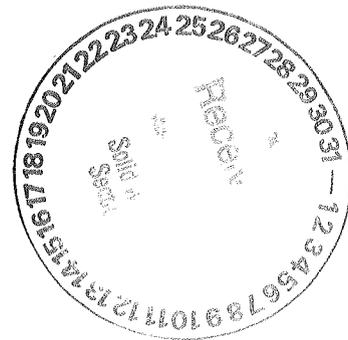


Wake County,
North Carolina

North Wake Subtitle D Landfill
Phase I Closure
Construction Quality Assurance

Volume 1 of 2
CQA Report
Appendix A

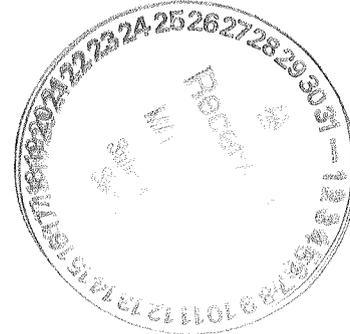
March 2005



Report



5400 Glenwood Avenue, Suite 300
Raleigh, North Carolina 27612
tel: 919 787-5620
fax: 919 781-5730



March 30, 2005

Mr. Jim Barber
Solid Waste Permitting Branch
North Carolina Department of Environment and Natural Resources
401 Oberlin Road, Suite 150
Raleigh, North Carolina 27605

Subject: CQA Report – Phase 1 Closure
North Wake Subtitle D Landfill
Wake County, North Carolina
Permit No. 92-09

Dear Mr. Barber:

The purpose of this letter is to transmit three (3) copies of the Construction Quality Assurance (CQA) Report for the Phase 1 Closure of the above referenced project. Camp Dresser & McKee (CDM) performed CQA testing and construction observation for earthwork, subgrade preparation, geomembrane liner, drainage net composite, protective soil cover, vegetative soil cover, and the stormwater collection system in general accordance with the approved CQA Plan.

This letter is also intended to serve as the certification statement that is required by Rules .1624 and .1627. I have reviewed the testing results and other documentation and they accurately reflect the installation and testing that was observed by CDM. To the best of my knowledge, information, and belief, the construction of the Phase 1 Closure was completed in general accordance with:

- the approved CQA Plan;
- the conditions of the Permit to Construct;
- the Permit Amendment Application submitted by CDM dated January 2004;
- the requirements of Rule .1627; and,
- acceptable engineering practices.



Mr. Jim Barber
March 30, 2005
Page 2

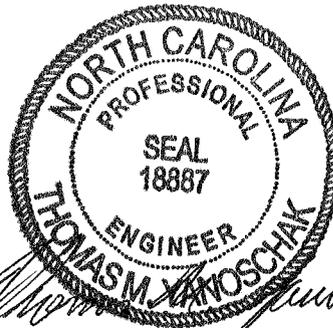
Please let me know if you would like to schedule an inspection of the Phase 1 Closure area. If you have any questions or comments, or need additional information during your review, please do not hesitate to contact me.

Very truly yours,

Thomas M. Yanoschak, P.E.
Project Manager
Camp Dresser & McKee

xc: B. Sessoms, WCFDC
J. Beal, WCSWM
R. Brossoie, CDM
J. Wiseman, CDM

File: G101.1



Thomas M. Yanoschak
3/30/05

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Section 1

Introduction

This report summarizes quality assurance services provided by Camp Dresser & McKee (CDM) during construction of the North Wake Landfill Subtitle D Landfill Phase I Closure project. The constructed Phase I Closure project resulted in the partial closure of approximately 26.9 acres of the North Wake Subtitle D Landfill, including an additional 6.3 acres to the original Contract following subsequent waste fill placement in the north and west slopes of the active Subtitle D Landfill. The Phase I Closure consisted of the partial closure of the east and north side slopes up to elevation 370 and the west side slope up to elevation 350, typically leaving a 10 foot vertical separation between the partial closure limits and the active fill areas of the landfill.

The purpose of this report is to provide the completed construction quality assurance documentation for the Phase I Closure. This report contains daily field reports, field test results, conformance test results and liner QC reports, as well as discussion of the test results and procedures used during construction. In this report, the following critical elements of the Phase I Closure construction project have been addressed:

- Onsite and offsite borrow
- Intermediate cover
- 40 mil LLDPE geomembrane liner
- Geocomposite drainage net
- 18" Protective soil cover layer
- 6" Vegetative soil cover layer
- Down drain system
- Modifications to existing landfill gas extraction system components

Documentation compiled throughout construction of the Phase I Closure, including Record Drawings prepared by Thalle Construction Co, Inc. (general contractor for the project) and Hallaton, Inc. (liner subcontractor), are provided in Appendices A through D to this report.

The North Wake Subtitle D Landfill is located at 9100 Deponie Drive off Durant Road in Raleigh, North Carolina. The Subtitle D Landfill was originally permitted on October 7, 1993 (Permit No. 92-09) as issued by the North Carolina Solid Waste Section. Primary access to the landfill site is via the existing landfill entrance at 9100 Deponie Drive, with access to the Phase I Closure project site via the existing concrete perimeter road.

The components of the Phase I Closure construction are addressed within the following sections of this report:

- Section 2 – Earthwork
- Section 3 – Intermediate Cover and Subgrade Preparation
- Section 4– LLDPE Geomembrane Liner
- Section 5 – Geocomposite Drainage Net
- Section 6 - Protective Soil Cover
- Section 7 – Vegetative Soil Cover
- Section 8 – Downtrain System
- Section 9 – Landfill Gas Extraction System Components

The Phase I Closure was constructed in accordance with North Carolina Solid Waste Rules, 15A NCAC 13B Section .1600 and the Wake County Subtitle D Landfill Phase I Closure Permit Amendment submitted by CDM on January 8, 2004, and subsequently approved by the Solid Waste Section (SWS) on February 9, 2004. The amended Facility Permit is attached to the end of this Section.

The cap system consists of a minimum compacted 12-inch thick intermediate cover layer, a 40 mil LLDPE geomembrane liner, a geocomposite drainage net, a minimum 18-inch thick protective soil cover layer and a minimum 6-inch vegetative soil cover layer to help promote growth and provide improved surface erosion control.

The parties involved in the construction, testing, and construction observation services and their respective roles are summarized in the following table.

Party	Role
Camp Dresser & McKee (CDM)	<p>Engineering Consultant --provided a full-time Resident Project Representative (RPR), quality assurance (QA) observation and testing, geotechnical laboratory testing, LLDPE liner observation, and general services during construction such as coordination of project meetings, clarification of design issues, troubleshooting of field problems, review of pay requests and shop drawings, issuance of change orders, closing out of the project, and other administrative tasks.</p> <p>The RPR provided primary QA services during installation of the 40 mil LLDPE liner and geocomposite drainage net.</p>
Thalle Construction Company, Inc.	General construction Contractor.
Geotechnics	Independent testing laboratory--retained by Thalle Construction and approved by CDM to conduct destructive tests and conformance tests for the 40 mil LLDPE liner and geocomposite drainage net.
Hallaton, Inc.	Synthetic liner installer and supplier subcontracted to Thalle Construction
Geotechnics	Geotechnical QC subcontracted to Thalle Construction



5400 Glenwood Avenue, Suite 300
Raleigh, North Carolina 27612
tel: 919 787-5620
fax: 919 781-5730

January 8, 2004

Mr. William D. Sessoms
Environmental Engineer
NCDENR Solid Waste Section
401 Oberlin Road, Suite 150
Raleigh, NC 27699-1646

Subject: Draft Permit Amendment Application
North Wake Subtitle D Landfill Closure

Dear Mr. Sessoms:

Attached are three (3) copies of the Draft Permit Amendment Application for the North Wake Subtitle D Landfill Closure. The purpose of this Permit Amendment Application is to revise the existing NCDENR permit to reflect the closure design modifications that were previously agreed to during discussions between Wake County and CDM.

If at all possible, please forward any comments to me by Thursday, January 15, 2004 so any necessary changes can be addressed to bidders for the closure project before the scheduled bid opening on January 22, 2004. After approval of this draft application is received from the SWS, final signed and sealed copies will be provided.

Please feel free to contact me if you have any questions. I will be happy to meet with you to facilitate your review.

Very truly yours,

Thomas M. Yanoschak, P.E.
Project Manager
Camp Dresser & McKee

Attachment: as noted

xc: P. Stout, Wake County
J. Beal, Wake County
J. Wiseman, CDM

J. Reynolds, Wake County
B. Brossoie, CDM
T. Esqueda, CDM



North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor
William G. Ross Jr., Secretary

Post-it® Fax Note	7671	Date	2/10	# of pages ▶	4
To	TOM YAN OSCHAK				
From	Bill Sessions				
Co./Dept.	CDM	Co.	DWM		
Phone #		Phone #	733-0692		
Fax #	781-5730	Fax #			

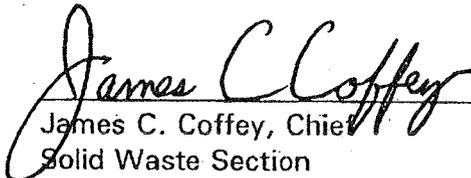
FACILITY PERMIT NO: 92-09
Part 1-Permit to Construct
Date of Original Issue: October 19, 1984
Permit Amendment: October 7, 1993
Permit Renewal: May 14, 1997
C&D Unit: November 1, 2000
MSW Closure Modification: February 9, 2004
Page 1

**MUNICIPAL SOLID WASTE LANDFILL
FACILITY PERMIT**

COUNTY OF WAKE

is hereby issued a PERMIT to CONSTRUCT a
MUNICIPAL SOLID WASTE LANDFILL FACILITY
CONSTRUCTION AND DEMOLITION UNIT

Accessed via Durant Road, S.R. 2006, Wake County, North Carolina in accordance with Article 9, Chapter 130A, of the General Statutes of North Carolina and all rules promulgated thereunder and subject to the conditions set forth in this permit.


James C. Coffey, Chief
Solid Waste Section

D:\SESSOMS\PROJECTS\N-Wake\ptc-9209-2-msw.wpd

FACILITY PERMIT NO: 92-09

Part 1-Permit to Construct

Date of Original Issue: October 19, 1984

Permit Amendment: October 7, 1993

Permit Renewal: May 14, 1997

C&D Unit: November 1, 2000

MSW Closure Modification: February 9, 2004

Page 2

ATTACHMENT 1

Approved Documents

PART I: GENERAL FACILITY CONDITIONS

PART II: MUNICIPAL SOLID WASTE LANDFILL CONDITIONS

1. *Permit Amendment Application, North Wake Subtitle D Landfill Closure, NCDENR Permit No. 9209, dated January, 2004, prepared by Camp Dresser & McKee.*

PART III: CONSTRUCTION AND DEMOLITION LANDFILL CONDITIONS

PART IV: LAND CLEARING AND INERT DEBRIS LANDFILL CONDITIONS

PART V: YARD WASTE CONDITIONS

PART VI: MISCELLANEOUS TREATMENT AND PROCESSING FACILITIES CONDITIONS

FACILITY PERMIT NO: 92-09

Part 1-Permit to Construct

Date of Original Issue: October 19, 1984

Permit Amendment: October 7, 1993

Permit Renewal: May 14, 1997

C&D Unit: November 1, 2000

MSW Closure Modification: February 9, 2004

Page 3

ATTACHMENT 2

PART I: GENERAL FACILITY CONDITIONS

FACILITY CONSTRUCTION CONDITIONS

FACILITY PRE-OPERATIVE CONDITIONS

PART II: MUNICIPAL LANDFILL UNIT SPECIFIC CONDITIONS

CONSTRUCTION CONDITIONS

1. Wake County shall conduct a pre-construction meeting, on-site, prior to initiating construction of any unit at the site and shall notify the Solid Waste Section 10 days prior to said meeting.
2. Construction of all solid waste management units within this facility shall be in accordance with the pertinent approved plans and only for those phases of development approved for construction as described in Attachment 1, "Approved Documents".
3. Additional conditions and revisions of the approved plans or documents or changes during construction of any landfill unit require approval by the North Carolina Solid Waste Section.
4. Sedimentation and erosion control activities require approval by the North Carolina Land Quality Section. The North Carolina Solid Waste Section shall be notified of any sedimentation and erosion control modifications.
5. The owner's geologist shall be in the field to supervise all well installations. Any modifications to the approved water quality monitoring plan require approval by the Section Hydrogeologist. Documentation of all changes to the approved plan shall be submitted with the well construction records.
6. For each monitoring well constructed, a well construction record, well schematic, boring log and a description of well development activities shall be submitted to the Section within 30 days upon well completion.

FACILITY PERMIT NO: 92-09

Part 1-Permit to Construct

Date of Original Issue: October 19, 1984

Permit Amendment: October 7, 1993

Permit Renewal: May 14, 1997

C&D Unit: November 1, 2000

MSW Closure Modification: February 9, 2004

Page 4

7. Site preparation shall be in accordance with the approved plans, and the conditions specified herein.
8. Upon completion, a site inspection shall be made by a representative of the Solid Waste Section.
9. Financial Assurance, as required by 15A NCAC 13B .1628, shall be in place and maintained.

PRE-OPERATIONAL CONDITIONS

PART III: CONSTRUCTION AND DEMOLITION DEBRIS UNIT SPECIFIC CONDITIONS

PART IV: LAND CLEARING AND INERT DEBRIS UNIT SPECIFIC CONDITIONS

PART V: YARD WASTE UNIT SPECIFIC CONDITIONS

PART VI: MISCELLANEOUS TREATMENT AND PROCESSING UNIT SPECIFIC CONDITIONS



5400 Glenwood Avenue, Suite 300
Raleigh, North Carolina 27612
tel: 919 787-5620
fax: 919 781-5730

May 12, 2004

Mr. Christopher R. Haverstrom, P.E.
Project Manager
Thalle Construction Co., Inc.
228 South Churton Street
Hillsborough, NC 27278

Subject: Wake County, North Carolina
North Wake Subtitle D Landfill Phase I Closure
CDM Project No. 6172-42378
Geosynthetic Installation

Dear Mr. Haverstrom:

Camp Dresser & McKee (CDM) has reviewed the attached requests from Hallaton, Inc. regarding proposed alternate methods of geocomposite installation on corners and geomembrane horizontal seams.

CDM will accept these alternate methods provided they are in accordance with the Manufacturer's recommendations. Please note that the warranty and guarantee requirements contained in the specifications shall remain in effect.

Please contact me at (919) 787-5620 if you have any questions.

Very truly yours,

Thomas M. Yanoschak, P.E.
Project CQA Manager
Camp Dresser & McKee

Attachment

cc: B. Sessoms, WCFDC
J. Beal, WCSWM
J. Wiseman, CDM
J. Salts, CDM

J. Treadway, CDM
B. Dalton, CDM
~~B. Brossoie, CDM~~

File: G-101.1/C-202

HALLATON, INC.

100 E. PENNSYLVANIA AVE. SUITE 203 • TOWSON, MD 21286
410 583 7700 • FAX: 410 583 7720

FACSIMILE TRANSMITTAL SHEET

TO: Tom Yanoschak	FROM: Scott Brinkerhoff
COMPANY: CDM	DATE: 5-11-04
FAX NUMBER: 919-781-5730	TOTAL NO. OF PAGES INCLUDING COVER: 3
PHONE NUMBER: 919-787-5620	SENDER'S REFERENCE NUMBER:
RE: North Wake LF	YOUR REFERENCE NUMBER:

URGENT FOR REVIEW PLEASE COMMENT PLEASE REPLY PLEASE RECYCLE

NOTES/COMMENTS:

Tom,
Attached for your review are letters to address the composite corner correction installation and geomembrane horizontal end of roll seam capping issues discussed in the pre-installation meeting. I also sent these letters to Chris Haverstrom at Thalle for formal submittal. Thanks for your attention to these issues.

Scott

Engineered Synthetic Products, Inc.

212 North Way
Birmingham, AL 35242
(205)981-1900; FAX (205)981-1901
email: g_kscott@bellsouth.net

Friday, May 7, 2004

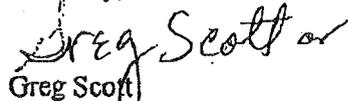
Mr. Scott Brinkerhoff
Hallaton, Inc.
100 East Pennsylvania Avenue, Suite 203
Towson, MD 21286

Re: North Wake Landfill, NC
Geocomposite Installation

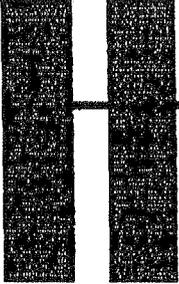
Dear Mr. Brinkerhoff;

It has come to my attention that there needs to be some clarification regarding the installation of the geocomposite for the above project. The area of primary concern is in the turns where standard rolls have to be cut when being place down the slopes. There are different ways to address this issue but we recommend that when placing Transnet on slopes where a panel direction change is required, the excess material of the overlapping roll will be trimmed to allow a minimum overlap of 1 foot. The overlapped layers of geocomposite will be attached utilizing plastic ties placed at a maximum spacing of 2 feet, or according to the engineer's specification. This joint will be capped with a heat bonded strip of geotextile similar to the composite geotextile, a minimum of 1 foot wide. This practice is done frequently in similar situations and considered to be industry accepted.

Sincerely,



Greg Scott
Engineered Synthetic Products, Inc.



HALLATON, INC.

100 E. Pennsylvania Ave. Suite 203 • Towson, MD 21286
410 583 7700 • Fax: 410 583 7720

Mr. Chris Haverstrom
Thalle Construction Company, Inc.
228 South Churton Street
Hillsborough, NC 27278

May 10, 2004
919.245.1490
919.245.1516 fax

Re: North Wake Landfill Closure – Horizontal Seams
02776 Liner Low Density Polyethylene Submittal #5

Dear Mr. Haverstrom,

We would like to address the subject of horizontal seams and their acceptability and the welding practices to be used. As identified in the above mentioned project specification paragraph, liner panels placed on slopes will be oriented so that the adjacent edges will be welded approximately parallel with the slope. This will avoid any long, continuous horizontal seams. However, due to the slope lengths and the liner roll length of 750 feet, there will be a horizontal seam the width of the liner roll – 23 feet – potentially every third or fourth panel on the slope.

In place of an extruded cap strip over this end of roll horizontal fusion seam, we suggest leaving the fusion weld as the only weld for these seams in these cases. Both the installation technique and the type of weld to be used together make horizontal end of panel seams acceptable without compromising the integrity of the liner system.

The following techniques will be used in liner deployment:

1. The number of horizontal seams will be minimized.
2. The liner panels will be installed, both by specification and standard practice, in a relaxed state and not under tension. This will reduce the possibility of stress on the weld area.
3. The location of the end of roll seams will be kept to the lower half of the slope.
4. Adjacent panels will not have end of panel horizontal seams.

The type of weld utilized on the horizontal seam is important. Fusion welding creates a stronger seam relative to extrusion welding. Several reasons contribute to this. The automation of the fusion welder reduces the possibility of human error. The constant speed and temperature settings provide even heating of the weld area without overheating. With extrusion welding, the necessity to grind of the surface thins and weakens the liner at this point. The human element of extrusion welding – grinding thickness and positioning of the extrudate bead can add to the weakness of the seam.

With the above items in mind, an extruded cap strip over a fusion horizontal seam does not bring added value to the seam strength. It may do more harm than good, since the extrusion weld is inferior if stressed. If the panel/seam enters a tension mode sometime after installation, the failure or yield of the liner sheet will most likely be at the weakest point, or the extrusion weld in the case of the cap strip. Effectively two inferior seams isolated the superior seam.

Based on the above discussion, we propose that a horizontal fusion weld be accepted on a minimized basis for end of roll horizontal seams, as long as the indicated installation guidelines are followed.

Please contact me if have any questions or need additional information. Thank you.

Sincerely,


Scott Brinkerhoff

A Comprehensive Environmental Services Company

Section 2

Earthwork

2.1 General

Thalle Construction Company, Inc. was the general contractor responsible for all aspects of landfill construction. Geotechnics was retained by Thalle Construction Co., Inc. as the Quality Control Laboratory (QCL) for geotechnical/conformance testing during the project. Camp Dresser & McKee (CDM) conducted Construction Quality Assurance (CQA) observation and field testing for the Owner, Wake County.

Earthwork conducted for the Phase I Closure project included those work activities required to provide a structurally stable foundation for the approximately 26.9 acre Phase I Closure area. Earthwork activities included stripping of vegetation, removal of any unsuitable materials, repair of leachate breakouts, proof rolling of the prepared subgrade, replacement of intermediate cover where needed to maintain a minimum 12 inches and preparation of the liner subgrade or surface of the intermediate cover layer for installation of the 40 mil LLDPE cap.

CQA observation and field testing were performed during earthwork activities by the CDM Resident Project Representative (RPR) to document conformance with the project specifications. Daily reports documenting project conformance and soil testing are included in Appendix A-1. Geotechnical laboratory test data associated with earthwork are also presented in Appendices A-2 through A-5.

Based on CDM's observations and testing, as well as certified surveys provided by the Contractor, the Phase I Closure area subgrade preparation and other related earthwork activities, as noted above, have been completed in general accordance with the Contract Plans and Specifications.

2.2 Site Preparation

2.2.1 Overview

Preparation of the site consisted of stripping vegetation, proof-rolling the prepared subgrade, undercutting unsuitable material and backfilling undercut areas prior to placement of the 40 mil LLDPE liner and drainage geocomposite. CQA testing and observation was performed by the on-site RPR in consultation with the CDM Project Engineer during Phase I construction.

2.2.2 Unsuitable Soil and Topsoil Removal

CDM's RPR periodically observed site clearing and grubbing. The removal of top soil prior to subgrade preparation and fill placement was also observed. The RPR examined the exposed soil subgrade prior to further excavation or fill placement to assure that the soil surfaces were generally free of organic matter, leachate breakouts or other objectionable materials.

2.2.3 Undercutting and Backfilling

Unstable areas observed during intermediate cover placement were undercut and backfilled in general accordance with the specifications. The most significant undercutting was within leachate breakout repair locations. Saturated soils encountered at each breakout location were undercut to the source of the leachate and replaced with intermediate cover material. Since these areas were typically undercut to below the intermediate cover layer and into the waste, a bridge lift of intermediate cover soil was placed to stabilize side slope repair areas. The upper portion of the bridge lift was compacted and proof rolled to allow subsequent placement of intermediate cover soil in lifts, in accordance with the specifications. Approximately 152 cubic yards of saturated waste/soil material were undercut and replaced with intermediate cover soil within leachate breakout locations. All excavated waste and leachate saturated soils were disposed of at the active face of the Subtitle D landfill. All other side slope areas were typically found to be stable.

2.3 Fill Placement and Testing

Approximately 35,035 CY of replacement intermediate cover soil was placed on the side slopes as part of subgrade preparation and to maintain the 12-inches of intermediate cover prior to Phase I Closure LLDPE installation. In addition to the initial conformance tests, the QCL also collected soil samples during intermediate cover placement and conducted the required conformance testing at the specified frequencies. The QCL conducted Atterberg limits, grain size analyses, and moisture content tests along with standard Proctor tests on soil samples obtained from the onsite borrow source, as well as samples of intermediate cover soil placed on the side slopes during construction. The results of the QCL testing conducted by Geotechnics indicate the soil materials meet the requirements for the intermediate cover and are included in Appendices A-2 through A-5.

The specification requirements for intermediate cover fill placement were as follows:

- In-Place Density - Compacted to a minimum of 95% of the maximum dry density of the soil as determined by ASTM D 698 (based on test pad results)
- Loose Lift Thickness - 8 inches maximum
- No oversize material (stones larger than 3 inches in diameter)
- Maximum percent passing the No. 200 sieve of 85%
- Maximum Liquid Limit of 60
- Maximum Plasticity Index of 40

Intermediate cover fill materials were generally placed in 8-inch-thick loose lifts or less and compacted with a CAT D6 dozer and a vibratory roller. After the surface of the fill within the cap slopes was raised to the liner subgrade elevation, the prepared

subgrade was compacted using a smooth drum roller to achieve a smooth surface prior to LLDPE placement. Stones larger than ½ inch in diameter, as well as sticks and roots, were then removed from the rolled surface by hand prior to LLDPE placement.

Intermediate cover fill placement was observed on a full-time basis by the CDM RPR. The fill soils were checked to verify the absence of topsoil, roots, rocks and wood debris and other deleterious or oversize materials. Lift thicknesses were monitored to verify that adequate compaction was being achieved.

The CDM RPR performed field density tests to evaluate the compaction (percent of maximum dry density) of the fill soils. Shallow nuclear methods (ASTM D2922) were used to obtain field density test results. Field density tests were generally performed on every lift of fill at a minimum frequency of one test per 10,000 square feet of fill placed, as required by the specifications.

One-point Proctor tests were performed in the field to establish the maximum dry density of the fill being placed. If field density test results indicated that the in-place density of the fill was less than the required minimum percentage of maximum dry density, as determined by ASTM D698, the lift of fill was re-worked and retested.

Reworking the fill consisted of performing additional passes with the smooth drum vibratory roller or scarifying the soil and allowing it to dry prior to compaction. Results of field density/moisture tests are presented in the daily reports (Appendix A-1).

Section 3

Intermediate Cover and Subgrade Preparation

3.1 General

As stated in Section 2 of this report, Phase I construction included those work activities required to provide a structurally stable foundation for the approximately 26.9 acre Phase I Closure area. Earthwork activities included stripping of vegetation, removal of any unsuitable materials, repair of leachate breakouts, proof rolling of the prepared subgrade, replacement of intermediate cover where needed to maintain a minimum 12 inches and preparation of the liner subgrade or surface of the intermediate cover layer for installation of the 40 mil LLDPE cap.

No compaction requirements were specified for subgrade preparation on 4:1 side slopes. However, a test pad was constructed by Thalle Construction at the direction of CDM to determine the method of compaction (i.e. type equipment, number of passes, etc.) by which a minimum of 95% compaction, in accordance with ASTM D-698, could be achieved. In all cases, Thalle Construction was able to achieve a minimum of 95% compaction. CDM conducted QA testing of all prepared subgrade areas to document a minimum 95% compaction.

In addition to compaction control, verification of a minimum 12 inches of intermediate cover was also monitored by survey during subgrade preparation, based on a 100 foot grid. In all cases, the minimum 12 inches of intermediate cover was maintained and typically exceeded. Thickness verification by survey is presented in Appendix D-2 of this report. Following thickness verification, an inspection of the subgrade surface was conducted by CDM, as well as representatives from Thalle Construction and Hallaton for subgrade acceptance prior to installing the 40 mil LLDPE liner. Subgrade acceptance forms signed by all parties are presented in Appendix B-4 of this report.

Based on CDM's observations and testing, as well as certified surveys provided by the Contractor, the Phase I Closure area subgrade preparation and other related earthwork activities, as noted above, have been completed in accordance with the Contract Plans and Specifications.

3.2 Borrow Sources

Material used for intermediate cover /subgrade preparation was obtained from the onsite North Wake Borrow site located south and east of the Phase I Closure area. An area of the borrow site was designated for use by Thalle Construction prior to the start of work, to be used as a source of intermediate cover, as well as a source of protective cover soil. Vegetative cover was also obtained from the same onsite borrow source location.

All materials used for the Phase I Closure were screened at the onsite borrow source location by Thalle Construction to remove any oversize material prior to placing material on the closure side slopes for intermediate cover/subgrade preparation. As stated in Section 2 of this report, Geotechnics collected soil samples during intermediate cover placement operations and conducted the required conformance testing at the specified frequencies.

Section 4

LLDPE Geomembrane Lining

4.1 Overview

The geosynthetic liner material used for the Phase I Wake County Subtitle D Landfill Closure is a 40 mil linear low-density polyethylene (LLDPE) liner manufactured by Poly-Flex of Grand Prairie, Texas and installed by Hallaton Inc. of Towson, Maryland. Hallaton Inc. has certified to the installation of the 40 mil LLDPE liner as being completed in accordance with the Contract documents and has prepared the LLDPE geocomposite as built drawings presented in Appendix D-3.

Hallaton Inc. was responsible for liner placement, welding activities, and onsite destructive and non-destructive testing as observed by the CDM RPR. CDM selected the samples to be taken for conformance testing and conducted construction quality assurance (CQA) monitoring during installation of the LLDPE liner to confirm that construction was being performed in accordance with:

- The approved CQA Plan
- The Permit Amendment Application submitted by CDM dated January 8, 2004
- The conditions of the Permit to Construct
- The Phase 1 construction permit issued by the North Carolina Solid Waste Section (Permit No. 92-09)
- Phase I Closure contract documents
- Good engineering practices, and
- Industry standards.

The LLDPE liner CQC and CQA documentation for the project are presented in Appendix B.

4.2 Pre-construction Submittals

Prior to construction of the LLDPE liner, CDM reviewed LLDPE liner documentation submitted by Thalle Construction Company, Inc. for conformance with the project specifications including:

- Liner QC log (CQC-100) listing names and locations of all contacts for the project (Appendix B-1)
- LLDPE welding crew personnel qualifications (CQC-102)(Appendix B-2)
- Tensiometer calibration certificate (Appendix B-3), and
- Pre-construction CQA document provided by Hallaton Inc.

All submittals were reviewed and approved by CDM prior to installation of the liner.

4.3 Geomembrane Certification and Conformance Testing

An identification sticker was attached to the end of each roll of 40 mil LLDPE liner identifying the manufacturer, material type, and the roll number. A conformance testing certificate for each roll was also submitted. As part of the CQA procedure, CDM reviewed the manufacturer's material certifications to verify that material test values met the minimum criteria specified in the project documents, and that the rolls were representative of the rolls tested by the manufacturer. CDM also verified that the rolls delivered to the site had the same identification number as shown on the certificates. Receiving logs (CQC-101) for the 40 mil LLDPE liner are presented in Appendix B-5. Liner manufacturer certification reports for the delivered 40 mil LLDPE liner are presented in Appendix B-6.

The following conformance tests were conducted on representative samples of the 40 mil LLDPE liner delivered to the Phase I Closure project site:

- Thickness
- Density
- Tensile Properties
- Tear Resistance
- Carbon Black Content
- Carbon Black Dispersion

A total of 102 rolls were delivered to the site, from which Poly-Flex provided conformance test results at a minimum frequency of 1 per 100,000 square feet or one sample per lot, whichever resulted in the greater number of tests, prior to delivery. Rolls were pre certified by the manufacturer prior to shipment. Eight samples were also collected and shipped to Geotechnics of East Pittsburgh, Pennsylvania for laboratory CQA conformance testing. Conformance test results are included in Appendix B-6. The conformance test results were reviewed and approved by CDM prior to installation of the liner. Of the total 102 rolls delivered to the project site, a total of approximately 130,367 square yards was installed.

4.4 Subgrade Inspection and Liner Deployment

Generally, Thalle prepared the LLDPE subgrade (i.e. surface of the intermediate cover layer) in areas where they could place the 40 mil LLDPE liner the same day. CDM representatives were on site to monitor preparation and fine grading of the intermediate cover surface. CDM evaluated the intermediate cover surface for moisture content, as well as for the presence of roots and oversize material (sharp stones greater than ½ inch in diameter). CDM also reviewed the certified survey submitted by Thalle Construction verifying the thickness of the intermediate cover.

Prior to liner deployment, Thalle Construction had a team of laborers remove any remaining oversize material, sharp stones and roots observed on the subgrade surface. Depressions or holes left from removed stones and roots were filled in to create a uniform surface for LLDPE liner deployment. Thalle utilized a smooth drum roller to prepare the intermediate cover surface for LLDPE liner placement. Prior to each HDPE liner panel deployment, CDM and Hallaton representatives conducted a final visual check of the finished intermediate cover surface. Hallaton proceeded with liner panel deployment and seaming after the subgrade surface was accepted by CDM, Thalle Construction and Hallaton. Representatives of CDM and Hallaton each signed the subgrade acceptance form for the panels deployed on each day of liner installation. Copies of the signed subgrade acceptance forms are included in Appendix B-4. The subgrade as-built drawing is included in Appendix D-1.

Liner panels were placed in their deployment positions using a Grade-all with a spreader bar, and the liner rolled downhill on the approved subgrade utilizing an all-terrain vehicle (ATV). Hallaton personnel aligned each panel with the adjacent panel to assure proper overlap for seaming purposes. After each panel was deployed, CDM observed the layout for physical defects. Any defect noticed was clearly marked with fluorescent paint or yellow crayon and subsequently repaired by Hallaton to specification standards. Hallaton marked the beginning and ending of each panel deployed with the panel I.D. number, date, and roll number. Appendix B-8 contains an LLDPE Liner Installation Tracking Log that indicates which liner rolls were used for each panel and the date the liner was deployed. A total of 130,367 square yards of LLDPE liner was installed in the overall Phase I Closure area.

4.5 Liner Seaming

The seaming of the liner panels was conducted using a dual track hot wedge welder and an extrusion welder. The dual track hot wedge welder was the primary seaming method used to join adjacent liner panels, while the extrusion welder was used for patching, detail work, and areas inaccessible to the hot wedge machine, such as cross seams.

4.5.1 Pre-Weld Seams

At the start of each shift, a pre-weld sample was obtained for each welding and extrusion machine. The pre-weld sample was tested to verify that the welding and extrusion machine parameters for each machine (temperature, voltage, and speed) were set correctly to yield an acceptable seam. A total of 89 pre-weld seam samples were taken. A total of six specimens, each approximately 1-inch wide by 6-inches long, were cut from each pre-weld seam sample. Three specimens were tested in the field for peel strength and three specimens were tested for shear strength using an approved tensiometer supplied by Hallaton. A calibration certificate for the tensiometer is provided in Appendix B-3. Each hot wedge weld specimen was required to achieve a minimum peel strength value of 50-lb/in and a shear strength value of 60 lb/in. Each extrusion weld specimen was required to achieve a minimum

peel strength value of 44-lb/in and a shear strength value of 60 lb/in. Pre-weld seam data is presented in Appendix B-8. All pre-weld seams passed.

4.5.2 Production Seams

After achieving passing results of the pre-weld specimens, CDM allowed Hallaton to proceed with liner panel welding. Hallaton and CDM inspected all liner surfaces (to be welded) for mud, sand, dirt, and water. Liner surfaces found to be unacceptable were cleaned prior to welding. At the conclusion of the panel seaming, CDM conducted a visual check of each seam for uniformity, workmanship, and defects. Any flaws observed by CDM were clearly marked on the liner and subsequently repaired by Hallaton to specification standards. All production seam locations and repair locations were recorded on the LLDPE geomembrane liner as-built drawing. (See Appendix D-3).

At the conclusion of each day of seaming operations, sand bags were installed along the edges of liner panel seams that were not welded to protect against wind uplift.

4.5.3 Seam Testing

Completed seams were tested using non-destructive and destructive testing methods. All seams were subjected to non-destructive testing. Samples for destructive testing were obtained only after the seam passed the non-destructive testing.

4.5.3.1 Non-Destructive Seam Testing

The non-destructive testing method utilized either air pressure testing or vacuum testing. Air pressure testing was used to test the space formed between the two welds of the dual track hot wedge welder. Vacuum testing was used to test areas sealed with the extrusion welder (patches, cross seams, and detail work).

Air pressure testing was conducted by pressurizing the space between the two welds by plugging one end of the seam and introducing air through the other end with a needle-fitted pump equipped with a pressure gauge and valve. The space was pressurized to a minimum of 30 psi, and the valve then shut to maintain the pressure. The pressure was monitored for 5 minutes. The starting and ending times and pressures were recorded on the liner panels. The maximum allowable drop in pressure over the 5-minute period was 3 psi. After a seam passed the air pressure test, pressure was released from the plugged end to ensure that the entire length of the seam had been pressurized.

Occasionally, the air pressure test would detect a blockage, which prevented the entire seam length from being pressurized. For seams where blockages were discovered, Hallaton patched the point of blockage and continued air testing the remaining length of seam. CDM observed the pressure testing and recorded the information on the appropriate forms included in Appendix B-9.

Vacuum tests of areas sealed with the extrusion welder (patches, cross seams, and detail work) were performed by first applying a soapy solution on top of the seam to be tested. Then a rectangular plexiglass-faced vacuum box was placed on the seam and a 5-psi vacuum was pulled in the box for a period of not less than 10 seconds. The seam was observed through the viewing window for the presence of soap bubbles. No bubbles indicated a good seam. Hallaton documented each test by marking the liner and noting the date and acceptance of all vacuum tests performed. Any failing location was marked and repaired by Hallaton. Repaired seams were then vacuum tested to verify repairs were satisfactorily made. CDM observed the vacuum testing and recorded the information on the appropriate forms included in Appendix B-9 and B-12.

4.5.3.2 Destructive Seam Testing

Destructive seam testing was performed on the field seams at the minimum rate of one sample per machine for every 500 linear feet of seam length. Destructive samples were often taken along seam lengths which were difficult to complete or where the welding machines may have exhibited malfunctions. Examples of difficult areas included panels which required extra cleaning or re-alignment during the seaming process, or where seaming was performed using low welding voltages.

CDM identified each destructive sample location and instructed Hallaton to obtain the sample. Each sample was 3 feet long by approximately 12 inches wide. The sample was divided into three 1-foot long samples. The first sample was tested on-site by Hallaton and the second sample then archived by CDM. The sample tested by Hallaton was divided into a total of six approximately 1-inch wide by 6-inch long specimens. The tensiometer was used to test three specimens for peel strength and three for shear strength. If the field test requirements were met for each of the six specimens, the third sample was forwarded to Geotechnics for independent testing.

Geotechnics tested the samples for peel and shear in accordance with ASTM D4437, as modified in NSF Standard 54. Both the left and right sides of each weld specimen were tested for peel strength. Each destructive sample was required to achieve the following:

Peel Adhesion

- A minimum load at yield of 50 lb/in width (hot wedge weld) and 44 lb/in width (extrusion weld)

Bonded Shear strength

- A minimum load at yield of 60 lb/in width

A total of 108 samples were obtained and tested. All samples passed the laboratory tests. A destructive seam testing log summarizing the destructive test results is

presented in Appendix B-10. Laboratory destructive seam testing results are presented in Appendix B-11.

4.5.4 Issues and Resolutions

Excessive tension in the liner (trampoline effect) was a concern at the toe of all 4:1 side slopes. To prevent this condition, Hallaton placed sandbags along the slope panels during the initial expansion/contraction cycle to ensure complete liner contact with the subgrade surface. Hallaton also left an additional 1-2 feet of material in the anchor trench to ensure that the liner did not creep out of the anchor trench during the expansion/contraction cycles.

4.5.4.1 Patch Locations

During construction and prior to installation of the final soil cover, it was observed that there was a build up of landfill gas under the installed 40 mil LLDPE liner at specific locations in the north and west side slopes, resulting in gas bubbles under the installed liner. Cuts were made in the liner at these locations to release the gas pressure under the liner until the final cover was in place. Patches were made by Hallaton, Inc. using extrusion welds and the patch areas surveyed by Thalle Construction. Final soil cover was placed in remaining patch areas immediately following the patch repairs. Surveyed patch locations are presented in Appendix B-13.

Section 5

Geocomposite Drainage Net

5.1 Drainage Net

5.1.1 Introduction

Hallaton Inc. proceeded with the installation of the drainage net layer after completion of the LLDPE liner installation, repairs, and testing for the Phase I Closure. Both CDM and Thalle inspected and approved areas of completed liner prior to the placement of drainage net. The drainage net layer consists of the following layers (top to bottom):

1. 6 oz. geotextile fabric,
2. drainage net, and
3. 6 oz. geotextile fabric.

The drainage net is sandwiched and fused between the upper and lower geotextile fabrics. The lower fabric is intended to provide a good frictional interface between the textured sideslope liner and the geonet layer. It will also aid in preventing imprinting of the geonet on the liner, while the upper layer is intended to prevent soil intrusion into the openings of the geonet layer.

5.1.2 Conformance Testing

Approximately 130,367 square yards of drainage net composite were placed directly above, and in uniform contact with, the completed underlying LLDPE liner in the Phase I Closure area. The manufacturer was responsible for providing quality control certificates and test results at a frequency of one per 50,000 square feet of manufactured drainage net composite. Samples of drainage net were obtained for conformance testing at a frequency of one sample per 100,000 square feet. Conformance testing was completed prior to material arriving on site. Based on CDM's review of the manufacturer's quality control certificates and conformance test results, all drainage net geocomposite was considered to be in accordance with the Contract documents. The Manufacturer's quality control certification reports for the drainage net composite material are provided for review in Appendix C-1. A copy of the conformance testing results is included in Appendix C-2.

5.1.3 Installation Method

The panels were deployed following the same panel layout as the underlying 40 mil LLDPE liner. The seams were positioned parallel to the slopes, with the exception of areas with compound slopes, in which perpendicular seams could not be avoided. Hallaton deployed each drainage net panel by hand.

The panels were positioned in direct contact with adjacent panels, and were joined by fastening the drainage net with plastic ties. The ties were placed every 5 feet in areas

where the seam laid perfectly parallel with the slopes. In areas where the seam laid in a somewhat diagonal direction to the slopes or in areas of possible stress, the tying frequency increased to one tie every 6 inches. The 6-inch spacing pattern was also used in the anchor trenches, and for joining to the ends of panels. End panels were overlapped a minimum of 1 foot in the primary direction of flow. A drainage net as-built drawing showing the location of the drainage net panels and the date of installation is included in Appendix D-3.

CDM inspected the drainage net panels for areas where damage had occurred during staging or placement procedures. Damaged drainage net sections were repaired by using plastic ties to repair the torn geonet and then using a patch wide enough to provide a sufficient overlap for fastening to the underlying panel.

Following the completion of drainage net tying, the geotextile fabric ends were neatly overlapped and bonded together using a hot wedge weld or by sewing. This was performed to ensure that the protective soil cover would not intrude into the drainage net openings. Sandbags were also used along the exposed edges of the composite panels to prevent wind uplift after placement. At the conclusion of the overlap bonding operation, the protective soil layer was placed on top of the drainage net composite.

Section 6

Protective Soil Cover

6.1 Material Description

The protective soil cover consists of an 18-inch-thick layer of soil meeting the same requirements as the intermediate cover. Screened protective soil cover was obtained from the same onsite borrow source located to the south and east of the Phase I Closure area.

6.2 Protective Cover Placement

The protective cover layer was placed on top of the geo-composite drainage net with a low ground pressure CAT D6 LGPH dozer in accordance with the contract specifications. Thalle Construction Company, Inc. constructed temporary haul roads of protective cover material approximately four feet in thickness within the Phase I Closure area to protect the 40 mil LLDPE liner from heavy construction vehicle loads, as specified. Truck traffic was confined to the thickened haul road sections. Protective cover from the temporary haul roads was then spread into adjacent areas using the low ground pressure dozer once hauling was completed in an area. The installed protective cover layer was then tracked and back bladed using a low ground pressure dozer to obtain a uniform thickness and minimal compaction after spreading.

GPS survey equipment was used to verify that a minimum 18-inch protective cover layer was uniformly achieved throughout the Phase I Closure area.

6.3 Construction Quality Assurance Testing

Thalle Construction provided CDM with laboratory conformance test results for the proposed protective cover layer material prior to placement on the side slopes. As specified, grain size analyses (ASTM D422), Standard Proctor moisture-density relationships (ASTM D698), Atterberg Limits (ASTM D4318) and natural moisture contents (ASTM D2216) were performed on the proposed materials.

Quality control testing of the protective soil cover, consisting of field density tests, was conducted during protective cover installation. Tests were performed at a minimum frequency of four tests per acre, as specified. Based on the results of the initial conformance tests and the conformance testing performed during placement, the installed protective soil cover layer generally meets project specifications and will function as designed. Conformance test results for the protective cover are included in Appendix A-3 and A-4.

6.4 Protective Cover Layer Thickness Verification

Thalle verified the total protective cover thickness by performing a field survey of the top of the composite and the top of the protective cover on a 100-foot grid. Their survey shows that the difference in elevation between the top of the composite drainage layer and the top of the protective cover layer is at least 18-inches at each grid point. The results of Thalle's field survey are shown on the as-built drawings included in Appendix D-1.

CDM field personnel observed both the placing and grading of the protective cover layer. Separate measurements of protective cover material thickness were not made by CDM personnel.

Section 7

Vegetative Soil Cover

7.1 Material Description

The vegetative cover consists of a 6-inch-thick layer of organic soil obtained from the onsite North Wake Borrow site located to the south and east of the Phase I Closure area. The vegetative soil cover was used to support growth and stabilize the surface for improved erosion control.

7.2 Material Sources

It was determined prior to the start of construction that the required quantity of vegetative cover material may not be available from the onsite borrow source. During the project it was identified that additional vegetative cover would be needed to cover the original 20.6 acre closure area. Additional vegetative cover material was also needed for the subsequent 6.3 acres of additional closure area along the north and west sides of the Phase I Closure area.

To meet the need for additional vegetative cover requirements, Thalle Construction imported vegetative cover from offsite. Vegetative cover material was also produced onsite by mixing decomposed leaves with onsite screened soils. The following quantities of onsite, offsite and mixed vegetative cover materials were used:

Onsite Vegetative Cover Material	68,895.45 SY
Imported Vegetative Cover Material	42,575.41 SY
Mixed Vegetative Cover Material	<u>24,412.54 SY</u>
Total	135,883.40 SY

7.3 Vegetative Cover Placement

The 6-inches of vegetative cover material was placed directly on top of the 18-inches of protective cover soil using a low ground pressure CAT D6 LGPH dozer in accordance with the contract specifications, resulting in a total cover thickness of 24-inches. Temporary haul roads consisting of vegetative cover material were used within the Phase I Closure area to protect the geosynthetic liner components and protective soil cover from heavy construction vehicle loads. Truck traffic was confined to the thickened haul road sections. Vegetative cover material from the temporary haul roads was then spread into adjacent areas using a low ground pressure dozer, once hauling was completed. The vegetative cover surface was then tracked and back bladed using a low ground pressure dozer to obtain uniform thickness as well as minimal compaction after spreading. No testing was performed on the vegetative cover material following placement in the Phase I Closure area.

GPS survey equipment was used to verify that a minimum 6-inch protective cover layer was being uniformly placed during construction.

7.4 Vegetative Cover Layer Thickness Verification

Thalle Construction verified the vegetative cover layer thickness by performing a field survey of the top of the vegetative cover layer on a 100-foot grid. Their survey shows that the difference in elevation between the top of the vegetative cover layer and the top of the underlying protective cover layer meets the minimum 6-inch requirement at each grid point, as specified in the Contract documents. The results of the field survey are shown on the Record Drawings presented in Appendix D-1, and documented by thickness verifications presented in Appendix D-2.

The CDM RPR observed both placing and grading of the vegetative cover layer. No vegetative cover material thickness checks were made by CDM.

Section 8

Downdrain System

Stormwater downdrains were installed within the Phase I Closure area by the Contractor in accordance with the details provided by CDM in the January 2004 Permit Amendment Application. The CDM RPR observed downdrain installation to verify that it was performed in accordance with project requirements.

Downdrain pipes and fittings consist of dual wall corrugated HDPE with watertight connections. Prior to pipe installation, a trench was excavated within the existing cover soils and waste to keep the drains from protruding above the surface of the final cover. A minimum of 12 inches of compacted intermediate cover was placed within the bottom of the trench prior to the installation of LLDPE liner and composite drainage net. A minimum of 6 inches of compacted protective cover soil was placed above the geosynthetics within the trench prior to the placement of the pipe. Backfilling around and above the pipe was performed in general accordance with the pipe manufacturer's recommendations. A minimum of 12 inches of soil cover was placed above the pipe.

Laterals from the downdrains were installed to intercept stormwater collected within the final cover swales. HDPE flared-end sections were installed at the termination of the laterals. HDPE bars were welded to the flared-end sections to serve as trash guards/safety screens.

The extension of downdrains beneath final cover swales requires the pipe to pass through the LLDPE liner/composite drainage net flap that allows drainage collected within the net to discharge into the drainage swale. Boots were not required for this non-critical penetration. The Contractor was required to closely trim the geosynthetics around this penetration to minimize bypass seepage from the flap.

Section 9

Landfill Gas Extraction System Components

Portions of the Phase I Closure area extended over an existing active landfill gas (LFG) extraction system. Components of the system that are within the closure area include gas headers and laterals, valve operators, vertical and horizontal gas extraction wellheads, and leachate collection system cleanouts.

Soil placement and compaction in the vicinity of LFG system components were performed by hand, with periodic inspection by the CDM RPR, to avoid damage to the components.

LLDPE liner penetrations for LFG system components were installed by the Contractor in accordance with the detail provided by CDM in the January 2004 Permit Amendment Application approved by NCDENR. A PVC slip casing with a minimum 1-inch annular space between the casing and the structure was first installed. The annular space was sealed using either hydrated bentonite pellets or a flexible fitting. A field fabricated 40 mil LLDPE boot was welded to the liner and attached to the slip casing using silicone caulk and two stainless steel worm drives and clamps.

All liner penetrations were inspected by the CDM RPR to verify conformity with the project requirements. Welded seams between the boots and LLDPE liner were vacuum tested by the installer and observed by the CDM RPR.

Where necessary, the Contractor extended wellheads, valve operators, and cleanouts to extend a minimum of three feet above the top of vegetative cover soil. Wellheads were extended by welding additional lengths of HDPE pipe to the wells and LFG collection laterals. Valve operators were extended using extension kits obtained by the valve manufacturer. Extensions were observed by the CDM RPR to verify proper installation and operation.

