa H

To: Curtis, Bob <BCurtis@scsengineers.com>



Fri 3/8/2024 11:05 AM

Mr. Curtis,

The major modification fee is \$2,915, facility paid \$1,460 for the minor modification fee, so the difference is \$1,455 to be paid.

According to the ADEM Admin. Code r. 335-13-5-.06(1)(a)4., the modification for the City of Oxford is a major modification rather than a minor modification because this modification is not just a change in fill sequence but also a design plan for this part of the landfill which was not previously submitted.

Thanks,

Melissa H. Adornato

Alabama Department of Environmental Management

Land Division

Solid Waste Branch

Solid Waste Engineering Section

Phone (334) 270-5605

melissa.adornato@adem.alabama.gov



P.O. Box 301463

Montgomery, AL 36130-1463