Appendix A-1

Daily Reports

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 03-25-04 through 03-27-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi _____ Lo: _____ Clear _____ Partly _____ Cloudy _____ Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

(Contractor) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes				
Superintendent			Loader Backhoes				
Engineer			F.E. Loaders				
Foreman			Dozers				
Asst. Foreman			Grader				
Equip. Operators			Dump Trucks				
Masons			Pick-up Trucks				
Pipelayers			Cars				
Laborers			Compactors				
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flagpeople			Well Point Systems				
Surveyors			Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total		*	Total		*		*

*Designates subcontractors

Activity and Location: No work performed by contractor or RPR

Effective work noted today to be corrected later: _____



CAMP DRESSER & McKEE
 (North Wake Subtitle D Landfill Phase I Closure)
DAILY CONSTRUCTION QUALITY ASSURANCE REPORT

Sheet No.: 1 of 1 Report #: 1-3
 Date: 03-25-04 through 03-27-04
 Weather: low high

WORK AND EQUIPMENT

VISITORS

EQUIPMENT:

None

WORK COMPLETED:

Contractor and RPR not on site as of yet. NO work completed

MATERIALS RECEIVED

None

COMMENT

RESULTS:

None

CORRESPONDING DATA SHEETS

BY: *[Signature]*

APPROVED BY: *[Signature]*

CQA INSPECTOR

CERTIFYING ENGINEER

REVIEWED BY:

PROJECT ENGINEER

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 03-28-04 through 04-03-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi _____ Lo: _____ Clear _____ Partly _____ Cloudy _____ Precipitation _____
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____
 (Contractor) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes				
Superintendent			Loader Backhoes				
Engineer			F.E. Loaders				
Foreman			Dozers				
Asst. Foreman			Grader				
Equip. Operators			Dump Trucks				
Masons			Pick-up Trucks				
Pipelayers			Cars				
Laborers			Compactors				
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flagpeople			Well Point Systems				
Surveyors			Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total		*	Total		*		*

*Designates subcontractors

Activity and Location: No work performed by contractor or RPR

Defective work noted today to be corrected later: _____



CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT		Sheet No. : 1 of 1 Report #: 4-10 Date: 03-28-04 through 04-03-04 Weather: low high
WORK AND EQUIPMENT		VISITORS
EQUIPMENT:		None
WORK COMPLETED:		MATERIALS RECEIVED
Contractor and RPR not on site as of yet. NO work completed		None
RESULTS:		COMMENT
		None
		CORRESPONDING DATA SHEETS
BY: 		APPROVED BY: <i>R.E. Dresser</i>
	CQA INSPECTOR	CERTIFYING ENGINEER
REVIEWED BY:		
	PROJECT ENGINEER	

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 04-04-04 through 04-10-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi _____ Lo: _____ Clear _____ Partly _____ Cloudy _____ Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

(Contractor) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes				
Superintendent			Loader Backhoes				
Engineer			F.E. Loaders				
Foreman			Dozers				
Asst. Foreman			Grader				
Equip. Operators			Dump Trucks				
Masons			Pick-up Trucks				
Pipelayers			Cars				
Laborers			Compactors				
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flagpeople			Well Point Systems				
Surveyors			Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total		*	Total		*		*

*Designates subcontractors

^Activity and Location: No work performed by contractor or RPR

Defective work noted today to be corrected later: _____



CAMP DRESSER & McKEE
 (North Wake Subtitle D Landfill Phase I Closure)
DAILY CONSTRUCTION QUALITY ASSURANCE REPORT

Sheet No.: 1 of 1 Report #: 11-17
 Date: 04-04-04 through 04-10-04 low high
 Weather:

WORK AND EQUIPMENT

VISITORS

EQUIPMENT:

None

MATERIALS RECEIVED

WORK COMPLETED:

Contractor and RPR not on site as of yet. NO work completed

RESULTS:

None

COMMENT

CORRESPONDING DATA SHEETS

BY:



APPROVED BY:



CQA INSPECTOR

CERTIFYING ENGINEER

REVIEWED BY:

PROJECT ENGINEER



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 04-11-04 through 04-17-04
Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi _____ Lo: _____ Clear _____ Partly _____ Cloudy _____ Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

(Contractor) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes				
Superintendent			Loader Backhoes				
Engineer			F.E. Loaders				
Foreman			Dozers				
Asst. Foreman			Grader				
Equip. Operators			Dump Trucks				
Masons			Pick-up Trucks				
Pipelayers			Cars				
Laborers			Compactors				
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flagepeople			Well Point Systems				
Surveyors			Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total		*	Total		*		*

*Designates subcontractors

Activity and Location: No work performed by contractor or RPR

Defective work noted today to be corrected later: _____

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

No Work completed, contractor and I not on site as of yet.

Attachments: Yes

No

Signed



Description:

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative



<p>CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>		Sheet No. : 1 of 1 Report #: 18-24 Date: 04-11-04 through 04-17-04 Weather: low high
<p>WORK AND EQUIPMENT</p>		VISITORS
<p><u>EQUIPMENT:</u></p>		None
<p><u>WORK COMPLETED:</u> Contractor and RPR not on site as of yet. NO work completed</p>		MATERIALS RECEIVED
<p><u>RESULTS:</u></p>		None
		COMMENT
		None
		CORRESPONDING DATA SHEETS
<p>BY: </p>		APPROVED BY: 
	<p>CQA INSPECTOR</p>	CERTIFYING ENGINEER
<p>REVIEWED BY:</p>		
	<p>PROJECT ENGINEER</p>	



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 04-18-4 through 04-244
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi _____ Lo: _____ Clear _____ Partly _____ Cloudy _____ Precipitation _____
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____
 (Contractor) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes				
Superintendent			Loader Backhoes				
Engineer			F.E. Loaders				
Foreman			Dozers				
Asst. Foreman			Grader				
Equip. Operators			Dump Trucks				
Masons			Pick-up Trucks				
Pipelayers			Cars				
Laborers			Compactors				
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flagpeople			Well Point Systems				
Surveyors			Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total		*	Total		*		*

*Designates subcontractors

Activity and Location: No work performed by contractor or RPR

Defective work noted today to be corrected later: _____



CAMP DRESSER & McKEE
 (North Wake Subtitle D Landfill Phase I Closure)
DAILY CONSTRUCTION QUALITY ASSURANCE REPORT

Sheet No. : 1 of 1 Report #: 25-31
 Date: 04-18-04 through 04-24-04 low high
 Weather:

WORK AND EQUIPMENT

VISITORS

EQUIPMENT:

None

MATERIALS RECEIVED

WORK COMPLETED:

Contractor and RPR not on site as of yet. NO work completed

None

COMMENT

RESULTS:

None

CORRESPONDING DATA SHEETS

BY:



CQA INSPECTOR

APPROVED BY:



CERTIFYING ENGINEER

REVIEWED BY:

PROJECT ENGINEER

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 04-25-04 to 05-01-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi _____ Lo: _____ Clear _____ Partly _____ Cloudy _____ Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

(Contractor) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

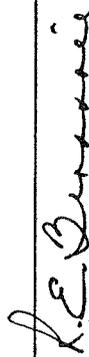
General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes				
Superintendent			Loader Backhoes				
Engineer			F.E. Loaders				
Foreman			Dozers				
Asst. Foreman			Grader				
Equip. Operators			Dump Trucks				
Masons			Pick-up Trucks				
Pipelayers			Cars				
Laborers			Compactors				
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flagpeople			Well Point Systems				
Surveyors			Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total		*	Total		*		*

*Designates subcontractors

Activity and Location: No work performed by contractor or RPR

Defective work noted today to be corrected later: _____



<p>CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase / Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>		Sheet No. : 1 of 1 Report #: 32-38 Date: 04-25-04 through 05-01-04 Weather: low high
<p>WORK AND EQUIPMENT</p>		VISITORS
<p><u>EQUIPMENT:</u></p>		None
<p><u>WORK COMPLETED:</u> Contractor and RPR not on site as of yet. NO work completed</p>		MATERIALS RECEIVED
<p><u>RESULTS:</u></p>		None
		COMMENT
		None
		CORRESPONDING DATA SHEETS
<p>BY: </p>		APPROVED BY: 
<p>CQA INSPECTOR</p>		CERTIFYING ENGINEER
<p>REVIEWED BY:</p>		
<p>PROJECT ENGINEER</p>		



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-02-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi _____ Lo: _____ Clear _____ Partly _____ Cloudy _____ Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

(Contractor) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes				
Superintendent			Loader Backhoes				
Engineer			F.E. Loaders				
Foreman			Dozers				
Asst. Foreman			Grader				
Equip. Operators			Dump Trucks				
Masons			Pick-up Trucks				
Pipelayers			Cars				
Laborers			Compactors				
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flagpeople			Well Point Systems				
Surveyors			Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total		*	Total		*		*

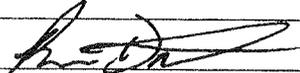
*Designates subcontractors

*Activity and Location: No work performed by contractor or RPR

Defective work noted today to be corrected later: _____

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

No Work completed, contractor and I not on site as of yet.

Attachments: Yes No Signed 

Description: _____

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative



CAMP DRESSER & McKEE
(North Wake Subtitle D Landfill Phase I Closure)
DAILY CONSTRUCTION QUALITY ASSURANCE REPORT

Sheet No.: 1 of 1 Report #: 39
Date: 05-02-04
Weather: low high

WORK AND EQUIPMENT

VISITORS

EQUIPMENT:

None

WORK COMPLETED:

Contractor and RPR not on site as of yet. NO work completed

MATERIALS RECEIVED

None

COMMENT

RESULTS:

None

CORRESPONDING DATA SHEETS

BY:

CQA INSPECTOR

APPROVED BY:

CERTIFYING ENGINEER

REVIEWED BY:

PROJECT ENGINEER

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-03-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 65 Lo: 36 _____ Clear x Partly _____ Cloudy .20 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 8 Reg. _____ OT Shift: _____ to _____

(Contractor) Hours Worked: 8 Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent			Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	1		Dump Trucks	cat			
Masons			Pick-up Trucks				
Pipelayers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flagpeople			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	7	*	Total		*		*

*Designates subcontractors

Activity and Location: Survey of stripping, mobilizing

Defective work noted today to be corrected later: _____



CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase / Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT		Sheet No. : 1 of 1 Date: 05-03-04 Weather:	Report #: 40 low high
WORK AND EQUIPMENT		VISITORS	
EQUIPMENT:		None	
MATERIALS RECEIVED		None	
WORK COMPLETED: Contractor surveying and Mobilizing.		COMMENT	
RESULTS:		None	
CORRESPONDING DATA SHEETS			
BY: 	APPROVED BY: 		
CQA INSPECTOR	CERTIFYING ENGINEER		
REVIEWED BY:	PROJECT ENGINEER		

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-04-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 65 Lo: 38 _____ Clear Partly _____ Cloudy .20 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 9 Reg. _____ OT Shift: _____ to _____

(Contractor) Hours Worked: 8 Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat			
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Survey of stripping, mobilizing, stripping

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 1: Stripping of Vegetation and Unsuitable Soils.

Surveyors on site setting limits of stripping. Contractor on site stripping vegetation from the Phase one area starting at the Southern most portions and working north.

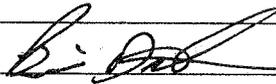
Item No. 3: Intermediate Cover Material.

Surveyor on site verifying depth of Intermediate cover.

Item No. 17: Bonds, Mobilization and Insurance.

Contractor on site mobilizing equipment to staging area near borrow area and on top of slope.

Attachments: Yes No

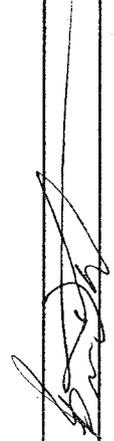
Signed 

Description:

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative



<p align="center"> CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p>	<p> Sheet No. : 1 of 1 Report #: 41 Date: 05-04-04 Weather: PC .2 Rain low 60 high 70 </p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p>EQUIPMENT: CAT D6M,CAT D4C</p>	<p>None</p>
<p>WORK COMPLETED:</p>	<p align="center">MATERIALS RECEIVED</p>
<p>Contractor stripping vegetation from South side of Phase one working North. Surveyor checking depth to trash.</p>	<p>None</p>
<p>RESULTS:</p>	<p align="center">COMMENT</p>
<p></p>	<p align="center">CORRESPONDING DATA SHEETS</p>
<p>BY: </p>	<p align="center">APPROVED BY: </p>
<p>REVIEWED BY:</p>	<p align="center">CERTIFYING ENGINEER</p>
<p></p>	<p align="center">PROJECT ENGINEER</p>

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-05-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 75 Lo: 60 _____ Clear Partly _____ Cloudy 0 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 10 Reg. _____ OT Shift: _____ to _____

(Contractor) Hours Worked: 8 Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Survey of stripping, mobilizing, stripping

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 1: Stripping of Vegetation and Unsuitable Soils.

Surveyors on site setting limits of stripping. Contractor on site continuing stripping vegetation from the Phase one area starting at the Southern most portions and working north.

Item No. 2: Undercut, Transport and Stockpile Leachate Saturated Soils, Item No. 12: Excavate Waste and Dispose of within Subtitle D Landfill

Contractor commenced repair of Leachate weeps located on South slope in stripping area.

Item No. 3: Intermediate Cover Material.

Surveyor on site verifying depth of Intermediate cover. 100 foot grids

Item No. 17: Bonds, Mobilization and Insurance.

Contractor on site mobilizing equipment to staging area near borrow area and on top of slope. Bring office supplies.

Attachments: Yes No

Signed 

Description:

(Pipe Test Reports, Concrete Placement Reports, etc.)

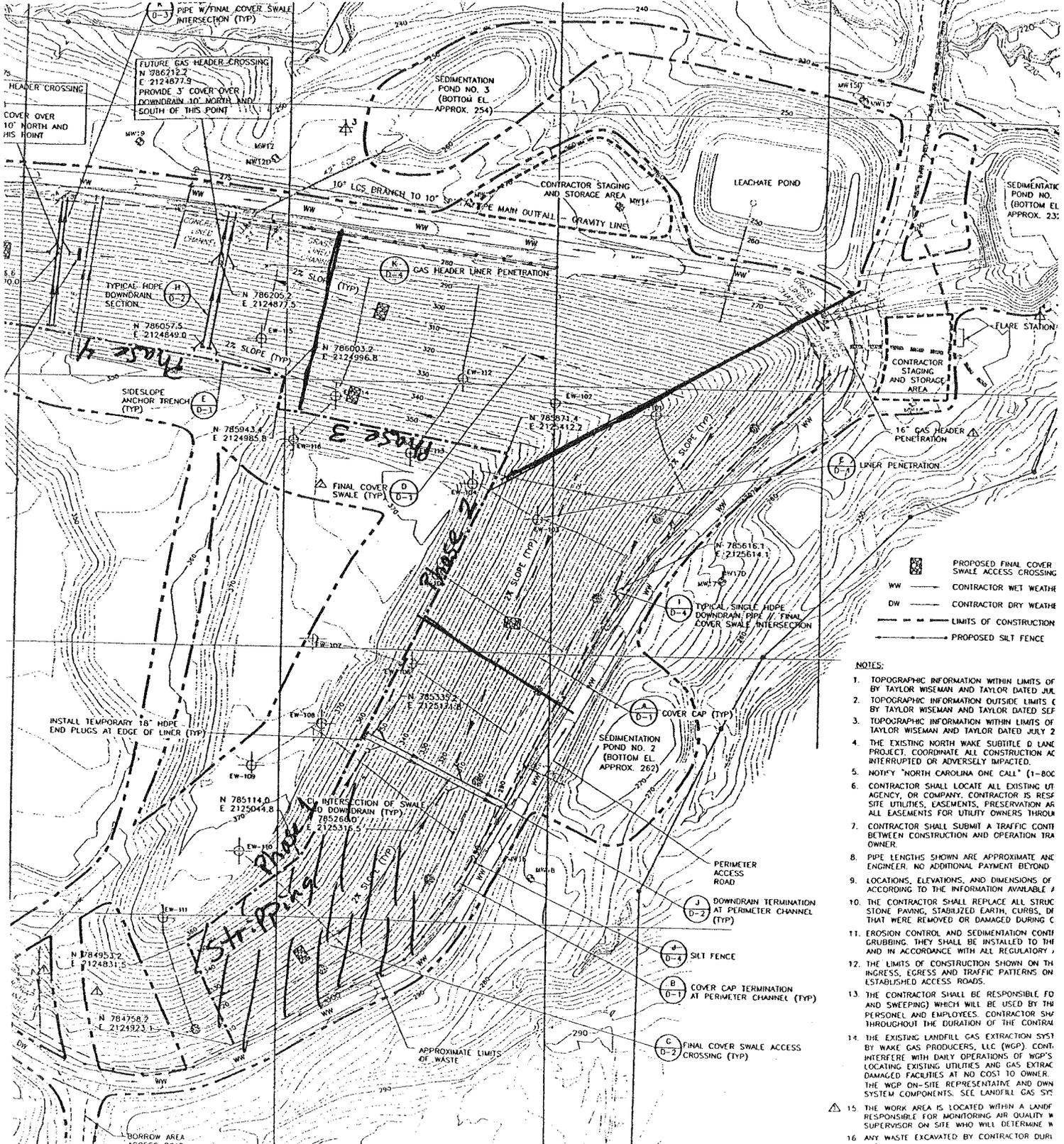
This report to be completed daily by each Project Representative



<p>Sheet No. : 1 of 3 Report #: 42 Date: 05-05-04 Weather: PC .2 Rain low 60 high 70</p>	<p>CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>
<p>VISITORS</p>	<p>WORK AND EQUIPMENT</p>
<p>None</p>	<p>EQUIPMENT: CAT D6M,CAT D4C</p>
<p>MATERIALS RECEIVED</p>	<p>WORK COMPLETED: <u>Item No. 1: Stripping of Vegetation and Unsuitable Soils.</u> Contractor stripping vegetation from South side of Phase one working North. Surveyor checking depth to trash. <u>Item No. 2: Undercut, Transport and Stockpile Leachate Saturated Soils, Item No. 12: Excavate Waste and Dispose of within Subtitle D Landfill</u> Contractor commenced repair of Leachate weeps located on South slope in stripping area.</p>
<p>COMMENT</p>	<p>Item No. 3: Intermediate Cover Material. Surveyor on site verifying depth of Intermediate cover. 100 foot grids</p>
<p>CORRESPONDING DATA SHEETS</p>	<p>RESULTS:</p>
<p>4 loads of Geo-composite</p>	<p>BY: </p>
<p>APPROVED BY: </p>	<p>CQA INSPECTOR</p>
<p>CERTIFYING ENGINEER</p>	<p>PROJECT ENGINEER</p>
<p>REVIEWED BY:</p>	<p>PROJECT ENGINEER</p>

RPT# 42
5-5-4

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- WW CONTRACTOR WET WEATH
- DW CONTRACTOR DRY WEATH
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

- NOTES:
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JUL
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS (BY TAYLOR WISEMAN AND TAYLOR DATED SEP
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY 2
 4. THE EXISTING NORTH WAKE SUBTITLE D LANE PROJECT. COORDINATE ALL CONSTRUCTION AC INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY AGENCY, OR COMPANY. CONTRACTOR IS RESP SITE UTILITIES, EASEMENTS, PRESERVATION AN ALL EASEMENTS FOR UTILITY OWNERS THROU
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTI BETWEEN CONSTRUCTION AND OPERATION TRA OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE ANE ENGINEER. NO ADDITIONAL PAYMENT BEYOND
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ACCORDING TO THE INFORMATION AVAILABE
 10. THE CONTRACTOR SHALL REPLACE ALL STRUC STONE PAVING, STABILIZED EARTH, CURBS, DE THAT WERE REMOVED OR DAMAGED DURING C
 11. EROSION CONTROL AND SEDIMENTATION CONTI GRUBBING. THEY SHALL BE INSTALLED TO TH AND IN ACCORDANCE WITH ALL REGULATORY
 12. THE LIMITS OF CONSTRUCTION SHOWN ON TH INGRESS, EGRESS AND TRAFFIC PATTERNS ON ESTABLISHED ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FO AND SWEEPING) WHICH WILL BE USED BY TH PERSONEL AND EMPLOYEES. CONTRACTOR SHV THROUGHOUT THE DURATION OF THE CONTRA
 14. THE EXISTING LANDFILL GAS EXTRACTION SYST BY WAKE GAS PRODUCERS, LLC (WGP). CONTI INTERFERE WITH DAILY OPERATIONS OF WGP'S LOCATING EXISTING UTILITIES AND GAS EXTRAC DAMAGED FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND OWN SYSTEM COMPONENTS. SEE LANDFILL GAS SYE
 15. THE WORK AREA IS LOCATED WITHIN A LANDF RESPONSIBLE FOR MONITORING AIR QUALITY A SUPERVISOR ON SITE WHO WILL DETERMINE A
 16. ANY WASTE EXCAVATED BY CONTRACTOR DURI

NORTH WAKE LANDFILL Phase I LEACHATE WEEP REPAIR

Repair no.	Size			Cu Yds	Date
1	22	12	3	29.3	5/5/2004
2	16	8	2.5	11.9	5/5/2004
3	9	9	1.5	4.5	5/5/2004
4	12	8	2	7.1	5/5/2004
5	10	13	2.2	10.6	5/5/2004
6	11	17	2.5	17.3	5/5/2004
			80.7	Total	

RPT # 42
S-5-4

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-06-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 83 Lo: 50 _____ Clear x Partly _____ Cloudy .0 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 10 Reg. _____ OT Shift: _____ to _____

(Contractor) Hours Worked: 8 Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and		Subcontractor's Work Force		
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Survey of stripping, mobilizing, stripping

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 1: Stripping of Vegetation and Unsuitable Soils.

Surveyors on site setting limits of stripping. Contractor on site continuing stripping vegetation from the Phase one area starting at the Southern most portions and working north.

Item No. 2: Undercut, Transport and Stockpile Leachate Saturated Soils, Item No. 12: Excavate Waste and Dispose of within Subtitle D Landfill

Contractor commenced repair of Leachate weeps located on South slope in stripping area.

Item No. 3: Intermediate Cover Material.

Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement.

Attachments: Yes No Signed 

Description: _____

(Pipe Test Reports, Concrete Placement Reports, etc.)

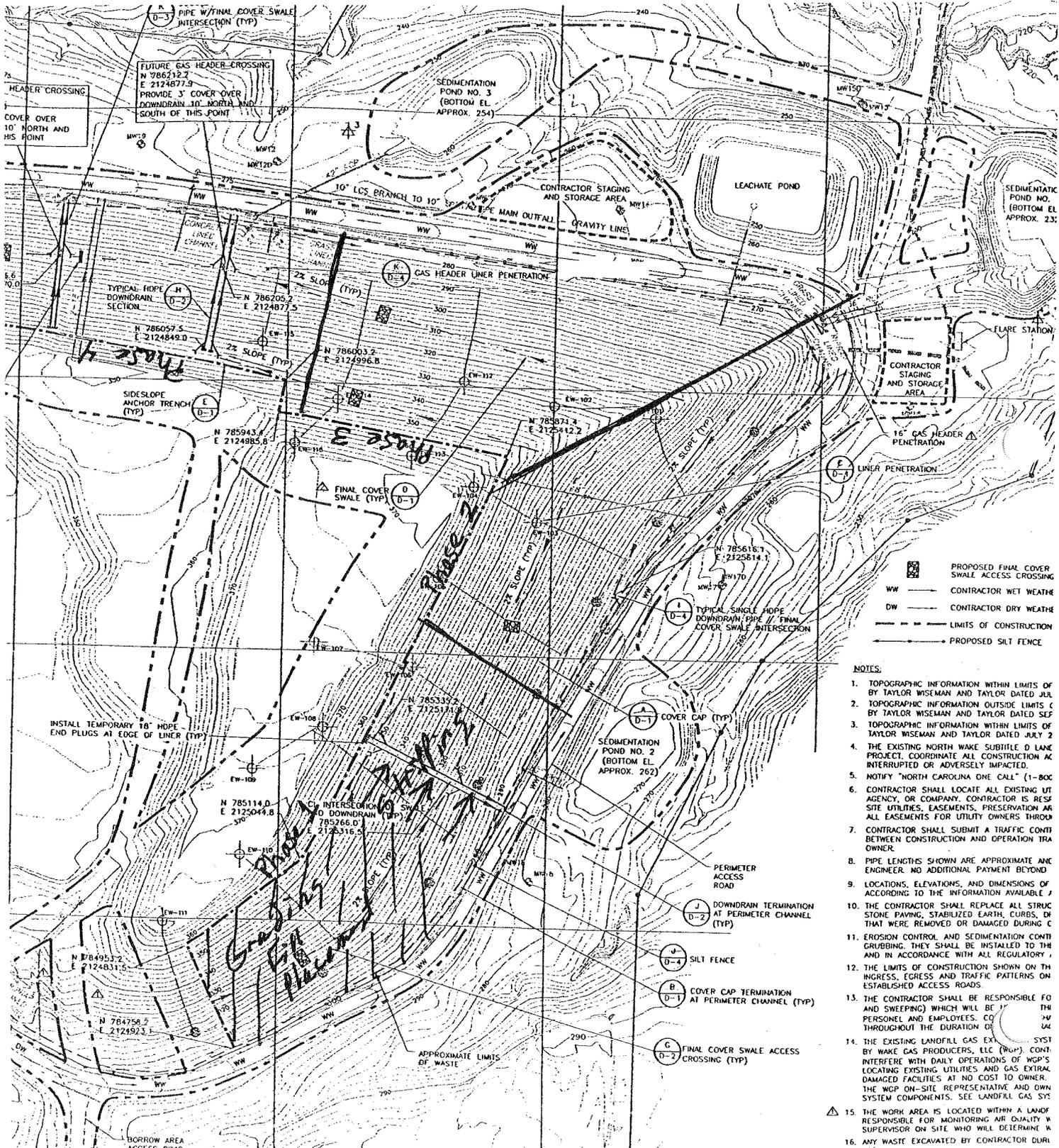
This report to be completed daily by each Project Representative



<p>Sheet No. : 1 of 3 Report #: 43 Date: 05-06-04 Weather: PC low 50 high 83</p>	<p>CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>
<p>VISITORS</p>	<p>WORK AND EQUIPMENT</p>
<p>None</p>	<p><u>EQUIPMENT:</u> CAT D6M,CAT D4C</p>
<p>MATERIALS RECEIVED</p>	<p>WORK COMPLETED:</p>
<p>None</p>	<p>Item No. 1: Stripping of Vegetation and Unsuitable Soils. Contractor stripping vegetation from South side of Phase one working North. Surveyor checking depth to trash.</p>
<p>COMMENT</p>	<p>Item No. 2: Undercut, Transport and Stockpile Leachate Saturated Soils, Item No. 12: Excavate Waste and Dispose of within Subtitle D Landfill Contractor continued repair of Leachate weeps located on South slope in stripping area.</p>
<p>None</p>	<p>Item No. 3: Intermediate Cover Material. Surveyor on site verifying depth of Intermediate cover. 100 foot grids</p>
<p>CORRESPONDING DATA SHEETS</p>	<p><u>RESULTS:</u></p>
<p>APPROVED BY: <i>R.E. Sullivan</i></p>	<p>BY: <i>[Signature]</i></p>
<p>CERTIFYING ENGINEER</p>	<p>CQA INSPECTOR</p>
<p>PROJECT ENGINEER</p>	<p>REVIEWED BY:</p>

RPT # 43
5-6-4

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- WW CONTRACTOR WET WEATHER
- DW CONTRACTOR DRY WEATHER
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

- NOTES:
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JUL
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS C BY TAYLOR WISEMAN AND TAYLOR DATED SEP
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY 2
 4. THE EXISTING NORTH WAKE SUBTITLE D LANE PROJECT COORDINATE ALL CONSTRUCTION AS INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY AGENCY, OR COMPANY. CONTRACTOR IS RES SITE UTILITIES, EASEMENTS, PRESERVATION AS ALL EASEMENTS FOR UTILITY OWNERS THROU
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONT BETWEEN CONSTRUCTION AND OPERATION TRA OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AND ENGINEER. NO ADDITIONAL PAYMENT BEYOND
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ACCORDING TO THE INFORMATION AVAILABLE I
 10. THE CONTRACTOR SHALL REPLACE ALL STRUCT STONE PAVING, STABILIZED EARTH, CURBING, O THAT WERE REMOVED OR DAMAGED DURING C
 11. EROSION CONTROL AND SEDIMENTATION CONT GRUBBING, THEY SHALL BE INSTALLED TO TH AND IN ACCORDANCE WITH ALL REGULATORY I
 12. THE LIMITS OF CONSTRUCTION SHOWN ON TH INGRESS, EGRESS AND TRAFFIC PATTERNS ON ESTABLISHED ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FO AND SWEEPING) WHICH WILL BE TH PERSONNEL AND EMPLOYEES. CO TH THROUGHOUT THE DURATION OF
 14. THE EXISTING LANDFILL GAS EXT SYSTEM BY WAKE GAS PRODUCERS, LLC (WGP) CONT INTERFERE WITH DAILY OPERATIONS OF WGP'S LOCATING EXISTING UTILITIES AND GAS EXTRA DAMAGED FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND OWN SYSTEM COMPONENTS. SEE LANDFILL GAS STE
 15. THE WORK AREA IS LOCATED WITHIN A LANDF RESPONSIBLE FOR MONITORING AIR QUALITY I SUPERVISOR ON-SITE WHO WILL DETERMINE I
 16. ANY WASTE EXCAVATED BY CONTRACTOR DUR

NORTH WAKE LANDFILL Phase I LEACHATE WEEP REPAIR

Repair no.	Size			Cu Yds	Date
1	22	12	3	29.3	5/5/2004
2	16	8	2.5	11.9	5/5/2004
3	9	9	1.5	4.5	5/5/2004
4	12	8	2	7.1	5/5/2004
5	10	13	2.2	10.6	5/5/2004
6	11	17	2.5	17.3	5/5/2004
			80.7	Total	
7	5	6	2	2.2	5/6/2004
8	7	9	1.5	3.5	5/6/2004
9	11	5	1.5	3.1	5/6/2004
10	11	5	1.5	3.1	5/6/2004
11	7	15	1.5	5.8	5/6/2004
12	7	7	1.5	2.7	5/6/2004
13	12	15	1.5	10.0	5/6/2004
14	10	6	1.5	3.3	5/6/2004
15	18	8	1.5	8.0	5/6/2004
16	19	6.5	1	4.6	5/6/2004
			46.3	Total	127.0 Total to Date

Rpt # 43
5-6-4

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-07-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 88 Lo: 57 Clear x Partly _____ Cloudy 0 Precipitation _____
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 10 Reg. _____ OT Shift: _____ to _____
 (Contractor) Hours Worked: 8 Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Survey of stripping, stripping, Intermediate cover

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 1: Stripping of Vegetation and Unsuitable Soils.

Surveyors on site setting limits of stripping. Contractor on site continuing stripping vegetation from the Phase one area starting at the Southern most portions and working north.

Item No. 2: Undercut, Transport and Stockpile Leachate Saturated Soils, Item No. 12: Excavate Waste and Dispose of within Subtitle D Landfill

Contractor commenced repair of Leachate weeps located on South slope in stripping area.

Item No. 3: Intermediate Cover Material.

Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement.

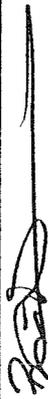
Attachments: Yes No

Signed 

Description:

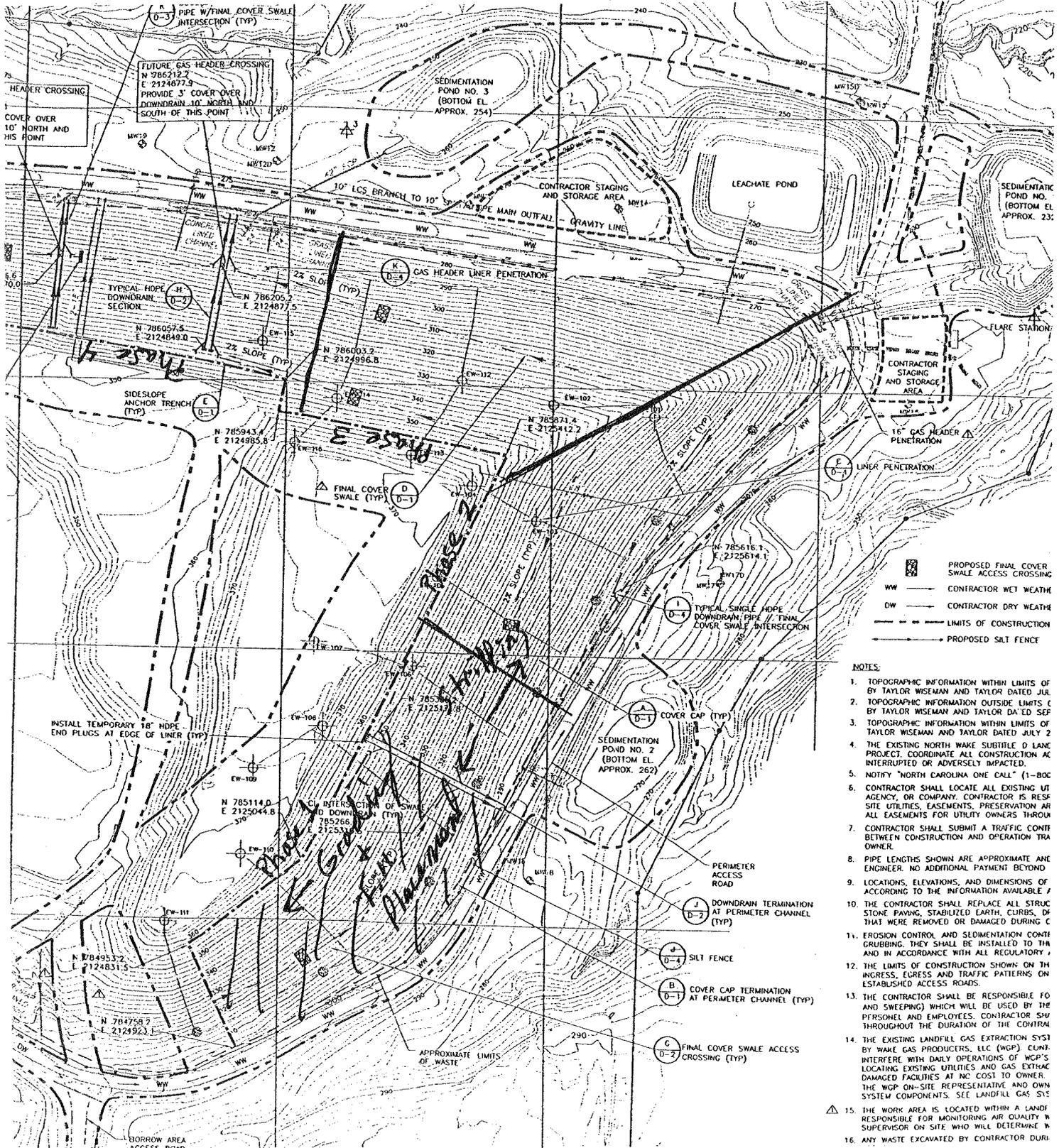
(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

<p style="text-align: center;">CAMP DRESSER & MCKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i></p> <p style="text-align: center;">DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p> <hr/> <p style="text-align: center;">WORK AND EQUIPMENT</p> <hr/> <p>EQUIPMENT: CAT D6M, CAT D4C, Volvo end dumps</p> <hr/> <p>WORK COMPLETED: <u>Item No. 1: Stripping of Vegetation and Unsuitable Soils.</u> Contractor stripping vegetation from South side of Phase one working North. Surveyor checking depth to trash. <u>Item No. 2: Undercut, Transport and Stockpile Leachate Saturated Soils, Item No. 12: Excavate Waste and Dispose of within Subtitle D Landfill</u> Contractor continued repair of Leachate weeps located on South slope in stripping area. <u>Item No. 3: Intermediate Cover Material.</u> Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement. No density testing to date.</p> <p>RESULTS:</p>	<p>Sheet No. : 1 of 3 Report #: 44 Date: 05-07-04 low 57 high 88 Weather: PC</p> <hr/> <p style="text-align: center;">VISITORS</p> <hr/> <p style="text-align: center;">None</p> <hr/> <p style="text-align: center;">MATERIALS RECEIVED</p> <hr/> <p style="text-align: center;">1 Load of Geo-composite</p> <hr/> <p style="text-align: center;">COMMENT</p> <hr/> <p style="text-align: center;">None</p> <hr/> <p style="text-align: center;">CORRESPONDING DATA SHEETS</p>
<p style="text-align: center;">BY: </p>	<p style="text-align: center;">APPROVED BY: </p>
<p style="text-align: center;">REVIEWED BY:</p>	<p style="text-align: center;">CERTIFYING ENGINEER</p>
<p style="text-align: center;">PROJECT ENGINEER</p>	

RPT. # 44
5-7-4

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- WW CONTRACTOR WET WEATHER
- DW CONTRACTOR DRY WEATHER
- LIMITS OF CONSTRUCTION
- PROPOSED SALT FENCE

NOTES:

1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF JUL BY TAYLOR WISEMAN AND TAYLOR DATED JUL
2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS (BY TAYLOR WISEMAN AND TAYLOR DATED SEP
3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY 2
4. THE EXISTING NORTH WAKE SUBTITLE D LANE PROJECT COORDINATE ALL CONSTRUCTION AS INTERRUPTED OR ADVERSELY IMPACTED.
5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800
6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY AGENCY, OR COMPANY. CONTRACTOR IS RESPONSIBLE FOR ALL EASEMENTS FOR UTILITY OWNERS THROUGHOUT THE DURATION OF THE CONTRACT.
7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN BETWEEN CONSTRUCTION AND OPERATION TO THE OWNER.
8. PIPE LENGTHS SHOWN ARE APPROXIMATE AND ENGINEER. NO ADDITIONAL PAYMENT BEYOND
9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF CONSTRUCTION TO BE ACCORDING TO THE INFORMATION AVAILABLE /
10. THE CONTRACTOR SHALL REPLACE ALL STRUCTURE PAVING, STABILIZED EARTH, CURBS, OR THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
11. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO THE AND IN ACCORDANCE WITH ALL REGULATORY /
12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING, EGRESS AND TRAFFIC PATTERNS ON ESTABLISHED ACCESS ROADS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SWEEPING) WHICH WILL BE USED BY THE PERSONNEL AND EMPLOYEES. CONTRACTOR SHALL THROUGHOUT THE DURATION OF THE CONTRACT.
14. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM BY WAKE GAS PRODUCTS, LLC (WGP) COULD INTERFERE WITH DAILY OPERATIONS OF WGP'S LOCATING EXISTING UTILITIES AND GAS EXTRACTION DAMAGED FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND OWN SYSTEM COMPONENTS. SEE LANDFILL GAS SYSTEM
15. THE WORK AREA IS LOCATED WITHIN A LANDFILL SUPERVISOR ON SITE WHO WILL DETERMINE
16. ANY WASTE EXCAVATED BY CONTRACTOR DURING

NORTH WAKE LANDFILL Phase I LEACHATE WEEP REPAIR

Repair no.	Size			Cu Yds	Date
1	22	12	3	29.3	5/5/2004
2	16	8	2.5	11.9	5/5/2004
3	9	9	1.5	4.5	5/5/2004
4	12	8	2	7.1	5/5/2004
5	10	13	2.2	10.6	5/5/2004
6	11	17	2.5	17.3	5/5/2004
				80.7	Total
7	5	6	2	2.2	5/6/2004
8	7	9	1.5	3.5	5/6/2004
9	11	5	1.5	3.1	5/6/2004
10	11	5	1.5	3.1	5/6/2004
11	7	15	1.5	5.8	5/6/2004
12	7	7	1.5	2.7	5/6/2004
13	12	15	1.5	10.0	5/6/2004
14	10	6	1.5	3.3	5/6/2004
15	18	8	1.5	8.0	5/6/2004
16	19	6.5	1	4.6	5/6/2004
				46.3	Total
18	7	12	2	6.2	5/7/2004
19	8	19	1.5	8.4	5/7/2004
20	10	6	1.5	3.3	5/7/2004
21	5	12	1	2.2	5/7/2004
22	13	5	1.5	3.6	5/7/2004
23	13	6	1.5	4.3	5/7/2004
24	10	11	2	8.1	5/7/2004
25	10	5	3	5.6	5/7/2004
26	7	10	2	5.2	5/7/2004
27	11	5	2	4.1	5/7/2004
28	9	5	2.5	4.2	5/7/2004
				55.3	Total

Total to date **182.3 Cu Yds**

RPT # 44
5-7-4

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-08-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi _____ Lo: _____ Clear _____ Partly _____ Cloudy _____ Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

(Contractor) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes				
Superintendent			Loader Backhoes				
Engineer			F.E. Loaders				
Foreman			Dozers				
Asst. Foreman			Grader				
Equip. Operators			Dump Trucks				
Masons			Pick-up Trucks				
Pipelayers			Cars				
Laborers			Compactors				
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flagpeople			Well Point Systems				
Surveyors			Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total		*	Total		*		*

*Designates subcontractors

Activity and Location: No work performed by contractor or RPR

Defective work noted today to be corrected later: _____



CAMP DRESSER & McKEE
 (North Wake Subtitle D Landfill Phase I Closure)
DAILY CONSTRUCTION QUALITY ASSURANCE REPORT

Sheet No.: 1 of 1 Report #: 45
 Date: 05-08-04 low
 Weather: high

WORK AND EQUIPMENT

VISITORS

EQUIPMENT:

None

MATERIALS RECEIVED

WORK COMPLETED:

Not a scheduled work day.

None

COMMENT

RESULTS:

None

CORRESPONDING DATA SHEETS

BY:



CQA INSPECTOR

APPROVED BY:



CERTIFYING ENGINEER

REVIEWED BY:

PROJECT ENGINEER

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-09-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi _____ Lo: _____ Clear _____ Partly _____ Cloudy _____ Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

(Contractor) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes				
Superintendent			Loader Backhoes				
Engineer			F.E. Loaders				
Foreman			Dozers				
Asst. Foreman			Grader				
Equip. Operators			Dump Trucks				
Masons			Pick-up Trucks				
Pipelayers			Cars				
Laborers			Compactors				
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flagpeople			Well Point Systems				
Surveyors			Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total		*	Total		*		*

*Designates subcontractors

Activity and Location: No work performed by contractor or RPR

Defective work noted today to be corrected later: _____



<p align="center"> CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p>	<p> Sheet No.: 1 Report #: 46 Date: 05-09-04 63 low 85 high Weather: PC </p>
<p>WORK AND EQUIPMENT</p>	<p>VISITORS</p>
<p><u>EQUIPMENT:</u></p>	<p>None</p>
<p><u>WORK COMPLETED:</u></p>	<p>MATERIALS RECEIVED</p>
<p>Not a scheduled work day.</p>	<p>None</p>
<p><u>RESULTS:</u></p>	<p>COMMENT</p>
<p>None</p>	<p>CORRESPONDING DATA SHEETS</p>
<p>BY: </p>	<p>APPROVED BY: </p>
<p>CQA INSPECTOR</p>	<p>CERTIFYING ENGINEER</p>
<p>REVIEWED BY:</p>	<p>PROJECT ENGINEER</p>

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-10-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 84 Lo: 60 _____ Clear x Partly _____ Cloudy .0 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 10 Reg. _____ OT Shift: _____ to _____

(Contractor) Hours Worked: 8 Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Survey of stripping, stripping, intermediate cover

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 1: Stripping of Vegetation and Unsuitable Soils.

Surveyors on site setting limits of stripping. Contractor on site continuing stripping vegetation from the Phase one area starting at the Southern most portions and working north.

Item No. 3: Intermediate Cover Material.

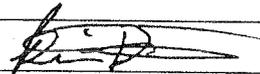
Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement.

Item No. 5: LLDPE Installation

Subcontractor Hallaton INC. Arrived on site and began to mobilize equipment to staging area at top of slope, South end.

Attachments: Yes No

Signed

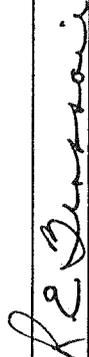


Description:

(Pipe Test Reports, Concrete Placement Reports, etc.)

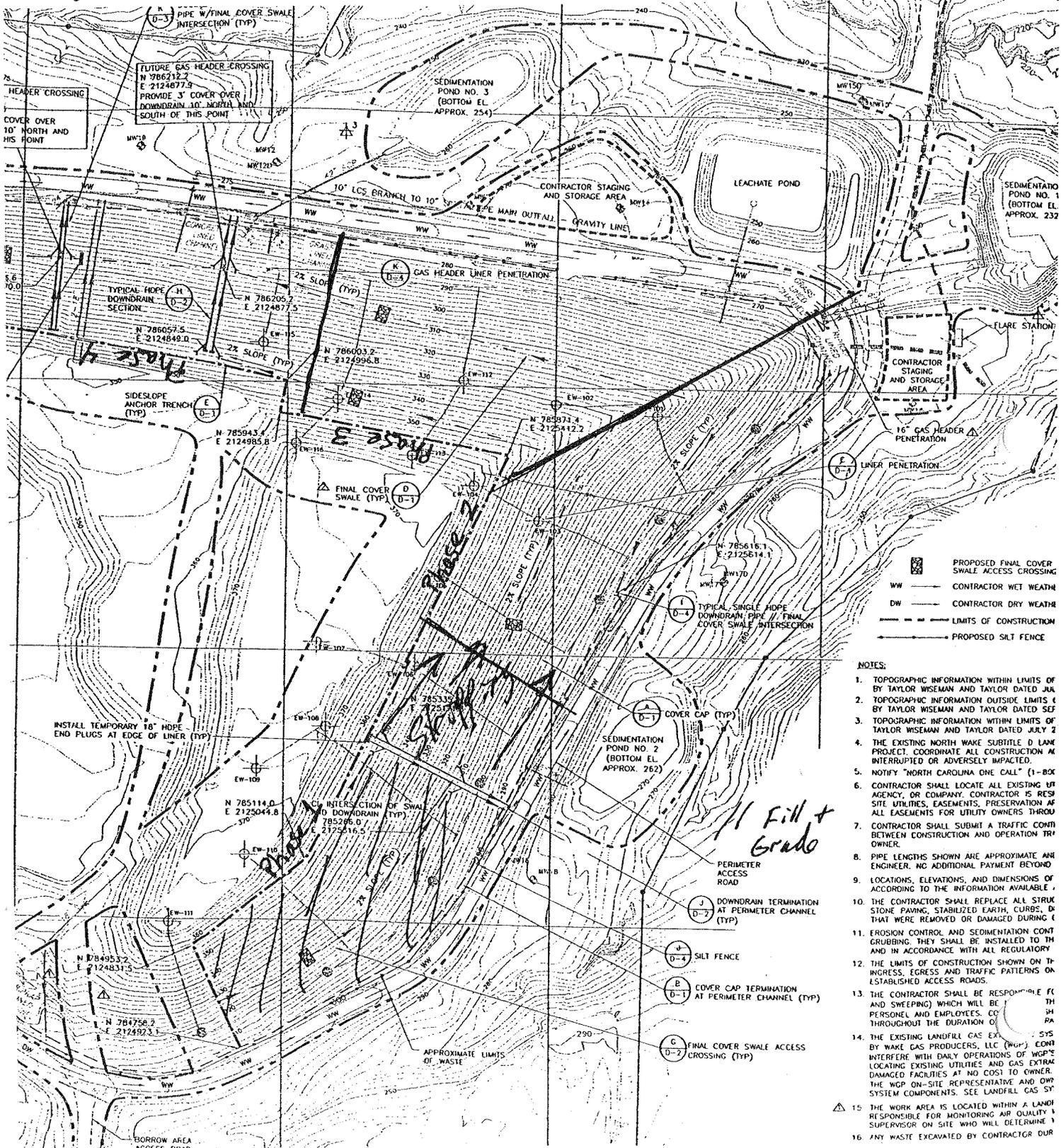
This report to be completed daily by each Project Representative



<p>CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>	<p>Sheet No.: 1 of 2 Report #: 47 Date: 05-10-04 low 84 high 60 Weather: PC</p>
<p>WORK AND EQUIPMENT</p>	<p>VISITORS</p>
<p>EQUIPMENT: D7, Volvo End dump, 563 smooth drum roller</p>	<p>None</p>
<p>WORK COMPLETED: Contractor working sub-grade and placing fill in low areas, no density testing performed today, contractor not ready.</p>	<p>MATERIALS RECEIVED</p>
<p>RESULTS:</p>	<p>None</p>
	<p>COMMENT</p>
	<p>None</p>
	<p>CORRESPONDING DATA SHEETS</p>
<p>BY: </p>	<p>APPROVED BY: </p>
<p>CQA INSPECTOR</p>	<p>CERTIFYING ENGINEER</p>
<p>REVIEWED BY:</p>	
<p>PROJECT ENGINEER</p>	

RPT # 47
05-10-04

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- CONTRACTOR WET WEATHER
- CONTRACTOR DRY WEATHER
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

- NOTES:
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JAA
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS (BY TAYLOR WISEMAN AND TAYLOR DATED SCF
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY 2
 4. THE EXISTING NORTH WAKE SUBTITLE D LANE PROJECT. COORDINATE ALL CONSTRUCTION AT INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY AGENCY, OR COMPANY. CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING UTILITIES AND GAS EXTRA FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND O&M SYSTEM COMPONENTS. SEE LANDFILL GAS ST
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN BETWEEN CONSTRUCTION AND OPERATION TO THE OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AND ENGINEER. NO ADDITIONAL PAYMENT BEYOND
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ACCORDING TO THE INFORMATION AVAILABLE.
 10. THE CONTRACTOR SHALL REPLACE ALL STRIP STONE PAVING, STABILIZED EARTH, CURBS, OR THAT WERE REMOVED OR DAMAGED DURING
 11. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO THE AND IN ACCORDANCE WITH ALL REGULATORY
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES AND GAS EXTRA FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND O&M SYSTEM COMPONENTS. SEE LANDFILL GAS ST
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES AND GAS EXTRA FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND O&M SYSTEM COMPONENTS. SEE LANDFILL GAS ST
 14. THE EXISTING LANDFILL GAS EXTRA FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND O&M SYSTEM COMPONENTS. SEE LANDFILL GAS ST
 15. THE WORK AREA IS LOCATED WITHIN A LANDFILL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AIR QUALITY AND TRAFFIC PATTERNS ON ESTABLISHED ACCESS ROADS.
 16. ANY WASTE EXCAVATED BY CONTRACTOR OR

Fill & Grado

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-11-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 85 Lo: 62 _____ Clear x Partly _____ Cloudy .0 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 10 Reg. _____ OT Shift: _____ to _____

(Contractor) Hours Worked: 8 Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Survey of stripping, stripping, intermediate cover

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 1: Stripping of Vegetation and Unsuitable Soils.

Surveyors on site setting limits of stripping. Contractor on site continuing stripping vegetation from the Phase one area starting at the Southern most portions and working north.

Item No. 3: Intermediate Cover Material.

Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement.

Item No. 5: LLDPE Installation

Subcontractor Hallaton INC. on site to place liner, but sub grade and anchor trench not ready. Crew went home early.

Attachments: Yes No

Signed 

Description: _____

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative



CAMP DRESSER & McKEE
 (North Wake Subtitle D Landfill Phase I Closure)
 DAILY CONSTRUCTION QUALITY ASSURANCE REPORT

Sheet No.: 1 of 2 Report #: 48
 Date: 05-11-04 low 85 high 62
 Weather: PC

WORK AND EQUIPMENT

EQUIPMENT: D7, Volvo End dump, 563 smooth drum roller

WORK COMPLETED:

Contractor working sub-grade and placing fill in low areas, no density testing performed today, contractor not ready.

RESULTS:

VISITORS

None

MATERIALS RECEIVED

None

COMMENT

None

CORRESPONDING DATA SHEETS

BY:

CQA INSPECTOR

REVIEWED BY:

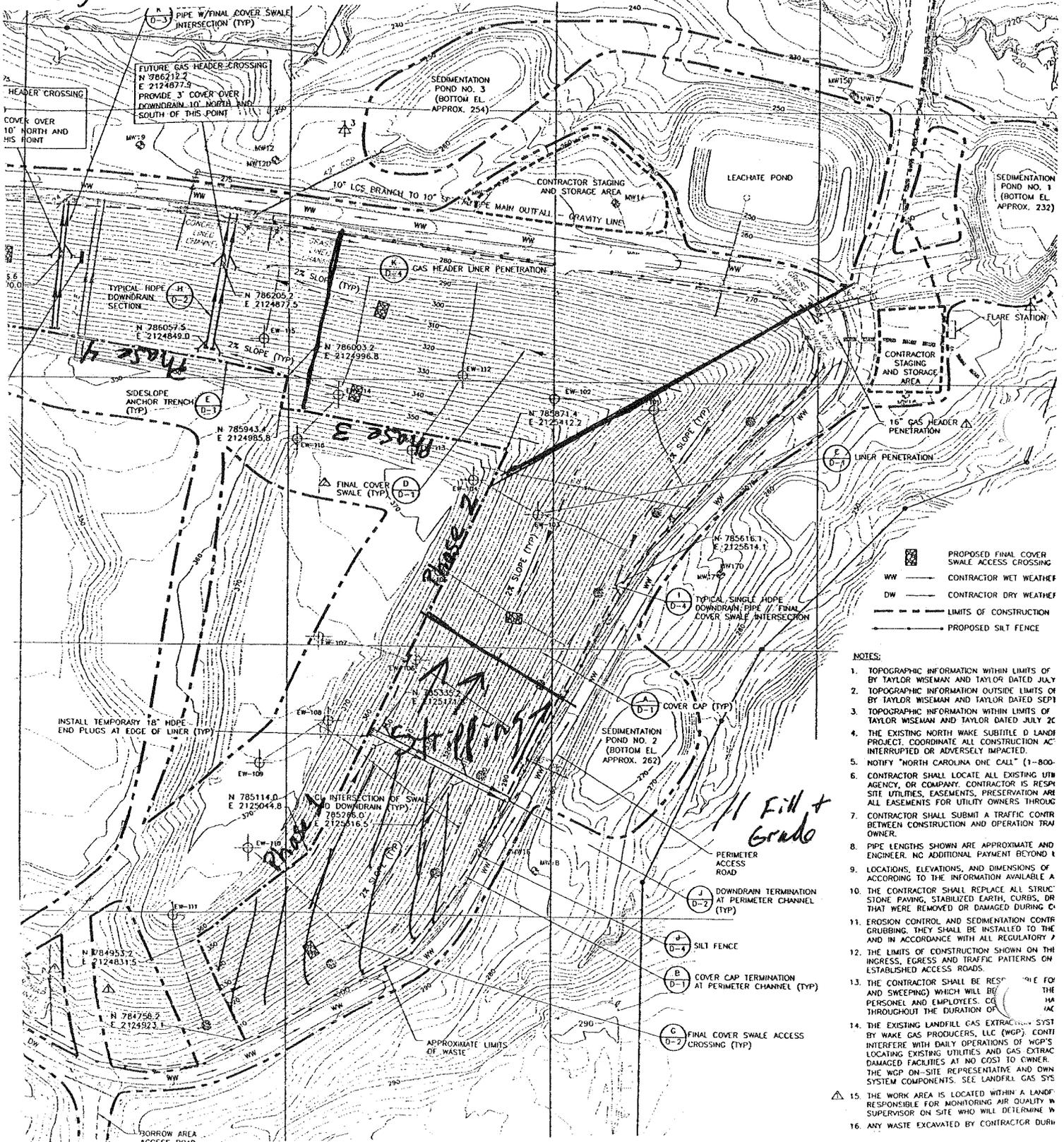
PROJECT ENGINEER

APPROVED BY:

CERTIFYING ENGINEER

RPT # 48
05-11-04

Site Sketch



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-12-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 84 Lo: 64 _____ Clear x Partly _____ Cloudy .67 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 10 Reg. _____ OT Shift: _____ to _____

(Contractor) Hours Worked: 10 Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Survey of stripping, stripping, intermediate cover

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 1: Stripping of Vegetation and Unsuitable Soils.

Surveyors on site setting limits of stripping. Contractor on site continuing stripping vegetation from the Phase one area starting at the Southern most portions and working north.

Item No. 3: Intermediate Cover Material.

Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement. Conducted test pad in Southern most section of Section one. Results as follows: Four passes with a 563 smooth drum roller achieves a 95% compaction of proctor 108.2 @ 16% Moisture.

Item No. 5: LLDPE Installation

Subcontractor Hallaton INC. on site to place liner, but sub grade and anchor trench not ready. Crew went home early.

Attachments: Yes No

Signed *Brian Dalt*

Description: _____
(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative



Sheet No.: 1 of 7 Date: 05-12-04 Weather: PC .67rain	Report #: 49 low 64 high 84
VISITORS	
None	
MATERIALS RECEIVED	
Two trucks of Liner and two trucks of Composite	
COMMENT	
None	
CORRESPONDING DATA SHEETS	
Density testing Density plots	
<p style="text-align: center;"> CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p> <p style="text-align: center;"> WORK AND EQUIPMENT </p> <p> <u>EQUIPMENT:</u> CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller </p> <p> WORK COMPLETED: Item No. 1: Stripping of Vegetation and Unsuitable Soils. Contractor stripping vegetation from South side of Phase one working North. Surveyor checking depth to trash. </p> <p> Item No. 3: Intermediate Cover Material. Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement. Contractor commenced placement of test pad today. Results indicated that four passes with a 563 smooth drum roller will achieve 95% compaction of proctor 108.2 @ 16% moisture. All testing meets specification requirements. Moisture correction were needed due to the material being used having large quantities of Mica. See Attached results </p> <p> RESULTS: All results, after establishing four passes with a 563 smooth drum roller will reach 95% compaction, were and or greater than 95 % of the max dry density of 108.2. </p>	<p> APPROVED BY: <i>R.E. Broun</i> </p> <p> CERTIFYING ENGINEER </p> <hr/> <p> BY: <i>[Signature]</i> </p> <p> CQA INSPECTOR </p> <hr/> <p> REVIEWED BY: </p> <p> PROJECT ENGINEER </p>



Field Density Test Summary

Client: North Wake		General Contractor: Thalle		Date: May 12, 2004		Page: 1 of 1							
Project Name: Phase 1 closure		Earthwork Contractor: Thalle		Technician: Bion Dalton									
Project Location: North Wake Landfill				DS = 2400		Issing = 0.4%							
Project Number: 6172-42378				MS = 674		Issing = 0.4%							
				Trolox Gauge No./Type		3440.no. 30129							
Test No.	Location	Elevation, Depth (ft) or Lift No.	Laboratory Test Results			Field Test Results			Compaction Achieved (%)	Compaction Required (%)	Status P / F	Comments Corrected Moisture	
			Off-Site Borrow Source	Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (in)	Dry Density (pcf)	Wet Density (pcf)					Moisture Content (%)
TP-1	Phase 1 Acre 1	1	onsite borrow	108.2	16.0	12	102.6	117.5	17.8	94.8%	95%	P	14.5
TP-2	Phase 1 Acre 1	1	onsite borrow	108.2	16.0	12	102.3	117.9	19.5	94.6%	95%	P	15.2
TP-3	Phase 1 Acre 1	1	onsite borrow	108.2	16.0	12	103.5	120.1	19	95.7%	95%	P	16
TP-4	Phase 1 Acre 1	1	onsite borrow	108.2	16.0	12	102.7	119.6	16.6	95.0%	95%	P	16.4
TP-5	Phase 1 Acre 1	1	onsite borrow	108.2	16.0	12	103.1	118	21.6	95.2%	95%	P	14.5
TP-6	Phase 1 Acre 1	2	onsite borrow	108.2	16.0	12	102.6	116.7	19	94.9%	95%	P	13.7
TP-7	Phase 1 Acre 1	2	onsite borrow	108.2	16.0	12	103.1	118.8	18.6	95.3%	95%	P	15.2
TP-8	Phase 1 Acre 1	2	onsite borrow	108.2	16.0	12	102.4	117	18	94.6%	95%	P	14.3
TP-9	Phase 1 Acre 1	2	onsite borrow	108.2	16.0	12	102.6	119	20.3	94.8%	95%	P	16
TP-10	Phase 1 Acre 1	2	onsite borrow	108.2	16.0	12	100.6	115.2	17	93.0%	95%	P	14.5
TP-11	Phase 1 Acre 1	1	onsite borrow	108.2	16.0	12	103.7	119.5	17.8	95.9%	95%	P	15.2
TP-12	Phase 1 Acre 1	1	onsite borrow	108.2	16.0	12	103.7	120.3	19	95.8%	95%	P	16
TP-13	Phase 1 Acre 1	1	onsite borrow	108.2	16.0	12	103.4	119.7	17.8	95.5%	95%	P	15.8
TP-14	Phase 1 Acre 1	1	onsite borrow	108.2	16.0	12	104.1	121.2	21	96.2%	95%	P	16.4
TP-15	Phase 1 Acre 1	1	onsite borrow	108.2	16.0	12	103.0	121.5	23	95.2%	95%	P	18
TP-16	Phase 1 Acre 1	2	onsite borrow	108.2	16.0	12	104.3	120	18.4	96.4%	95%	P	15
TP-17	Phase 1 Acre 1	2	onsite borrow	108.2	16.0	12	103.6	119.4	16.9	95.8%	95%	P	15.2
TP-18	Phase 1 Acre 1	2	onsite borrow	108.2	16.0	12	102.8	119.3	18.6	95.0%	95%	P	16.1
TP-19	Phase 1 Acre 1	2	onsite borrow	108.2	16.0	12	102.5	119.3	18.2	94.7%	95%	P	16.4
TP-20	Phase 1 Acre 1	2	onsite borrow	108.2	16.0	12	102.6	119.7	17.8	94.8%	95%	P	16.7

MOISTURE DENSITY RELATIONSHIP
ASTM D698-91 SOP-S12

Client
Client Reference
Project No.
Lab ID

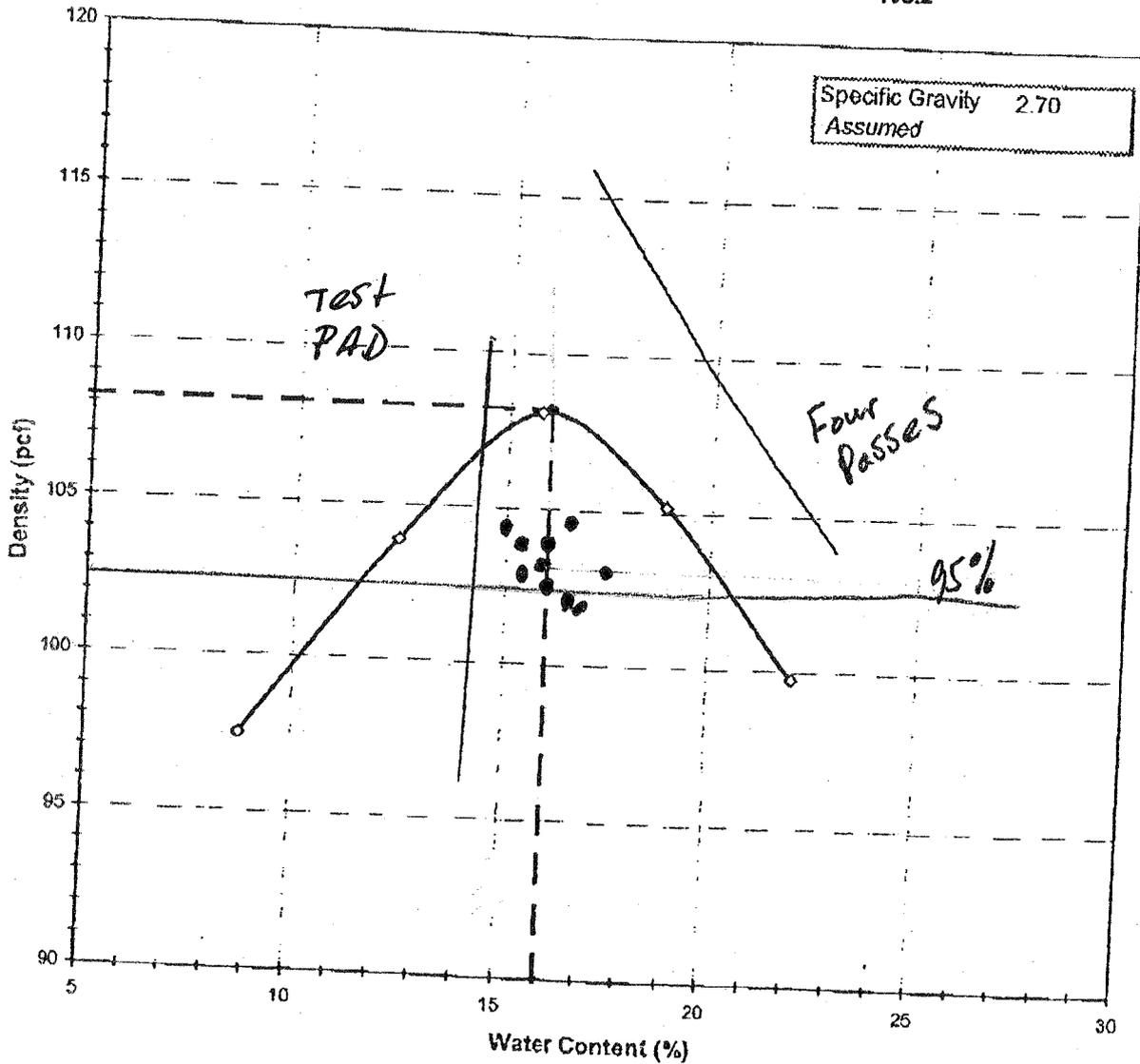
THALLE CONST. CO., INC.
N. WAKE SBTL. D PHS. 1 CLOS.
2004-547-02
2004-547-02-01

Boring No.
Depth (ft)
Sample No.
Test Method

EXISTING COVER
NA
2
STANDARD

Visual Description
BROWN SILT

Optimum Water Content 16.0
Maximum Dry Density 108.2

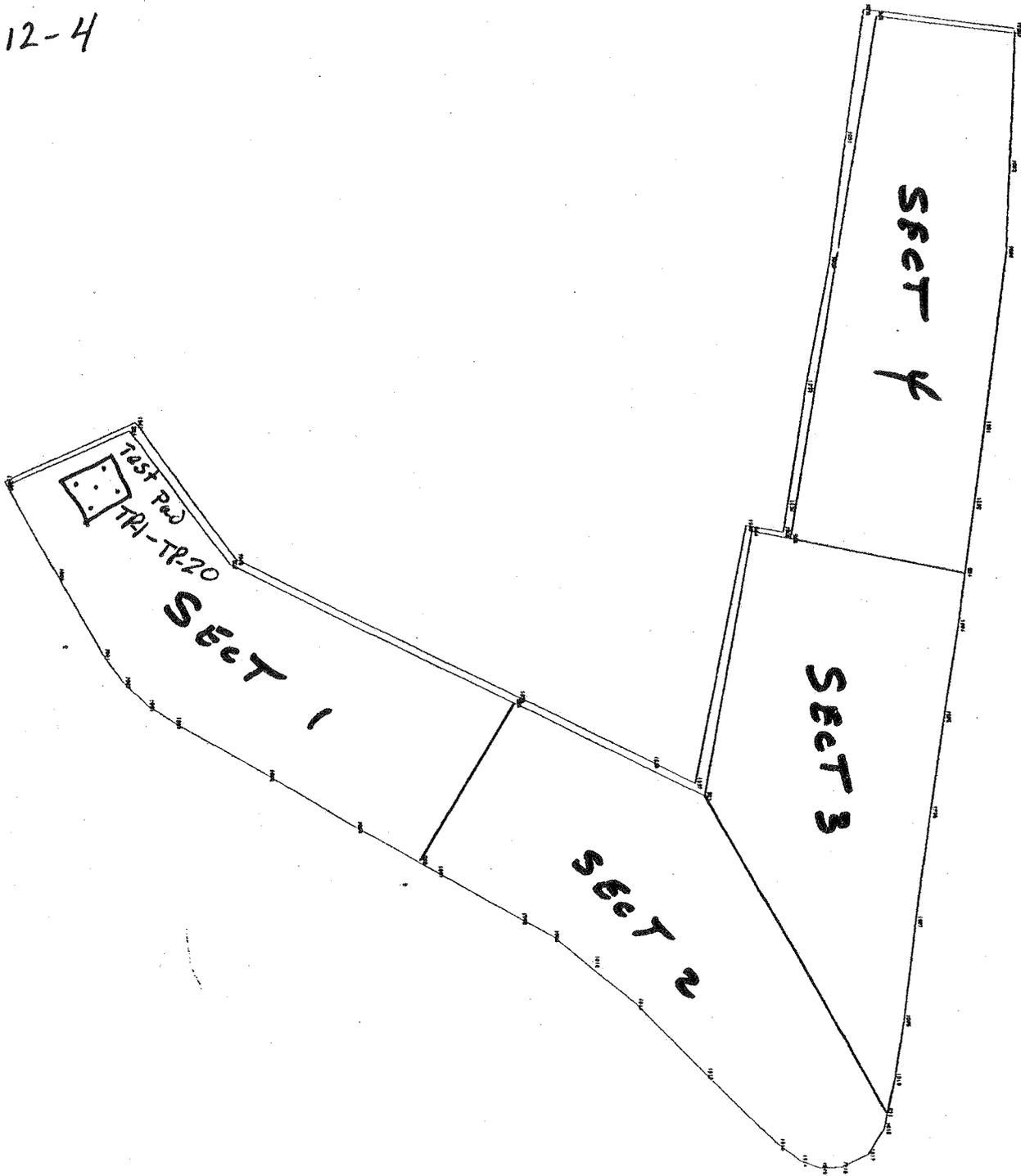


Tested By ETS Date 5/8/2004 Checked By ETS Date 5-12-04
DCN:CT-S12 DATE: 8-25-98 REVISION 3
\\D:\projects\11012004\Projects\2004-547 Thalle\2004-547-02-01 Proctor.XLSJ Sheet1

5-12-04
RPI 49

RPT # 49

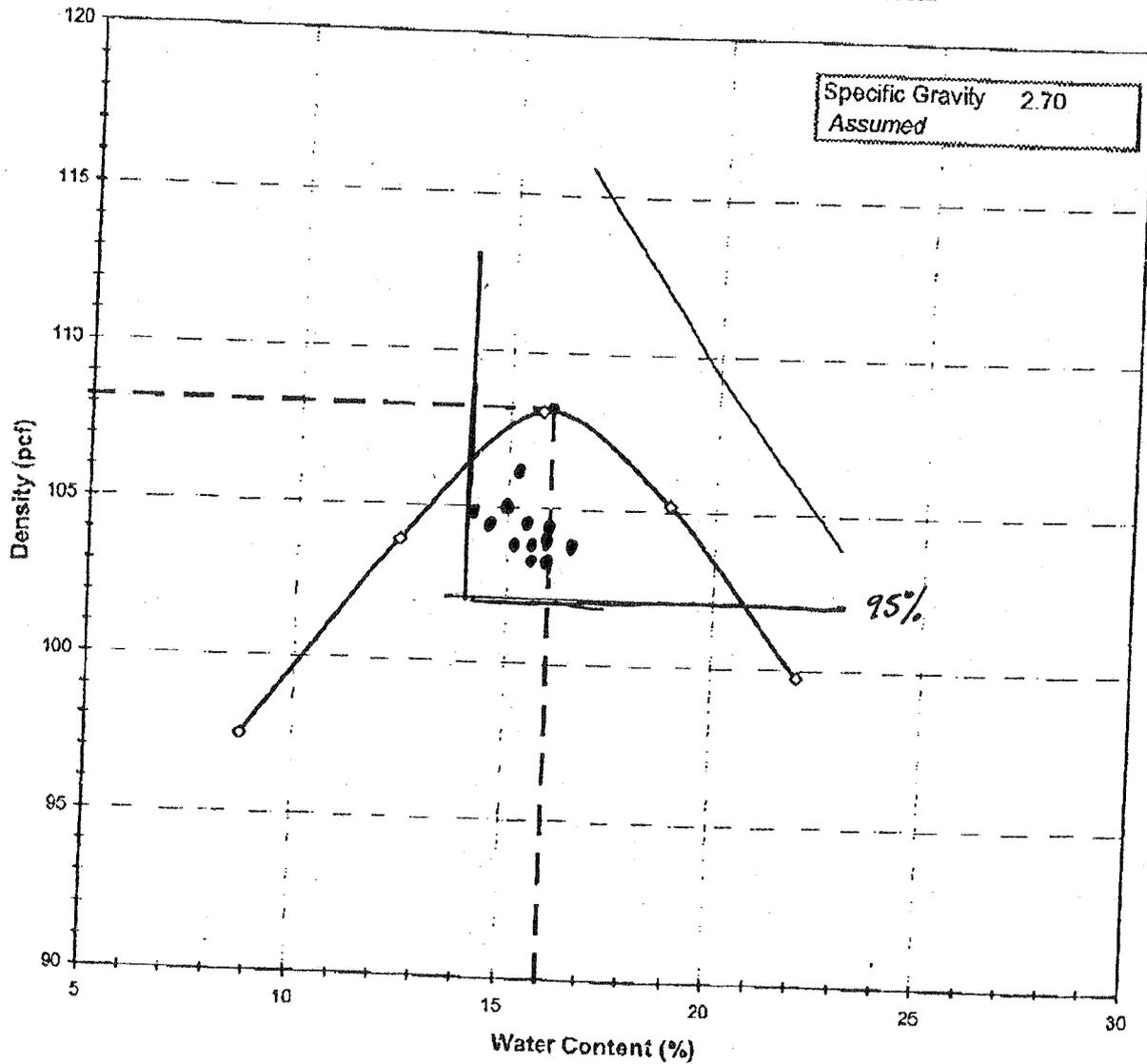
5-12-4



MOISTURE DENSITY RELATIONSHIP
ASTM D698-91 SOP-S12

Client	THALLE CONST. CO., INC.	Boring No.	EXISTING COVER
Client Reference	N.WAKE SBTL. D PHS. 1 CLOS.	Depth (ft)	NA
Project No.	2004-547-02	Sample No.	2
Lab ID	2004-547-02-01	Test Method	STANDARD
Visual Description	BROWN SILT		

Optimum Water Content 16.0
Maximum Dry Density 108.2



Tested By ETS Date 5/8/2004 Checked By AMS Date 5-12-04
DCN:CT-S12 DATE: 6-25-98 REVISION 3
\\Dov\jens\1\0\2004 Projects\2004-547 Thalle\2004-547-01-01 Proctor.XLS\Skeel1

5-12-04
AMS 49

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-13-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 83 Lo: 64 _____ Clear x Partly _____ Cloudy 0 Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 10 Reg. _____ OT Shift: 7 to 6

(Contractor) Hours Worked: 10 Reg. _____ OT Shift: 7 to 6

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Survey of stripping, stripping, intermediate cover, LLDPE QC, BOOT placement

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 1: Stripping of Vegetation and Unsuitable Soils.

Surveyors on site setting limits of stripping. Contractor on site continuing stripping vegetation from the Phase one area starting at the Southern most portions and working north.

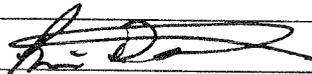
Item No. 3: Intermediate Cover Material.

Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement.

Item No. 5: LLDPE Installation

Subcontractor Hallaton INC. on site to deploying Liner on southern half of section one. They placed Panels P-1 through P-40 approximately 3.7 acres. Destructs were marked and cut, DS-1 through DS-13 passed, DS-14 failed and two more were cut per specification and they passed. All documentation is in order per specification.

Attachments: Yes No

Signed 

Description: _____

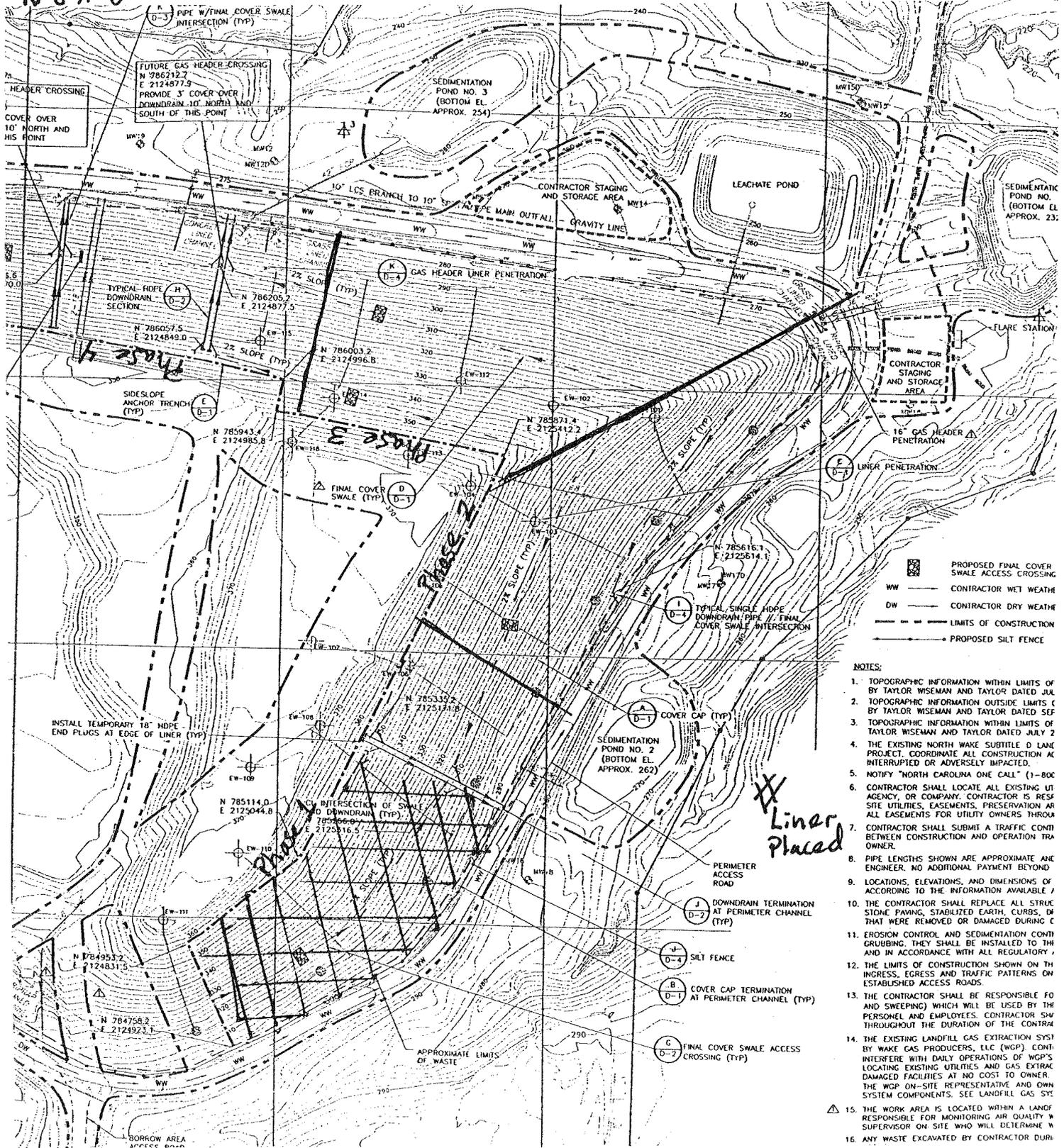
(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

<p style="text-align: center;"> CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p> <hr/> <p style="text-align: center;">WORK AND EQUIPMENT</p> <p>EQUIPMENT: D7, Volvo End dump, 563 smooth drum roller</p> <p>WORK COMPLETED: Contractor working sub-grade and placing fill in low areas. no density testing performed today, contractor not ready.</p> <p>RESULTS:</p>	<p> Sheet No. : 1 of 2 Report #: 50 Date: 05-13-04 low 83 high 64 Weather: PC </p> <hr/> <p style="text-align: center;">VISITORS</p> <hr/> <p style="text-align: center;">None</p> <hr/> <p style="text-align: center;">MATERIALS RECEIVED</p> <hr/> <p style="text-align: center;">None</p> <hr/> <p style="text-align: center;">COMMENT</p> <hr/> <p style="text-align: center;">None</p> <hr/> <p style="text-align: center;">CORRESPONDING DATA SHEETS</p>
<p>BY: </p> <p style="text-align: center;">CQA INSPECTOR</p>	<p>APPROVED BY: </p> <p style="text-align: center;">CERTIFYING ENGINEER</p>
<p>REVIEWED BY:</p> <p style="text-align: center;">PROJECT ENGINEER</p>	

5-13-04
RPE # 50

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- WW CONTRACTOR WET WEATHER
- DW CONTRACTOR DRY WEATHER
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

NOTES:

1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JUL
2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS (BY TAYLOR WISEMAN AND TAYLOR DATED SEP
3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY 2
4. THE EXISTING NORTH WAKE SUBTILE D LANE PROJECT. COORDINATE ALL CONSTRUCTION AT INTERRUPTED OR ADVERSELY IMPACTED.
5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800
6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY AGENCY, OR COMPANY. CONTRACTOR IS RES SITE UTILITIES, EASEMENTS, PRESERVATION AR ALL EASEMENTS FOR UTILITY OWNERS THROU
7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTI BETWEEN CONSTRUCTION AND OPERATION TRA OWNER.
8. PIPE LENGTHS SHOWN ARE APPROXIMATE ANE ENGINEER. NO ADDITIONAL PAYMENT BEYOND
9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ACCORDING TO THE INFORMATION AVAILABLE /
10. THE CONTRACTOR SHALL REPLACE ALL STRUC STONE PAVING, STABILIZED EARTH, CURBS, CI THAT WERE REMOVED OR DAMAGED DURING C
11. EROSION CONTROL AND SEDIMENTATION CONT GRUBBING. THEY SHALL BE INSTALLED TO TH AND IN ACCORDANCE WITH ALL REGULATORY /
12. THE LIMITS OF CONSTRUCTION SHOWN ON TH INGRESS, EGRESS AND TRAFFIC PATTERNS ON ESTABLISHED ACCESS ROADS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FO AND SWEEPING) WHICH WILL BE USED BY TH PERSONNEL AND EMPLOYEES. CONTRACTOR SH THROUGHOUT THE DURATION OF THE CONTRA
14. THE EXISTING LANDFILL GAS EXTRACTION SYST BY WAKE GAS PRODUCERS, LLC (WGP). CONTI INTERFERE WITH DAILY OPERATIONS OF WGP'S LOCATING EXISTING UTILITIES AND GAS EXTR DAMAGED FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND OWN SYSTEM COMPONENTS. SEE LANDFILL GAS SYE
15. THE WORK AREA IS LOCATED WITHIN A LAND RESPONSIBLE FOR MONITORING AIR QUALITY A SUPERVISOR ON SITE WHO WILL DETERMINE W
16. ANY WASTE EXCAVATED BY CONTRACTOR DUR

Liner Placed



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-14-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 85 Lo: 65 _____ Clear x Partly _____ Cloudy 0 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 10 Reg. _____ OT Shift: 7 to 6

(Contractor) Hours Worked: 10 Reg. _____ OT Shift: 7 to 6

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Survey of stripping, stripping, intermediate cover, LLDPE QC, BOOT placement

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 1: Stripping of Vegetation and Unsuitable Soils.

Surveyors on site setting limits of stripping. Contractor on site continuing stripping vegetation from the Phase one area starting at the Southern most portions and working north.

Item No. 3: Intermediate Cover Material.

Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement.

Item No. 5: LLDPE Installation

Subcontractor Hallaton INC. on site to finishing QC and welding boots onto gas wells.

Item No. 6: Geo-composite deployment.

Sub-contractor Hallaton commenced placement of Geo-composite starting at the South side of section one.

Item No. 11: Furnish and Install 18- inch HDPE CPP Down- Drains.

Contractor commenced excavation for first Down drain, located on the South side, completed approximately one third of excavation and excavator broke down.

Attachments: Yes No Signed _____

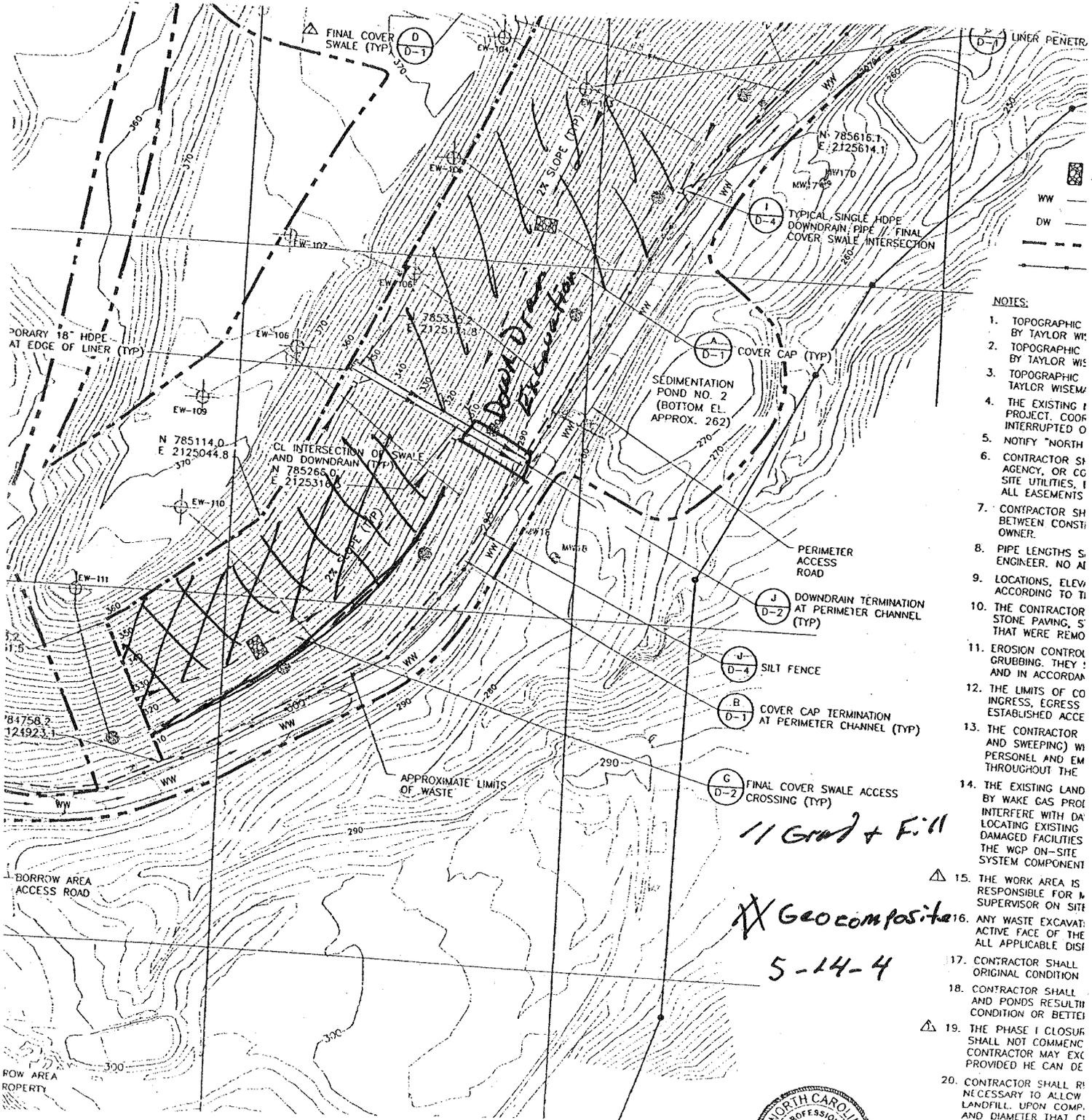
Description: _____

(Pipe Test Reports, Concrete Placement Reports, etc.)

<p>Sheet No. : 1 of 2 Report #: 51 Date: 05-14-04 low 84 high 65 Weather: PC</p>	<p>CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>
<p>VISITORS</p>	<p>WORK AND EQUIPMENT</p>
<p>None</p>	<p><u>EQUIPMENT:</u> D7, Volvo End dump, 563 smooth drum roller</p>
<p>MATERIALS RECEIVED</p>	<p><u>WORK COMPLETED:</u> Contractor working sub-grade and placing fill in low areas, no density testing performed today, contractor not ready.</p>
<p>None</p>	<p><u>RESULTS:</u></p>
<p>COMMENT</p>	
<p>None</p>	
<p>CORRESPONDING DATA SHEETS</p>	
<p>APPROVED BY: <i>R.E. Burzone</i></p>	<p>BY: <i>[Signature]</i></p>
<p>CERTIFYING ENGINEER</p>	<p>CQA INSPECTOR</p>
	<p>REVIEWED BY:</p>
	<p>PROJECT ENGINEER</p>

Site Sketch

5-14-04
RPT # 51



NOTES:

1. TOPOGRAPHIC BY TAYLOR WIS
2. TOPOGRAPHIC BY TAYLOR WIS
3. TOPOGRAPHIC BY TAYLOR WISEMAN
4. THE EXISTING PROJECT, COORDINATED AND INTERRUPTED
5. NOTIFY NORTH
6. CONTRACTOR SHALL NOTIFY AGENCY, OR COUNTY, FOR ALL SITE UTILITIES, AND ALL EASEMENTS
7. CONTRACTOR SHALL NOTIFY BETWEEN CONSTRUCTION OWNER
8. PIPE LENGTHS SHALL BE AS PER ENGINEER. NO ALTERNATES
9. LOCATIONS, ELEVATIONS, SHALL BE AS PER TYPICAL
10. THE CONTRACTOR SHALL REMOVE STONE PAVING, AND OTHER MATERIALS THAT WERE REMOVED
11. EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE PROJECT
12. THE LIMITS OF CONSTRUCTION SHALL BE AS PER ESTABLISHED ACCESS
13. THE CONTRACTOR SHALL PROVIDE PERSONNEL AND EQUIPMENT THROUGHOUT THE PROJECT
14. THE EXISTING LAND USE SHALL NOT BE INTERFERED WITH BY WASTE GAS PRODUCTION. LOCATING EXISTING DAMAGED FACILITIES SHALL BE THE WGP ON-SITE SYSTEM COMPONENT
15. THE WORK AREA IS RESPONSIBLE FOR A SUPERVISOR ON SITE
16. ANY WASTE EXCAVATED SHALL BE ACTIVE FACE OF THE ALL APPLICABLE DISPOSITION
17. CONTRACTOR SHALL MAINTAIN ORIGINAL CONDITION
18. CONTRACTOR SHALL MAINTAIN POND RESULTING FROM ORIGINAL CONDITION OR BETTER
19. THE PHASE I CLOSURE SHALL NOT COMMENCE UNTIL THE CONTRACTOR MAY EXCEPT PROVIDED HE CAN DEMONSTRATE
20. CONTRACTOR SHALL PROVIDE NECESSARY TO ALLOW LANDFILL, UPON COMPLETION, AND DIAMETER THAT CAN

11 Grid + Fill

Geo composite

5-14-4





DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-15-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi _____ Lo: _____ Clear _____ Partly _____ Cloudy _____ Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

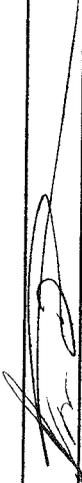
(Contractor) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes				
Superintendent			Loader Backhoes				
Engineer			F.E. Loaders				
Foreman			Dozers				
Asst. Foreman			Grader				
Equip. Operators			Dump Trucks				
Masons			Pick-up Trucks				
Pipelayers			Cars				
Laborers			Compactors				
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flagpeople			Well Point Systems				
Surveyors			Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total		*	Total		*		*

*Designates subcontractors

Activity and Location: No work performed by contractor or RPR

Defective work noted today to be corrected later: _____

<p align="center">CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>		Sheet No. : 1 of 1 Date: 05-15-04 Weather: PC	Report #: 52 low 85 high
<p>WORK AND EQUIPMENT</p>		<p align="center">VISITORS</p>	
<p>EQUIPMENT:</p>		None	
<p>WORK COMPLETED: Not a scheduled work day.</p>		<p align="center">MATERIALS RECEIVED</p>	
<p>RESULTS:</p>		None	
		<p align="center">COMMENT</p>	
		<p align="center">CORRESPONDING DATA SHEETS</p>	
<p>BY: </p>		<p align="center">APPROVED BY: </p>	
<p align="center">CQA INSPECTOR</p>		<p align="center">CERTIFYING ENGINEER</p>	
<p>REVIEWED BY:</p>			
<p align="center">PROJECT ENGINEER</p>			

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-16-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi _____ Lo: _____ Clear _____ Partly _____ Cloudy _____ Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

(Contractor) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes				
Superintendent			Loader Backhoes				
Engineer			F.E. Loaders				
Foreman			Dozers				
Asst. Foreman			Grader				
Equip. Operators			Dump Trucks				
Masons			Pick-up Trucks				
Pipelayers			Cars				
Laborers			Compactors				
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flagpeople			Well Point Systems				
Surveyors			Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total		*	Total		*		*

*Designates subcontractors

Activity and Location: No work performed by contractor or RPR

Defective work noted today to be corrected later: _____



CAMP DRESSER & McKEE
 (North Wake Subtitle D Landfill Phase I Closure)
DAILY CONSTRUCTION QUALITY ASSURANCE REPORT

Sheet No. : 1 of 1 Report #: 53
 Date: 05-16-04
 Weather: Rain .42 63 low 86 high

WORK AND EQUIPMENT

VISITORS

None

MATERIALS RECEIVED

None

COMMENT

None

CORRESPONDING DATA SHEETS

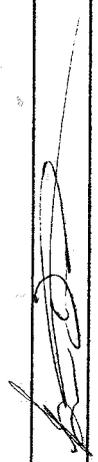
EQUIPMENT:

WORK COMPLETED:

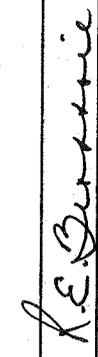
Not a scheduled work day.

RESULTS:

BY:



APPROVED BY:



CQA INSPECTOR

CERTIFYING ENGINEER

REVIEWED BY:

PROJECT ENGINEER

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-17-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 85 Lo: 63 _____ Clear x Partly _____ Cloudy 0 Precipitation _____
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 10 Reg. _____ OT Shift: 7 to 6
 (Contractor) Hours Worked: 10 Reg. _____ OT Shift: 7 to 6

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Survey of stripping, stripping, intermediate cover, LLDPE QC, BOOT placement

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 1: Stripping of Vegetation and Unsuitable Soils.

Surveyors on site setting limits of stripping. Contractor on site continuing stripping vegetation from the Phase one area starting at the Southern most portions and working north.

Item No. 3: Intermediate Cover Material.

Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement.

Item No. 5: LLDPE Installation

Subcontractor Hallaton INC. on site to finishing welding middle flap prepared to deploy LLDPE but no sub-grade was available, left site early.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

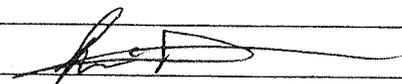
Contractor stockpiling screened material in preparation of Protective cover placement.

Item No. 11: Furnish and Install 18- inch HDPE CPP Down- Drains.

Contractor completed excavation for first Down drain, located on the South side.

Attachments: Yes No

Signed



Description:

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

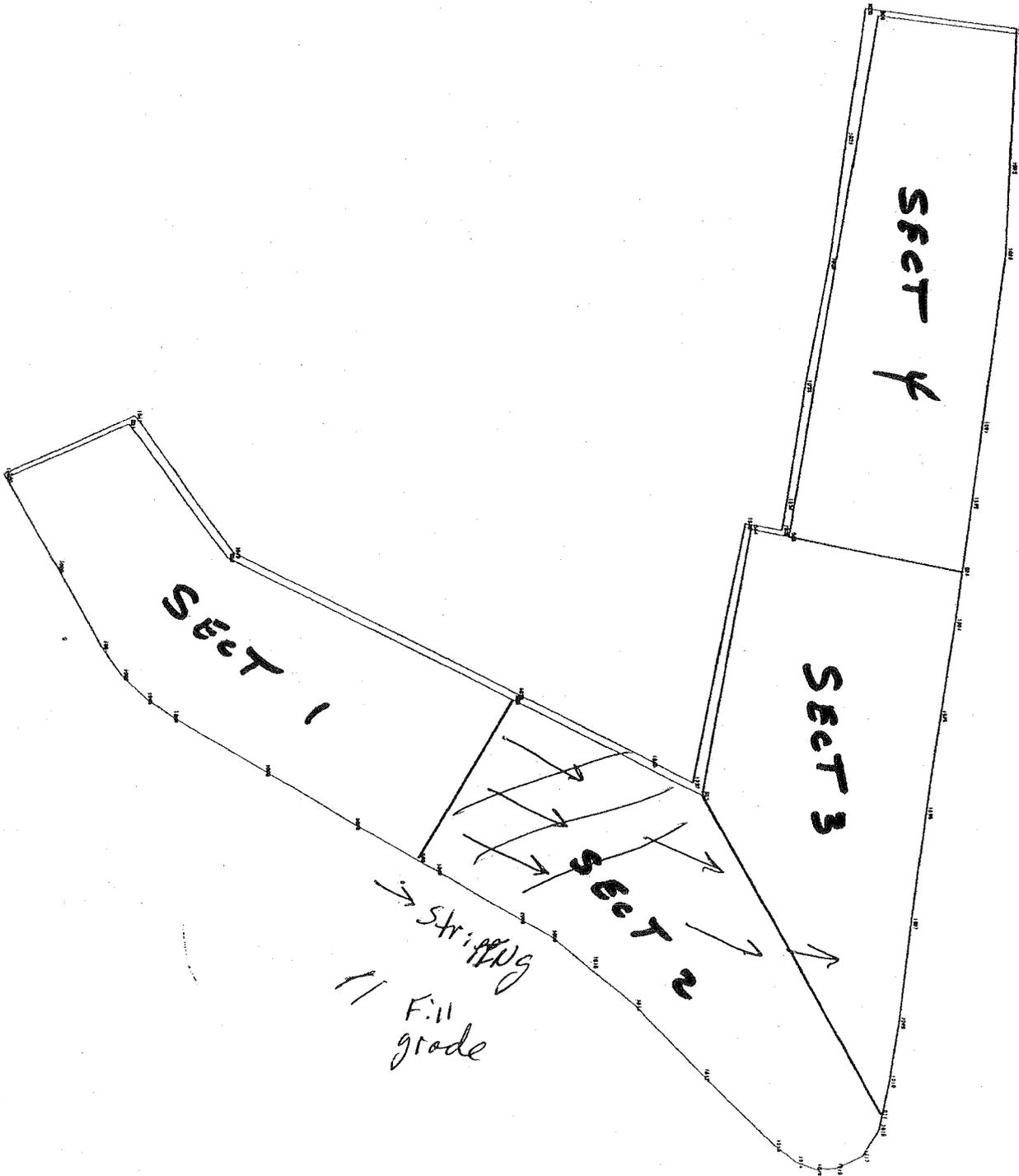


<p align="center"> CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p>	<p> Sheet No. : 1 of 3 Report #: 54 Date: 05-17-04 low 63 high 85 Weather: PC </p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p><u>EQUIPMENT:</u> CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	<p>None</p>
<p><u>WORK COMPLETED:</u></p>	<p align="center">MATERIALS RECEIVED</p>
<p><u>Item No. 3: Intermediate Cover Material.</u></p>	<p>none</p>
<p>Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement. They worked in the Phase I area slope. Down drain and Flap void.</p>	<p align="center">COMMENT</p>
<p><u>Item No. 7: Excavate, Transport and Install Protective Soil Layer</u></p>	<p>None</p>
<p>Contractor stockpiling screened material in preparation of Protective cover placement.</p>	<p align="center">CORRESPONDING DATA SHEETS</p>
<p><u>Item No. 11: Furnish and Install 18-inch HDPE CPP Down- Drains.</u></p>	<p>Site sketch</p>
<p>Contractor completed excavation for first Down drain, located on the South side.</p>	<p>APPROVED BY: <i>R.E. Guerin</i></p>
<p>BY: <i>[Signature]</i></p>	<p align="center">CERTIFYING ENGINEER</p>
<p>REVIEWED BY:</p>	<p align="center">PROJECT ENGINEER</p>

CDM

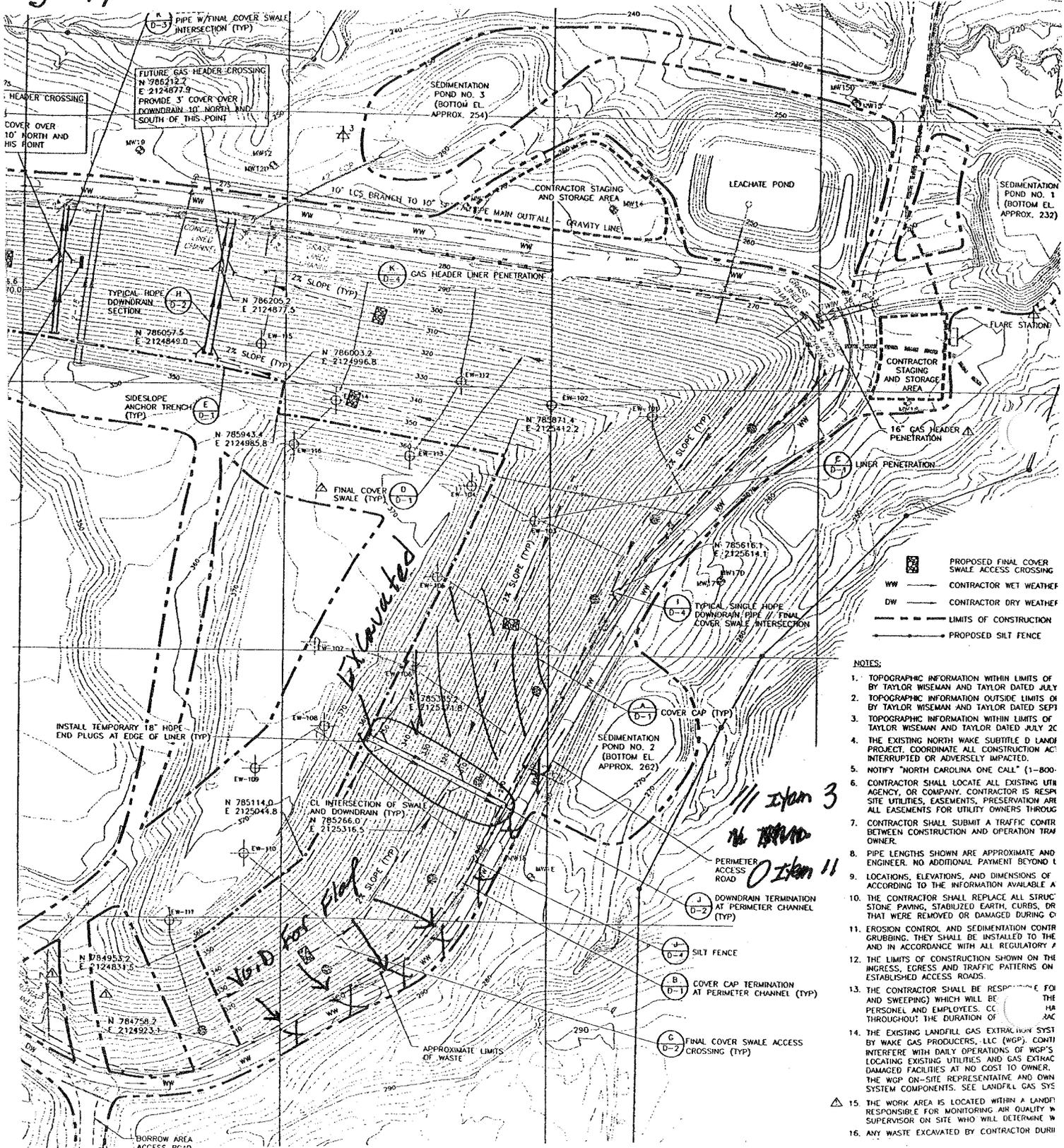
5-17-4

Site Sketch



RPE # 54
5-17-04

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- CONTRACTOR WET WEATHER
- CONTRACTOR DRY WEATHER
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

- NOTES:
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JULY 2001.
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED SEP 11 2001.
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY 2001.
 4. THE EXISTING NORTH WAKE SUBTITLE D LAND PROJECT, COORDINATE ALL CONSTRUCTION ACT INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800-CONTRACTOR) SHALL LOCATE ALL EXISTING UTILITY AGENCY, OR COMPANY. CONTRACTOR IS RESPONSIBLE FOR PRESERVATION OF ALL EASEMENTS FOR UTILITY OWNERS THROUGHOUT THE DURATION OF THE PROJECT.
 6. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN BETWEEN CONSTRUCTION AND OPERATION TRAFFIC CONTROL PLAN.
 7. PIPE LENGTHS SHOWN ARE APPROXIMATE AND ENGINEER. NO ADDITIONAL PAYMENT BEYOND CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY AGENCY, OR COMPANY. CONTRACTOR IS RESPONSIBLE FOR PRESERVATION OF ALL EASEMENTS FOR UTILITY OWNERS THROUGHOUT THE DURATION OF THE PROJECT.
 8. THE CONTRACTOR SHALL REPLACE ALL STRUCTURE STONE PAVING, STABILIZED EARTH, CURBS, OR THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
 9. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO THE AND IN ACCORDANCE WITH ALL REGULATORY AGENCIES.
 10. THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING ARE ESTABLISHED ACCESS ROADS.
 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERSONNEL AND EMPLOYEES, CC, HA THROUGHOUT THE DURATION OF THE PROJECT.
 12. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM BY WAKE GAS PRODUCERS, LLC (WGP), CONTINUE TO OPERATE WITH DAILY OPERATIONS OF WGP'S LOCAL EXISTING UTILITIES AND GAS EXTRACTION FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND OWN SYSTEM COMPONENTS. SEE LANDFILL GAS SYSTEM DRAWING.
 13. THE WORK AREA IS LOCATED WITHIN A LANDFILL RESPONSIBLE FOR MONITORING AIR QUALITY AND SUPERVISOR ON SITE WHO WILL DETERMINE WASTE TO BE REMOVED OR DAMAGED DURING CONSTRUCTION.
 14. ANY WASTE EXCAVATED BY CONTRACTOR DURING CONSTRUCTION SHALL BE REMOVED FROM THE SITE.

/// Item 3
16 18 19 20
O Item 11



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-18-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 86 Lo: 63 _____ Clear Partly _____ Cloudy 0 Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 10 Reg. _____ OT Shift: 7 to 6

(Contractor) Hours Worked: 10 Reg. _____ OT Shift: 7 to 6

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Survey of stripping, stripping, intermediate cover, LLDPE QC, BOOT placement

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 1: Stripping of Vegetation and Unsuitable Soils.

Surveyors on site setting limits of stripping. Contractor on site continuing stripping vegetation along the Phase one and Phase 2 area starting at the Southern most portions and working north.

Item No. 3: Intermediate Cover Material.

Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement. Density testing was completed on side slope in next area of LLDPE deployment. Results indicated that all tests were at least 95% of the max dry density

Item No. 5: LLDPE Installation

Subcontractor Hallaton INC. on site finishing welding flaps. They also continued deployment of Geocomposite and LLDPE. Contractor backfilling anchor trench and Void for bottom flap, I completed density testing for section completed today. All results indicated that they were at least 95% of the max dry density.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor stockpiling screened material in preparation of Protective cover placement.

Item No. 11: Furnish and Install 18- inch HDPE CPP Down- Drains.

Contractor completed excavation for first Down drain, located on the South side. I completed density testing in the Down Drain area. Results indicated that all test were at least 95% of the max dry density.

Attachments: Yes No

Signed 

Description: _____

(Pipe Test Reports, Concrete Placement Reports, etc.)

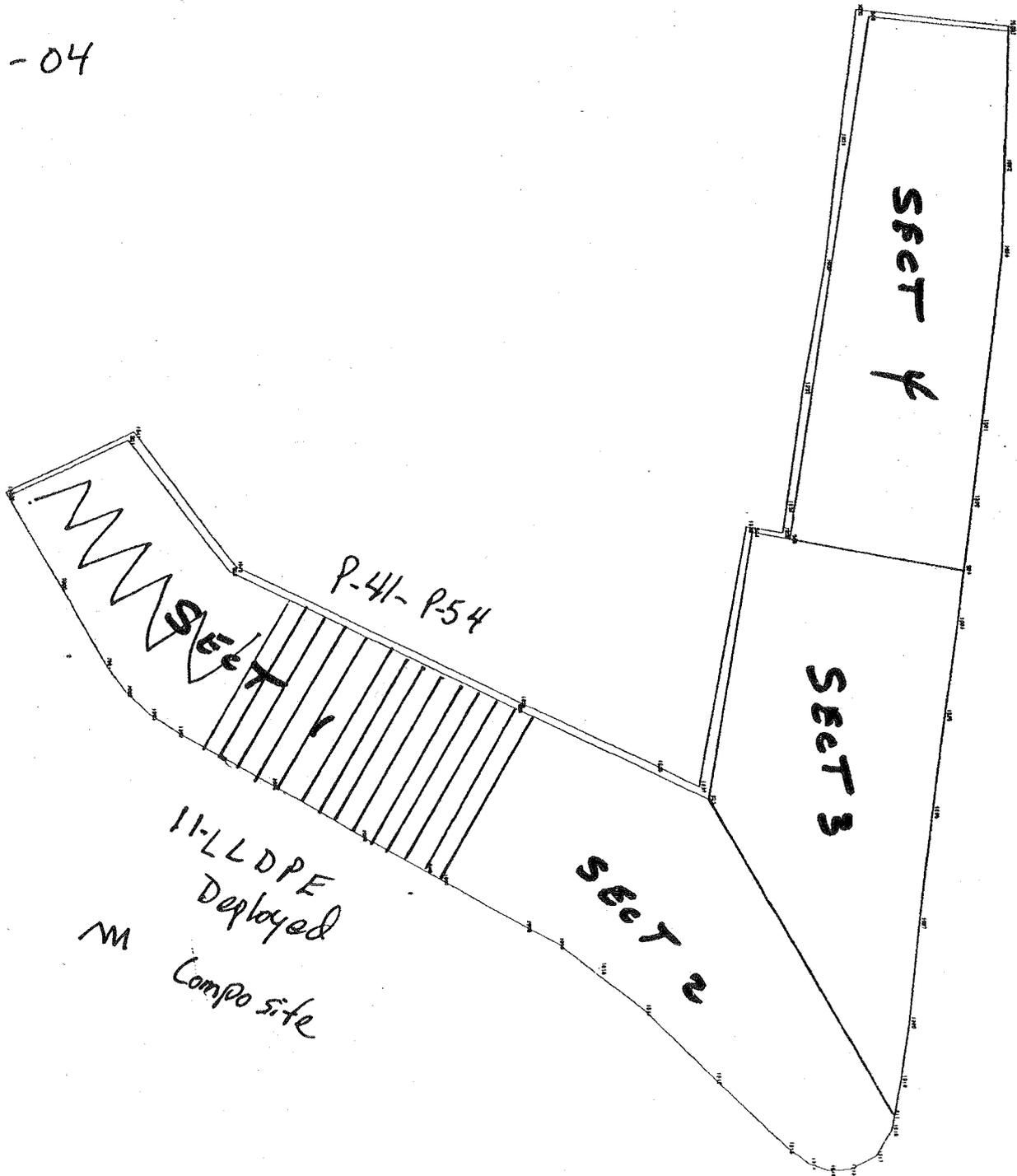
This report to be completed daily by each Project Representative

CDM

Site Sketch

RPT # 55

05-18-04



<p style="text-align: center;">CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p> <p style="text-align: center;">WORK AND EQUIPMENT</p> <p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p> <p>WORK COMPLETED:</p> <p>Item No. 3: Intermediate Cover Material. Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement. They worked in the Phase I area slope, Down drain and Flap void. I performed field density tests on area ready located in phase I. Results accomplished with at least four passes with a 563 smooth drum roller.</p> <p>RESULTS: ALL results were at least 95% compaction of proctor 108.2 @ 16% moisture or 96.4 @22.5% moisture. All testing meets specification requirements. Moisture correction were needed on 108.2 material but not on 96.4 material. I did perform moisture correction on some or all of the 96.4 material but in the future when testing this material I will only perform random moisture just for a check. Attached results</p>	<p>Sheet No. : 1 of 4 Report #: 55 Date: 05-18-04 Weather: PC .67rain low 63 high 86</p> <p style="text-align: center;">VISITORS</p> <p style="text-align: center;">None</p> <p style="text-align: center;">MATERIALS RECEIVED</p> <p style="text-align: center;">none</p> <p style="text-align: center;">COMMENT</p> <p style="text-align: center;">None</p> <p style="text-align: center;">CORRESPONDING DATA SHEETS</p> <p style="text-align: center;">Density testing</p>
<p style="text-align: center;">APPROVED BY: </p>	<p style="text-align: center;">CERTIFYING ENGINEER</p>
<p style="text-align: center;">REVIEWED BY: </p>	<p style="text-align: center;">CQA INSPECTOR</p>
<p style="text-align: center;">PROJECT ENGINEER</p>	<p style="text-align: center;">PROJECT ENGINEER</p>



Field Density Test Summary

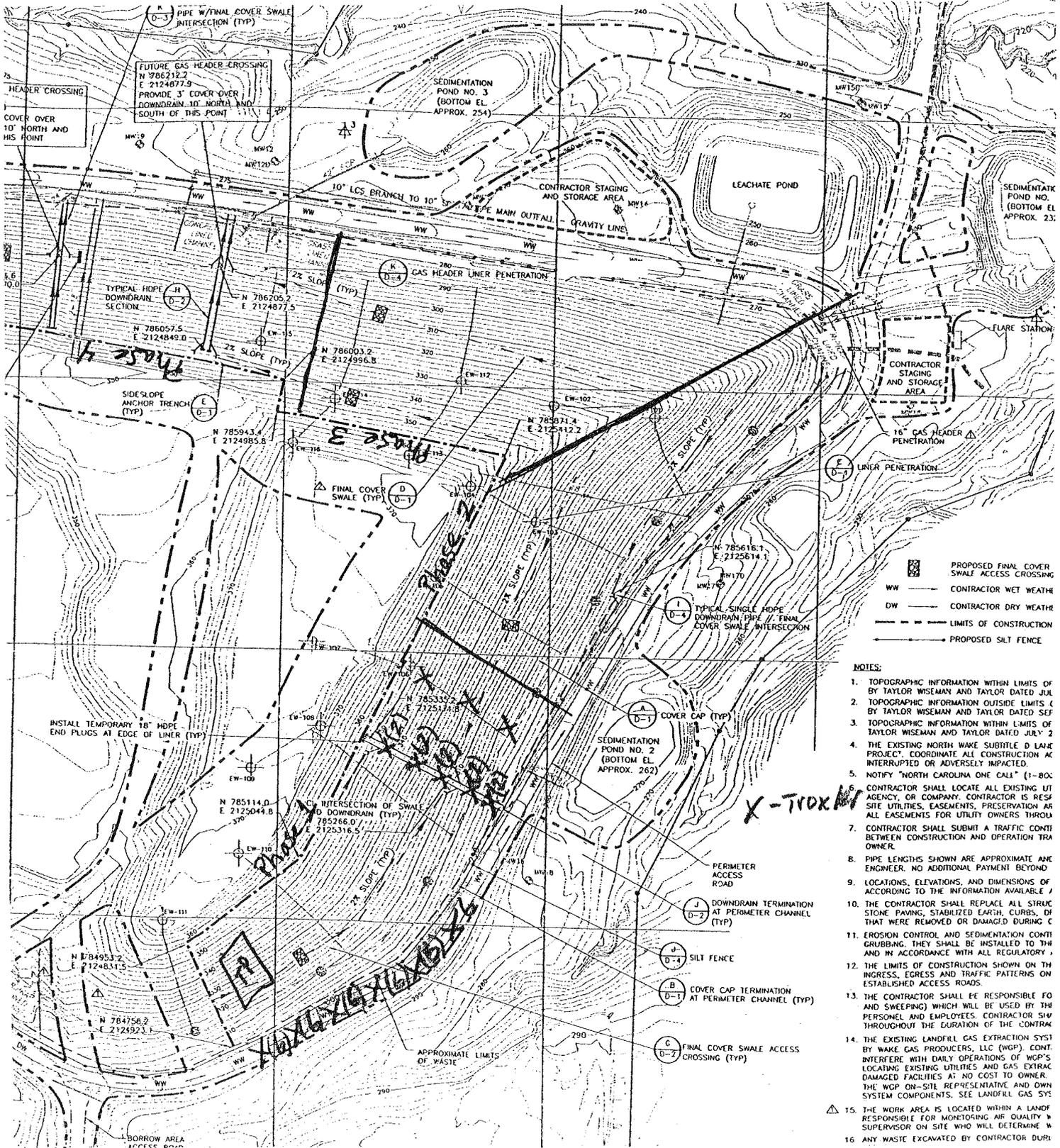
Client: North Wake		General Contractor: Thalle		Date: May 18, 2004		Page: 1 of 1							
Project Name: Phase I closure		Earthwork Contractor: Thalle		Technician: Bion Dalton									
Project Location: North Wake Landfill				DS = 2400		Issing = 0.4%							
Project Number: 6172-42378				MS = 674		Issing = 0.4%							
				Troloxer Gauge No./Type 3440.no. 30129									
Test No.	Location	Elevation, Depth (ft) or Lift No.	Laboratory Test Results			Field Test Results			Compaction Achieved (%)	Compaction Required (%)	Status P / F	Comments Corrected Moisture	
			Off-Site Borrow Source	Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (in)	Dry Density (pcf)	Wet Density (pcf)					Moisture Content (%)
NW-13	Phase 1 Acre 1	1	onsite borrow	108.2	16.0	12	103.7	119.3	19	95.9%	95%	P	15
NW-14	Phase 1 Acre 1	1	onsite borrow	108.2	16.0	12	103.6	119.4	18.5	95.8%	95%	P	15.2
NW-15	Phase 1 Acre 1	1	onsite borrow	108.2	16.0	12	102.8	118.6	17.8	95.0%	95%	P	15.4
NW-16	Phase 1 Acre 1	2	onsite borrow	108.2	16.0	12	102.8	118.8	18	95.0%	95%	P	15.6
NW-17	Phase 1 Acre 1	2	onsite borrow	108.2	16.0	12	104.2	120	17.9	96.3%	95%	P	15.2
NW-18	Phase 1 Acre 1	2	onsite borrow	108.2	16.0	12	104.5	121	17.6	96.6%	95%	P	15.8
NW-19	Down Drain	1	onsite borrow	108.2	16.0	12	103.4	119	18.5	95.6%	95%	P	15.1
NW-20	Down Drain	1	onsite borrow	108.2	16.0	12	102.4	118.4	18.7	94.7%	95%	P	15.6
NW-21	Down Drain	1	onsite borrow	108.2	16.0	12	102.9	119.1	18.3	95.1%	95%	P	15.7
NW-22	Down Drain	1	onsite borrow	108.2	16.0	12	101.7	118.2	18	94.0%	95%	P	16.2
NW-23	Down Drain	1	onsite borrow	108.2	16.0	12	104.3	120	17.6	96.4%	95%	P	15
NW-24	Down Drain	2	onsite borrow	108.2	16.0	12	104.8	120.7	17.9	96.8%	95%	P	15.2
NW-25	Down Drain	2	onsite borrow	108.2	16.0	12	103.7	119.6	19.2	95.9%	95%	P	15.3
NW-26	Down Drain	2	onsite borrow	108.2	16.0	12	103.2	119.4	20	95.4%	95%	P	15.7
NW-27	Down Drain	2	onsite borrow	108.2	16.0	12	104.3	120.3	20.4	96.4%	95%	P	15.3
NW-28	Down Drain	2	onsite borrow	108.2	16.0	12	103.7	119.2	18.2	95.8%	95%	P	15
NW-29	Void for flap and anchor trench	1	onsite borrow	96.4	22.5	12	93.2	112.8	21	96.7%	95%	P	21
NW-30	Void for flap and anchor trench	1	onsite borrow	96.4	22.5	12	93.8	113.6	21.2	97.3%	95%	P	21.1
NW-31	Void for flap and anchor trench	1	onsite borrow	96.4	22.5	12	91.7	111.9	22	95.1%	95%	P	22
NW-32	Void for flap and anchor trench	1	onsite borrow	96.4	22.5	12	93.1	112.8	21.5	96.6%	95%	P	21.1

NW-33	Void for flap and anchor trench	1	onsite borrow	96.4	22.5	12	92.6	112.2	21.4	96.0%	95%	P	21.2
NW-34	Void for flap and anchor trench	1	onsite borrow	96.4	22.5	12	91.9	112.4	22.3	95.3%	95%	P	22.3
NW-35	Void for flap and anchor trench	2	onsite borrow	96.4	22.5	12	92.4	111.9	21.1	95.9%	95%	P	21.1
NW-36	Void for flap and anchor trench	2	onsite borrow	96.4	22.5	12	91.6	111.8	22	95.1%	95%	P	22
NW-37	Void for flap and anchor trench	2	onsite borrow	96.4	22.5	12	93.7	112.5	20.1	97.2%	95%	P	20.1
NW-38	Void for flap and anchor trench	2	onsite borrow	96.4	22.5	12	91.8	112	22	95.2%	95%	P	22
NW-39	Void for flap and anchor trench	2	onsite borrow	96.4	22.5	12	92.9	112.8	21.4	96.4%	95%	P	21.4
NW-40	Void for flap and anchor trench	2	onsite borrow	96.4	22.5	12	92.3	111.9	21.3	95.7%	95%	P	21.3
NW-41	Void for flap and anchor trench	3	onsite borrow	96.4	22.5	12	92.3	112.1	21.5	95.7%	95%	P	21.5
NW-42	Void for flap and anchor trench	3	onsite borrow	96.4	22.5	12	91.6	111.7	22	95.0%	95%	P	22
NW-43	Void for flap and anchor trench	3	onsite borrow	96.4	22.5	12	92.9	111.9	20.4	96.4%	95%	P	20.4
NW-44	Void for flap and anchor trench	3	onsite borrow	96.4	22.5	12	92.7	112.6	21.5	96.1%	95%	P	21.5
NW-45	Void for flap and anchor trench	3	onsite borrow	96.4	22.5	12	93.0	112.1	20.6	96.4%	95%	P	20.6
NW-46	Void for flap and anchor trench	3	onsite borrow	96.4	22.5	12	92.9	111.8	20.3	96.4%	95%	P	20.3
NW-47	Void for flap and anchor trench	3	onsite borrow	96.4	22.5	12	93.1	112.1	20.4	96.6%	95%	P	20.4
NW-48	Void for flap and anchor trench	4	onsite borrow	96.4	22.5	12	93.7	113.2	20.8	97.2%	95%	P	20.8
NW-49	Void for flap and anchor trench	4	onsite borrow	96.4	22.5	12	92.9	111.8	20.3	96.4%	95%	P	20.3
NW-50	Void for flap and anchor trench	4	onsite borrow	96.4	22.5	12	93.0	112.5	21	96.4%	95%	P	21
NW-51	Void for flap and anchor trench	4	onsite borrow	96.4	22.5	12	92.5	112.2	21.3	96.0%	95%	P	21.3
NW-52	Void for flap and anchor trench	4	onsite borrow	96.4	22.5	12	92.7	111.6	20.4	96.2%	95%	P	20.4
NW-53	Void for flap and anchor trench	4	onsite borrow	96.4	22.5	12	92.8	111.8	20.5	96.2%	95%	P	20.5
NW-54	Void for flap and anchor trench	5	onsite borrow	96.4	22.5	12	92.8	111.6	20.3	96.2%	95%	P	20.3
NW-55	Void for flap and anchor trench	5	onsite borrow	96.4	22.5	12	93.4	112.1	20	96.9%	95%	P	20
NW-56	Void for flap and anchor trench	5	onsite borrow	96.4	22.5	12	95.2	114.6	20.4	98.7%	95%	P	20.4
NW-57	Void for flap and anchor trench	5	onsite borrow	96.4	22.5	12	93.9	113	20.3	97.4%	95%	P	20.3
NW-58	Void for flap and anchor trench	5	onsite borrow	96.4	22.5	12	92.8	112.4	21.1	96.3%	95%	P	21.1
NW-59	Void for flap and anchor trench	6	onsite borrow	96.4	22.5	12	93.3	112.6	20.7	96.8%	95%	P	20.7
NW-60	Void for flap and anchor trench	6	onsite borrow	96.4	22.5	12	92.4	111.4	20.6	95.8%	95%	P	20.6
NW-61	Void for flap and anchor trench	6	onsite borrow	96.4	22.5	12	92.8	111.7	20.4	96.2%	95%	P	20.4
NW-62	Void for flap and anchor trench	6	onsite borrow	96.4	22.5	12	93.2	112.4	20.6	96.7%	95%	P	20.6
NW-63	Void for flap and anchor trench	6	onsite borrow	96.4	22.5	12	92.8	112.6	21.3	96.3%	95%	P	21.3
NW-64	Void for flap and anchor trench	6	onsite borrow	96.4	22.5	12	91.9	111	20.8	95.3%	95%	P	20.8

RPT # 55

5-18-04

Site Sketch



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-19-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 86 Lo: 65 _____ Clear x Partly _____ Cloudy .09 Precipitation
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 10 Reg. _____ OT Shift: 7 to 6
 (Contractor) Hours Worked: 10 Reg. _____ OT Shift: 7 to 6

General Contractor's Work Force			Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Survey of stripping, stripping, intermediate cover

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 1: Stripping of Vegetation and Unsuitable Soils.

Surveyors on site setting limits of stripping. Contractor on site continuing stripping vegetation from the Phase one area starting at the Southern most portions and working north.

Item No. 2: Undercut, Transport and Stockpile Leachate Saturated Soils, Item No. 12: Excavate Waste and Dispose of within Subtitle D Landfill

Contractor commenced repair of Leachate weeps located on South slope in stripping area.

Item No. 3: Intermediate Cover Material.

Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement.

Item No. 5: LLDPE Installation

Subcontractor Hallaton INC. on site continuing to weld bottom and middle flap. I Continued density testing in the anchor trench / void for bottom flap. Results indicated that all testing was at least 95% of the max dry density.

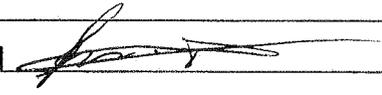
Item No. 6: Geo-composite Installation.

Hallaton continued to place composite on the bottom half of middle flap.

Item No. 7: Excavate, Transport and Install Protective Soil Layer Material.

Contractor commenced placement of protective cover layer at South end of slope. They started at top of slope and pushed downward toward toe of slope using a LGP dozer. The Specification state that the protective cover and vegetative cover material shall be place on slopes starting at the toe of the slope and spreading toward the top of the slope. Contractor was notified of being at his own risk if he continues to place the fill in this manor. Mr. Yanoschak was notified by Mr. Dalton and Mr. Yanoschak stated he would notify Mr. Haverstrom. Contractor has opted to place the protective cover in the above mentioned manor until notified by his superiors. The contractor placed proximately one acre of protective cover material.

Mr. Yanoschak called back to say ha has talk with Mr. Haverstrom and he is going to submit an RFI with Information supporting why he would like to place the protective cover material from the top of

Attachments: Yes No Signed 

Description: _____

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative



<p style="text-align: center;"> CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p>	<p> Sheet No. : 1 of 5 Report #: 56 Date: 05-19-04 Weather: PC low 65 high 86 </p>
<p style="text-align: center;">WORK AND EQUIPMENT</p>	<p style="text-align: center;">VISITORS</p>
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	<p>None</p>
<p>WORK COMPLETED:</p>	<p style="text-align: center;">MATERIALS RECEIVED</p>
<p>Item No. 3: Intermediate Cover Material.</p>	<p>none</p>
<p>Surveyor on site verifying depth of intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement. They worked in the Phase I, II area slope and Flap void. Contractor also excavating anchor trench and tie in area. I performed field density tests on areas ready located in phase I and II anchor trench and bottom flap area. Results accomplished with at least four passes with a 563 smooth drum roller on side slope and with a vibrator Hand compactor (Ram X), in flap area.</p>	<p style="text-align: center;">COMMENT</p>
<p>Item No. 5: LLDPE Installation</p>	<p style="text-align: center;">CORRESPONDING DATA SHEETS</p>
<p>Subcontractor Hallaton INC. on site continuing to weld bottom and middle flap. I Continued density testing in the anchor trench / void for bottom flap. Results indicated that all testing was at least 95% of the max dry density.</p> <p>Item No. 7: Excavate, Transport and Install Protective Soil Layer Material</p> <p>Contractor commenced placement of protective cover layer at South end of slope. They started at top of slope and pushed downward toward toe of slope using a LGP dozer. The Specification state that the protective cover and vegetative cover material shall be place on slopes starting at the toe of the slope and spreading toward the top of the slope. Contractor was notified of being at his own risk if he continues to place the fill in this manor. Mr. Yanoschak was notified by Mr. Dalton and Mr. Yanoschak stated he would notify Mr. Haverstrom. Contractor has opted to place the protective cover in the above mentioned manor until notified by his superiors. The contractor placed approximately one acre of protective cover material. Mr. Yanoschak called back to say ha has talk with Mr. Haverstrom and he is going to submit an RFI with information supporting why he would like to place the protective cover material from the top of slope to the toe of slope. They will be at there own risk until the RFI is reviewed and a decision is made.</p>	<p>Density testing Site Sketch</p>
<p style="text-align: center;">RESULTS:</p>	



ALL results were at least 95% compaction of proctor 96.4 @22.5% moisture, for bottom flap area. All testing meets specification requirements. No moisture corrections were needed on 96.4 materials. I did perform moisture correction on some or all of the 96.4 material but in the future when testing this material I will only perform random moisture just for a check. Attached results

BY: 

APPROVED BY: *R.E. Gustafson*

CQA INSPECTOR

CERTIFYING ENGINEER

REVIEWED BY:

PROJECT ENGINEER



Field Density Test Summary

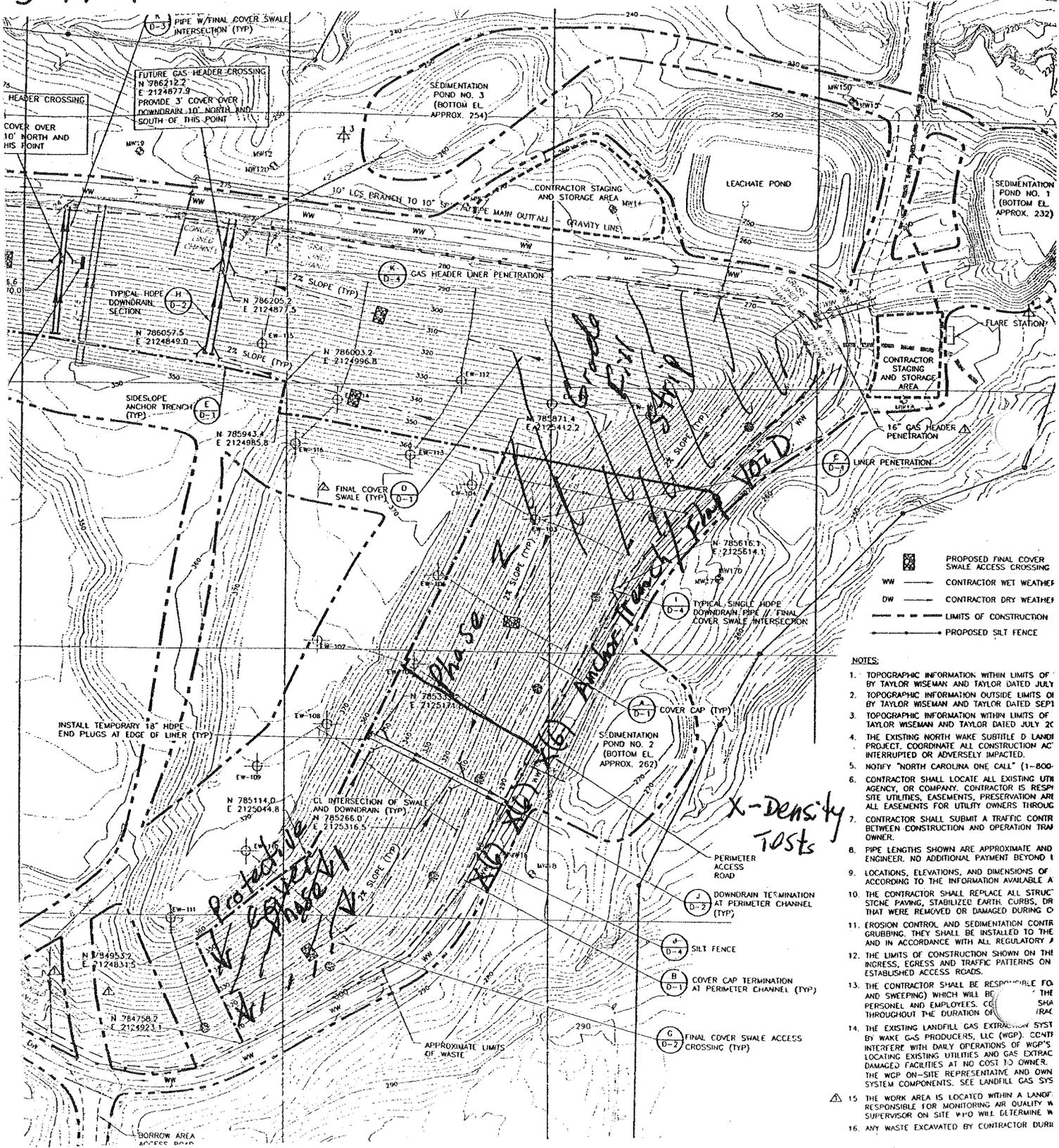
Client: <u>North Wake</u>		Date: <u>May 19, 2004</u>		Page: <u>1 of 1</u>	
Project Name: <u>Phase I closure</u>		Technician: <u>Bion Dalton</u>			
Project Location: <u>North Wake Landfill</u>		DS = <u>2400</u>		Issing = <u>0.4%</u>	
Project Number: <u>6172-42378</u>		MS = <u>674</u>		Issing = <u>0.4%</u>	
		Troloxer Gauge No./Type		<u>3440.no. 30129</u>	
General Contractor: <u>Thalle</u>		Compaction Achieved (%)		Status	
Earthwork Contractor: <u>Thalle</u>		Compaction Required (%)		P / F	
		Comments		Corrected Moisture	

Test No.	Location	Elevation, Depth (ft) or Lift No.	Laboratory Test Results			Field Test Results			Moisture Content (%)	Comments	
			Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (in)	Dry Density (pcf)	Wet Density (pcf)	Moisture Content (%)			
NW-65	Void for flap and anchor trench	1	96.4	22.5	6	92.7	113	21.9	95%	P	21.9
NW-66	Void for flap and anchor trench	1	96.4	22.5	6	93.1	113.2	21.6	95%	P	21.6
NW-67	Void for flap and anchor trench	1	96.4	22.5	6	92.8	112.9	21.6	95%	P	21.6
NW-68	Void for flap and anchor trench	2	96.4	22.5	6	92.8	112.5	21.2	95%	P	21.2
NW-69	Void for flap and anchor trench	2	96.4	22.5	6	92.2	112.6	22.1	95%	P	22.1
NW-70	Void for flap and anchor trench	2	96.4	22.5	6	92.5	112.5	21.6	95%	P	21.6
NW-71	Void for flap and anchor trench	3	96.4	22.5	6	93.3	113.1	21.2	95%	P	21.2
NW-72	Void for flap and anchor trench	3	96.4	22.5	6	93.7	113.4	21	95%	P	21
NW-73	Void for flap and anchor trench	3	96.4	22.5	6	91.9	112.4	22.3	95%	P	22.3
NW-74	Void for flap and anchor trench	3	96.4	22.5	6	92.4	112.8	22.1	95%	P	22.1
NW-75	Void for flap and anchor trench	4	96.4	22.5	6	92.3	112.3	21.7	95%	P	21.7
NW-76	Void for flap and anchor trench	4	96.4	22.5	6	91.6	111.9	22.1	95%	P	22.1
NW-77	Void for flap and anchor trench	4	96.4	22.5	6	92.5	112.4	21.5	95%	P	21.5
NW-78	Void for flap and anchor trench	5	96.4	22.5	6	93.1	112.9	21.3	95%	P	21.3
NW-79	Void for flap and anchor trench	5	96.4	22.5	6	92.9	113.1	21.8	95%	P	21.8
NW-80	Void for flap and anchor trench	5	96.4	22.5	6	92.0	112.8	22.6	95%	P	22.6
NW-81	Void for flap and anchor trench	6	96.4	22.5	6	91.7	112.3	22.4	95%	P	22.4
NW-82	Void for flap and anchor trench	6	96.4	22.5	6	91.8	112.4	22.4	95%	P	22.4
NW-83	Void for flap and anchor trench	6	96.4	22.5	6	93.1	112.9	21.3	95%	P	21.3

Note: Moistures in comment section in bold and bigger font were checked

RPT # 56
5-19-4

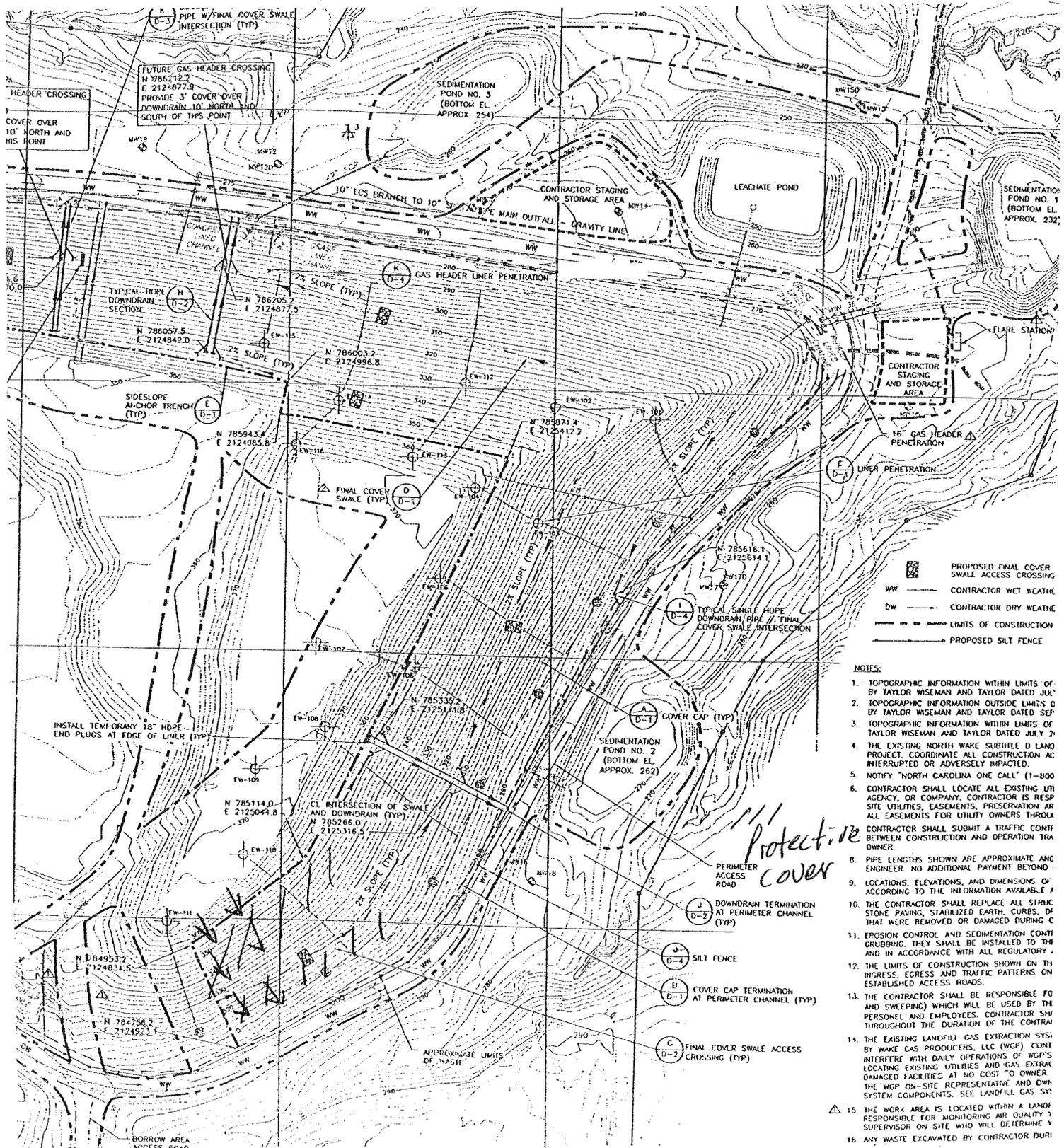
Site Sketch



- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JULY
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED SEPT
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY 20
 4. THE EXISTING NORTH WAKE SUBTILE D LANDF PROJECT, COORDINATE ALL CONSTRUCTION AC INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800-
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY AGENCY, OR COMPANY. CONTRACTOR IS RESPI SITE UTILITIES, EASEMENTS, PRESERVATION ARE ALL EASEMENTS FOR UTILITY OWNERS THROUG
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTR BETWEEN CONSTRUCTION AND OPERATION TRAW OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AND ENGINEER. NO ADDITIONAL PAYMENT BEYOND 1
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS A ACCORDING TO THE INFORMATION AVAILABLE A
 10. THE CONTRACTOR SHALL REPLACE ALL STRUCTURE PAVING, STABILIZED EARTH CURBS, OR THAT WERE REMOVED OR DAMAGED DURING C
 11. EROSION CONTROL AND SEDIMENTATION CONTR GRUBBING, THEY SHALL BE INSTALLED TO THE AND IN ACCORDANCE WITH ALL REGULATORY #
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THE INGRESS, EGRESS AND TRAFFIC PATTERNS ON ESTABLISHED ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FO AND SWEEPING) WHICH WILL BE THE PERSONNEL AND EMPLOYEES, CCE SSHA THROUGHOUT THE DURATION OF
 14. THE EXISTING LANDFILL GAS EXTRACTION SYST BY WAKE GAS PRODUCERS, LLC (WGP). CONTR INTERFERE WITH DAILY OPERATIONS OF WGP'S LOCATING EXISTING UTILITIES AND GAS EXTRAC DAMAGED FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND OWN SYSTEM COMPONENTS. SEE LANDFILL GAS SYS
 15. THE WORK AREA IS LOCATED WITHIN A LANDF RESPONSIBLE FOR MONITORING AIR QUALITY W SUPERVISOR ON SITE WHO WILL DETERMINE W
 16. ANY WASTE EXCAVATED BY CONTRACTOR DURIN

5-19-4

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- WW CONTRACTOR WET WEATHER
- DW CONTRACTOR DRY WEATHER
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JUN 2007
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED SEP 2007
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY 2007
 4. THE EXISTING NORTH WAKE SUBTITLE D LAND PROJECT. COORDINATE ALL CONSTRUCTION AC INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800-458-7233) PRIOR TO ANY EXCAVATION.
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY LINES, EGRESS AND TRAFFIC PATTERNS ON ESTABLISHED ACCESS ROADS.
 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SWEEPING) WHICH WILL BE USED BY THE PERSONNEL AND EMPLOYEES. CONTRACTOR SHALL THROUGHOUT THE DURATION OF THE CONTRACT.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AND ENGINEER. NO ADDITIONAL PAYMENT BEYOND ACCORDING TO THE INFORMATION AVAILABLE.
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF THE CONTRACTOR SHALL REPLACE ALL STRUCTURE STONE PAVING, STABILIZED EARTH, CURBS, DE THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
 10. EROSION CONTROL AND SEDIMENTATION CONTROL GRUBBING. THEY SHALL BE INSTALLED TO THE AND IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
 11. THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING ARE SUBJECT TO CHANGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES AND GAS EXTRACTION FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND OWN SYSTEM COMPONENTS. SEE LANDFILL GAS SYSTEM COMPONENTS.
 12. THE WORK AREA IS LOCATED WITHIN A LANDFILL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AIR QUALITY AND RESPONSIBLE FOR MONITORING AIR QUALITY AND RESPONSIBLE FOR MONITORING AIR QUALITY.
 13. ANY WASTE EXCAVATED BY CONTRACTOR DURING

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-20-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 87 Lo: 64 _____ Clear Partly _____ Cloudy 0 Precipitation _____
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 10 Reg. _____ OT Shift: 7 to 6

(Contractor) Hours Worked: 10 Reg. _____ OT Shift: 7 to 6

General Contractor's Work Force			Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Survey of stripping, stripping, intermediate cover, LLDPE QC, BOOT placement, flap, Geo-composite

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 1: Stripping of Vegetation and Unsuitable Soils.

Surveyors on site setting limits of stripping. Contractor on site continuing stripping vegetation along the Phase 2 and Phase 3 area starting at the Southern most portions and working north and from the Northeast corner working west.

Item No. 2: Undercut, Transport and Stockpile Leachate Saturated Soils, Item No. 12:

Excavate Waste and Dispose of within Subtitle D Landfill

Contractor continued repair of Leachate weeps located on South slope in stripping area.

Item No. 3: Intermediate Cover Material.

Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement.

Item No. 5: LLDPE Installation

Subcontractor Hallaton INC. on site welding flaps. They also continued deployment of LLDPE, P-55 through P-72. Contractor backfilling and excavating anchor trench and Void for bottom flap. Mr. Yanoschak on site today at request of Contractor. They are trying to resolve the on going issue with the bottom anchor trench and flap tie in area. There seems to be more excavation than is given on plans and contractor would like to be compensated for it. Mr. Yanoschak and Contractor will discuss the details. While on site Mr. Yanoschak stressed his concerns about not enough fill in Flap void area that the drainage system would be down in out side drainage ditch to far and system would not drain properly. When talking with contractor he stated he is going to put more fill in those low areas. He needed some were for his Liner crew to weld so he gave them the next flap area that was not completely filled. He stated that he can flip flap and place the rest of the fill. I will be checking and updating Mr. Yanoschak as the filling takes place.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor stockpiling screened material in preparation of Protective cover placement.

Attachments: Yes No

Signed 

Description:

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

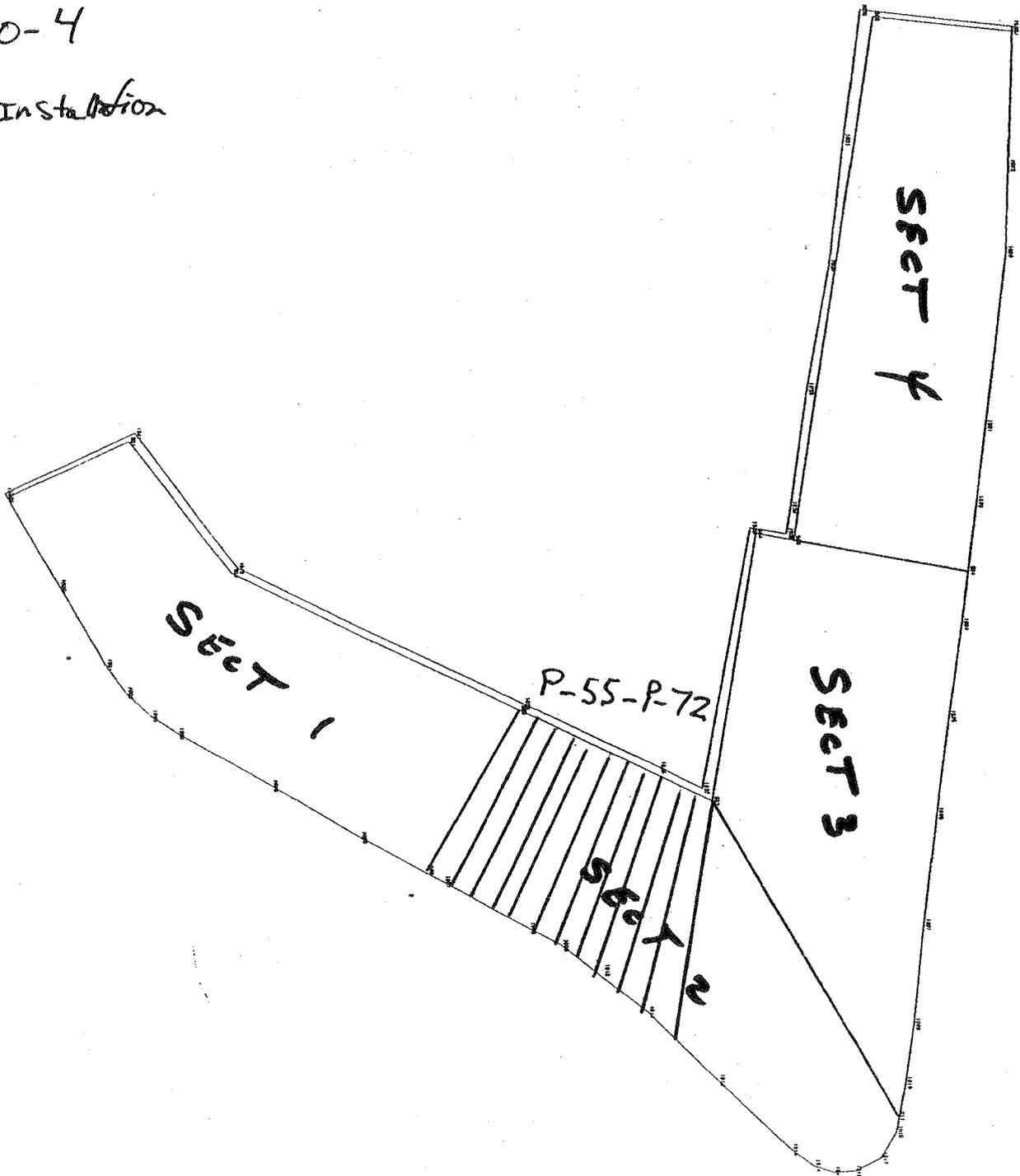
CDM

Site Sketch

Rpt # 57

5-20-4

Liner Installation

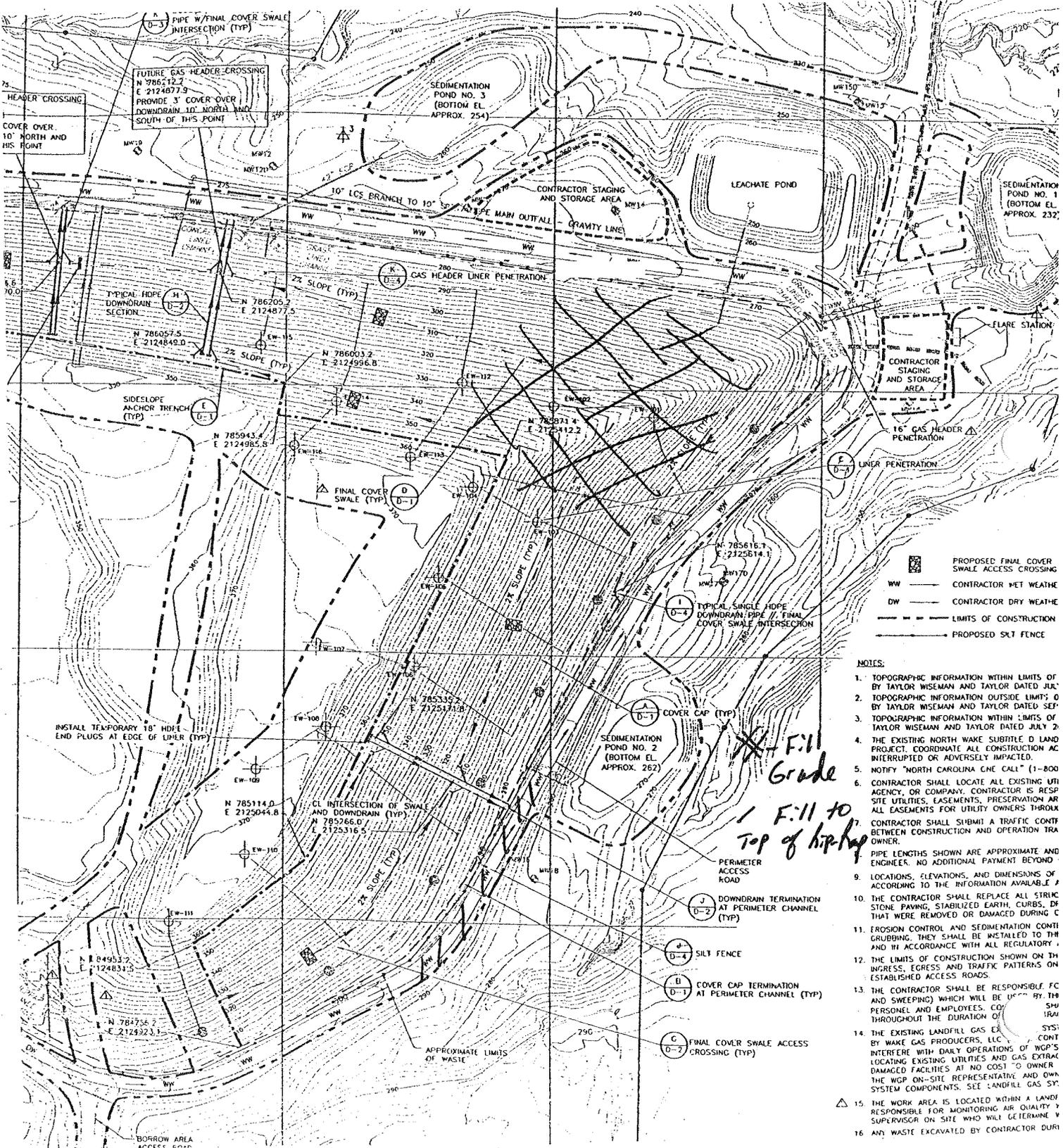




<p>Sheet No. : 1 of 2 Report #: 57 Date: 05-20-04 Weather: PC low 64 high 87</p>	<p>CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>
<p>VISITORS</p>	<p>WORK AND EQUIPMENT</p>
<p>None</p>	<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>
<p>MATERIALS RECEIVED</p>	<p>WORK COMPLETED:</p>
<p>none</p>	<p>Item No. 3: Intermediate Cover Material. Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement. They worked in the Phase I, II area slope and Flap void. Contractor also excavating anchor trench and tie in area. No density tests performed today.</p>
<p>COMMENT</p>	<p>Item No. 5: LLDPE Installation Contractor pulled back liner and composite in phase I and II area where fill needed to come up. (ref. rpt # 56), and commenced to place fill to proper elevation.</p>
<p>CORRESPONDING DATA SHEETS</p>	<p>Item No. 7: Excavate, Transport and Install Protective Soil Layer Material Contractor continued stockpiling protective cover material.</p>
<p>Site Sketch</p>	<p>RESULTS: No density testing today.</p>
<p>APPROVED BY: <i>K.E. B...</i></p>	<p>BY: <i>[Signature]</i></p>
<p>CERTIFYING ENGINEER</p>	<p>CQA INSPECTOR</p>
<p></p>	<p>REVIEWED BY:</p>
<p></p>	<p>PROJECT ENGINEER</p>

5-20-4

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- CONTRACTOR WET WEATH
- CONTRACTOR DRY WEATH
- LIMITS OF CONSTRUCTION
- PROPOSED SITE FENCE

- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JUL 2007
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED SEP 2007
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY 2007
 4. THE EXISTING NORTH WAKE SUBTITLE D LAND PROJECT. COORDINATE ALL CONSTRUCTION AC INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800-452-4521)
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY AGENCY, OR COMPANY. CONTRACTOR IS RESPONSIBLE FOR PRESERVATION OF ALL EASEMENTS FOR UTILITY OWNERS THROUGHOUT CONSTRUCTION AND OPERATION PERIOD.
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AND ENGINEER. NO ADDITIONAL PAYMENT BEYOND CONTRACT SHALL BE REQUIRED.
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL STRUCTURES SHALL BE ACCORDING TO THE INFORMATION AVAILABLE TO THE CONTRACTOR.
 10. THE CONTRACTOR SHALL REPLACE ALL STRIP STONE PAVING, STABILIZED EARTH, CURBS, ETC. THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
 11. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO THE WORK AREA AND IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS SKETCH ARE BASED ON THE INFORMATION AVAILABLE TO THE CONTRACTOR.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SWEEPING WHICH WILL BE USED BY THE CONTRACTOR AND EMPLOYEES, CONTRACTORS, AND SUBCONTRACTORS THROUGHOUT THE DURATION OF THE PROJECT.
 14. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM SHALL BE MAINTAINED AND NOT INTERFERED WITH DAILY OPERATIONS OF THE WGP'S EXISTING UTILITIES AND GAS EXTRACTION FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND OWNERS SHALL BE RESPONSIBLE FOR MONITORING AIR QUALITY AND WASTE EXCAVATED BY CONTRACTOR DURING CONSTRUCTION.

*Fill Grade
1 F:11 TO
Top of hip/hog*

- DOWNSTREAM TERMINATION AT PERIMETER CHANNEL (TYP)
- SILTY FENCE
- COVER CAP TERMINATION AT PERIMETER CHANNEL (TYP)
- FINAL COVER SWALE ACCESS CROSSING (TYP)

INSTALL TEMPORARY 18" HDPE END PLUGS AT EDGE OF LINER (TYP)

CL INTERSECTION OF SWALE AND DOWNDRAIN (TYP)

APPROXIMATE LIMITS OF WASTE

BORROW AREA

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-21-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 93 Lo: 68 _____ Clear x Partly _____ Cloudy 0 Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 10 Reg. _____ OT Shift: 7 to 6

(Contractor) Hours Worked: 10 Reg. _____ OT Shift: 7 to 6

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Survey of stripping, stripping, intermediate cover, LLDPE QC, BOOT placement, flap, geo-composite

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 1: Stripping of Vegetation and Unsuitable Soils.

Surveyors on site setting limits of stripping. Contractor on site continuing stripping vegetation along the Phase and Phase 3 area starting at the Southern most portions and working north and from the Northeast corner working west.

Item No. 3: Intermediate Cover Material.

Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement.

Item No. 5: LLDPE Installation

Subcontractor Hallaton INC. on site welding flaps. Contractor backfilling and excavating anchor trench and Void for bottom flap.

Item No. 6: Geo-composite Installation.

Sub-contractor, Hallaton, continued placement and welding of geo-composite.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor stockpiling screened material in preparation of Protective cover placement.

Attachments: Yes ^{S&C}
x _{COA RPT.} No _____ Signed _____

Description: _____

(Pipe Test Reports, Concrete Placement Reports, etc.)

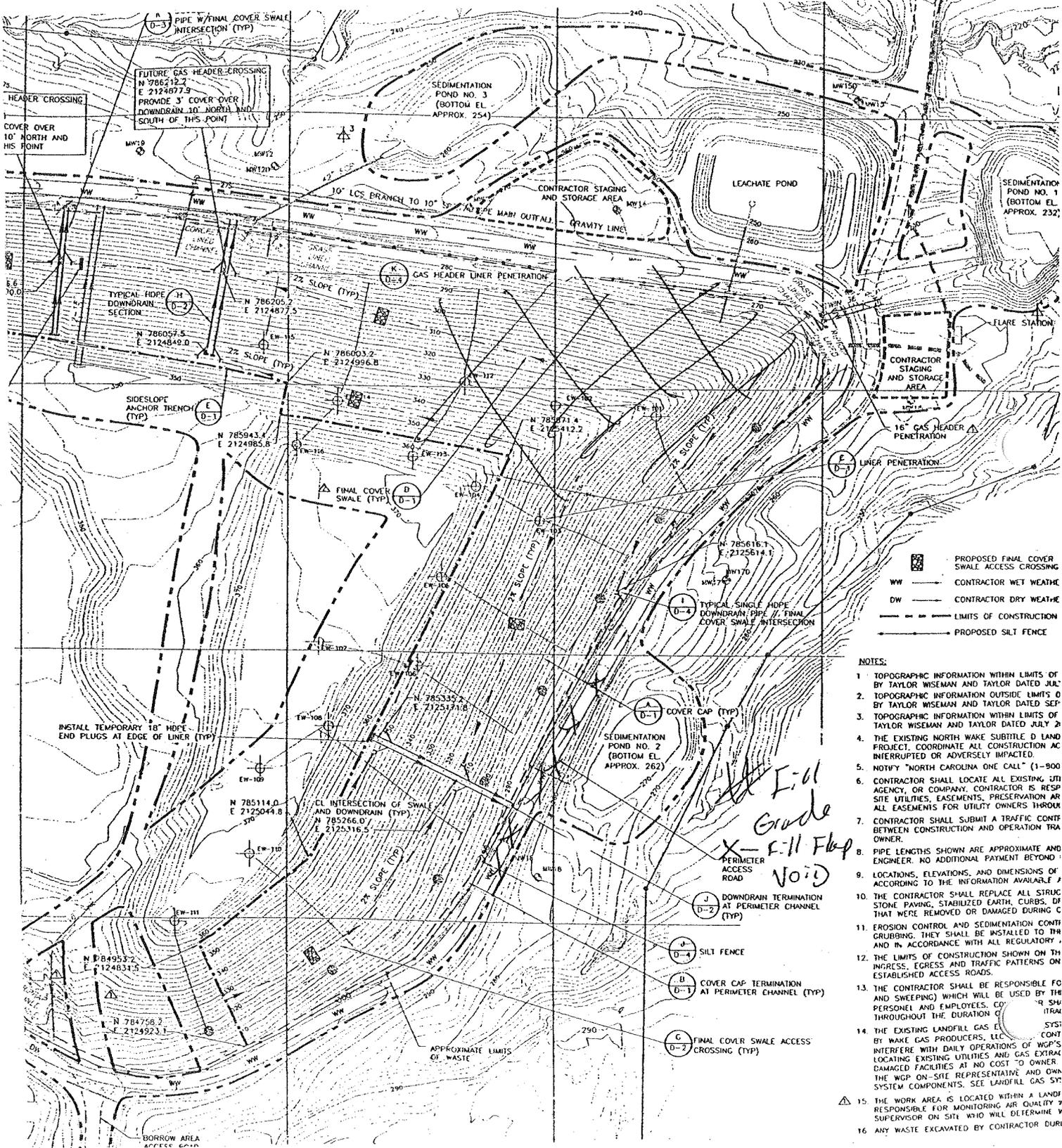
This report to be completed daily by each Project Representative



<p>Sheet No.: 1 of 2 Report #: 58 Date: 05-21-04 Weather: PC low 68 high 93</p>	<p align="center">CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>
<p align="center">VISITORS</p>	<p align="center">WORK AND EQUIPMENT</p>
<p>None</p>	<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>
<p align="center">MATERIALS RECEIVED</p>	<p>WORK COMPLETED:</p>
<p>none</p>	<p>Item No. 3: Intermediate Cover Material. Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement. They worked in the Phase I, II area slope and Flap void. Contractor also excavating anchor trench and tie in area. No density tests performed today.</p>
<p align="center">COMMENT</p>	<p>Item No. 5: LLDPE Installation Contractor continued to place fill in phase I and II area where fill needed to come up in flap void area to drain properly. (ref. rpt # 56),</p>
<p>None</p>	<p>Item No. 7: Excavate, Transport and Install Protective Soil Layer Material Contractor continued stockpiling protective cover material.</p>
<p align="center">CORRESPONDING DATA SHEETS</p>	<p>RESULTS: No density testing today.</p>
<p>Site Sketch</p>	<p>BY: </p>
<p>APPROVED BY:</p>	<p align="center"></p>
<p>CERTIFYING ENGINEER</p>	<p align="center">CQA INSPECTOR</p>
<p> </p>	<p>REVIEWED BY:</p>
<p> </p>	<p align="center">PROJECT ENGINEER</p>

5-21-04

Site Sketch



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-22-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 87 Lo: 67 Clear x Partly Cloudy 0 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: _____ Reg.8 _____ OT Shift: 7 to 3:30

(Contractor) Hours Worked: _____ Reg.8 _____ OT Shift: 7 to 3:30

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Survey of stripping, stripping, intermediate cover, LLDPE QC, BOOT placement, flap, geo-composite

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 3: Intermediate Cover Material.

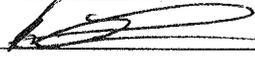
Contractor placing fill and grading site in preparation of liner placement, placing fill on the North slope at the East end and compacting on the North east slope working North west.

Item No. 5: LLDPE Installation

Subcontractor Hallaton INC. on site welding flaps. Contractor backfilling and excavating anchor trench and Void for bottom flap.

Item No. 6: Geo-composite Installation.

Sub-contractor, Hallaton, continued placement and welding of geo-composite.

Attachments: Yes 300 X LRA Rpt No Signed 

Description: _____

(Pipe Test Reports, Concrete Placement Reports, etc.)

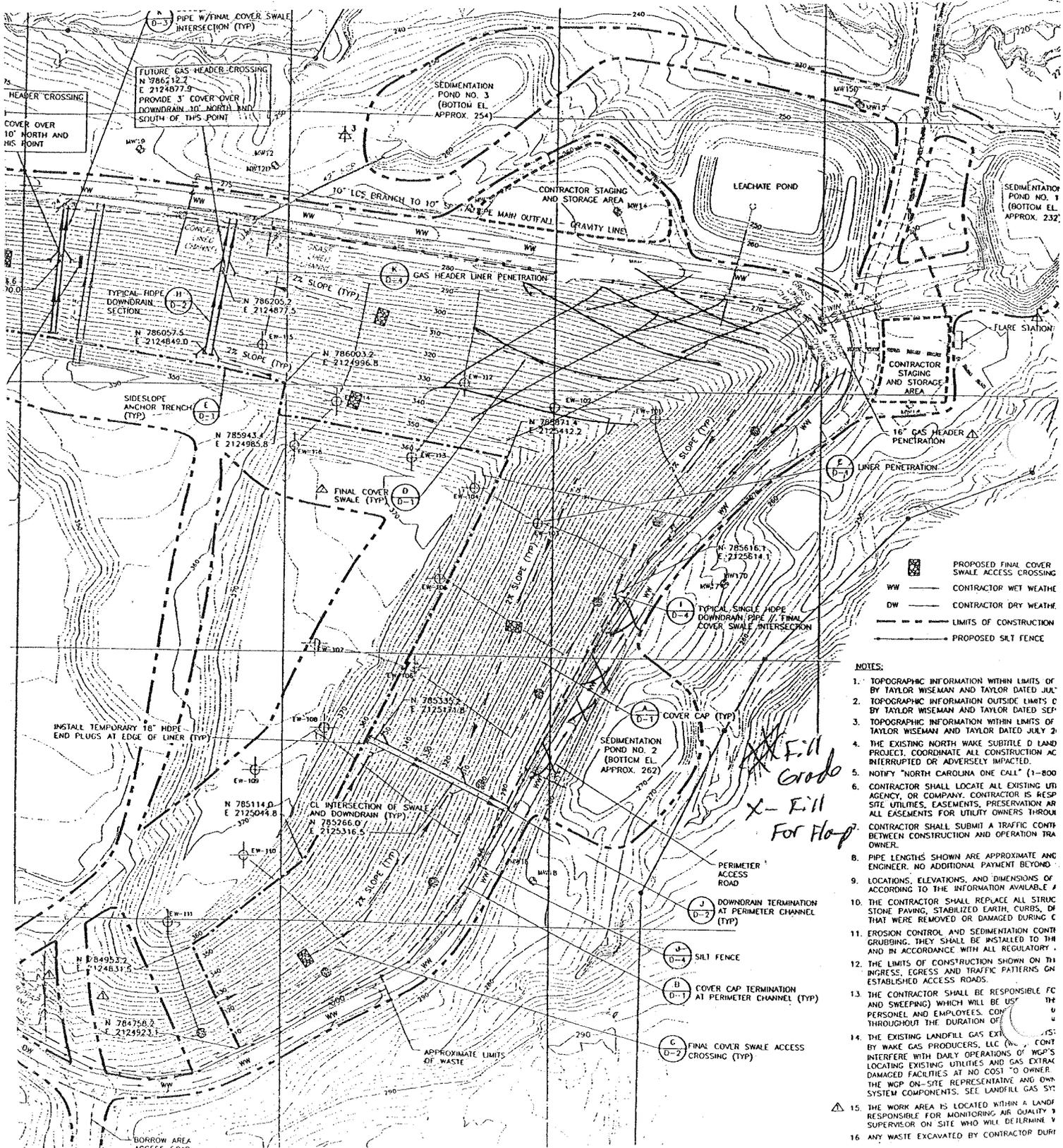
This report to be completed daily by each Project Representative



<p>Sheet No. : 1 of 2 Report #: 59 Date: 05-22-04 Weather: PC low 67 high 87</p>	<p align="center">CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>
<p align="center">VISITORS</p>	<p align="center">WORK AND EQUIPMENT</p>
<p>None</p>	<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>
<p>none</p>	<p>WORK COMPLETED:</p>
<p align="center">COMMENT</p>	<p>Item No. 3: Intermediate Cover Material. Surveyor on site verifying depth of intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement. They worked in the Phase II area slope and Flap void. Contractor also excavating anchor trench and tie in area. No density tests performed today.</p>
<p align="center">CORRESPONDING DATA SHEETS</p>	<p>Item No. 5: LLDPE Installation Contractor continued to place fill in phase I and II area where fill needed to come up in flap void area to drain properly. (ref. rpt # 56),</p> <p>Item No. 7: Excavate, Transport and Install Protective Soil Layer Material Contractor continued stockpiling protective cover material.</p>
<p>Site Sketch</p>	<p>RESULTS: No density testing today.</p>
<p align="center">APPROVED BY: <i>X.E. Bussio</i></p>	<p align="center"><i>[Signature]</i></p>
<p align="center">CERTIFYING ENGINEER</p>	<p align="center">CQA INSPECTOR</p>
<p> </p>	<p align="center">PROJECT ENGINEER</p>
<p> </p>	<p> </p>

05-22-04

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- CONTRACTOR WET WEATHER
- CONTRACTOR DRY WEATHER
- LIMITS OF CONSTRUCTION
- PROPOSED SLIT FENCE

- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JUL 2003.
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED SEP 2003.
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY 2003.
 4. THE EXISTING NORTH WAKE SUBTITLE D LAND PROJECT. COORDINATE ALL CONSTRUCTION AS INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800-458-7233) PRIOR TO CONSTRUCTION.
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY AGENCIES, OR COMPANY, CONTRACTOR IS RESPONSIBLE FOR PRESERVATION AND PROTECTION OF ALL EASEMENTS FOR UTILITY OWNERS THROUGHOUT THE DURATION OF THE PROJECT.
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN BETWEEN CONSTRUCTION AND OPERATION TO THE OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AND ENGINEER. NO ADDITIONAL PAYMENT BEYOND CONTRACT SHALL BE REQUIRED.
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF CONSTRUCTION SHALL BE AS SHOWN ON THIS DRAWING AND ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER.
 10. THE CONTRACTOR SHALL REPLACE ALL STRUCTURE STONE PAVING, STABILIZED EARTH, CURBS, OR THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
 11. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO THE MAXIMUM AND IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL BE MAINTAINED THROUGHOUT THE PROJECT. EGRESS AND TRAFFIC PATTERNS ON ESTABLISHED ACCESS ROADS SHALL BE MAINTAINED.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL PERSONNEL AND EMPLOYEES, CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT.
 14. THE EXISTING LANDFILL GAS EXHAUSTION SYSTEMS SHALL NOT BE INTERFERED WITH DAILY OPERATIONS OF WASTE HANDLING EXISTING UTILITIES AND GAS EXTRACTION FACILITIES AT NO COST TO OWNER. THE WSP ON-SITE REPRESENTATIVE AND OWNER SHALL BE RESPONSIBLE FOR MONITORING AND MAINTENANCE OF THE SYSTEM COMPONENTS. SEE LANDFILL GAS SYSTEM DRAWING FOR DETAILS.
 15. THE WORK AREA IS LOCATED WITHIN A LANDFILL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AIR QUALITY AND SOIL QUALITY. A SUPERVISOR ON SITE WHO WILL DETERMINE WHEN TO STOP WORK SHALL BE REQUIRED.
 16. ANY WASTE EXCAVATED BY CONTRACTOR DURING CONSTRUCTION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED LOCATION.



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-23-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi _____ Lo: _____ Clear _____ Partly _____ Cloudy _____ Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

(Contractor) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes				
Superintendent			Loader Backhoes				
Engineer			F.E. Loaders				
Foreman			Dozers				
Asst. Foreman			Grader				
Equip. Operators			Dump Trucks				
Masons			Pick-up Trucks				
Pipelayers			Cars				
Laborers			Compactors				
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flagpeople			Well Point Systems				
Surveyors			Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total		*	Total		*		*

*Designates subcontractors

Activity and Location: No work performed by contractor or RPR

Defective work noted today to be corrected later: _____



CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT		Sheet No. : 1 of 1 Date: 05-23-04 Weather:	Report #: 60 low high
WORK AND EQUIPMENT		VISITORS	
EQUIPMENT:		None	
WORK COMPLETED: Not a scheduled work day.		MATERIALS RECEIVED	
RESULTS:		None	
		COMMENT	
		None	
		CORRESPONDING DATA SHEETS	
BY:		APPROVED BY: K.E. Buzzaie	
REVIEWED BY:	CQA INSPECTOR	CERTIFYING ENGINEER	
	PROJECT ENGINEER		

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-24-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 90 Lo: 69 _____ Clear Partly _____ Cloudy 0 Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

(Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Survey of stripping, stripping, intermediate cover, LLDPE QC, BOOT placement, flap, Geo-composite

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 3: Intermediate Cover Material.

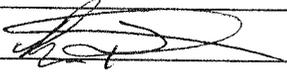
Contractor placing fill and grading site in preparation of liner placement, placing fill on the North slope at the East end and compacting on the North east slope working North West.

Item No. 5: LLDPE Installation

Subcontractor Hallaton INC. on site welding flaps continued deployment of composite on bottom of east slope, completed top flap approx. 7 feet wide and 386 feet long. Unloaded one truck of LLDPE 40 mil geo-membrane. Contractor backfilling and excavating anchor trench and Void for bottom flap.

Item No. 6: Geo-composite Installation.

Sub-contractor, Hallaton, continued placement and welding of geo-composite.

Attachments: Yes ^{COA}_{let} No Signed 

Description: _____

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

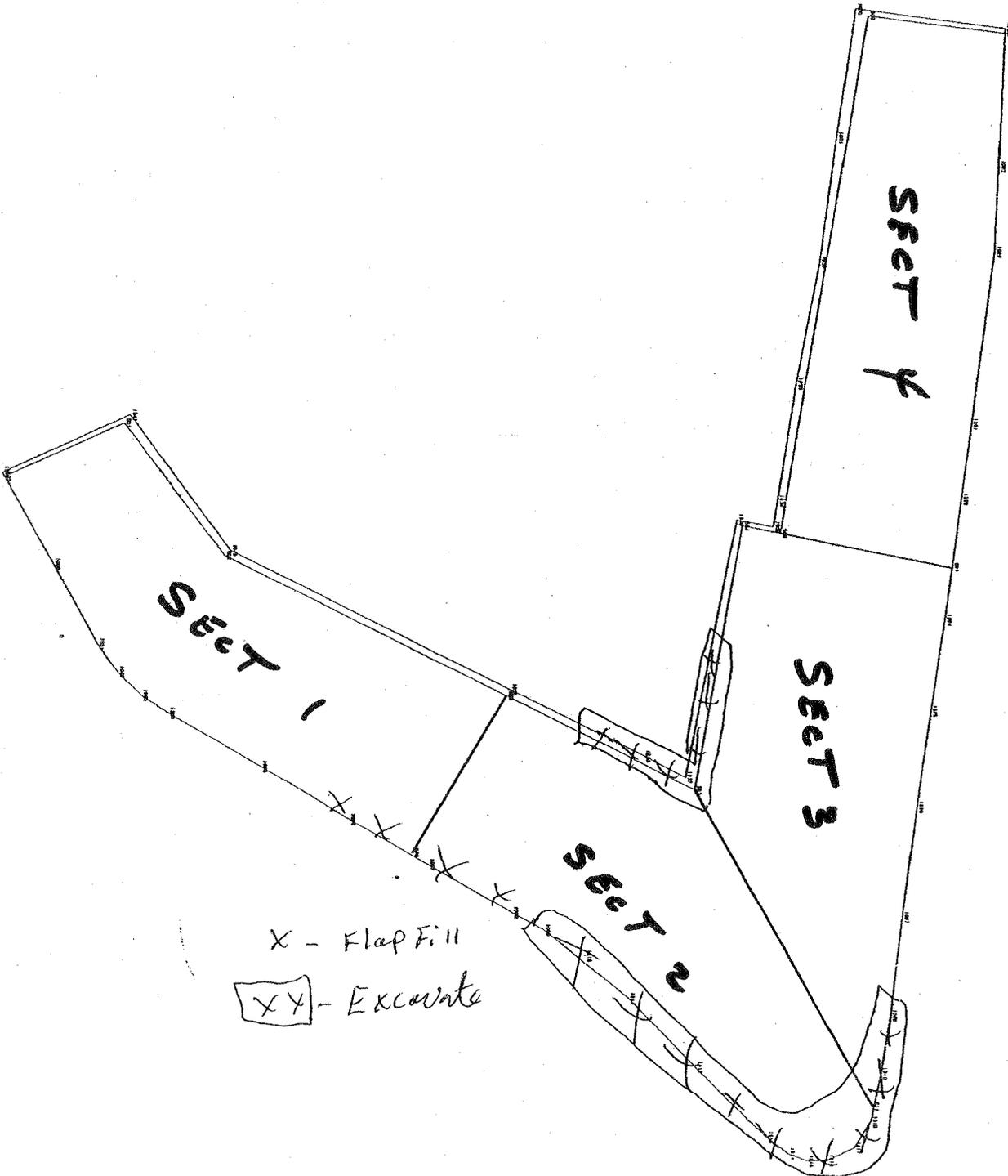


<p>Sheet No. : 1 of 2 Report #: 61 Date: 05-24-04 Weather: PC low 69 high 90</p>	<p>CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>
<p>VISITORS</p>	<p>WORK AND EQUIPMENT</p>
<p>None</p>	<p><u>EQUIPMENT:</u> CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>
<p>none</p>	<p><u>WORK COMPLETED:</u></p>
<p>COMMENT</p>	<p><u>Item No. 3: Intermediate Cover Material.</u> Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement. They worked in the Phase II area slope and Flap void. Contractor also excavating anchor trench and tie in area. No density tests performed today.</p>
<p>None</p>	<p><u>Item No. 5: LLDPE Installation</u> Contractor continued to place fill in phase I and II area where fill needed to come up in flap void area to drain properly. (ref. rpt # 56),</p>
<p>CORRESPONDING DATA SHEETS</p>	<p><u>Item No. 7: Excavate, Transport and Install Protective Soil Layer Material</u> Contractor continued stockpiling protective cover material.</p>
<p>Site Sketch</p>	<p><u>RESULTS:</u> No density testing today.</p>
<p>APPROVED BY:</p>	<p>BY: </p>
<p>CERTIFYING ENGINEER</p>	<p>CQA INSPECTOR</p>
<p></p>	<p>REVIEWED BY:</p>
<p></p>	<p>PROJECT ENGINEER</p>

CDM

5-24-4

Site Sketch



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-25-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 93 Lo: 70 _____ Clear Partly _____ Cloudy 0 Precipitation _____
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00
 (Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Survey of stripping, stripping, LLDPE QC, BOOT placement, flap, Geo-composite

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 3: Intermediate Cover Material.

Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill in phase III and grading site in preparation of liner placement.

Item No. 5: LLDPE Installation

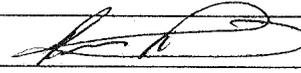
Subcontractor Hallaton INC. on site placing LLDPE. They placed 222,555 sq. ft. in the phase II Phase III area (P-73—P-131). Contractor Thalle construction co. inc. placing fill in flap void/ anchor trench.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor stockpiling screened material in preparation of Protective cover placement

Attachments: Yes No

Signed



Description:

(Pipe Test Reports, Concrete Placement Reports, etc.)

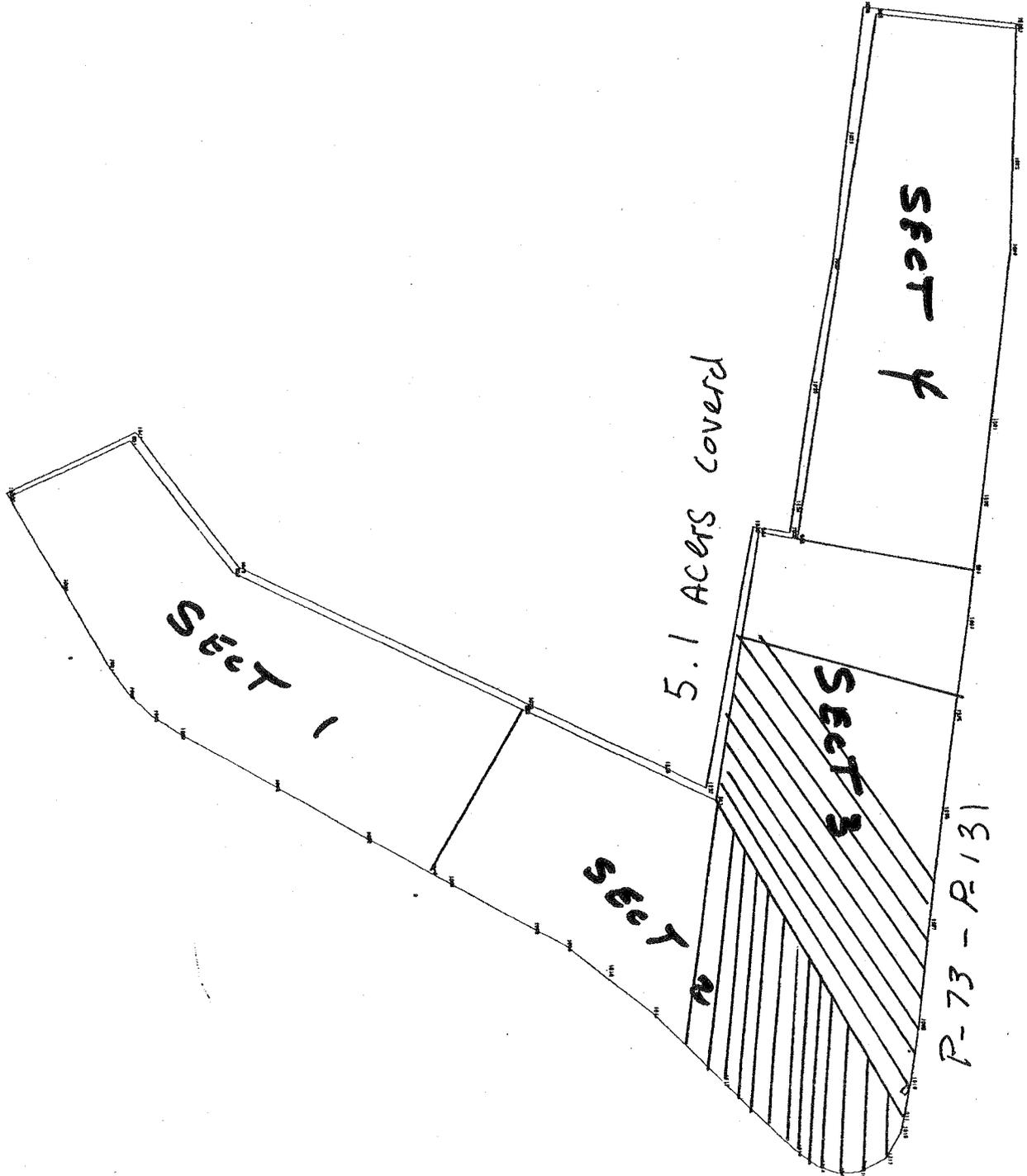
This report to be completed daily by each Project Representative

CDM

Site Sketch

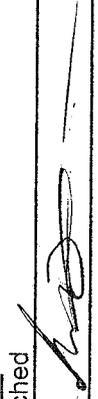
5-25-04

RPT #



P-73 - P.131



<p align="center"> CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p>		Sheet No.: 1 of 4 Report #: 62 Date: 05-25-04 Weather: PC low 69 high 90
<p align="center">WORK AND EQUIPMENT</p>		<p align="center">VISITORS</p>
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>		<p align="center">None</p>
<p>WORK COMPLETED:</p> <p>Item No. 3: Intermediate Cover Material. Surveyor on site verifying depth of intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement. They worked in the Phase I, II area slope and Flap void. Contractor also excavating anchor trench and tie in area. I performed field density tests on areas ready located in phase I and II anchor trench and bottom flap area. Results accomplished with at least four passes with a 563 smooth drum roller on side slope. Density tests performed see results attached.</p> <p>Item No. 5: LLDPE Installation Subcontractor Hallaton INC. on site continuing to place liner. Density tests were performed prior to liner placement, see attached results.</p> <p>Item No. 7: Excavate, Transport and Install Protective Soil Layer Material Contractor continued stockpiling protective cover material.</p>		<p align="center">MATERIALS RECEIVED</p> <p align="center">none</p> <p align="center">COMMENT</p> <p align="center">CORRESPONDING DATA SHEETS</p> <p align="center">Site Sketch Density results</p>
<p>BY: </p>		<p align="center">APPROVED BY: </p>
<p align="center">CQA INSPECTOR</p>		<p align="center">CERTIFYING ENGINEER</p>
<p>REVIEWED BY:</p>		
<p align="center">PROJECT ENGINEER</p>		



Field Density Test Summary

Client: <u>North Wake</u>	Date: <u>May 25, 2004</u>	Page: <u>1 of 1</u>
Project Name: <u>Phase I closure</u>	Technician: <u>Bion Dalton</u>	
Project Location: <u>North Wake Landfill</u>	DS = <u>2406</u> Passing = <u>- 1.4%</u>	
Project Number: <u>6172-42378</u>	MS = <u>667</u> Passing = <u>0%</u>	
	Trolox Gauge No./Type: <u>3440.no. 30128</u>	

Test No.	Location	Elevation, Depth (ft) or Lift No.	Laboratory Test Results			Field Test Results			Compaction Achieved (%)	Compaction Required (%)	Status P / F	Comments Corrected Moisture
			Off-Site Borrow Source	Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (in)	Dry Density (pcf)	Wet Density (pcf)				
NW-84	Sub-grade in Phase II and III	1+2	onsite borrow	108.2	16.0	12	103.2	119.9	20	95.4%	P	16.2
NW-85	Sub-grade in Phase II and III	1+2	onsite borrow	108.2	16.0	12	103.3	119.2	19.2	95.5%	P	15.4
NW-86	Sub-grade in Phase II and III	1+2	onsite borrow	108.2	16.0	12	103.9	118.8	19.4	96.0%	P	15.3
NW-87	Sub-grade in Phase II and III	1+2	onsite borrow	108.2	16.0	12	104.3	119.5	19.8	96.4%	P	14.6
NW-88	Sub-grade in Phase II and III	1+2	onsite borrow	108.2	16.0	12	103.5	118.7	15.9	95.6%	P	15.7
NW-89	Sub-grade in Phase II and III	1+2	onsite borrow	108.2	16.0	12	104.9	119.9	16.8	96.9%	P	14.3
NW-90	Sub-grade in Phase II and III	1+2	onsite borrow	108.2	16.0	12	103.9	119.5	18.1	96.0%	P	15
NW-91	Sub-grade in Phase II and III	1+2	onsite borrow	108.2	16.0	12	103.3	119.4	16.4	95.5%	P	15.6
NW-92	Sub-grade in Phase II and III	1+2	onsite borrow	108.2	16.0	12	104.3	119.8	15.6	96.4%	P	14.9
NW-93	Sub-grade in Phase II and III	1+2	onsite borrow	108.2	16.0	12	104.6	119.8	16.2	96.7%	P	14.5
NW-94	Sub-grade in Phase II and III	1+2	onsite borrow	108.2	16.0	12	103.8	118.9	16.8	95.9%	P	14.6
NW-95	Sub-grade in Phase II and III	1+2	onsite borrow	108.2	16.0	12	103.1	118.5	17	95.3%	P	14.9
NW-96	Sub-grade in Phase II and III	1+2	onsite borrow	108.2	16.0	12	103.6	118.6	16.5	95.9%	P	14.3
NW-97	Sub-grade in Phase II and III	1+2	onsite borrow	108.2	16.0	12	104.2	118.8	18.3	96.3%	P	14
NW-98	Sub-grade in Phase II and III	1+2	onsite borrow	108.2	16.0	12	103.3	119	16.6	95.5%	P	15.2
NW-99	Sub-grade in Phase II and III	1+2	onsite borrow	108.2	16.0	12	102.9	118.6	17.2	95.1%	P	15.3
NW-100	Sub-grade in Phase II and III	1+2	onsite borrow	108.2	16.0	12	103.7	119.2	18	95.8%	P	15
NW-101	Sub-grade in Phase II and III	1+2	onsite borrow	108.2	16.0	12	103.7	119.7	17.9	95.9%	P	15.4

General Contractor: Thalle
 Earthwork Contractor: Thalle



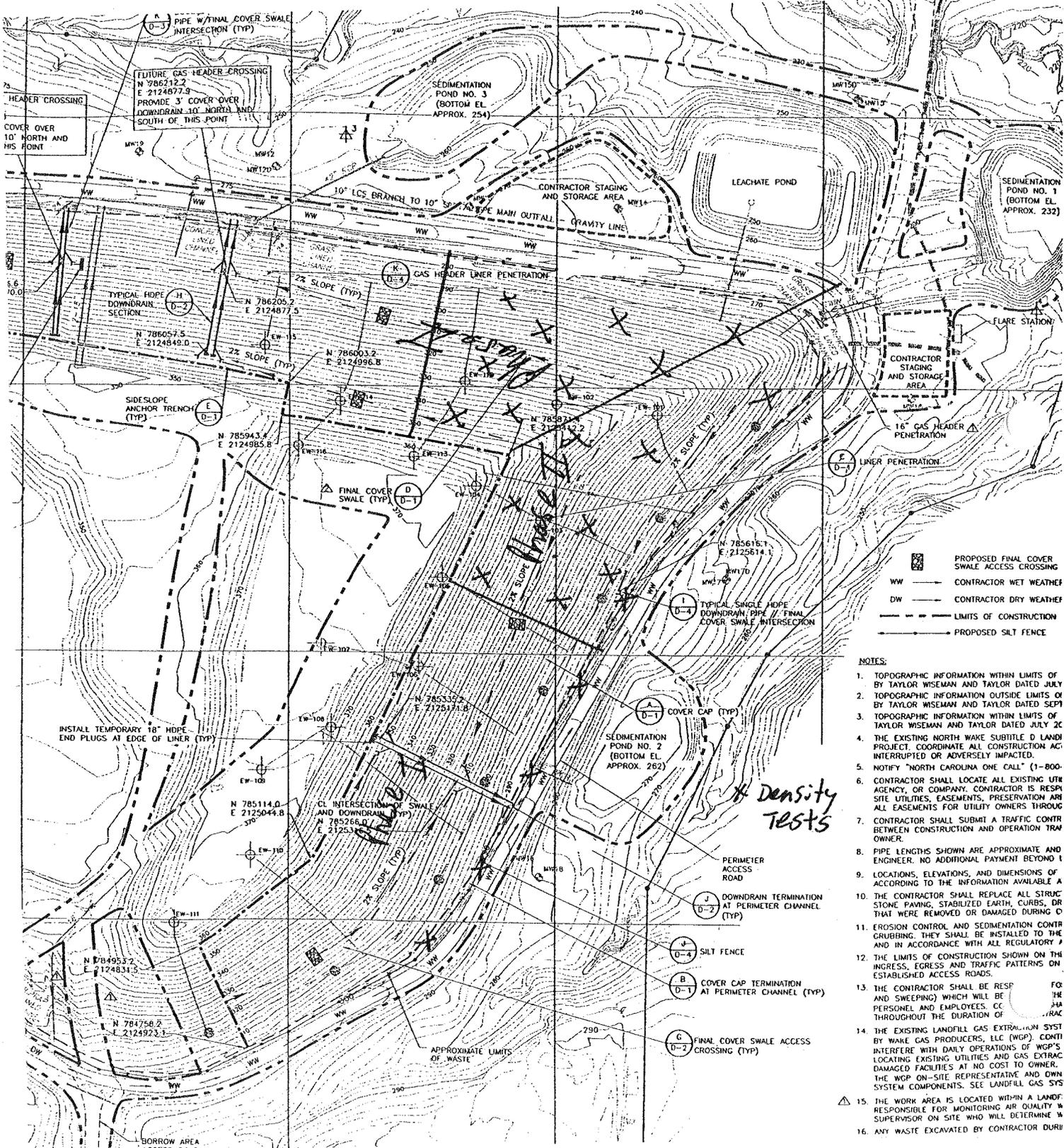
Field Density Test Summary

Client: <u>North Wake</u>		Date: <u>May 25, 2004</u>		Page: <u>1 of 1</u>	
Project Name: <u>Phase I closure</u>		Technician: <u>Bion Dalton</u>			
Project Location: <u>North Wake Landfill</u>		DS = <u>2406</u>		Passing = <u>-1.4%</u>	
Project Number: <u>6172-42378</u>		MS = <u>667</u>		Passing = <u>0.0%</u>	
		Trolox Gauge No./Type		<u>3440.no. 30129</u>	
General Contractor: <u>Thalle</u>		Compaction Achieved (%)		Compaction Required (%)	
Earthwork Contractor: <u>Thalle</u>		Status P / F		Comments	
		Corrected Moisture			

Test No.	Location	Elevation, Depth (ft) or Lift No.	Off-Site Borrow Source	Laboratory Test Results			Field Test Results			Moisture Content (%)	Status P / F	Comments	
				Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (in)	Dry Density (pcf)	Wet Density (pcf)	Compaction Achieved (%)				Compaction Required (%)
NW-120	Void for flap and anchor trench	6+7	onsite borrow	96.4	22.5	12	94.4	115.2	22	98.0%	95%	P	<i>None needed</i>
NW-121	Void for flap and anchor trench	6+7	onsite borrow	96.4	22.5	12	94.9	113.9	20	98.5%	95%	P	<i>Material</i>
NW-122	Void for flap and anchor trench	6+7	onsite borrow	96.4	22.5	12	94.4	114.3	21.1	97.9%	95%	P	<i>Consistent</i>
NW-123	Void for flap and anchor trench	6+7	onsite borrow	96.4	22.5	12	94.5	114.8	21.5	98.0%	95%	P	
NW-124	Void for flap and anchor trench	6+7	onsite borrow	96.4	22.5	12	94.6	115	21.6	98.1%	95%	P	

RP#62
5.25-4

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- WW CONTRACTOR WET WEATHER
- DW CONTRACTOR DRY WEATHER
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JULY 20
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED SEPT
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY 20
 4. THE EXISTING NORTH WAKE SATED JULY 20 PROJECT. COORDINATE ALL CONSTRUCTION AC INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800-
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY AGENCY, OR COMPANY. CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS, EASEMENTS, PRESERVATION AND ALL EASEMENTS FOR UTILITY OWNERS THROUGHOUT THE DURATION OF THE PROJECT.
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE LOCAL AUTHORITY FOR REVIEW AND APPROVAL.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AND ENGINEER. NO ADDITIONAL PAYMENT BEYOND 10% SHALL BE PAID FOR MATERIALS.
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF STRUCTURES SHALL BE ACCORDING TO THE INFORMATION AVAILABLE AT THE TIME OF CONSTRUCTION.
 10. THE CONTRACTOR SHALL REPLACE ALL STRUCTURES, STABILIZED EARTH, CURBS, OR OTHER STRUCTURES THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
 11. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO THE SLOPE AND IN ACCORDANCE WITH ALL REGULATORY AGENCIES.
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES AND GAS EXTRACT DAMAGED FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND OWNERS SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES AND GAS EXTRACT DAMAGED FACILITIES. SEE LANDFILL GAS SYSTEM COMPONENTS. SEE LANDFILL GAS SYSTEM COMPONENTS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS, EASEMENTS, PRESERVATION AND ALL EASEMENTS FOR UTILITY OWNERS THROUGHOUT THE DURATION OF THE PROJECT.
 14. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM BY WAKE GAS PRODUCERS, ETC (WGP). CONTRACTOR SHALL NOT INTERFERE WITH DAILY OPERATIONS OF WGP'S LOCATING EXISTING UTILITIES AND GAS EXTRACT DAMAGED FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND OWNERS SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES AND GAS EXTRACT DAMAGED FACILITIES. SEE LANDFILL GAS SYSTEM COMPONENTS. SEE LANDFILL GAS SYSTEM COMPONENTS.
 15. THE WORK AREA IS LOCATED WITHIN A LANDFILL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AIR QUALITY WITHIN THE WORK AREA. A SUPERVISOR ON SITE WHO WILL DETERMINE WHEN TO STOP WORK IF AIR QUALITY IS UNACCEPTABLE.
 16. ANY WASTE EXCAVATED BY CONTRACTOR DURING CONSTRUCTION SHALL BE PROPERLY HANDLED AND DISPOSED OF AT AN APPROVED LOCATION.

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-26-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 92 Lo: 70 Clear x Partly Cloudy 0 Precipitation
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00
 (Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Survey of stripping, stripping, LLDPE QC, BOOT placement, flap, Geo-composite

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 1: Stripping of Vegetation and Unsuitable Soils.

Contractor on site stripping vegetation from the Phase III area at the very north west corner.

Item No. 3: Intermediate Cover Material.

Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill in phase III and grading site in preparation of liner placement.

Item No. 5: LLDPE Installation

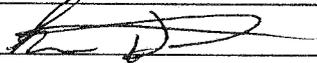
Subcontractor Hallaton INC. on site performing QC on welds yesterday, all is patched and sealed.
Contractor excavating and filling anchor trenches and flap void.

Item No. 6: Geo-composite deployment.

Sub-contractor Hallaton continued placement of Geo-composite. All was placed and connected per specifications.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor stockpiling screened material in preparation of Protective cover placement

Attachments: Yes No Signed 

Description: _____

(Pipe Test Reports, Concrete Placement Reports, etc.)

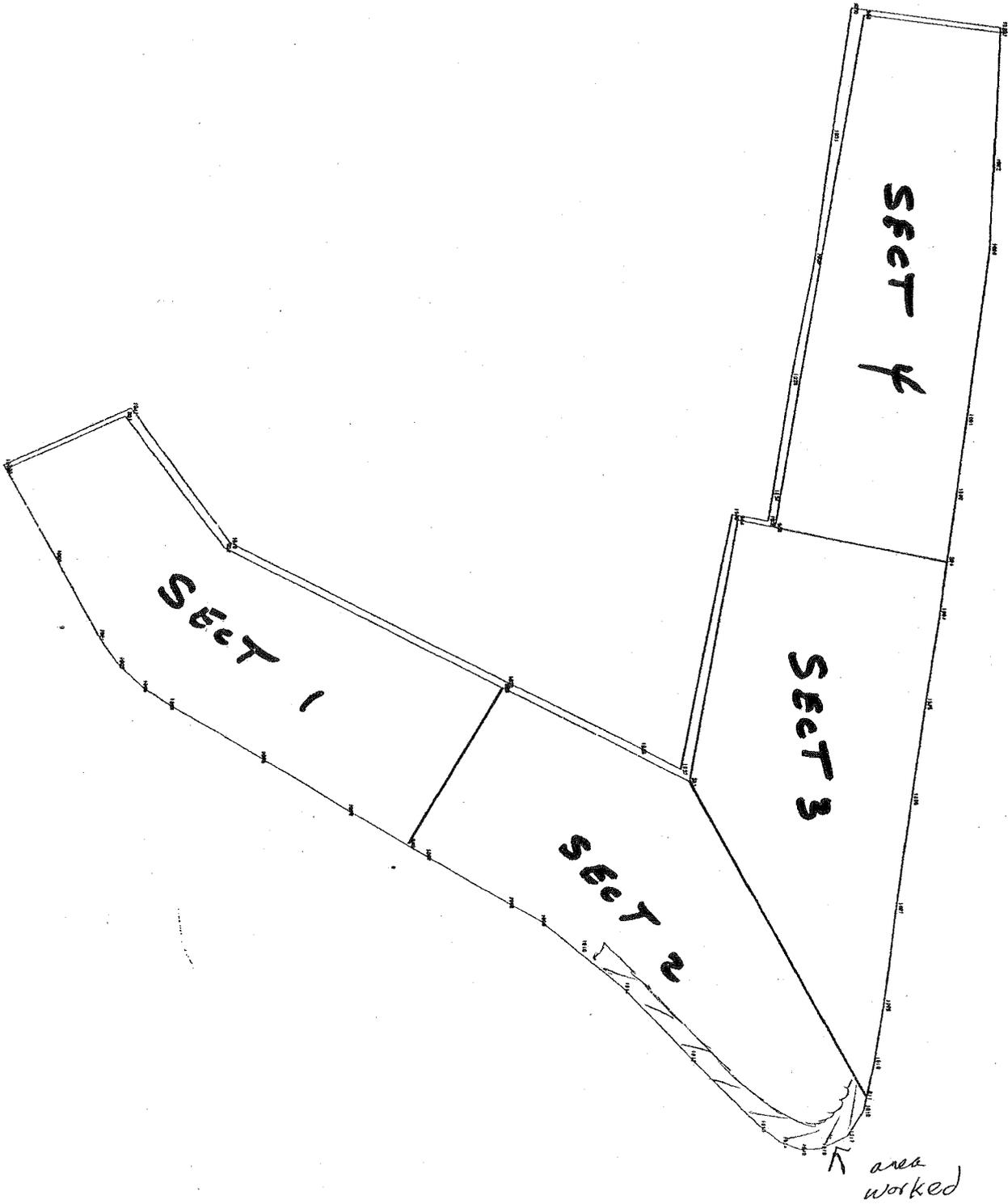
This report to be completed daily by each Project Representative



<p>Sheet No. : 1 of 2 Report #: 63 Date: 05-26-04 Weather: PC low 70 high 92</p>	<p align="center">CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>
<p align="center">VISITORS</p>	<p align="center">WORK AND EQUIPMENT</p>
<p>None</p>	<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>
<p>none</p>	<p>WORK COMPLETED:</p>
<p align="center">COMMENT</p>	<p>Item No. 3: Intermediate Cover Material. Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement. They worked in the Phase II area slope and Flap void. Contractor also excavating anchor trench and tie in area.</p>
<p align="center">CORRESPONDING DATA SHEETS</p>	<p>Item No. 7: Excavate, Transport and Install Protective Soil Layer Material Contractor continued stockpiling protective cover material.</p>
<p>Site Sketch</p>	<p>RESULTS: none</p>
<p align="center">APPROVED BY:</p>	<p align="center">BY: </p>
<p align="center">CERTIFYING ENGINEER</p>	<p align="center">CQA INSPECTOR</p>
<p> </p>	<p align="center">REVIEWED BY:</p>
<p> </p>	<p align="center">PROJECT ENGINEER</p>

Site Sketch

05/26/04



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-27-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 89 Lo: 66 _____ Clear x Partly _____ Cloudy 0 Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

(Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Survey of stripping, LLDPE QC, BOOT placement, flap, Geo-composite

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 1: Stripping of Vegetation and Unsuitable Soils.

Contractor on site surveying stripping completed.

Item No. 3: Intermediate Cover Material.

Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill in phase III and grading site in preparation of liner placement.

Item No. 5: LLDPE Installation

Subcontractor Hallaton INC. on site performing QC, placing boots and welding flaps.

Contractor excavating and filling anchor trenches and flap void.

Item No. 6: Geo-composite deployment.

Sub-contractor Hallaton continued placement of Geo-composite. All was placed and connected per specifications.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor stockpiling screened material in preparation of Protective cover placement

Attachments: Yes No

Signed 

Description:

(Pipe Test Reports, Concrete Placement Reports, etc.)

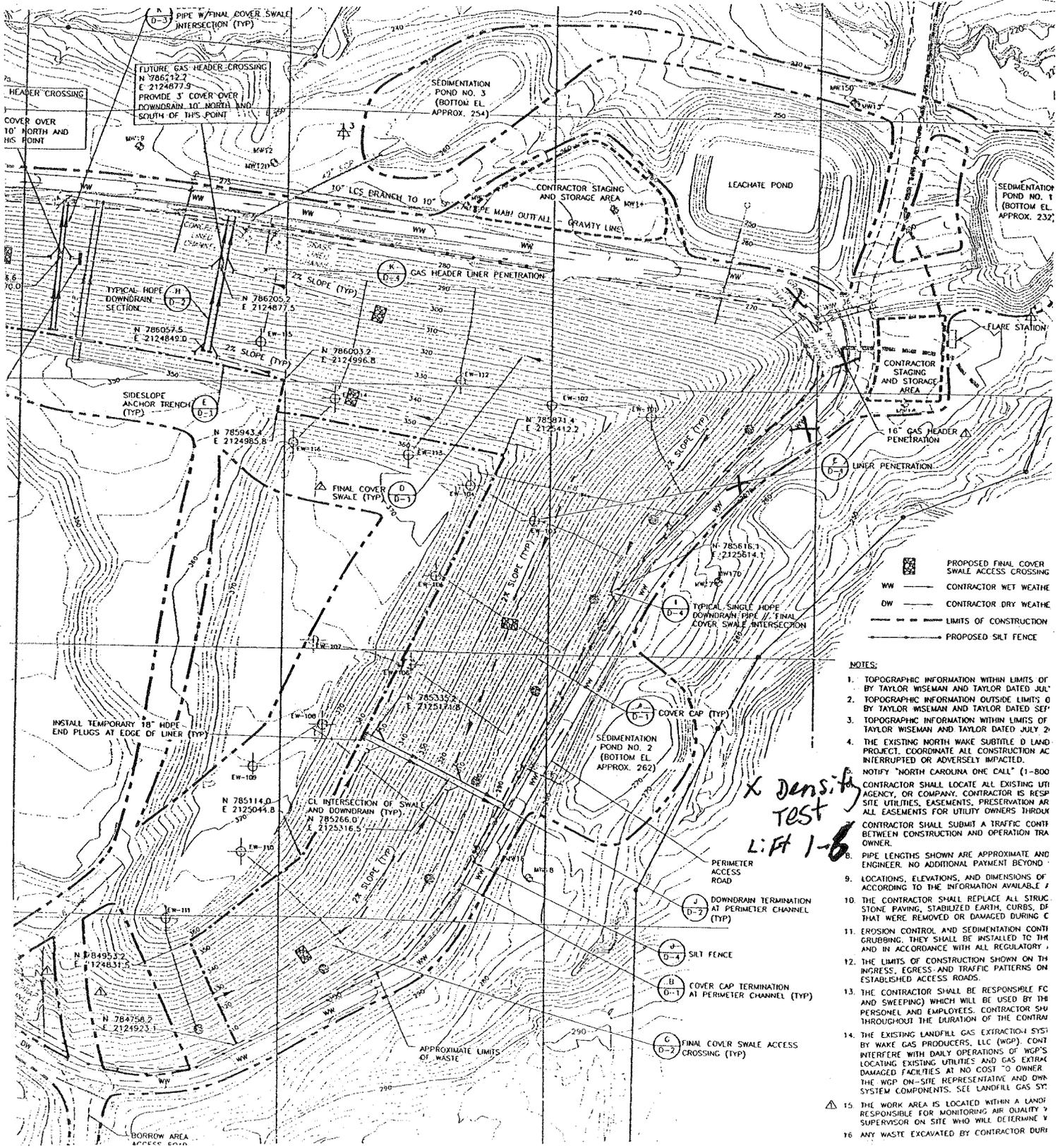
This report to be completed daily by each Project Representative



<p align="center"> CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p>	<p> Sheet No.: 1 of 3 Report #: 64 Date: 05-27-04 Weather: PC low 66 high 89 </p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	<p>None</p>
<p>WORK COMPLETED:</p>	<p>MATERIALS RECEIVED</p>
<p>Item No. 3: Intermediate Cover Material. Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement. They worked in the Phase I, II area slope and Flap void. Contractor also excavating anchor trench and tie in area. I performed field density tests on areas ready located in phase II and III anchor trench and bottom flap area.</p>	<p>none</p>
<p>Item No. 7: Excavate, Transport and Install Protective Soil Layer Material Contractor continued stockpiling protective cover material.</p>	<p>COMMENT</p>
<p>RESULTS: See attached</p>	<p>None</p>
<p>BY: </p>	<p>CORRESPONDING DATA SHEETS</p>
<p>CQA INSPECTOR</p>	<p>Site Sketch Density tests</p>
<p>REVIEWED BY:</p>	<p>APPROVED BY: </p>
<p>PROJECT ENGINEER</p>	<p>CERTIFYING ENGINEER</p>

5-27-04

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- CONTRACTOR WET WEATHER
- CONTRACTOR DRY WEATHER
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

NOTES:

1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JUL 2
2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED SEP 7
3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY 2
4. THE EXISTING NORTH WAKE SUBTILE D LAND PROJECT. COORDINATE ALL CONSTRUCTION INTERRUPTED OR ADVERSELY IMPACTED.
5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800 CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY AGENCY, OR COMPANY. CONTRACTOR IS RESPONSIBLE FOR PRESERVATION OF ALL EASEMENTS FOR UTILITY OWNERS THROUGHOUT THE DURATION OF THE CONSTRUCTION AND OPERATION PERIOD.
6. PIPE LENGTHS SHOWN ARE APPROXIMATE AND ENGINEER. NO ADDITIONAL PAYMENT BEYOND APPROXIMATE LENGTHS.
7. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF CONSTRUCTION SHALL BE ACCORDING TO THE INFORMATION AVAILABLE.
8. THE CONTRACTOR SHALL REPLACE ALL STRUCTURE PAVING, STABILIZED EARTH, CURBS, OR THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
9. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO THE LIMITS OF CONSTRUCTION WITH ALL REGULATORY AGENCIES.
10. THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL BE USED BY THE CONTRACTOR PERSONNEL AND EMPLOYEES. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ESTABLISHED ACCESS ROADS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERSONNEL AND EMPLOYEES. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ESTABLISHED ACCESS ROADS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERSONNEL AND EMPLOYEES. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ESTABLISHED ACCESS ROADS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERSONNEL AND EMPLOYEES. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ESTABLISHED ACCESS ROADS.
14. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM BY WAKE GAS PRODUCERS, LLC (WGP). CONTRACTOR SHALL NOT INTERFERE WITH DAILY OPERATIONS OF WGP'S LOCATING EXISTING UTILITIES AND GAS EXTRACTION DAMAGED FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND DWH SYSTEM COMPONENTS. SEE LANDFILL GAS SYSTEM DRAWING.
15. THE WORK AREA IS LOCATED WITHIN A LANDFILL. CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AIR QUALITY AND NOTIFYING THE SUPERVISOR ON SITE WHO WILL DETERMINE IF ANY WASTE EXCAVATED BY CONTRACTOR DURING CONSTRUCTION.

X Density Test LIFT 1-6

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-28-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 89 Lo: 68 _____ Clear Partly _____ Cloudy 0 Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

(Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Survey of stripping, LLDPE QC, BOOT placement, flap, Geo-composite

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 3: Intermediate Cover Material.

Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill in phase III and grading site in preparation of liner placement.

Item No. 5: LLDPE Installation

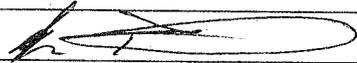
Subcontractor Hallaton INC. on site performing QC, placing boots and welding flaps.
Contractor excavating and filling anchor trenches and flap void.

Item No. 6: Geo-composite deployment.

Sub-contractor Hallaton continued placement of Geo-composite. All was placed and connected per specifications.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor stockpiling screened material in preparation of Protective cover placement

Attachments: Yes No Signed 

Description: _____
(Pipe Test Reports, Concrete Placement Reports, etc.)

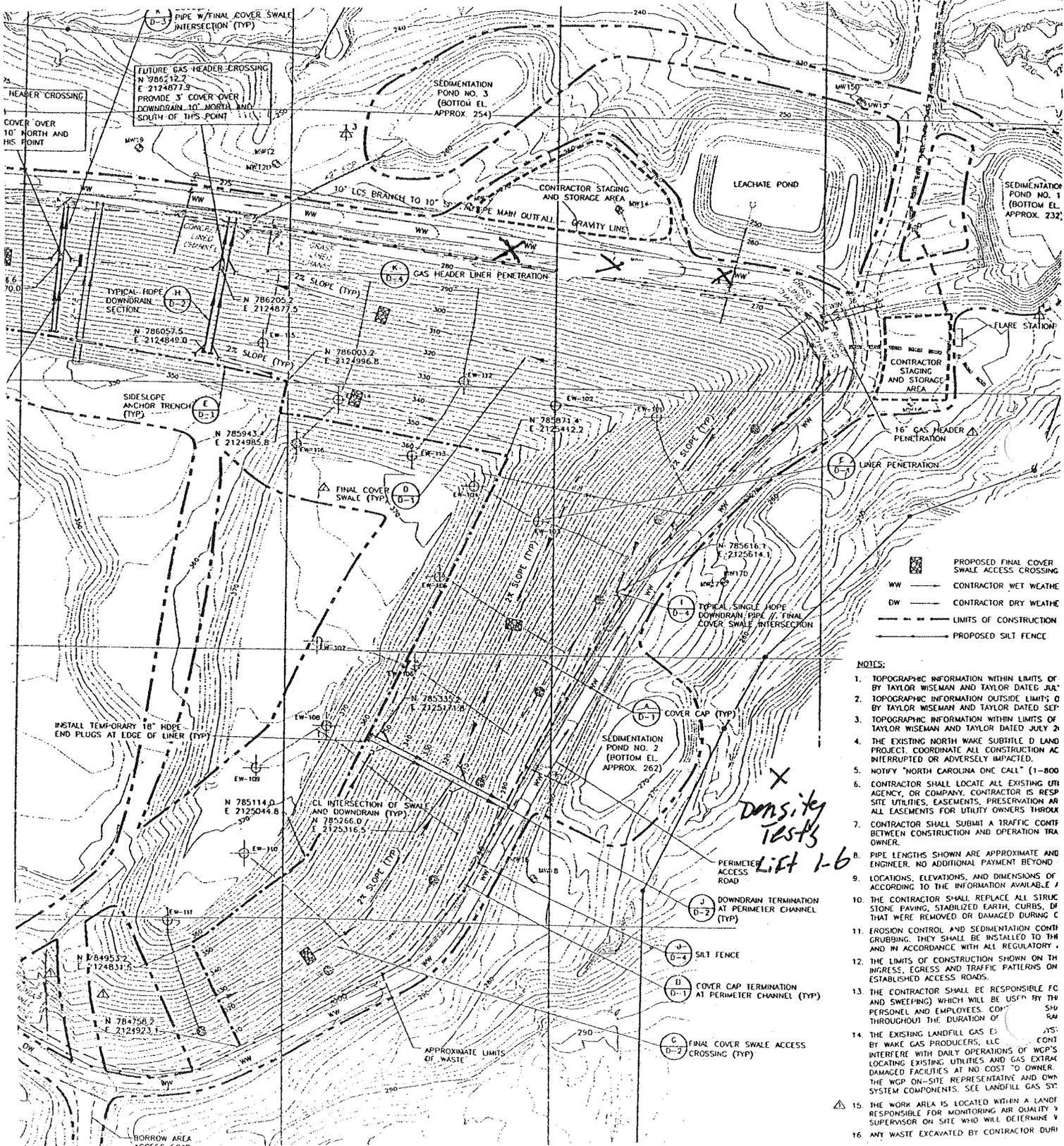
This report to be completed daily by each Project Representative



<p style="text-align: center;">CAMP DRESSER & McKEE (North Wake <i>Subtitle D Landfill Phase I Closure</i>) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>		Sheet No. : 1 of 3 Report #: 65 Date: 05-28-04 Weather: PC low 68 high 89
<p style="text-align: center;">WORK AND EQUIPMENT</p>		VISITORS
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>		None
<p>WORK COMPLETED:</p> <p>Item No. 3: Intermediate Cover Material. Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement. They worked in the Phase II area slope and Flap void. Contractor also excavating anchor trench and tie in area. I performed field density tests on areas ready located in phase II and III anchor trench and bottom flap area.</p> <p>Item No. 7: Excavate, Transport and Install Protective Soil Layer Material Contractor continued stockpiling protective cover material.</p>		MATERIALS RECEIVED
		none
		COMMENT
		None
		CORRESPONDING DATA SHEETS
		Site Sketch Density tests
BY:		APPROVED BY: <i>R.E. Burman</i>
CQA INSPECTOR		CERTIFYING ENGINEER
REVIEWED BY:		
PROJECT ENGINEER		

5-28-04

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- CONTRACTOR WET WEATHE
- CONTRACTOR DRY WEATHE
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

- NOTES:
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JUL 2
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED SEP
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY 2
 4. THE EXISTING NORTH WAKE SUBTITLE D LAND PROJECT. COORDINATE ALL CONSTRUCTION AC INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTI AGENCY, OR COMPANY. CONTRACTOR IS RESP SITE UTILITIES, EASEMENTS, PRESERVATION AR ALL EASEMENTS FOR UTILITY OWNERS THROU
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTI BETWEEN CONSTRUCTION AND OPERATION TRA OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AND ENGINEER. NO ADDITIONAL PAYMENT BEYOND
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ACCORDING TO THE INFORMATION AVAILABLE #
 10. THE CONTRACTOR SHALL REPLACE ALL STRUC STONE PAVING, STABILIZED EARTH, CURBS, B THAT WERE REMOVED OR DAMAGED DURING C
 11. EROSION CONTROL AND SEDIMENTATION CONTI GRUBBING. THEY SHALL BE INSTALLED TO THE AND IN ACCORDANCE WITH ALL REGULATORY #
 12. THE LIMITS OF CONSTRUCTION SHOWN ON TH ESTABLISHED ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FC AND SWEEPING) WHICH WILL BE USED BY TH PERSONNEL AND EMPLOYEES. CO SH THROUGHOUT THE DURATION OF
 14. THE EXISTING LANDFILL GAS D SYSTEMS BY WAKE GAS PRODUCERS, LLC. COI INTERFERE WITH DAILY OPERATIONS OF WGP# LOCATING EXISTING UTILITIES AND GAS EXTRA DAMAGED FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND OWN SYSTEM COMPONENTS. SEE LANDFILL GAS SY
 15. THE WORK AREA IS LOCATED WITHIN A LAND RESPONSIBLE FOR MONITORING AIR QUALITY # SUPERVISOR ON SITE WHO WILL DETERMINE #
 16. ANY WASTE EXCAVATED BY CONTRACTOR DUR

*Density Tests
Lift 1-6*

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-29-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 85 Lo: 63 _____ Clear x Partly _____ Cloudy 0 Precipitation _____
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: _____ Reg. _____ OT Shift: _____ to _____
 (Contractor) Hours Worked: _____ Reg. _____ OT Shift: 7 to _____

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes				
Superintendent			Loader Backhoes				
Engineer			F.E. Loaders				
Foreman			Dozers				
Asst. Foreman			Grader				
Equip. Operators			Dump Trucks				
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers			Compactors				
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors			Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total		*	Total		*		*

*Designates subcontractors

Activity and Location: _____

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

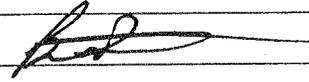
Not a scheduled work day

Attachments:

Yes

No

Signed



Description:

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative



CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT		Sheet No.: 1 of 1 Date: 05-29-04 Weather: PC	Report #: 66 low 63 high 85
WORK AND EQUIPMENT		VISITORS	
EQUIPMENT:		None	
WORK COMPLETED: Not a scheduled work day.		MATERIALS RECEIVED	
RESULTS:		None	
		COMMENT	
		None	
		CORRESPONDING DATA SHEETS	
BY:		APPROVED BY: <i>K.E. Dupont</i>	
CQA INSPECTOR		CERTIFYING ENGINEER	
REVIEWED BY:			
PROJECT ENGINEER			



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-30-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi _____ Lo: _____ Clear _____ Partly Cloudy 1.5 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

(Contractor) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes				
Superintendent			Loader Backhoes				
Engineer			F.E. Loaders				
Foreman			Dozers				
Asst. Foreman			Grader				
Equip. Operators			Dump Trucks				
Masons			Pick-up Trucks				
Pipelayers			Cars				
Laborers			Compactors				
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flagpeople			Well Point Systems				
Surveyors			Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total		*	Total		*		*

*Designates subcontractors

Activity and Location: No work performed by contractor or RPR

Defective work noted today to be corrected later: _____



CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT		Sheet No. : 1 of 1 Date: 05-30-04 Weather:	Report #: 67 low high
WORK AND EQUIPMENT		VISITORS	
EQUIPMENT:		None	
WORK COMPLETED: Not a scheduled work day.		MATERIALS RECEIVED	
RESULTS:		None	
		COMMENT	
		None	
		CORRESPONDING DATA SHEETS	
BY:		APPROVED BY: <i>R.E. B...</i>	
CQA INSPECTOR		CERTIFYING ENGINEER	
REVIEWED BY:			
PROJECT ENGINEER			



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 05-31-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi _____ Lo: _____ Clear _____ Partly _____ Cloudy _____ Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co.

(Observation) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

(Contractor) Hours Worked: 0 Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes				
Superintendent			Loader Backhoes				
Engineer			F.E. Loaders				
Foreman			Dozers				
Asst. Foreman			Grader				
Equip. Operators			Dump Trucks				
Masons			Pick-up Trucks				
Pipelayers			Cars				
Laborers			Compactors				
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flagpeople			Well Point Systems				
Surveyors			Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total		*	Total		*		*

*Designates subcontractors

Activity and Location: No work performed by contractor or RPR

Defective work noted today to be corrected later: _____



CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT		Sheet No. : 1 of 1 Date: 05-31-04 Weather:	Report #: 68 low high
WORK AND EQUIPMENT		VISITORS	
EQUIPMENT:		None	
WORK COMPLETED: Not a scheduled work day. (Holiday)		MATERIALS RECEIVED	
RESULTS:		None	
		COMMENT	
		None	
		CORRESPONDING DATA SHEETS	
BY:		APPROVED BY: <i>R.E. Gussie</i>	
CQA INSPECTOR		CERTIFYING ENGINEER	
REVIEWED BY:			
PROJECT ENGINEER			

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-01-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 86 Lo: 61 _____ Clear x Partly _____ Cloudy 0 Precipitation _____
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00
 (Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and				Subcontractor's Work Force		
Labor Classification			Equipment Classifications						
	I	II*		Type	Type*	Size	Size*		
Project Manager			Backhoes	cat					
Superintendent	1		Loader Backhoes						
Engineer			F.E. Loaders	cat					
Foreman	1		Dozers	cat		D7/D8			
Asst. Foreman			Grader						
Equip. Operators	2		Dump Trucks	cat	volvo				
Masons			Pick-up Trucks						
Pipe layers			Cars						
Laborers	3		Compactors	cat		563			
Truck Drivers			Pumps						
Carpenters			Water Truck						
Flag people			Well Point Systems						
Surveyors	2		Cranes						
Painters			Welder						
Plumbers			Compressors						
Pavers									
Electricians									
Total	9	*	Total	6	*				*

*Designates subcontractors

Activity and Location: _____

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 1: Stripping

Contractor hauled about four loads of striped material to the working face of the landfill.

Item No. 3: Intermediate Cover Material.

Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill in phase III and IV, and grading site in preparation of liner placement. (123 loads) Contractor also regarding previously graded material in Phase III that was damaged from the rain and cleaning out anchor trenches. Contractor filling portion of bottom anchor trench and flap void area with screened material, nuclear density testing was conducted on this area, see attached CQA RPT and results.

Item No. 5: LLDPE Installation

No work.

Item No. 6: Geo-composite deployment.

Sub-contractor Hallaton continued placement of Geo-composite. All was placed and connected per specifications.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor stockpiling screened material in preparation of Protective cover placement

Attachments: Yes No

Signed 

Description: _____
(Pipe Test Reports, Concrete Placement Reports, etc.)

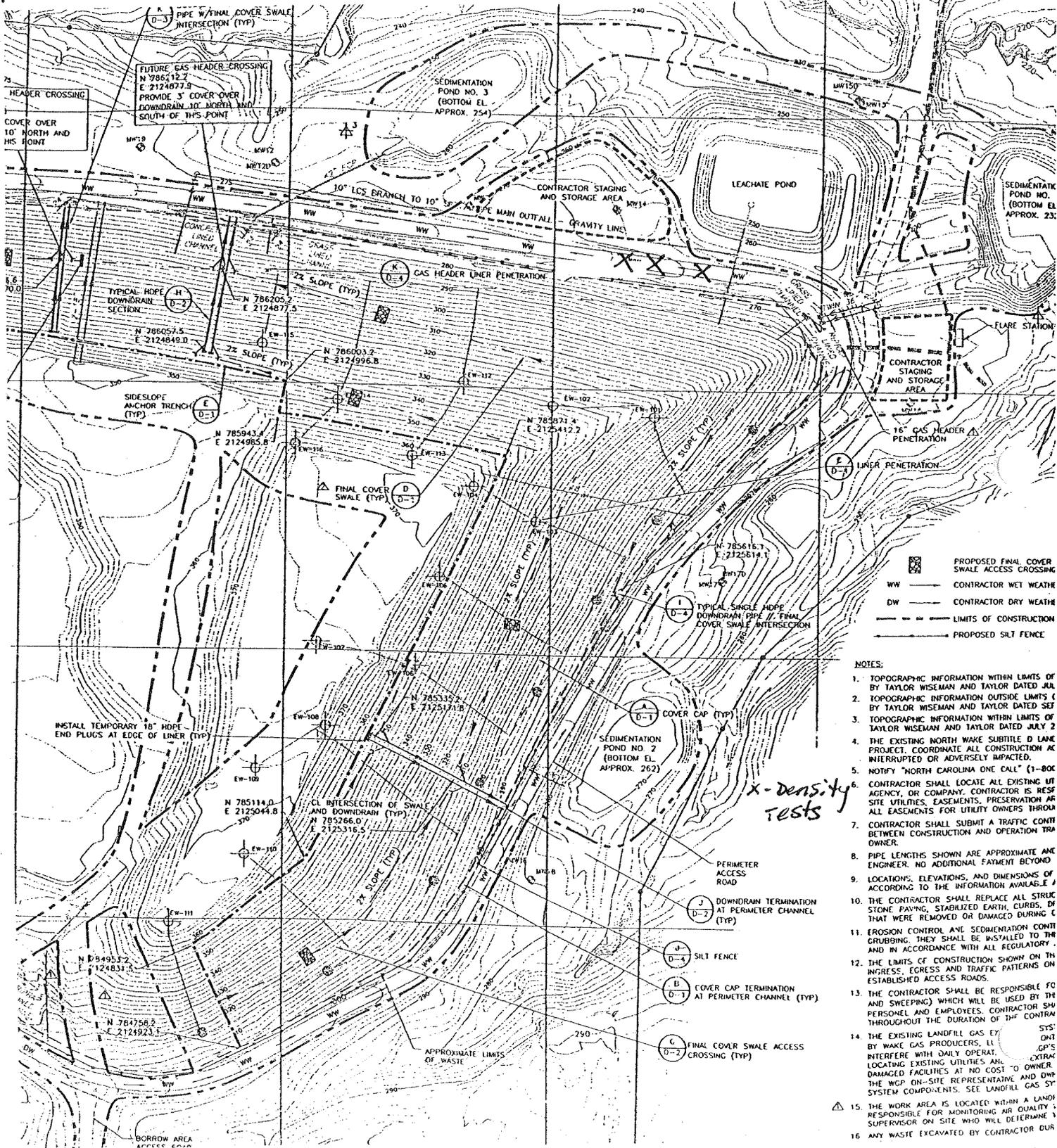
This report to be completed daily by each Project Representative



<p align="center">CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>		Sheet No. : 1 of 3 Report #: 69 Date: 06-01-04 Weather: PC low 61 high 86
<p align="center">WORK AND EQUIPMENT</p>		<p>VISITORS</p>
<p>EQUIPMENT: CAT D6M, CAT D4C, Volvo end dumps, 563 smooth drum roller</p>		<p>None</p>
<p>WORK COMPLETED:</p> <p>Item No. 3: Intermediate Cover Material. Surveyor on site verifying depth of intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement. They worked in the Phase III area Flap void. Contractor also excavating anchor trench and regarding slope in Phase III from rain damaged caused on Sunday. I performed field density tests on areas ready located in phase III anchor trench and bottom flap area.</p> <p>Item No. 7: Excavate, Transport and Install Protective Soil Layer Material Contractor continued stockpiling protective cover material.</p>		<p>MATERIALS RECEIVED</p> <p>none</p>
<p>RESULTS: See attached</p>		<p>COMMENT</p> <p>None</p>
<p>BY: </p>		<p>CORRESPONDING DATA SHEETS</p> <p>Site Sketch Density tests</p>
<p>APPROVED BY: </p>		<p>CERTIFYING ENGINEER</p>
<p>REVIEWED BY:</p>		<p>CQA INSPECTOR</p>
<p>PROJECT ENGINEER</p>		

6-1-4
RPT # 69

Site Sketch



- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JUL
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS (BY TAYLOR WISEMAN AND TAYLOR DATED SEP
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY 2
 4. THE EXISTING NORTH WAKE SUBTITLE D LANE PROJECT. COORDINATE ALL CONSTRUCTION AC INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UT AGENCY, OR COMPANY. CONTRACTOR IS RESP SITE UTILITIES, EASEMENTS, PRESERVATION AN ALL EASEMENTS FOR UTILITY OWNERS THROU
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTI BETWEEN CONSTRUCTION AND OPERATION TRA OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE ANE ENGINEER. NO ADDITIONAL PAYMENT BEYOND
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ACCORDING TO THE INFORMATION AVAILAB E
 10. THE CONTRACTOR SHALL REPLACE ALL STRUC STONE PAVING, STABILIZED EARTH, CURBS, DI THAT WERE REMOVED OR DAMAGED DURING C
 11. EROSION CONTROL ANE SEDIMENTATION CONTI GRUBBING. THEY SHALL BE INSTALLED TO TH AND IN ACCORDANCE WITH ALL REGULATORY .
 12. THE LIMITS OF CONSTRUCTION SHOWN ON TH INGRESS, EGRESS AND TRAFFIC PATTERNS ON ESTABLISHED ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FO AND SWEEPING) WHICH WILL BE USED BY TH PERSONNEL AND EMPLOYEES. CONTRACTOR SHU THROUGHOUT THE DURATION OF THE CONTRA
 14. THE EXISTING LANDFILL GAS EX SYS' BY WAKE GAS PRODUCERS, LL ONT GPE INTERFERE WITH DAILY OPERAT. EXTRS LOCATING EXISTING UTILITIES ANE 'O OWNER. DAMAGED FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND DWP SYSTEM COMPONENTS. SEE LANDFILL GAS SY
 15. THE WORK AREA IS LOCATED WITHIN A LAND RESPONSIBLE FOR MONITORING AIR QUALITY , SUPERVISOR ON SITE WHO WILL DETERMINE Y
 16. ANY WASTE EXCAVATED BY CONTRACTOR DUR

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-02-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 91 Lo: 58 _____ Clear x Partly _____ Cloudy 0 Precipitation _____
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00
 (Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and				Subcontractor's Work Force					
Labor Classification			Equipment Classifications									
	I	II*		Type	Type*	Size	Size*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat								
Superintendent	1		Loader Backhoes									
Engineer			F.E. Loaders	cat								
Foreman	1		Dozers	cat		D7/D8						
Asst. Foreman			Grader									
Equip. Operators	2		Dump Trucks	cat	volvo							
Masons			Pick-up Trucks									
Pipe layers			Cars									
Laborers	3		Compactors	cat		563						
Truck Drivers			Pumps									
Carpenters			Water Truck									
Flag people			Well Point Systems									
Surveyors	2		Cranes									
Painters			Welder									
Plumbers			Compressors									
Pavers												
Electricians												
Total	9	*	Total	6	*							*

*Designates subcontractors

^Activity and Location: _____

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 1: Stripping

Contractor hauled about four loads of striped material to the working face of the landfill.

Item No. 3: Intermediate Cover Material.

Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill in phase IV, and grading site in preparation of liner placement. (135 loads) Contractor filling portion of bottom anchor trench and flap void area with screened material, nuclear density testing was conducted on this area, see attached CQA RPT and results.

Item No. 5: LLDPE Installation

Sub-contractor Hallaton, on site placing LLDPE in Phase III area. They place approximately 144676 sq. ft.

Item No. 6: Geo-composite deployment.

No composite placed.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor stockpiling screened material in preparation of Protective cover placement

Attachments: Yes No

Signed 

Description:

(Pipe Test Reports, Concrete Placement Reports, etc.)

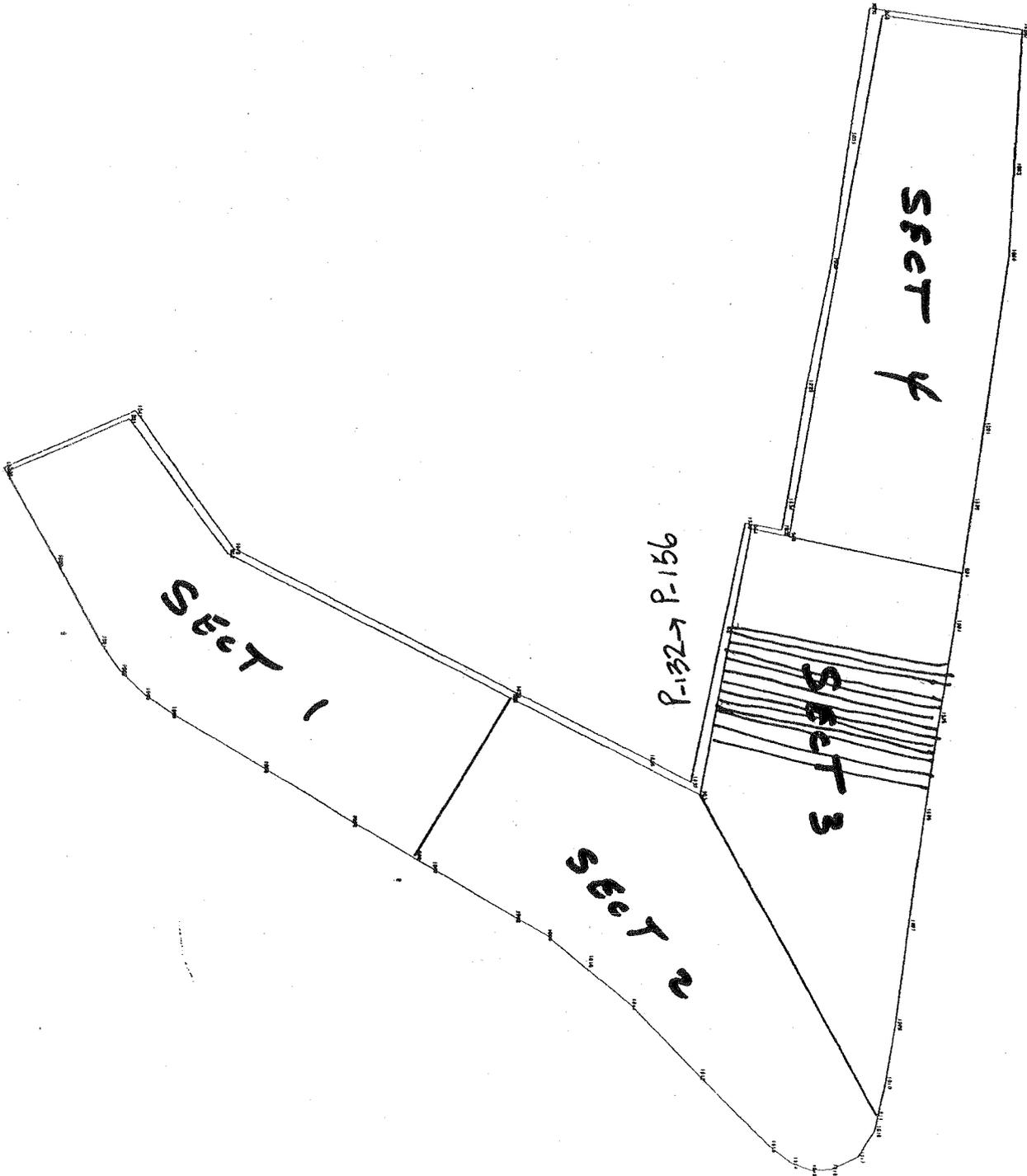
This report to be completed daily by each Project Representative

CDM

6-2-4

R7L 70

Site Sketch



<p align="center"> CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p>	<p> Sheet No. : 1 of 3 Report #: 70 Date: 06-02-04 Weather: PC low 58 high 91 </p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	<p>None</p>
<p>WORK COMPLETED:</p>	<p align="center">MATERIALS RECEIVED</p>
<p>Item No. 3: Intermediate Cover Material. Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement in Phase IV. They worked placing fill in the Phase III area Flap void. Contractor also excavating anchor trench in Phase III and IV.</p>	<p>none</p>
<p>I performed field density tests on areas ready located in phase III anchor trench and bottom flap area and also prior to liner placement I performed density tests on Phase III slope.</p>	<p align="center">COMMENT</p>
<p>Item No. 7: Excavate, Transport and Install Protective Soil Layer Material Contractor continued stockpiling protective cover material.</p>	<p align="center">CORRESPONDING DATA SHEETS</p>
<p>RESULTS: See attached</p>	<p>Site Sketch Density tests</p>
<p>BY: </p>	<p>APPROVED BY: </p>
<p align="center">CQA INSPECTOR</p>	<p align="center">CERTIFYING ENGINEER</p>
<p>REVIEWED BY:</p>	
<p align="center">PROJECT ENGINEER</p>	

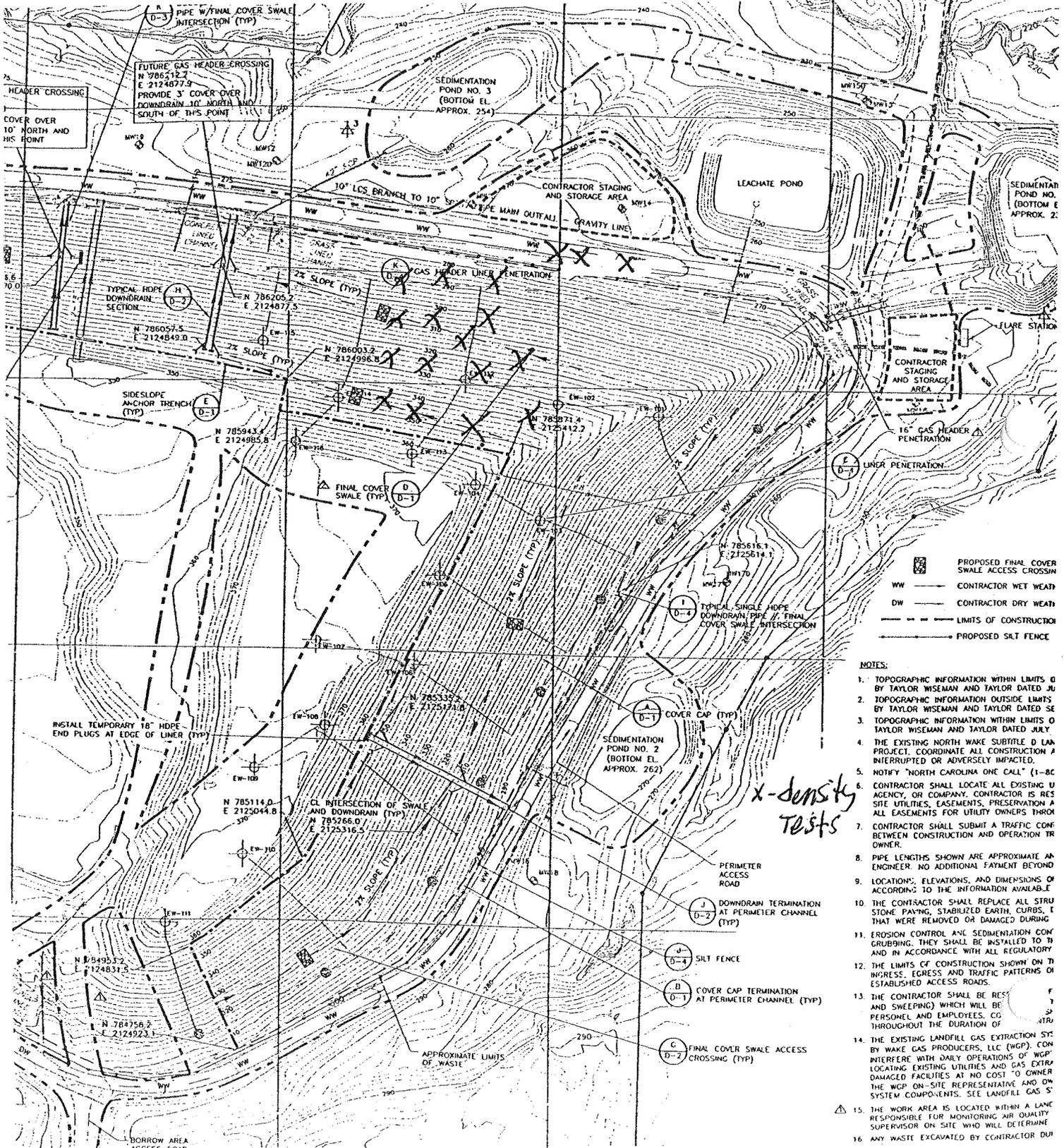


Field Density Test Summary

Client: North Wake		General Contractor: Thalle		Date: June 02, 2004		Page: 1 of 1							
Project Name: Phase I closure		Earthwork Contractor: Thalle		Technician: Bion Dalton		Passing #							
Project Location: North Wake Landfill						MS = 667							
Project Number: 6172-42378						Troloxer Gauge No./Type 3440 no. 30129							
Test No.	Location	Elevation, Depth (ft) or Lift No.	Laboratory Test Results			Field Test Results			Compaction Achieved (%)	Compaction Required (%)	Status P/F	Comments Corrected Moisture	
			Off-Site Borrow Source	Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (in)	Dry Density (pcf)	Wet Density (pcf)					Moisture Content (%)
NW-155	Sub-grade in Phase II and III	1+2	onsite borrow	108.2	16.0	12	103.1	120	21	95.3%	95%	P	16.4
NW-156	Phase III	1+2	onsite borrow	108.2	16.0	12	104.3	121	18	96.4%	95%	P	15
NW-157	Phase III	1+2	onsite borrow	108.2	16.0	12	104.3	120.4	17.9	96.4%	95%	P	15.4
NW-158	Phase III	1+2	onsite borrow	108.2	16.0	12	104.3	121.3	18.5	96.4%	95%	P	16.3
NW-159	Phase III	1+2	onsite borrow	108.2	16.0	12	104.3	120.8	18.4	96.4%	95%	P	15.8
NW-160	Phase III	1+2	onsite borrow	108.2	16.0	12	104.1	120.5	19	96.3%	95%	P	15.7
NW-161	Phase III	1+2	onsite borrow	108.2	16.0	12	104.2	120.8	20	96.3%	95%	P	15.9
NW-162	Phase III	1+2	onsite borrow	108.2	16.0	12	104.4	121.2	18.2	96.5%	95%	P	16.1
NW-163	Phase III	1+2	onsite borrow	108.2	16.0	12	103.7	120.7	18.6	95.8%	95%	P	16.4
NW-164	Phase III	1+2	onsite borrow	108.2	16.0	12	104.9	121.5	19.6	97.0%	95%	P	15.8
NW-165	Phase III	1+2	onsite borrow	108.2	16.0	12	105.2	122	16.5	97.2%	95%	P	16
NW-166	Phase III	1+2	onsite borrow	108.2	16.0	12	104.6	121.6	17.1	96.7%	95%	P	16.2
NW-167	Phase III	1+2	onsite borrow	108.2	16.0	12	104.3	121.7	16.9	96.4%	95%	P	16.7
NW-168	Phase III	1+2	onsite borrow	108.2	16.0	12	104.8	122	17	96.9%	95%	P	16.4
NW-169	Phase III	1+2	onsite borrow	108.2	16.0	12	105.3	121.9	16.7	97.3%	95%	P	15.8
NW-170	Phase III anchor trench and Flap void	1+2	onsite borrow	96.4	22.5	12	92.8	116	25	96.3%	95%	P	22.3
NW-171	Phase III anchor trench and Flap void	1+2	onsite borrow	96.4	22.5	12	95.2	115.8	25.1	98.8%	95%	P	21.6
NW-172	Phase III anchor trench and Flap void	1+2	onsite borrow	96.4	22.5	12	95.9	116.4	25.4	98.5%	95%	P	21.4
NW-173	Phase III anchor trench and Flap void	3+4	onsite borrow	96.4	22.5	12	95.2	116.1	25.6	98.7%	95%	P	22
NW-174	Phase III anchor trench and Flap void	3+4	onsite borrow	96.4	22.5	12	95.1	115.8	26.1	98.6%	95%	P	21.8
NW-175	Phase III anchor trench and Flap void	3+4	onsite borrow	96.4	22.5	12	94.3	115.2	24.3	97.9%	95%	P	22.1
NW-176	Phase III anchor trench and Flap void	5+6	onsite borrow	96.4	22.5	12	94.4	115.7	25.2	97.9%	95%	P	22.6
NW-177	Phase III anchor trench and Flap void	5+6	onsite borrow	96.4	22.5	12	94.9	116.1	26.1	98.5%	95%	P	22.3
NW-178	Phase III anchor trench and Flap void	5+6	onsite borrow	96.4	22.5	12	95.1	116	26.4	98.6%	95%	P	22

6-2-4
 RPT. # 70

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- CONTRACTOR WET WEATH
- CONTRACTOR DRY WEATH
- LIMITS OF CONSTRUCTION
- PROPOSED SRT FENCE

- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JULY
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED SEPTEMBER
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY
 4. THE EXISTING NORTH WAKE SUBMITE D LAMP PROJECT. COORDINATE ALL CONSTRUCTION TO INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800-452-4343)
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY AGENCY OR COMPANY. CONTRACTOR IS RESPONSIBLE FOR UTILITIES, EASEMENTS, PRESERVATION AND ALL EASEMENTS FOR UTILITY OWNERS THROUGHOUT THE DURATION OF THE PROJECT.
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN BETWEEN CONSTRUCTION AND OPERATION TO THE OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AN ENGINEER. NO ADDITIONAL FATMNT BEYOND APPROXIMATE.
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES AND STRUCTURES TO BE PRESERVED OR REMOVED OR DAMAGED DURING CONSTRUCTION.
 10. THE CONTRACTOR SHALL REPLACE ALL STRIP STONE PAVING, STABILIZED EARTH, CURBS, ETC. THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
 11. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO BE AND IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS SKETCH. EGRESS AND TRAFFIC PATTERNS OF ESTABLISHED ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERSONNEL AND EMPLOYEES, COORDINATING THROUGHOUT THE DURATION OF THE PROJECT.
 14. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM BY WAKE GAS PRODUCERS, LLC (WGP), COULD INTERFERE WITH DAILY OPERATIONS OF WGP. LOCATING EXISTING UTILITIES AND GAS EXTRACTION DAMAGED FACILITIES AT NO COST TO OWNER THROUGHOUT THE DURATION OF THE PROJECT. SEE LANDFILL GAS SYSTEM COMPONENTS. SEE LANDFILL GAS SYSTEM.
 15. THE WORK AREA IS LOCATED WITHIN A LAMP RESPONSIBLE FOR MONITORING AIR QUALITY SUPERVISOR ON SITE WHO WILL DETERMINE THE WORK AREA.
 16. ANY WASTE EXCAVATED BY CONTRACTOR DURING CONSTRUCTION SHALL BE REMOVED FROM THE SITE.

x-density tests

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-03-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 89 Lo: 63 _____ Clear x Partly _____ Cloudy 0 Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

(Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: _____

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 3: Intermediate Cover Material.

Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill in phase IV, and grading site in preparation of liner placement. (114 loads) Contractor filling portion of bottom anchor trench and flap void area with screened material, nuclear density testing was conducted on this area, see attached CQA RPT and results.

Item No. 5: LLDPE Installation

Sub-contractor Hallaton, on site welding flaps in phase III area. Contractor excavating bottom tie in area.

Item No. 6: Geo-composite deployment.

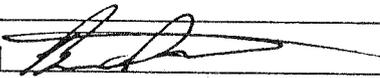
Sub-contractor Hallaton continued placement of Geo-composite. All was placed and connected per specifications.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor stockpiling screened material in preparation of Protective cover placement

Attachments: Yes No

Signed



Description:

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative



<p align="center"> CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p>	<p> Sheet No.: 1 of 3 Report #: 71 Date: 06-03-04 Weather: PC low 63 high 89 </p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	<p>None</p>
<p>WORK COMPLETED:</p>	<p align="center">MATERIALS RECEIVED</p>
<p>Item No. 3: Intermediate Cover Material. Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement in Phase IV. They worked placing fill in the Phase III area Flap void. Contractor also excavating anchor trench in Phase III and IV.</p>	<p>none</p>
<p>I performed field density tests on areas ready located in phase III anchor trench and bottom flap area.</p> <p>Item No. 7: Excavate, Transport and Install Protective Soil Layer Material Contractor continued stockpiling protective cover material.</p> <p>RESULTS: See attached</p>	<p align="center">COMMENT</p>
<p>BY: </p>	<p align="center">CORRESPONDING DATA SHEETS</p>
<p align="center">CQA INSPECTOR</p>	<p>Site Sketch Density tests</p>
<p>REVIEWED BY:</p>	<p align="center">APPROVED BY: </p>
<p align="center">PROJECT ENGINEER</p>	<p align="center">CERTIFYING ENGINEER</p>



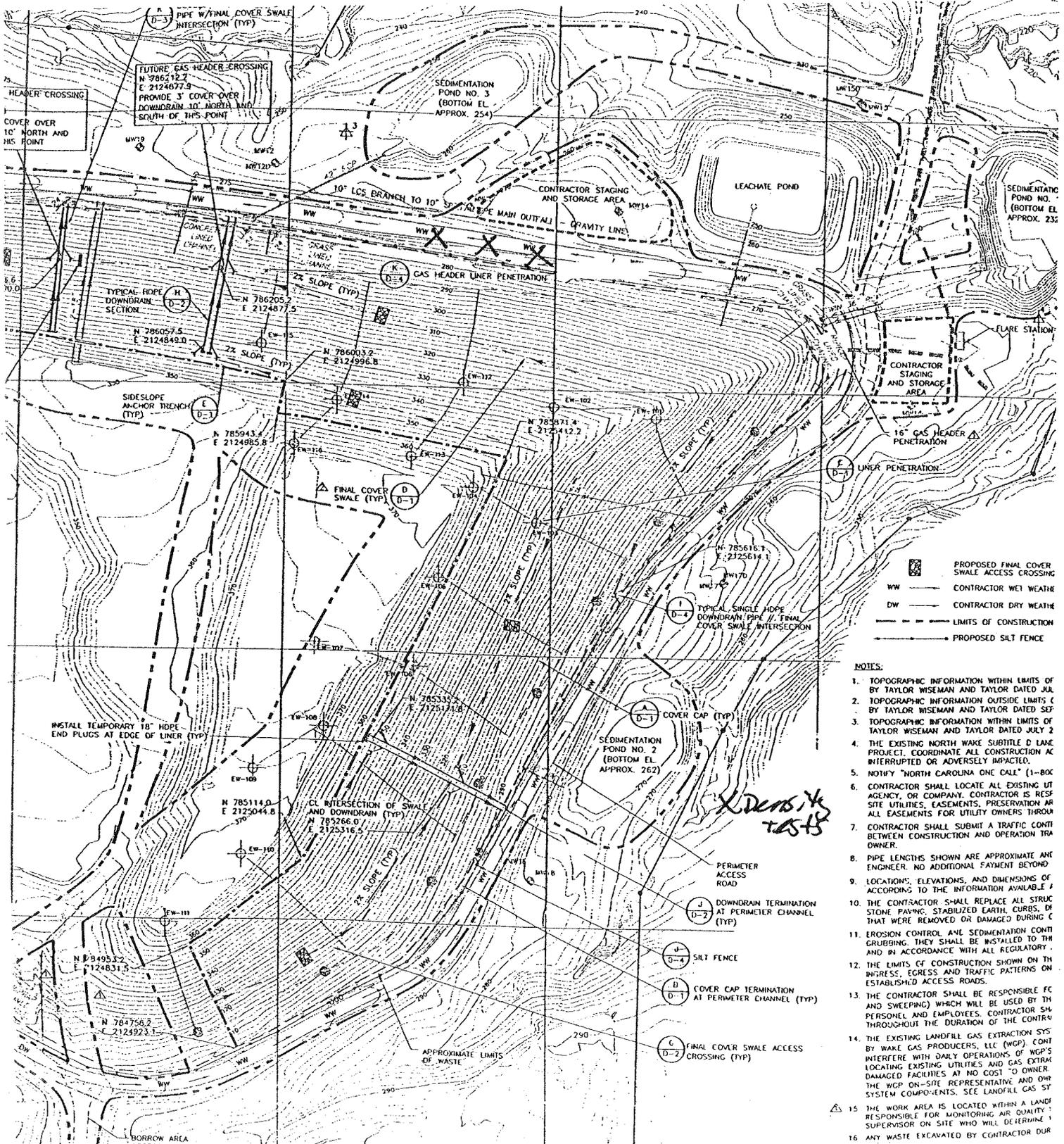
Field Density Test Summary

Client: <u>North Wake</u>		Date: <u>June 03, 2004</u>		Page: <u>1 of 1</u>	
Project Name: <u>Phase I closure</u>		Technician: <u>Bion Dalton</u>			
Project Location: <u>North Wake Landfill</u>		DS = <u>2406</u>		Passing =	
Project Number: <u>6172-42378</u>		MS = <u>668</u>		Passing =	
		Trolox Gauge No./Type		<u>3440.no. 30129</u>	
General Contractor: <u>Thalle</u>		Compaction Achieved (%)		Compaction Required (%)	
Earthwork Contractor: <u>Thalle</u>		Status P / F		Comments Corrected Moisture	

Test No.	Location	Elevation, Depth (ft) or Lift No.	Laboratory Test Results		Field Test Results				Moisture Content (%)	Status P / F	Comments Corrected Moisture
			Maximum Dry Density (pcf)	Optimum Moisture (%)	Dry Density (pcf)	Wet Density (pcf)	Test Depth (in)	Compaction Achieved (%)			
NW-179	Phase III anchor trench and Flap void	1+2	95.4	22.5	94.5	115.3	12	98.0%	95%	P	22
NW-180	Phase III anchor trench and Flap void	1+2	96.4	22.5	94.4	115.6	12	98.0%	95%	P	22.4
NW-181	Phase III anchor trench and Flap void	3+4	96.4	22.5	94.7	115.4	12	98.3%	95%	P	21.8
NW-182	Phase III anchor trench and Flap void	3+4	96.4	22.5	95.6	116.3	12	99.2%	95%	P	21.6
NW-183	Phase III anchor trench and Flap void	3+4	96.4	22.5	95.2	115.7	12	98.8%	95%	P	21.5
NW-184	Phase III anchor trench and Flap void	5+6	96.4	22.5	94.4	115.4	12	97.9%	95%	P	22.3
NW-185	Phase III anchor trench and Flap void	5+6	96.4	22.5	94.2	115.6	12	97.7%	95%	P	22.7
NW-186	Phase III anchor trench and Flap void	5+6	96.4	22.5	94.7	115.8	12	98.2%	95%	P	22.3

6-3-2
Rt # 71

Site Sketch



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-04-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 75 Lo: 65 _____ Clear Partly _____ Cloudy 1.29 Precipitation _____
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00
 (Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: _____

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 3: Intermediate Cover Material.

Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill in phase IV, and grading site in preparation of liner placement. (40 loads)

Item No. 5: LLDPE Installation

Sub-contractor Hallaton, on site welding flaps in phase III area. Contractor excavating bottom tie in area and to anchor trench.

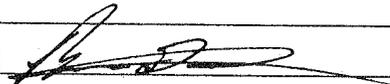
Item No. 6: Geo-composite deployment.

Sub-contractor Hallaton continued placement of Geo-composite. All was placed and connected per specifications.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor stockpiling screened material in preparation of Protective cover placement

Attachments: Yes No

Signed 

Description:

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative



<p style="text-align: center;">CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>	<p>Sheet No. : 1 of 1 Report #: 72 Date: 06-04-04 Weather: PC low 65 high 75</p>
<p style="text-align: center;">WORK AND EQUIPMENT</p>	<p style="text-align: center;">VISITORS</p>
<p><u>EQUIPMENT:</u> CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	<p>None</p>
<p><u>WORK COMPLETED:</u></p>	<p style="text-align: center;">MATERIALS RECEIVED</p>
<p><u>Item No. 3: Intermediate Cover Material.</u> Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement in Phase IV. Contractor also excavating anchor trench in Phase III and IV.</p>	<p>none</p>
<p><u>Item No. 7: Excavate, Transport and Install Protective Soil Layer Material</u> Contractor continued stockpiling protective cover material.</p>	<p style="text-align: center;">COMMENT</p>
<p><u>RESULTS:</u> No density testing</p>	<p>None</p>
<p>BY:</p>	<p style="text-align: center;">CORRESPONDING DATA SHEETS</p>
<p style="text-align: center;">CQA INSPECTOR</p>	<p>Site Sketch</p>
<p>REVIEWED BY:</p>	<p>APPROVED BY: <i>R.E. Brossier</i></p>
<p style="text-align: center;">PROJECT ENGINEER</p>	<p style="text-align: center;">CERTIFYING ENGINEER</p>

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-05-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 75 Lo: 65 Clear x Partly Cloudy 1.29 Precipitation
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. _____ OT Shift: 7 to 3:30
 (Contractor) Hours Worked: _____ Reg. 8 OT Shift: 7 to 3:30

General Contractor's Work Force			Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Phase III composite, Screening material

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

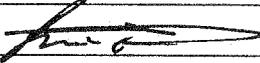
Item No. 6: Geo-composite deployment.

Sub-contractor Hallaton continued placement of Geo-composite. All was placed and connected per specifications.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor stockpiling screened material in preparation of Protective cover placement

Attachments: Yes No

Signed 

Description: _____

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative



<p align="center"> CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p>		Sheet No. : 1 of 1 Report #: 73 Date: 06-05-04 Weather: PC low 62 high 81
<p align="center">WORK AND EQUIPMENT</p>		<p>VISITORS</p>
<p><u>EQUIPMENT:</u> Screener, excavator</p>		<p>None</p>
<p><u>WORK COMPLETED:</u></p> <p>Item No. 7: Excavate, Transport and Install Protective Soil Layer Material Contractor continued stockpiling protective cover material.</p>		<p>MATERIALS RECEIVED</p>
<p><u>RESULTS:</u> No density testing</p>		<p>none</p>
<p><u>BY:</u> </p>		<p>None</p>
<p><u>REVIEWED BY:</u></p>		<p>COMMENT</p>
<p>CQA INSPECTOR</p>		<p>CORRESPONDING DATA SHEETS</p>
<p>PROJECT ENGINEER</p>		<p>Site Sketch</p>
<p>APPROVED BY: </p>		<p>CERTIFYING ENGINEER</p>



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-06-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi _____ Lo: _____ Clear _____ Partly _____ Cloudy _____ Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: _____ Reg. _____ OT Shift: _____ to _____

(Contractor) Hours Worked: _____ Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent			Loader Backhoes				
Engineer			F.E. Loaders				
Foreman			Dozers				
Asst. Foreman			Grader				
Equip. Operators			Dump Trucks				
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers			Compactors				
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors			Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total		*	Total		*		*

*Designates subcontractors

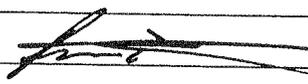
Activity and Location: _____

Defective work noted today to be corrected later: _____

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Not work performed today, not a scheduled work day.

Attachments: Yes No

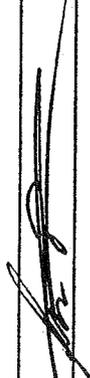
Signed 

Description: _____

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative



CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT		Sheet No. : 1 of 1 Date: 06-06-04 Weather: PC	Report #: 74 low high
WORK AND EQUIPMENT		VISITORS	
EQUIPMENT: None		MATERIALS RECEIVED	
WORK COMPLETED: No work completed, not a scheduled work day.		none	
RESULTS: No density testing		COMMENT	
		None	
		CORRESPONDING DATA SHEETS	
BY: 		APPROVED BY: 	
CQA INSPECTOR		CERTIFYING ENGINEER	
REVIEWED BY:			
PROJECT ENGINEER			



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-07-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 84 Lo: 65 _____ Clear x Partly _____ Cloudy 0 Precipitation _____
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00
 (Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Down drain, LLDPE in phase III and IV

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 3: Intermediate Cover Material.

Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill in phase IV, and grading site in preparation of liner placement. (77loads) I performed nuclear density testing on sub-grade in Phase III prior to LLDPE placement.

Item No. 5: LLDPE Installation

Sub-contractor Hallaton, on site placing LLDPE in Phase III area. They place approximately 57983 sq. ft.

Item No. 6: Geo-composite deployment.

No composite placed.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

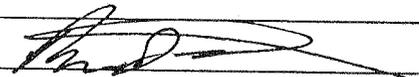
Contractor stockpiling screened material in preparation of Protective cover placement

Item No. 11: Furnish and install 18" Down Drain.

Contractor commenced excavation for second down drain.

Attachments: Yes No

Signed



Description:

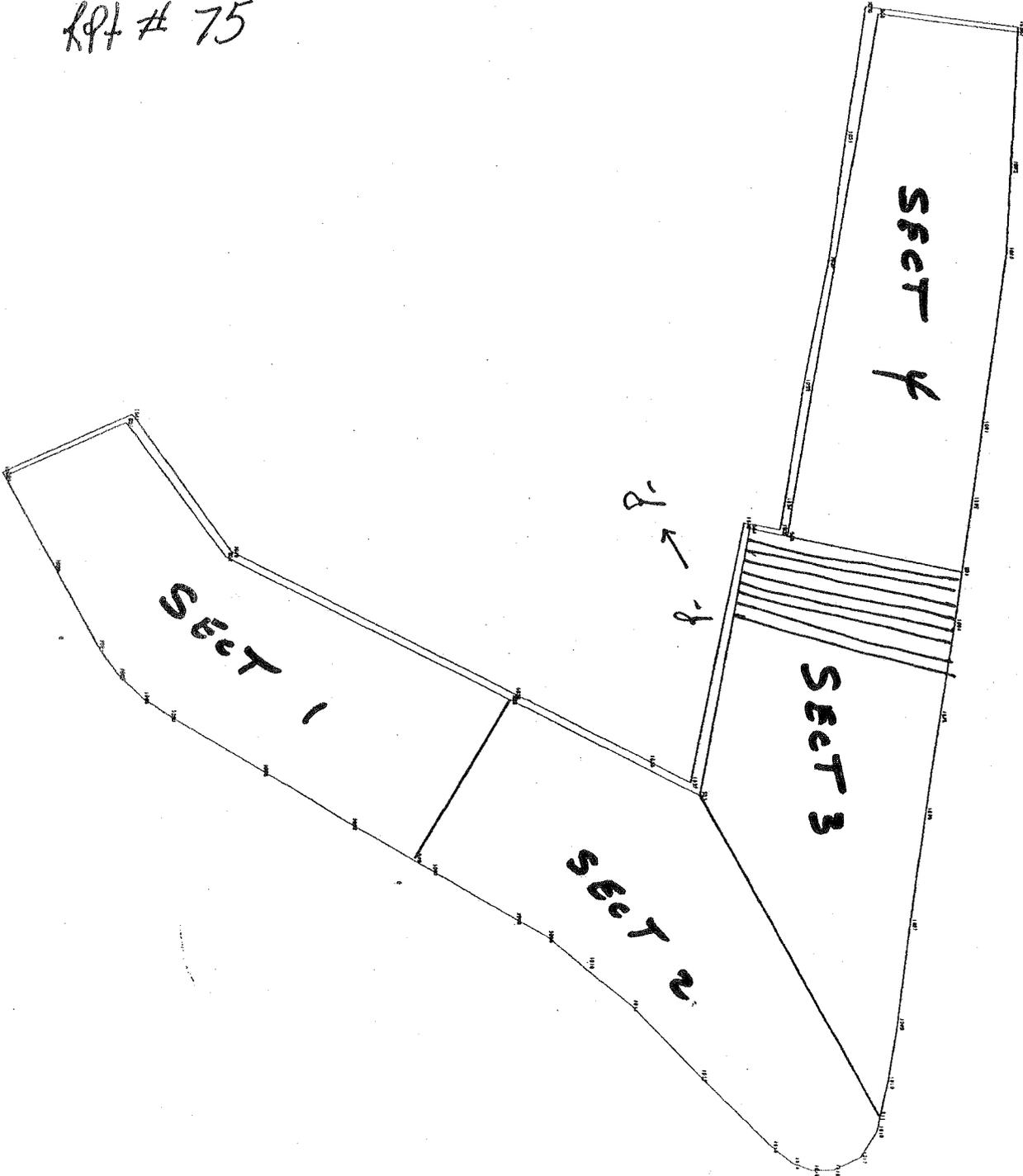
(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

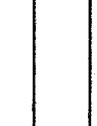
CDM

Site Sketch

6-7-4
RPT # 75

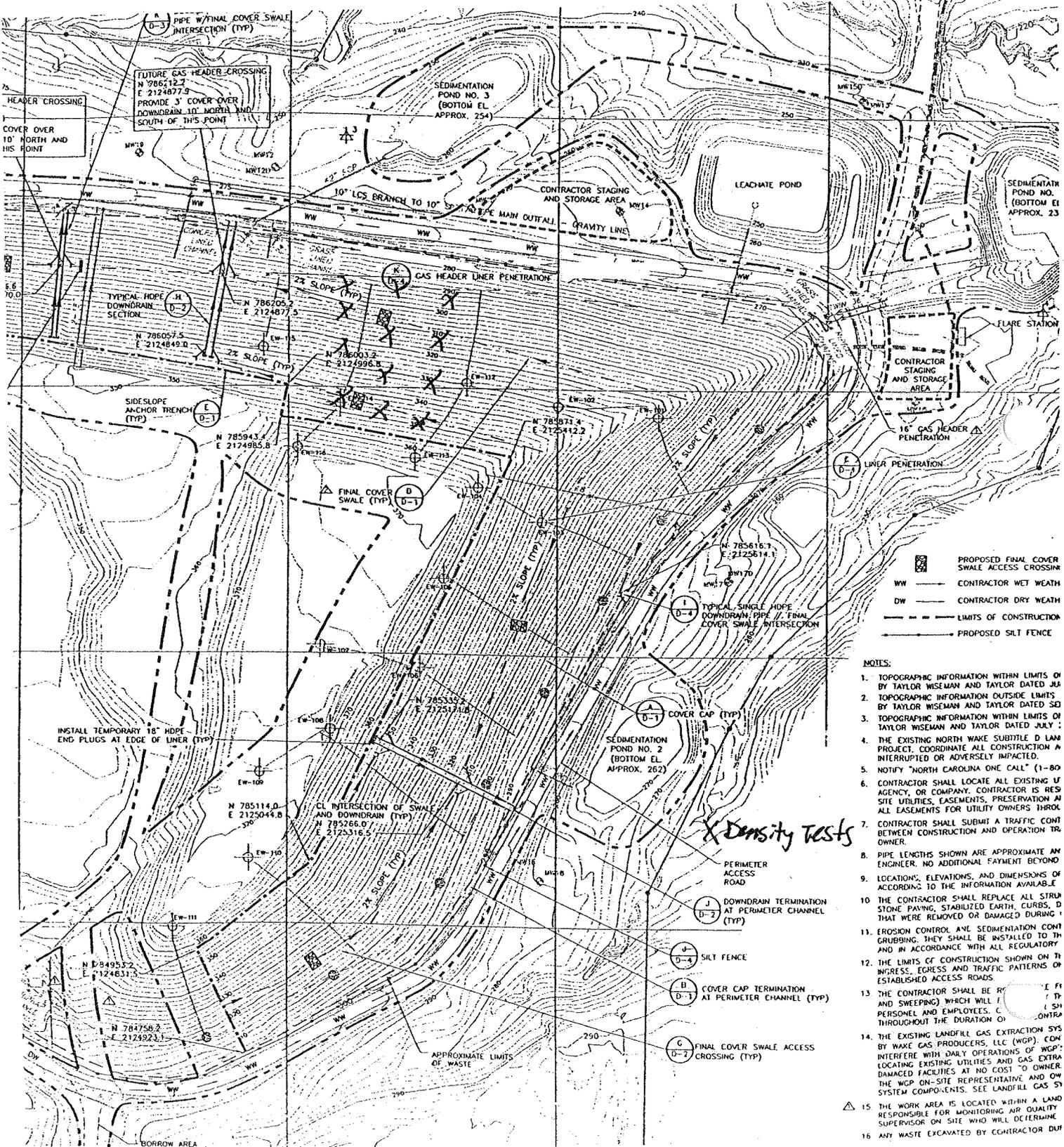




<p align="center"> CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p>	<p> Sheet No. : 1 of 3 Report #: 75 Date: 06-07-04 Weather: PC low 65 high 84 </p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	<p>None</p>
<p>WORK COMPLETED:</p>	<p>MATERIALS RECEIVED</p>
<p> <u>Item No. 3: Intermediate Cover Material.</u> Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill and grading site in preparation of liner placement in Phase IV. They worked placing fill in the Phase III area Flap void. Contractor also excavating anchor trench in Phase III and V. </p>	<p>none</p>
<p> I performed field density tests on areas ready located in phase III anchor trench and bottom flap area and also prior to liner placement I performed density tests on Phase III slope. </p>	<p>COMMENT</p>
<p> <u>Item No. 7: Excavate, Transport and Install Protective Soil Layer Material</u> Contractor continued stockpiling protective cover material. </p>	<p>CORRESPONDING DATA SHEETS</p>
<p>RESULTS: See attached</p>	<p>Site Sketch Density tests</p>
<p>BY: </p>	<p>APPROVED BY: </p>
<p>REVIEWED BY:</p>	<p>CERTIFYING ENGINEER</p>
<p>PROJECT ENGINEER</p>	<p>CQA INSPECTOR</p>

6-7-4
RPT # 75

Site Sketch



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-08-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 86 Lo: 70 _____ Clear x Partly _____ Cloudy 0 Precipitation _____
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00
 (Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Down drain, composite in phase III

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 5: LLDPE Installation

Sub-contractor Hallaton, on site placing LLDPE flaps in Phase III.

Item No. 6: Geo-composite deployment.

Sub-contractor Hallaton continued placement of Geo-composite. All was placed and connected per specifications.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor stockpiling screened material in preparation of Protective cover placement

Item No. 11: Furnish and install 18" Down Drain.

Contractor continued excavation for second down drain.

Attachments: Yes No Signed 

Description: _____
(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative



CAMP DRESSER & McKEE
 (North Wake Subtitle D Landfill Phase I Closure)
DAILY CONSTRUCTION QUALITY ASSURANCE REPORT

Sheet No. : 1 of 2 Report #: 76
 Date: 06-08-04
 Weather: PC low 70 high 86

WORK AND EQUIPMENT

VISITORS

None

EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller

MATERIALS RECEIVED

none

WORK COMPLETED:

Item No. 7: Excavate, Transport and Install Protective Soil Layer Material
 Contractor continued stockpiling protective cover material.

COMMENT

None

Item No. 11: Down Drain.
 Contractor continued Down Drain excavation.

CORRESPONDING DATA SHEETS

Site Sketch

[Signature]

[Signature]

BY:

APPROVED BY:

CQA INSPECTOR

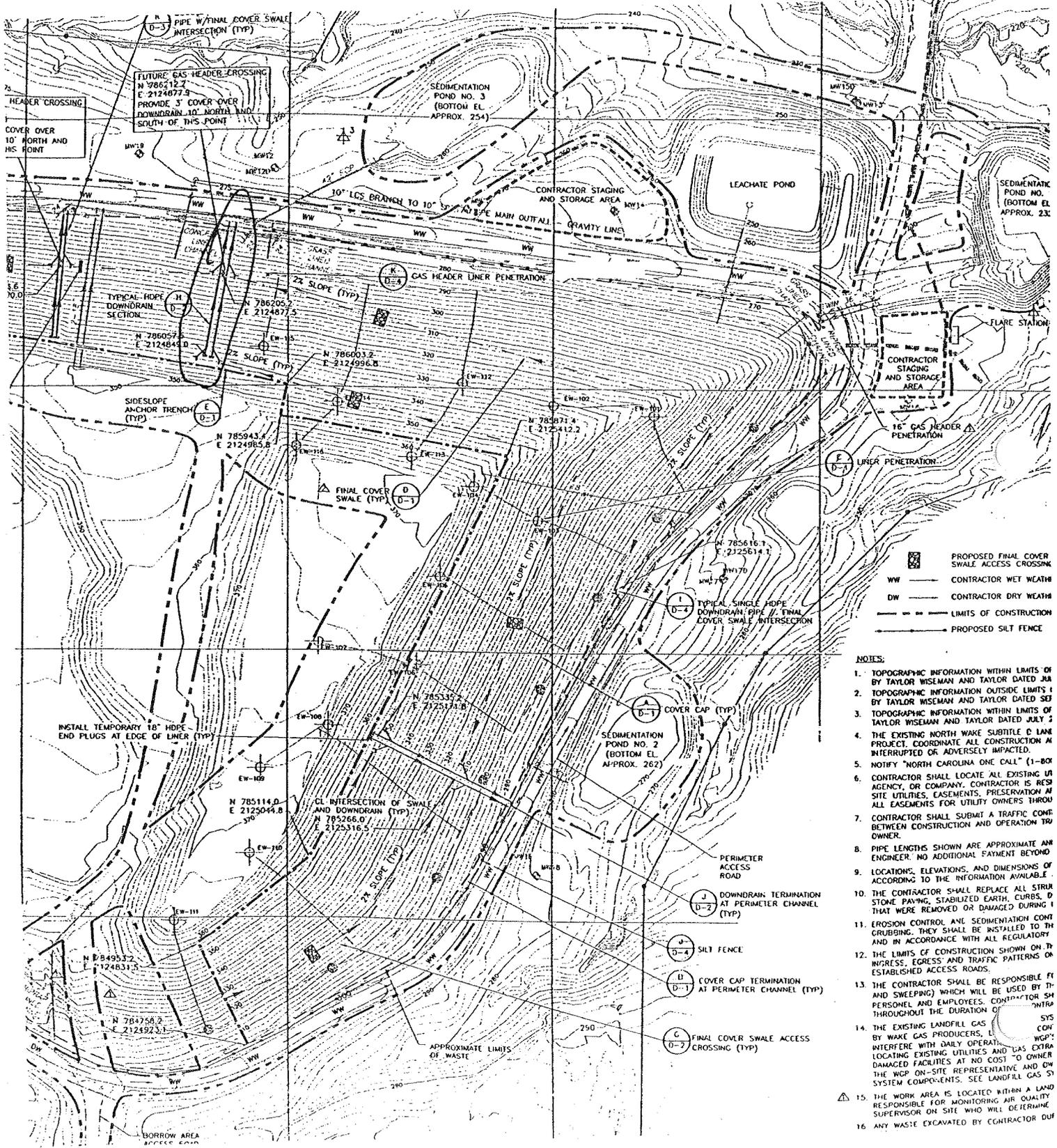
CERTIFYING ENGINEER

REVIEWED BY:

PROJECT ENGINEER

6-8-4
Rft. #76

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- CONTRACTOR WET WEATHER
- CONTRACTOR DRY WEATHER
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JAN
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED SEP
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY 3
 4. THE EXISTING NORTH WAKE SUBLETTE 0 LANE PROJECT, COORDINATE ALL CONSTRUCTION AT INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY AGENCY, OR COMPANY. CONTRACTOR IS RES SITE UTILITIES, EASEMENTS, PRESERVATION AT ALL EASEMENTS FOR UTILITY OWNERS THROU
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL BETWEEN CONSTRUCTION AND OPERATION THW OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AN ENGINEER. NO ADDITIONAL PAYMENT BEYOND
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ACCORDING TO THE INFORMATION AVAILABLE.
 10. THE CONTRACTOR SHALL REPLACE ALL STORM STONE PAVING, STABILIZED EARTH, CURBS, D THAT WERE REMOVED OR DAMAGED DURING I
 11. EROSION CONTROL AND SEDIMENTATION CONTROL CRUBBING, THEY SHALL BE INSTALLED TO TH AND IN ACCORDANCE WITH ALL REGULATORY
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS INFRESS, EGRESS AND TRAFFIC PATTERNS OF ESTABLISHED ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SWEEPING) WHICH WILL BE USED BY TH PERSONNEL AND EMPLOYEES. CONTRACTOR SH THROUGHOUT THE DURATION OF "NITRO
 14. THE EXISTING LANDFILL GAS SYSTEM CON BY WASTE GAS PRODUCERS, L WGP; INTERFERE WITH DAILY OPERATIONS. WGP; LOCATING EXISTING UTILITIES AND GAS EXTRA DAMAGED FACILITIES AT NO COST TO OWNER THE WGP ON-SITE REPRESENTATIVE AND ON SYSTEM COMPONENTS. SEE LANDFILL GAS S
 15. THE WORK AREA IS LOCATED WITHIN A LAND SUPERVISOR ON SITE WHO WILL DETERMINE
 16. ANY WASTE EXCAVATED BY CONTRACTOR DUE



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-09-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 89 Lo: 63 _____ Clear Partly _____ Cloudy trace Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

(Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Down drain, protective cover in phase I

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor stockpiling screened material and also placing in phase I.

Item No. 11: Furnish and install 18" Down Drain.

Contractor continued working on second down drain.

Item No. 17: Miscellaneous Work and Clean Up.

Contractor cleaning mud off concrete road caused from traffic due to rain.

Attachments: Yes No

Signed 

Description:

(Pipe Test Reports, Concrete Placement Reports, etc.)

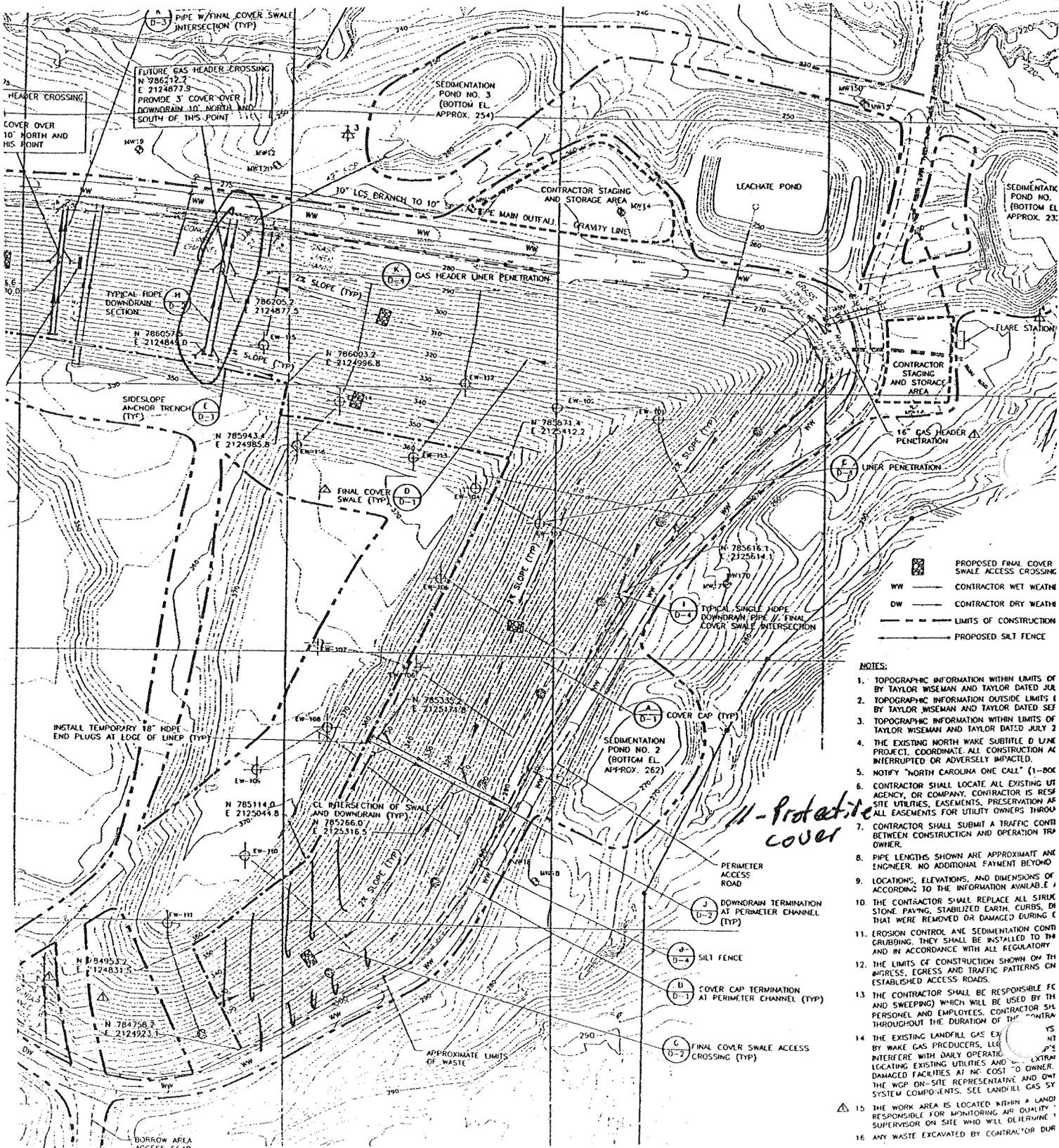
This report to be completed daily by each Project Representative



<p align="center"> CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p>	<p> Sheet No. : 1 of 2 Report #: 77 Date: 06-09-04 Weather: trace low 63 high 89 </p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p> <p>WORK COMPLETED:</p> <p>Item No. 7: Excavate, Transport and Install Protective Soil Layer Material Contractor continued stockpiling protective cover material and placed in Phase I area.</p> <p>Item No. 11: Down Drain. Contractor continued Down Drain work.</p> <p>RESULTS: none</p>	<p>None</p> <p>none</p> <p>None</p> <p align="center">CORRESPONDING DATA SHEETS</p> <p>Site Sketch</p>
<p>BY: </p>	<p>APPROVED BY: </p>
<p align="center">CQA INSPECTOR</p>	<p align="center">CERTIFYING ENGINEER</p>
<p align="center">PROJECT ENGINEER</p>	

6-9-4
 RPL # 77

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- CONTRACTOR WET WEATHER
- CONTRACTOR DRY WEATHER
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

- NOTES:
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JUL 2
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS (E) BY TAYLOR WISEMAN AND TAYLOR DATED SEP 1
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY 2
 4. THE EXISTING NORTH WAKE SUBTITLE D LINE PROJECT. COORDINATE ALL CONSTRUCTION AS INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800-688-7827) PRIOR TO ANY EXCAVATION.
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY LINES, EASEMENTS, PRESERVATION OF ALL EASEMENTS FOR UTILITY OWNERS THROUGHOUT THE DURATION OF THE PROJECT.
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE LOCAL AUTHORITY FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION AND OPERATION THEREAFTER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AND ENGINEER. NO ADDITIONAL PAYMENT BEYOND CONTRACT SHALL BE REQUIRED.
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL STRUCTURES SHALL BE ACCORDING TO THE INFORMATION AVAILABLE.
 10. THE CONTRACTOR SHALL REPLACE ALL STRIP CURBS, PAVING, STABILIZED EARTH, CURBS, DIKES THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
 11. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO PREVENT SOIL EROSION AND IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING. EGRESS AND TRAFFIC PATTERNS ON ESTABLISHED ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL EXISTING UTILITIES AND EMPLOYEES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL EXISTING UTILITIES AND EMPLOYEES THROUGHOUT THE DURATION OF THE PROJECT.
 14. THE EXISTING LANDFILL GAS EXHAUSTION SYSTEM SHALL BE MAINTAINED AND OPERATED BY WAKE GAS PRODUCERS, LLC. CONTRACTOR SHALL INTERFERE WITH DAILY OPERATIONS OF THE EXISTING LANDFILL GAS EXHAUSTION SYSTEM. CONTRACTOR SHALL LOCATE EXISTING UTILITIES AND DAMAGED FACILITIES AT NO COST TO THE OWNER. THE WGP ON-SITE REPRESENTATIVE AND DWI SYSTEM COMPONENTS. SEE LANDFILL GAS SYSTEM COMPONENTS. SEE LANDFILL GAS SYSTEM COMPONENTS.
 15. THE WORK AREA IS LOCATED WITHIN A LANDFILL. CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AIR QUALITY AND SOIL QUALITY. CONTRACTOR SHALL NOTIFY THE SUPERVISOR ON SITE WHO WILL DETERMINE THE APPROPRIATE ACTION TO BE TAKEN.
 16. ANY WASTE EXCAVATED BY CONTRACTOR DURING CONSTRUCTION SHALL BE STORED IN A DESIGNATED AREA AND SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AT THE END OF THE PROJECT.

11 - Protective cover



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-10-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 91 Lo: 69 _____ Clear x Partly _____ Cloudy .78 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

(Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Down drain, protective cover in phase I

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 4: Extensions to Existing Landfill Gas Extraction system Components, E. Furnish and Install Extension of 14" Gas Header Through Final Cover Liner.

Contractor commenced excavation of 14" gas header line located in Phase IV.

Item No. 5: Install 40 Mil LLDPE.

Sub-contractor Hallaton finished welding toe flap in Phase III.

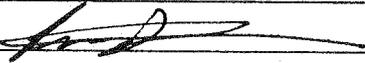
Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor stockpiling screened material and also placing in phase I.

Item No. 11: Furnish and install 18" Down Drain.

Contractor continued working on second down drain.

Attachments: Yes No

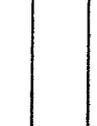
Signed 

Description: _____

(Pipe Test Reports, Concrete Placement Reports, etc.)

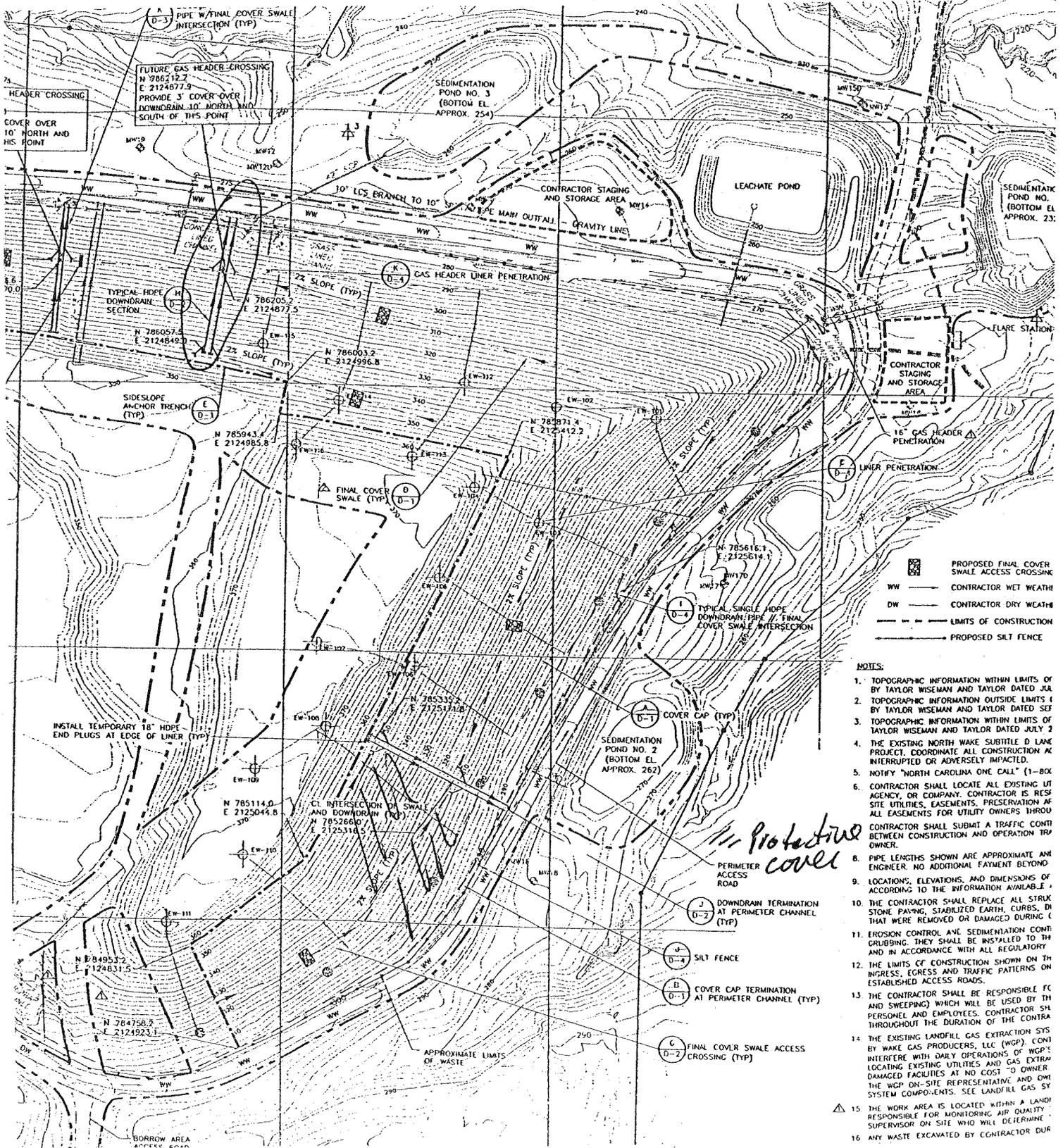
This report to be completed daily by each Project Representative



<p align="center"> CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p>	<p> Sheet No. : 1 of 2 Report #: 78 Date: 06-10-04 Weather: trace low 69 high 91 </p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	<p>None</p>
<p>WORK COMPLETED:</p>	<p align="center">MATERIALS RECEIVED</p>
<p>Item No. 7: Excavate, Transport and Install Protective Soil Layer Material Contractor continued stockpiling protective cover material and placed in Phase I area.</p>	<p>none</p>
<p>Item No. 11: Down Drain. Contractor continued Down Drain work.</p>	<p align="center">COMMENT</p>
<p>RESULTS: none</p>	<p>None</p>
<p>BY: </p>	<p align="center">CORRESPONDING DATA SHEETS</p>
<p align="center">CQA INSPECTOR</p>	<p>Site Sketch</p>
<p>REVIEWED BY:</p>	<p align="center">APPROVED BY: </p>
<p align="center">PROJECT ENGINEER</p>	<p align="center">CERTIFYING ENGINEER</p>

6-10-2
 RP# 78

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- WW CONTRACTOR WET WEATHER
- DW CONTRACTOR DRY WEATHER
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

NOTES:

1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JUL 2
2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS 1 BY TAYLOR WISEMAN AND TAYLOR DATED JUL 2
3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JUL 2
4. THE EXISTING NORTH WAKE SUBTITLE D LANE PROJECT, COORDINATE ALL CONSTRUCTION AS UNINTERRUPTED OR ADVERSELY IMPACTED.
5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800-CONTRACTOR) SHALL LOCATE ALL EXISTING UTILITY AGENCY, OR COMPANY. CONTRACTOR IS RESPONSIBLE FOR PRESERVATION OF ALL EASEMENTS FOR UTILITY OWNERS THROUGHOUT CONSTRUCTION AND OPERATION THROUGHOUT.
6. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE OPERATOR AND OPERATION THROUGHOUT.
7. PIPE LENGTHS SHOWN ARE APPROXIMATE AND ENGINEER. NO ADDITIONAL PAYMENT BEYOND ACCORDING TO THE INFORMATION AVAILABLE.
8. THE CONTRACTOR SHALL REPLACE ALL STRUCK STONE PAVING, STABILIZED EARTH, CURBS, ETC THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
9. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO THE EXTENT AND IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
10. THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL BE IN ACCORDANCE WITH THE ESTABLISHED ACCESS ROADS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SWEEPING) WHICH WILL BE USED BY THE PERSONNEL AND EMPLOYEES. CONTRACTOR SHALL MAINTAIN ACCESS THROUGHOUT THE DURATION OF THE PROJECT.
12. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM BY WAKE GAS PRODUCERS, LLC (WGP) CONTAINS METHANE WITH DAILY OPERATIONS OF WGP'S LOCATING EXISTING UTILITIES AND GAS EXTRACTION SYSTEMS AT NO COST TO THE OWNER. THE WGP ON-SITE REPRESENTATIVE AND OMI SYSTEM COMPOUNDS. SEE LANDFILL GAS SYSTEM COMPOUNDS.
13. THE WORK AREA IS LOCATED WITHIN A LANDFILL RESPONSIBLE FOR MONITORING AIR QUALITY SUPERVISOR ON SITE WHO WILL DETERMINE THE WORK AREA.
14. ANY WASTE EXCAVATED BY CONTRACTOR DURING CONSTRUCTION SHALL BE REMOVED FROM THE SITE.

Protective cover

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-11-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 93 Lo: 70 _____ Clear Partly _____ Cloudy 23 Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

(Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Down drain, protective cover in phase II

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 3: Intermediate Cover Material.

Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor grading sub grade in preparation of liner placement Sat.

Item No. 4: Extensions to Existing Landfill Gas Extraction system Components, E. Furnish and Install Extension of 14" Gas Header Through Final Cover Liner.

Contractor completed excavation of 14" gas header line located in Phase IV. Sub-contractor Hallaton extrusion welding extension, OK per Engineer.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

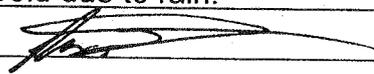
Contractor stockpiling screened material and also placing in phase II.

Item No. 11: Furnish and install 18" Down Drain.

Contractor continued working on second down drain.

Item No. 17: Miscellaneous Work and Clean up.

Contractor excavation mud and silt out of anchor trench/ flap void due to rain.

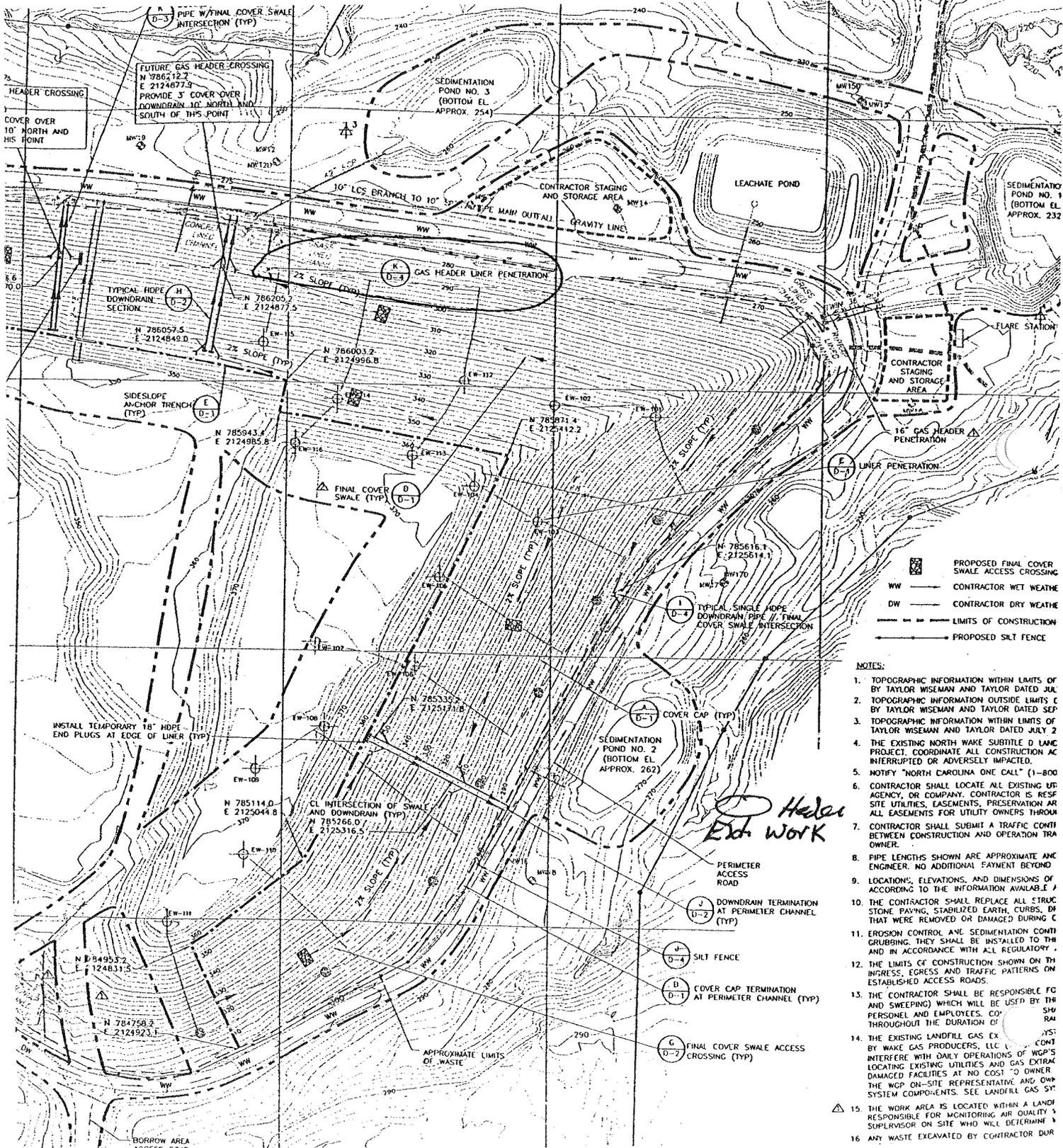
Attachments: Yes No Signed 

Description: _____
(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

6-11-04
RF # 79

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- WW CONTRACTOR WET WEATHER
- DW CONTRACTOR DRY WEATHER
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JUL 2
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JUL 2
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JUL 2
 4. THE EXISTING NORTH WAKE SUBTITLE D LANE PROJECT, COORDINATE ALL CONSTRUCTION AC INTERFERED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY AGENCY, OR COMPANY. CONTRACTOR IS RESP SITE UTILITIES, EASEMENTS, PRESERVATION ALL EASEMENTS FOR UTILITY OWNERS THROUGHOUT THE DURATION OF THE PROJECT.
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN BETWEEN CONSTRUCTION AND OPERATION TO THE OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AND ENGINEER. NO ADDITIONAL PAYMENT BEYOND APPROXIMATE LENGTHS.
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF UTILITIES TO BE SHOWN AS AVAILABLE TO THE CONTRACTOR.
 10. THE CONTRACTOR SHALL REPLACE ALL STRUCTURE, STABILIZED EARTH, CURBS, ETC. THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
 11. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO THE AND IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS SKETCH, EGRESS AND TRAFFIC PATTERNS ON ESTABLISHED ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERSONNEL AND EMPLOYEES, THROUGHOUT THE DURATION OF THE PROJECT.
 14. THE EXISTING LANDFILL GAS EXHAUSTION SYSTEM SHALL NOT BE INTERFERED WITH DAILY OPERATIONS OF WGP'S LOCATING EXISTING UTILITIES AND GAS EXTRACTION FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND OWNER SHALL BE RESPONSIBLE FOR MONITORING AIR QUALITY AND SYSTEM COMPONENTS. SEE LANDFILL GAS SYSTEM DESIGN.
 15. THE WORK AREA IS LOCATED WITHIN A LANDFILL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AIR QUALITY AND SUPERVISOR ON SITE WHO WILL DETERMINE IF ANY WASTE EXCAVATED BY CONTRACTOR DURING CONSTRUCTION IS HAZARDOUS.

*Header
Ext Work*

- PERIMETER ACCESS ROAD
- DOWNDRAIN TERMINATION AT PERIMETER CHANNEL (TYP)
- SILT FENCE
- COVER CAP TERMINATION AT PERIMETER CHANNEL (TYP)
- FINAL COVER SWALE ACCESS CROSSING (TYP)

INSTALL TEMPORARY 18\"/>

CL INTERSECTION OF SWALE AND DOWNDRAIN (TYP)

APPROXIMATE LIMITS OF WASTE

BORROW AREA ACCESS ROAD



CAMP DRESSER & McKEE
 (North Wake Subtitle D Landfill Phase I Closure)
DAILY CONSTRUCTION QUALITY ASSURANCE REPORT

Sheet No. : 1 of 2 Report #: 79
 Date: 06-11-04
 Weather: trace low 70 high 93

WORK AND EQUIPMENT

VISITORS

EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller

None

WORK COMPLETED:

MATERIALS RECEIVED

Item No. 3: Intermediate Cover Material.

none

Contractor grading sub grade in preparation of liner placement Sat.

COMMENT

Item No. 7: Excavate, Transport and Install Protective Soil Layer Material
 Contractor continued stockpiling protective cover material and placed in Phase I area.

None

CORRESPONDING DATA SHEETS

Item No. 11: Down Drain.

Contractor continued Down Drain work.

Site Sketch

RESULTS:

none

BY:



APPROVED BY:



CQA INSPECTOR

CERTIFYING ENGINEER

REVIEWED BY:

PROJECT ENGINEER

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-12-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 74 Lo: 65 _____ Clear x Partly _____ Cloudy _____ Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. _____ OT Shift: 7 to 3:30

(Contractor) Hours Worked: _____ Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force		and		Subcontractor's Work Force			
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

^Activity and Location: protective cover in phase I

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor stockpiling screened material and also grading in phase I.

Item No. 17: Miscellaneous Work and Clean up.

Contractor excavation mud and silt out of anchor trench/ flap void and drainage ditch due to rain.

Attachments: Yes No Signed 

Description: _____
(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative



CAMP DRESSER & McKEE
 (North Wake Subtitle D Landfill Phase I Closure)
DAILY CONSTRUCTION QUALITY ASSURANCE REPORT

Sheet No.: 1 of 2 Report #: 80
 Date: 06-12-04
 Weather: trace low 65 high 74

WORK AND EQUIPMENT

VISITORS

None

EQUIPMENT: CAT D6M, CAT D4C, Volvo end dumps, 563 smooth drum roller

MATERIALS RECEIVED

WORK COMPLETED:

Item No. 3: Intermediate Cover Material.

Contractor grading sub grade again due to the rain in preparation of liner placement.

none

COMMENT

None

Item No. 7: Excavate, Transport and Install Protective Soil Layer Material

Contractor continued stockpiling protective cover material and graded out cover material in Phase I.

CORRESPONDING DATA SHEETS

Site Sketch

RESULTS:

none

[Signature]

APPROVED BY: *[Signature]*

CQA INSPECTOR

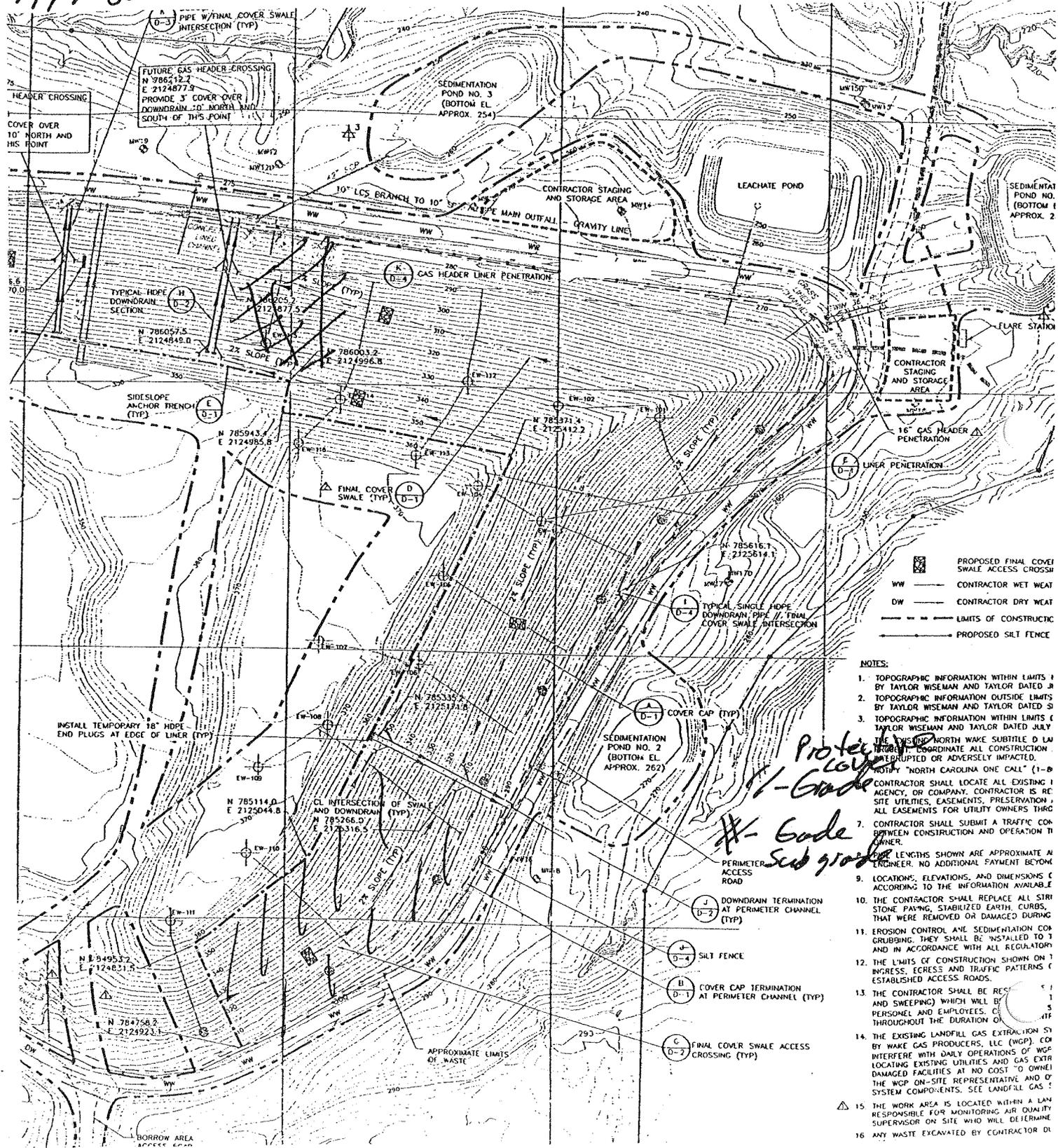
CERTIFYING ENGINEER

REVIEWED BY:

PROJECT ENGINEER

Site Sketch

6-12-4
194#80



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- WW CONTRACTOR WET WEIR
- DW CONTRACTOR DRY WEIR
- LIMITS OF CONSTRUCTION
- - - - - PROPOSED SILT FENCE

- NOTES:
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED IN
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED IN
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED JULY
 4. THE EXISTING NORTH WAKE SUBTITLE D LAND (1988) SHALL BE COORDINATED WITH ALL CONSTRUCTION AND NOT INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800-4-A-SAFE) PRIOR TO ANY EXCAVATION.
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY AGENCIES, EASEMENTS, PRESERVATION, AND ALL EASEMENTS FOR UTILITY OWNERS THROUGHOUT THE DURATION OF THE PROJECT.
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE LOCAL AGENCY FOR APPROVAL PRIOR TO CONSTRUCTION AND OPERATION THEREOF.
 8. DIMENSIONS SHOWN ARE APPROXIMATE AND ENGINEER. NO ADDITIONAL PAYMENT BEYOND CONTRACT SHALL BE REQUIRED.
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES SHALL BE INSTALLED TO 1" ACCURACY AND IN ACCORDANCE WITH ALL REGULATORY AGENCIES.
 10. THE CONTRACTOR SHALL REPLACE ALL STRIPPED PAVING, STABILIZED EARTH, CURBS, AND OTHER STRUCTURES REMOVED OR DAMAGED DURING CONSTRUCTION.
 11. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO 1" ACCURACY AND IN ACCORDANCE WITH ALL REGULATORY AGENCIES.
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERSONNEL AND EMPLOYEES, INCLUDING ALL CONTRACTORS, THROUGHOUT THE DURATION OF THE PROJECT.
 14. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM BY WAKE GAS PRODUCERS, LLC (WGP), COULD INTERFERE WITH DAILY OPERATIONS OF WGP. LOCATING EXISTING UTILITIES AND GAS EXTRACTION DAMAGED FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND OTHER SYSTEM COMPONENTS. SEE LANDFILL GAS EXTRACTION SYSTEM DRAWING.
 15. THE WORK AREA IS LOCATED WITHIN A LAND RESPONSIBLE FOR MONITORING AIR QUALITY SUPERVISOR ON SITE WHO WILL DETERMINE THE NECESSARY MEASURES TO BE TAKEN.
 16. ANY WASTE EXCAVATED BY CONTRACTOR SHALL BE PROPERLY HANDLED AND DISPOSED OF.

*Protect
1-Grade
#-Grade
Sub grade*

BORROW AREA

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-13-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi _____ Lo: _____ Clear _____ Partly _____ Cloudy _____ Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: _____ Reg. _____ OT Shift: _____ to 3:30

(Contractor) Hours Worked: _____ Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and				Subcontractor's Work Force			
Labor Classification			Equipment Classifications							
		II*		Type	Type*	Size	Size*			
Project Manager			Backhoes							
Superintendent			Loader Backhoes							
Engineer			F.E. Loaders							
Foreman			Dozers							
Asst. Foreman			Grader							
Equip. Operators			Dump Trucks							
Masons			Pick-up Trucks							
Pipe layers			Cars							
Laborers			Compactors							
Truck Drivers			Pumps							
Carpenters			Water Truck							
Flag people			Well Point Systems							
Surveyors			Cranes							
Painters			Welder							
Plumbers			Compressors							
Pavers										
Electricians										
Total		*	Total		*		*			

*Designates subcontractors

Activity and Location: _____

Defective work noted today to be corrected later: _____



CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase / Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT		Sheet No.: 1 of 1 Date: 06-13-04 Weather: trace low high	Report #: 81
WORK AND EQUIPMENT		VISITORS	
EQUIPMENT:		None	
WORK COMPLETED: Not a scheduled work day.		MATERIALS RECEIVED	
RESULTS:		none	
		COMMENT	
		None	
		CORRESPONDING DATA SHEETS	
BY:		APPROVED BY: <i>R.E. Dresser</i>	
CQA INSPECTOR		CERTIFYING ENGINEER	
REVIEWED BY:			
PROJECT ENGINEER			

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-14-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 85 Lo: 70 _____ Clear x Partly _____ Cloudy .05 Precipitation _____
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00
 (Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location: Down drain, protective cover in phase II

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 5: LLDPE Installation

Sub-contractor Hallaton, on site placing LLDPE in Phase III area. They place approximately 144676 sq. ft. Compaction testing completed prior to placement.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor screener broke down. Contractor placing second lift in phase I.

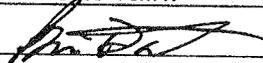
Item No. 11: Furnish and install 18" Down Drain.

Contractor completed working on second down drain. Compaction testing completed.

Item No. 17: Miscellaneous Work and Clean up.

Contractor excavation mud and silt out of anchor trench/ flap void due to rain.

Attachments: Yes No

Signed 

Description:

(Pipe Test Reports, Concrete Placement Reports, etc.)

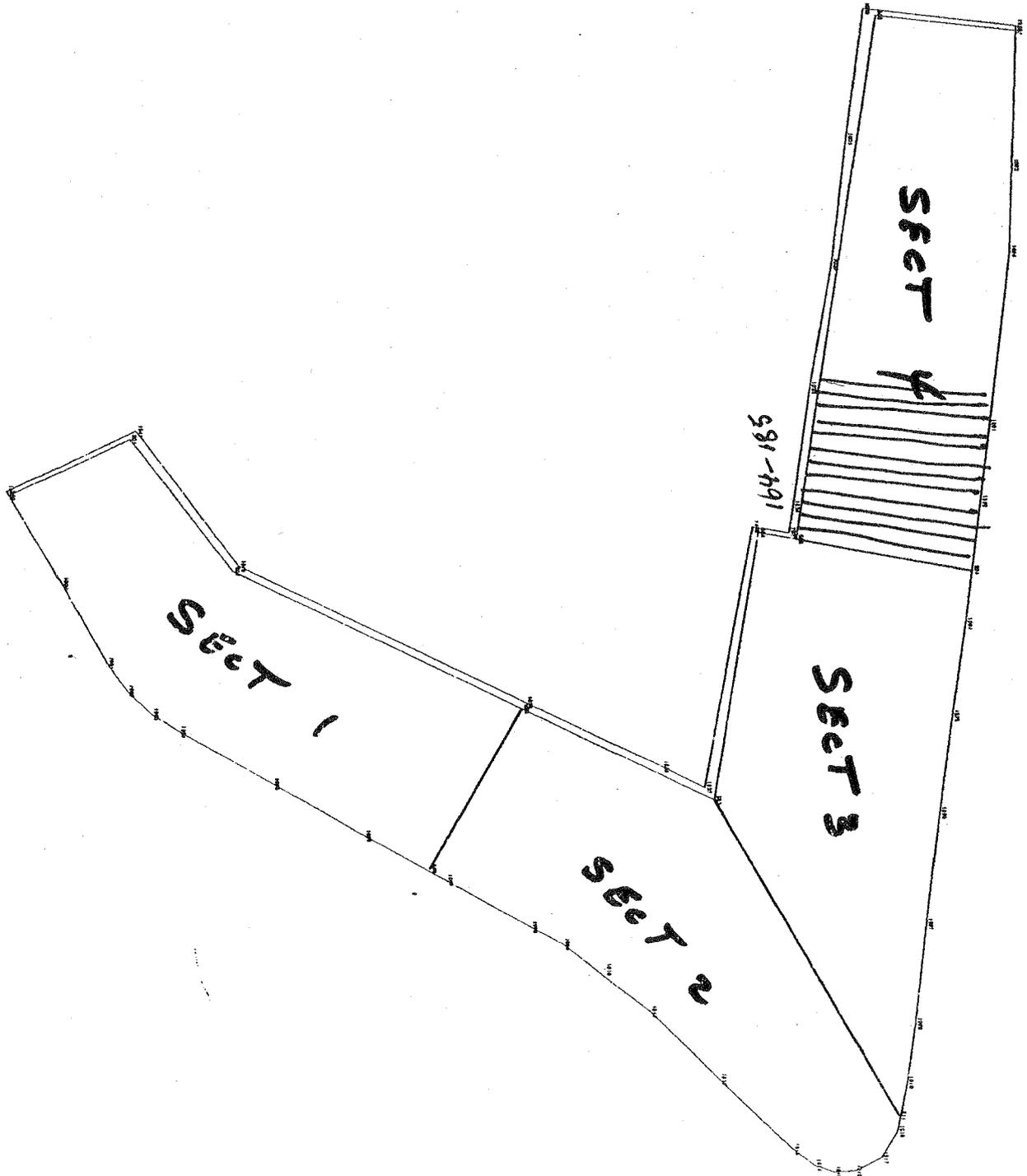
This report to be completed daily by each Project Representative

CDM

b-14-4

Rpt. # 82

Site Sketch





<p align="center"> CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase / Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p>	<p> Sheet No. : 1 of 3 Report #: 82 Date: 06-14-04 Weather: low 75 high 85 </p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	<p>None</p>
<p>WORK COMPLETED:</p>	<p align="center">MATERIALS RECEIVED</p>
<p>Item No. 5: LLDPE Installation: Contractor completed compaction on phase IV area where liner is to be placed. I performed field density testing on this area prior to LLDPE placement.</p>	<p>none</p>
<p>Item No. 7: Excavate, Transport and Install Protective Soil Layer. Contractor screener broke down. Contractor placing second lift in phase I.</p>	<p align="center">COMMENT</p>
<p>Item No. 11: Furnish and install 18" Down Drain. Contractor completed working on second down drain. Compaction testing completed.</p>	<p>None</p>
<p>RESULTS: The results from density testing indicated that all test were at least 95% of the max dry density that was being used.</p>	<p align="center">CORRESPONDING DATA SHEETS</p>
<p>BY:</p>	<p>Site sketch Density tests</p>
<p align="center">CQA INSPECTOR</p>	<p align="center">APPROVED BY: R.E. Burrows</p>
<p>REVIEWED BY:</p>	<p align="center">CERTIFYING ENGINEER</p>
<p align="center">PROJECT ENGINEER</p>	



Field Density Test Summary

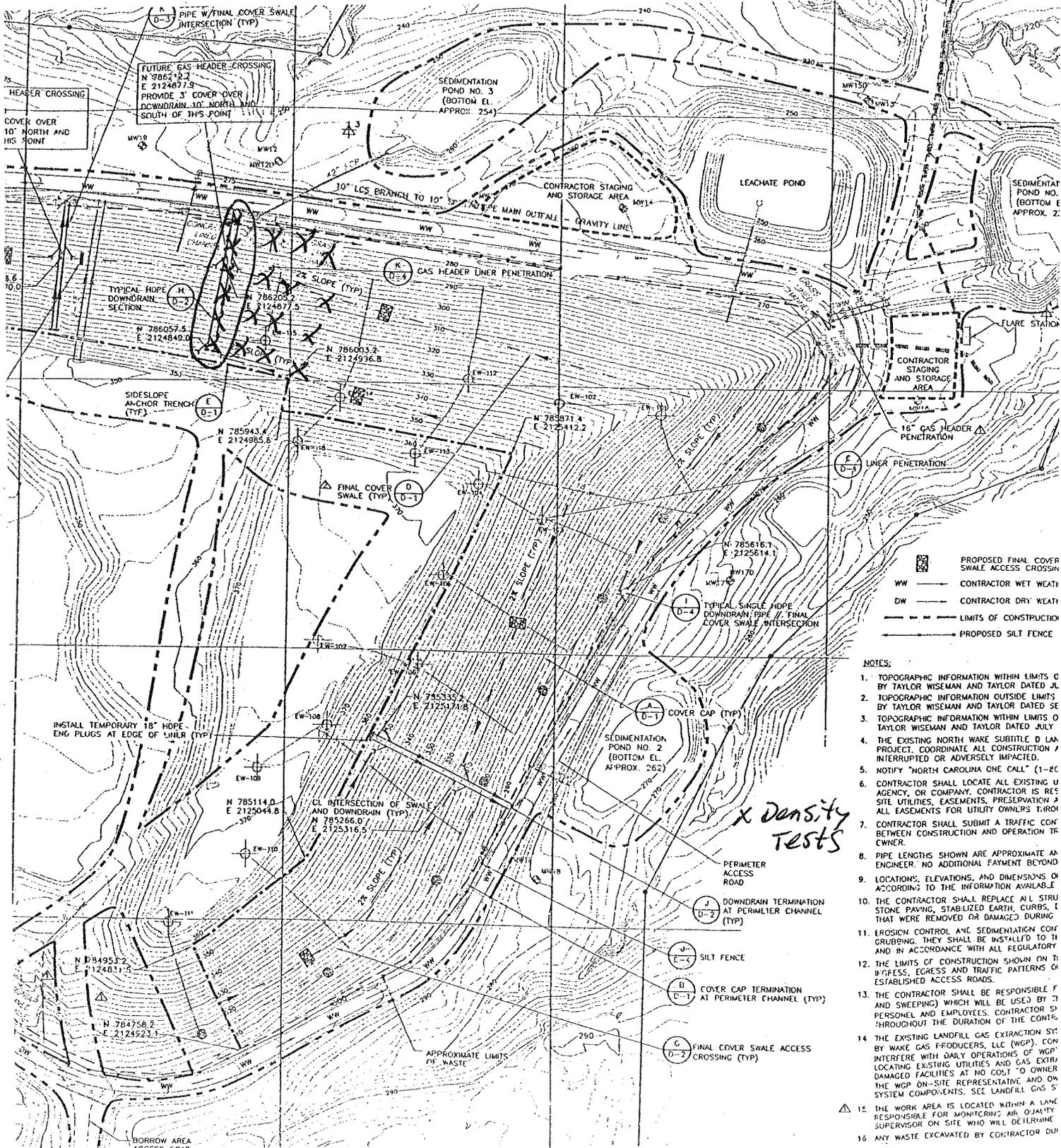
Client: <u>North Wake</u>	Date: <u>June 14, 2004</u>	Page: <u>1 of 1</u>
Project Name: <u>Phase I closure</u>	Technician: <u>Bion Dalton</u>	
Project Location: <u>North Wake Landfill</u>	DS = <u>2406</u> Passing = _____	
Project Number: <u>6172-42378</u>	MS = <u>667</u> Passing = _____	
	Trolox Gauge No./Type: <u>3440.no.30129</u>	

Test No.	Location	Elevation, Depth (ft) or Lift No.	Laboratory Test Results			Field Test Results			Compaction Achieved (%)	Compaction Required (%)	Status P / F	Comments Corrected Moisture
			Off-Site Borrow Source	Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (in)	Dry Density (pcf)	Wet Density (pcf)				
NW-199	Phase IV	1+2	onsite borrow	108.2	16.0	121.7	104.2	121.7	18	96.3%	P	16.8
NW-200	Phase IV	1+2	onsite borrow	108.2	16.0	121.3	104.9	121.3	17.9	97.0%	P	15.6
NW-201	Phase IV	1+2	onsite borrow	108.2	16.0	121.3	104.4	121.3	18.4	96.5%	P	16.2
NW-202	Phase IV	1+2	onsite borrow	108.2	16.0	120.8	103.7	120.8	19	95.8%	P	16.5
NW-203	Phase IV	1+2	onsite borrow	108.2	16.0	122.1	105.8	122.1	18.7	97.8%	P	15.4
NW-204	Phase IV	1+2	onsite borrow	108.2	16.0	121.7	105.7	121.7	18.9	97.7%	P	15.1
NW-205	Phase IV	1+2	onsite borrow	108.2	16.0	121.4	104.9	121.4	19.1	97.0%	P	15.7
NW-206	Phase IV	1+2	onsite borrow	108.2	16.0	122.3	105.0	122.3	18.2	97.0%	P	16.5
NW-207	Phase IV	1+2	onsite borrow	108.2	16.0	121.4	104.8	121.4	19	96.9%	P	15.8
NW-208	Phase IV	1+2	onsite borrow	108.2	16.0	121.2	105.1	121.2	18.7	97.2%	P	15.3
NW-209	Phase IV	1+2	onsite borrow	108.2	16.0	121	104.7	121	18.9	96.7%	P	15.6
NW-210	Phase IV	1+2	onsite borrow	108.2	16.0	120.9	104.0	120.9	19.3	96.2%	P	16.2
NW-211	Phase IV Down Drain area	1+2	onsite borrow	108.2	16.0	121.3	104.1	121.3	18.9	96.2%	P	16.5
NW-212	Phase IV Down Drain area	1+2	onsite borrow	108.2	16.0	121.6	105.0	121.6	21.2	97.1%	P	15.8
NW-213	Phase IV Down Drain area	1+2	onsite borrow	108.2	16.0	122	105.0	122	20.6	97.0%	P	16.2
NW-214	Phase IV Down Drain area	1+2	onsite borrow	108.2	16.0	121.8	104.5	121.8	20.9	96.6%	P	16.5
NW-215	Phase IV Down Drain area	1+2	onsite borrow	108.2	16.0	121.4	105.2	121.4	21.1	97.2%	P	15.4
NW-216	Phase IV Down Drain area	1+2	onsite borrow	108.2	16.0	121.6	105.0	121.6	21.4	97.1%	P	15.8

General Contractor: Thalle
 Earthwork Contractor: Thalle

6-14-4
Rpt. #82

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- CONTRACTOR WET WEATH
- CONTRACTOR DRY WEATH
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

- NOTES:
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF PROJECT BY TAYLOR WISEMAN AND TAYLOR DATED JULY 2001.
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS OF PROJECT BY TAYLOR WISEMAN AND TAYLOR DATED JULY 2001.
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF PROJECT BY TAYLOR WISEMAN AND TAYLOR DATED JULY 2001.
 4. THE EXISTING NORTH WAKE SUBSITE D L AN PROJECT. COORDINATE ALL CONSTRUCTION TO NOT INTERRUPT OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800-4-A-SAFE) PRIOR TO ANY EXCAVATION.
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY AGENCY, OR COMPANY. CONTRACTOR IS RESPONSIBLE FOR PRESERVATION OF ALL EASEMENTS FOR UTILITY OWNERS THROUGHOUT THE DURATION OF THE PROJECT.
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN BETWEEN CONSTRUCTION AND OPERATION TO THE OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AND AN ENGINEER. NO ADDITIONAL PAYMENT BEYOND CONTRACT SHALL BE REQUIRED.
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES SHALL BE AS SHOWN ON THE INFORMATION AVAILABLE TO THE CONTRACTOR.
 10. THE CONTRACTOR SHALL REPLACE ALL STRUCTURE PAVING, STABILIZED EARTH CURBS, ETC. THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
 11. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING. EGRESS AND TRAFFIC PATTERNS OF EXISTING ACCESS ROADS SHALL BE MAINTAINED.
 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SWEEPING WHICH WILL BE USED BY THE CONTRACTOR AND EMPLOYEES. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES THROUGHOUT THE DURATION OF THE PROJECT.
 13. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM BY WAKE GAS PRODUCERS, LLC (WGP) SHALL NOT INTERFERE WITH DAILY OPERATIONS OF WGP. LOCATING EXISTING UTILITIES AND GAS EXTRACTION FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND OWNERS SYSTEM COMPONENTS. SEE LANDFILL GAS SYSTEM DRAWING.
 14. THE WORK AREA IS LOCATED WITHIN A LANE RESPONSIBLE FOR MONITORING AIR QUALITY SUPERVISOR ON SITE WHO WILL DETERMINE ANY WASTE EXCAVATED BY CONTRACTOR DURING CONSTRUCTION.

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-15-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 84 Lo: 73 _____ Clear x Partly _____ Cloudy .28 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

(Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location protective cover in phase II

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 3: Intermediate Cover Material.

Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor placing fill in phase IV 1.1 addition where Santek has recently filled trash, and grading site in preparation of liner placement. (98 loads)

Item No. 5: LLDPE Installation

Sub-contractor Hallaton, on site placing LLDPE in Phase III area. They place approximately 144676 sq. ft. Compaction testing completed prior to placement.

Item No. 6: Geo-composite deployment.

Sub-contractor Hallaton placement of Geo-composite in phase IV. All was placed and connected per specifications.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor screener broke down. Contractor placing second lift in phase I.

Item No. 11: Furnish and install 18" Down Drain.

Contractor completed working on second down drain. Compaction testing completed.

Attachments: Yes No Signed 

Description: _____

(Pipe Test Reports, Concrete Placement Reports, etc.)

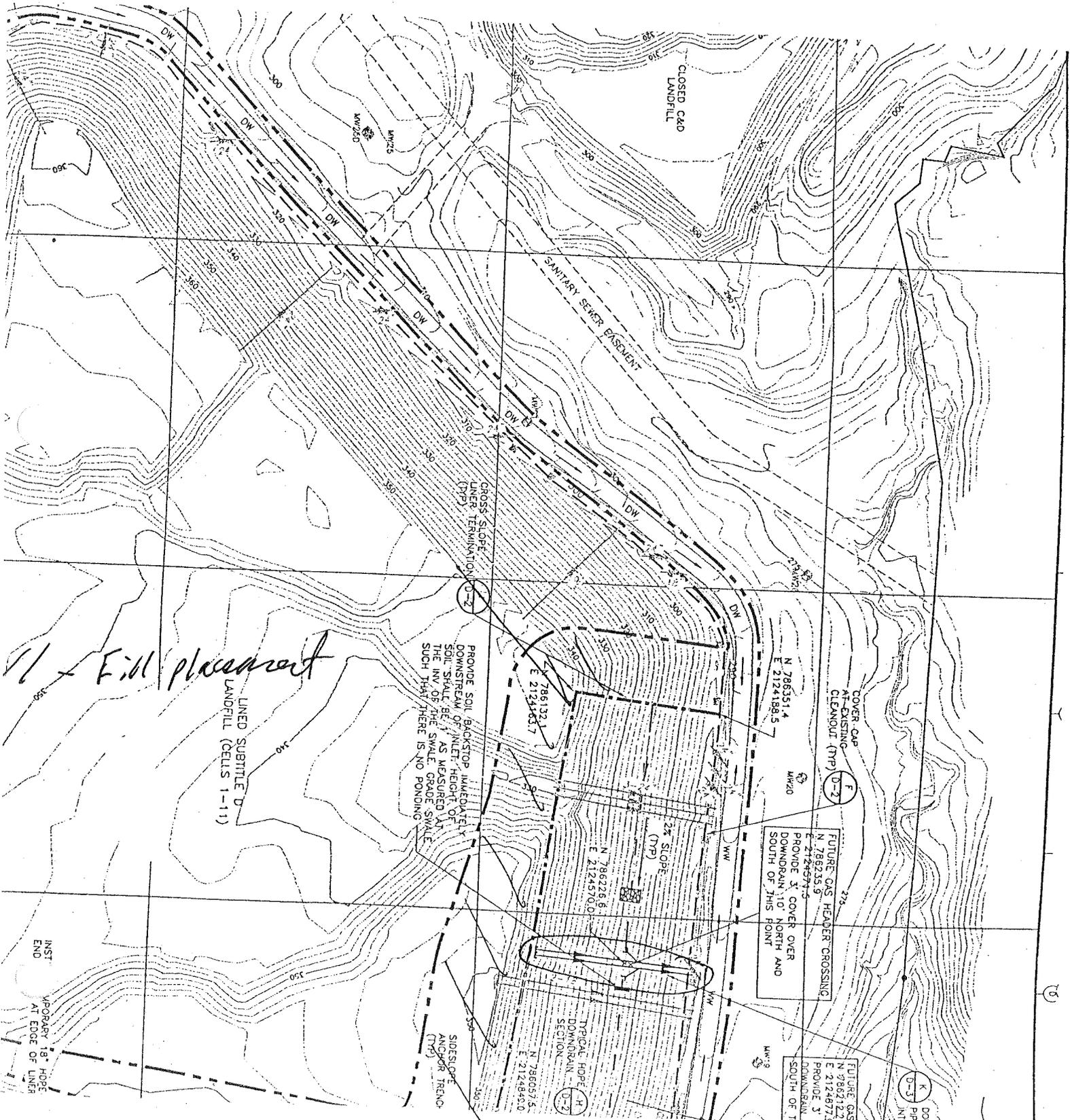
This report to be completed daily by each Project Representative



<p align="center"> CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p>	<p> Sheet No.: 1 of 3 Report #: 83 Date: 06-15-04 Weather: low 73 high 84 </p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p>EQUIPMENT: CAT D6M, CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	<p>None</p>
<p>WORK COMPLETED: <u>Item No. 3: Intermediate Cover Material.</u></p>	<p align="center">MATERIALS RECEIVED</p>
<p>Surveyor on site verifying depth of intermediate cover. 100 foot grids. Contractor placing fill in phase IV 1.1 addition where Santek has recently filled trash, and grading site in preparation of liner placement. (98 loads)</p>	<p>none</p>
<p><u>Item No. 7: Excavate, Transport and Install Protective Soil Layer.</u></p>	<p align="center">COMMENT</p>
<p>Contractor screener broke down. Contractor placing second lift in phase II.</p>	<p>None</p>
<p><u>Item No. 11: Furnish and install 18" Down Drain.</u></p>	<p align="center">CORRESPONDING DATA SHEETS</p>
<p>Contractor started and almost completed working on third down drain.</p>	<p>Site sketch</p>
<p>RESULTS: None</p>	<p>APPROVED BY: <i>R.E. Burtsoie</i></p>
<p>BY:</p>	<p align="center">CERTIFYING ENGINEER</p>
<p>REVIEWED BY:</p>	<p align="center">PROJECT ENGINEER</p>

16-15-04
 RPT # 83

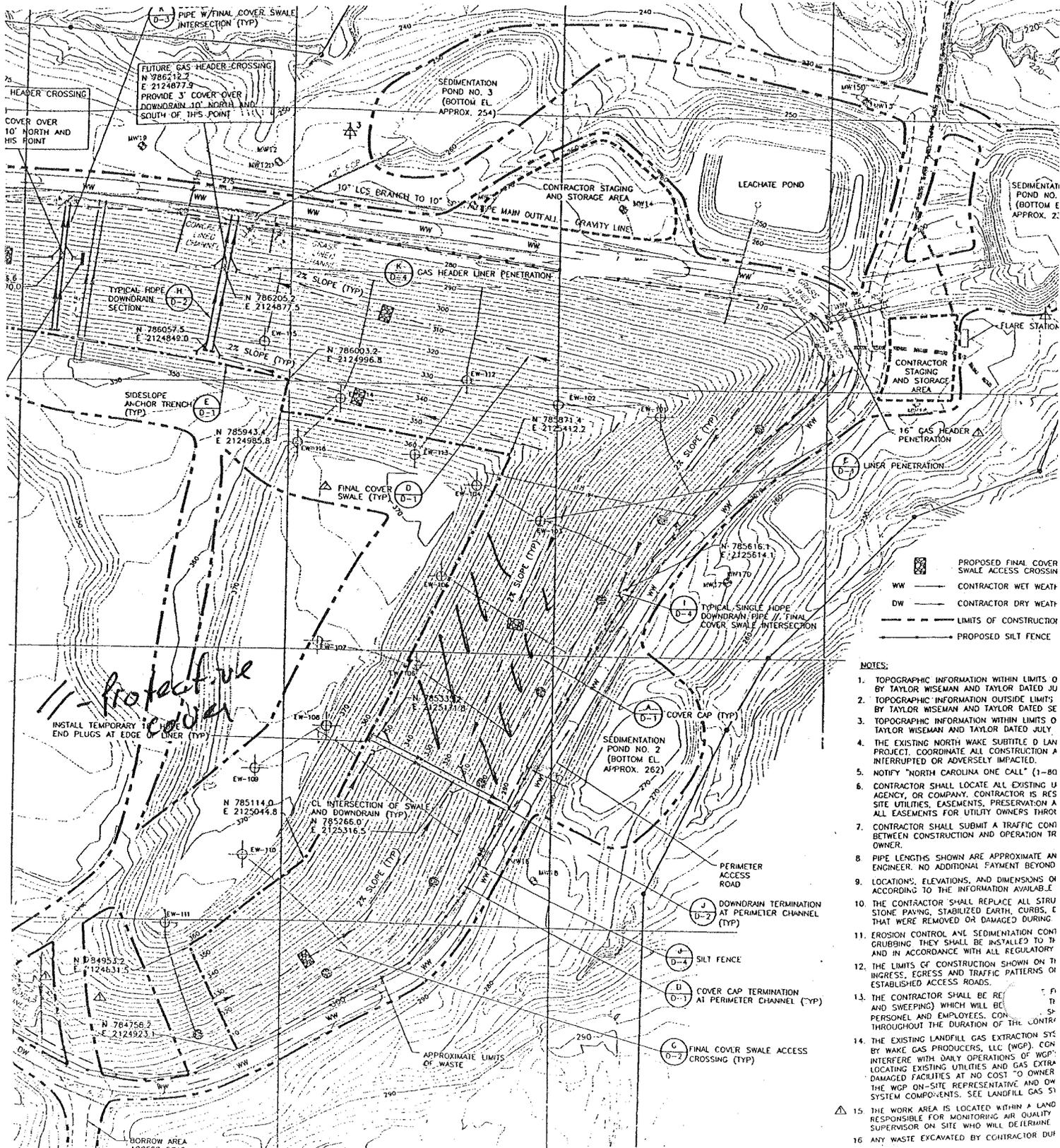
Site Sketch



Fill placement

06-15-04
RPT # 83

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- CONTRACTOR WET WEATH
- CONTRACTOR DRY WEATH
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

- NOTES:
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JULY.
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED SEPTEMBER.
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY.
 4. THE EXISTING NORTH WAKE SUBTITLE D LAMP PROJECT. COORDINATE ALL CONSTRUCTION TO BE INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800-4-A-SAFE) PRIOR TO ANY EXCAVATION.
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY AGENCY, OR COMPANY. CONTRACTOR IS RESPONSIBLE FOR ALL EASEMENTS FOR UTILITY OWNERS THROUGHOUT THE DURATION OF THE PROJECT.
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN BETWEEN CONSTRUCTION AND OPERATION TO THE OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AND AN ENGINEER. NO ADDITIONAL PAYMENT BEYOND THAT SHOWN.
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL UTILITIES SHALL BE AS SHOWN ON THE INFORMATION AVAILABLE.
 10. THE CONTRACTOR SHALL REPLACE ALL STREETS WITH STONE PAVING, STABILIZED EARTH, CURBS, ETC. THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
 11. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO PREVENT EROSION AND SEDIMENTATION FROM OCCURRING AND IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS SKETCH. EGRESS AND TRAFFIC PATTERNS OF ESTABLISHED ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL PERSONNEL AND EMPLOYEES. CONTRACTOR SHALL MAINTAIN THROUGHOUT THE DURATION OF THE PROJECT.
 14. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM BY WAKE GAS PRODUCERS, LLC (WGP). CONTRACTOR SHALL NOT INTERFERE WITH DAILY OPERATIONS OF WGP. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES AND GAS EXTRACTION FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND DW SYSTEM COMPONENTS. SEE LANDFILL GAS SYSTEM DRAWINGS.
 15. THE WORK AREA IS LOCATED WITHIN A LANDFILL. CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AIR QUALITY THROUGHOUT THE DURATION OF THE PROJECT. A SUPERVISOR ON SITE WHO WILL DETERMINE WHEN TO STOP WORK.
 16. ANY WASTE EXCAVATED BY CONTRACTOR DURING CONSTRUCTION SHALL BE PROPERLY HANDLED AND DISPOSED OF AT AN APPROVED LOCATION.

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-16-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 90 Lo: 74 _____ Clear x Partly _____ Cloudy 0 Precipitation _____
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00
 (Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location protective cover in phase II, LLDPE placement, and Intermediate fill placed

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 3: Intermediate Cover Material.

Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor grading fill in phase IV (completed), in preparation of liner placement.

Item No. 5: LLDPE Installation

Sub-contractor Hallaton, on site placing LLDPE in Phase III area. They place approximately 134228 sq. ft. Compaction testing completed prior to placement.(completed)

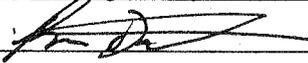
Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor screening protective cover material. Contractor placing second lift in phase II.

Item No. 11: Furnish and install 18" Down Drain.

Contractor completed working on third down drain. Compaction testing completed.

Attachments: Yes No

Signed: 

Description: _____

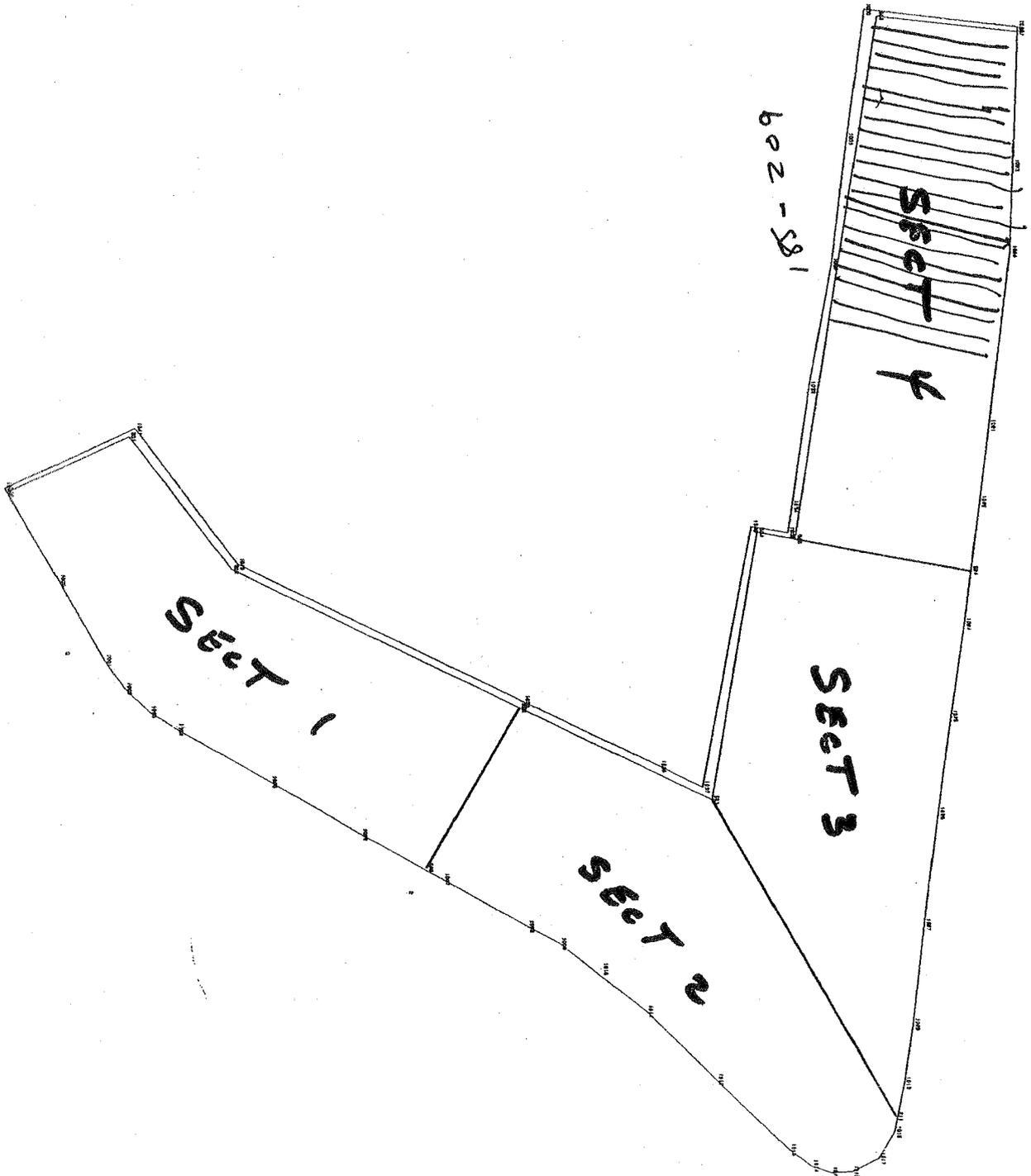
(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

CDM

6-16-4
RPT # 84

Site Sketch





<p align="center"> CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p>	<p> Sheet No.: 1 of 3 Report #: 84 Date: 06-16-04 Weather: low 74 high 90 </p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p><u>EQUIPMENT</u>: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	<p>None</p>
<p><u>WORK COMPLETED</u>: <u>Item No. 3: Intermediate Cover Material.</u></p>	<p align="center">MATERIALS RECEIVED</p>
<p>Surveyor on site verifying depth of Intermediate cover. 100 foot grids. Contractor grading fill in phase IV (completed), in preparation of liner placement. Compaction testing completed also.</p>	<p>none</p>
<p><u>Item No. 7: Excavate, Transport and Install Protective Soil Layer.</u> Contractor screening protective cover material. Contractor placing second lift in phase II.</p>	<p align="center">COMMENT</p>
<p><u>Item No. 11: Furnish and install 18" Down Drain.</u> Contractor completed working on third down drain. Compaction testing completed.</p>	<p>None</p>
<p>RESULTS: The results from density testing indicated that all test were at least 95% of the max dry density that was being used.</p>	<p align="center">CORRESPONDING DATA SHEETS</p>
<p>BY:</p>	<p>Site sketch Density testing</p>
<p>COA INSPECTOR</p>	<p>APPROVED BY: <i>R.E. Bunsie</i></p>
<p>REVIEWED BY:</p>	<p align="center">CERTIFYING ENGINEER</p>
<p align="center">PROJECT ENGINEER</p>	



Field Density Test Summary

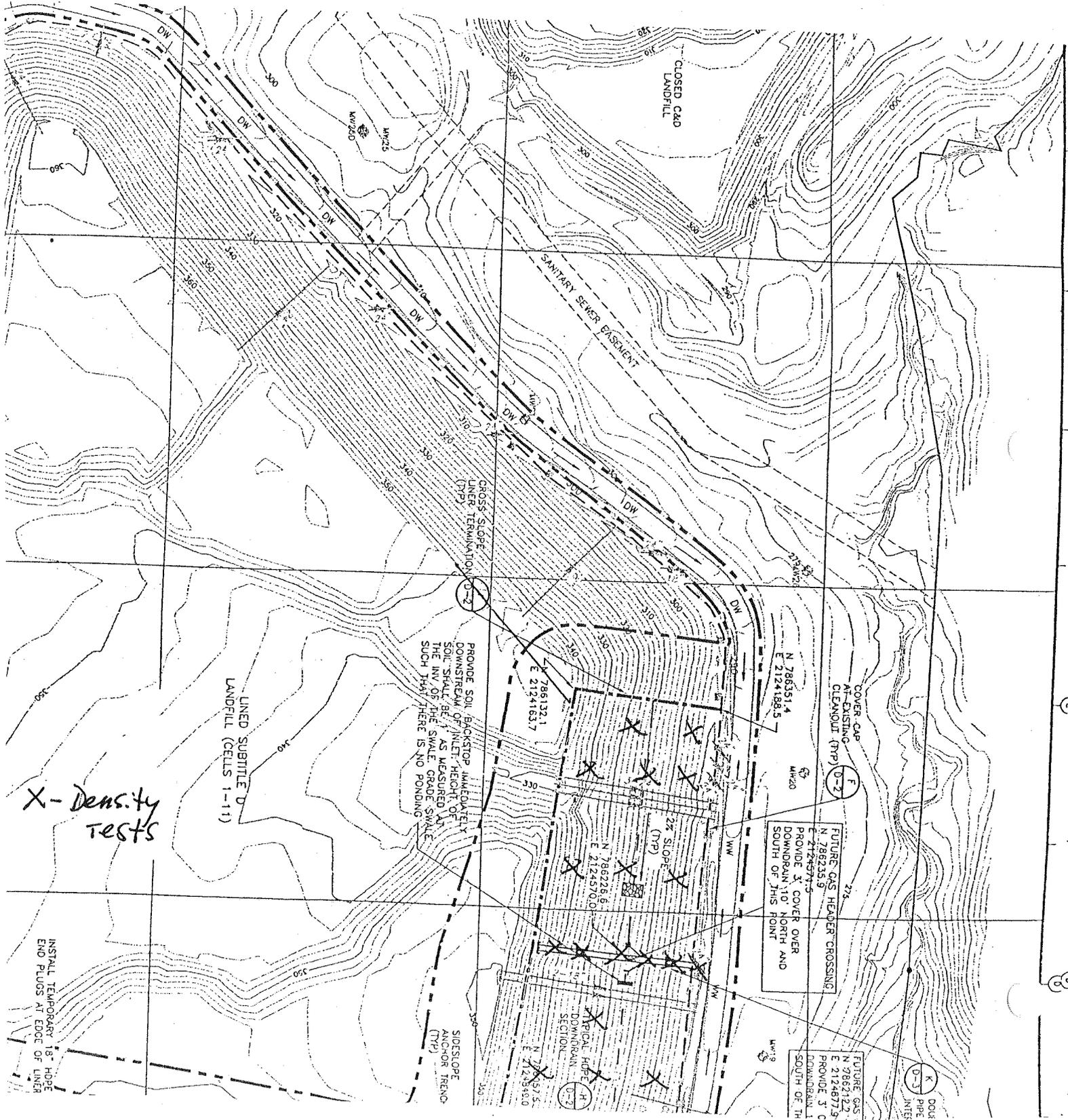
Client: <u>North Wake</u>	Date: <u>June 16, 2004</u>	Page: <u>1 of 1</u>
Project Name: <u>Phase I closure</u>	Technician: <u>Bion Dalton</u>	
Project Location: <u>North Wake Landfill</u>	DS = <u>2403</u> Passing = _____	
Project Number: <u>6172-42378</u>	MS = <u>664</u> Passing = _____	
	Trolox Gauge No./Type: <u>3440.no.30129</u>	

Test No.	Location	Elevation, Depth (ft) or Lift No.	Laboratory Test Results		Field Test Results			Compaction Achieved (%)	Compaction Required (%)	Status P / F	Comments
			Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (in)	Dry Density (pcf)	Wet Density (pcf)				
NW-217	Phase IV Down Drain area	1+2	108.2	16.0	12	104.4	121.3	19	96.5%	P	16.2
NW-218	Phase IV Down Drain area	1+2	108.2	16.0	12	104.9	121.5	19.2	97.0%	P	15.8
NW-219	Phase IV Down Drain area	1+2	108.2	16.0	12	105.5	122	18.9	97.5%	P	15.6
NW-220	Phase IV Down Drain area	1+2	108.2	16.0	12	105.0	121.8	18.7	97.1%	P	15.8
NW-221	Phase IV Down Drain area	1+2	108.2	16.0	12	104.5	121.3	18.6	96.6%	P	16.1
NW-222	Phase IV Down Drain area	1+2	108.2	16.0	12	105.0	122.6	18.6	97.0%	P	16.8
NW-223	Phase IV	1+2	108.2	16.0	12	105.3	121.8	18.1	97.3%	P	15.7
NW-224	Phase IV	1+2	108.2	16.0	12	104.0	121	18.6	96.1%	P	16.4
NW-225	Phase IV	1+2	108.2	16.0	12	104.5	122.1	18.2	96.6%	P	16.8
NW-226	Phase IV	1+2	108.2	16.0	12	104.6	121.6	19.6	96.6%	P	16.3
NW-227	Phase IV	1+2	108.2	16.0	12	104.7	121.1	19.4	96.7%	P	15.7
NW-228	Phase IV	1+2	108.2	16.0	12	105.2	121.6	18.9	97.2%	P	15.6
NW-229	Phase IV	1+2	108.2	16.0	12	104.2	121.3	18.7	96.3%	P	16.4
NW-230	Phase IV	1+2	108.2	16.0	12	105.3	121.5	19.7	97.3%	P	15.4
NW-231	Phase IV	1+2	108.2	16.0	12	104.4	120.9	20.1	96.5%	P	15.8
NW-232	Phase IV	1+2	108.2	16.0	12	104.0	120.9	19.9	96.2%	P	16.2
NW-233	Phase IV	1+2	108.2	16.0	12	104.3	121.3	19.6	96.4%	P	16.3
NW-234	Phase IV	1+2	108.2	16.0	12	104.3	120.7	19.7	96.4%	P	15.7

6-16-4

RF# 84

Site Sketch



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-17-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 92 Lo: 75 _____ Clear x Partly _____ Cloudy 0 Precipitation _____
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00
 (Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

^Activity and Location protective cover in phase II, composite, and intermediate fill placed

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 1: Stripping

Contractor commenced stripping of Phase V.

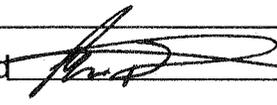
Item No. 6: Geo-composite deployment.

Sub-contractor Hallaton continued placement of Geo-composite. All was placed and connected per specifications.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor screening protective cover material. Contractor placing second lift in phase II.

Attachments: Yes No

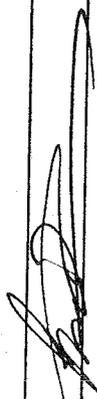
Signed 

Description: _____

(Pipe Test Reports, Concrete Placement Reports, etc.)

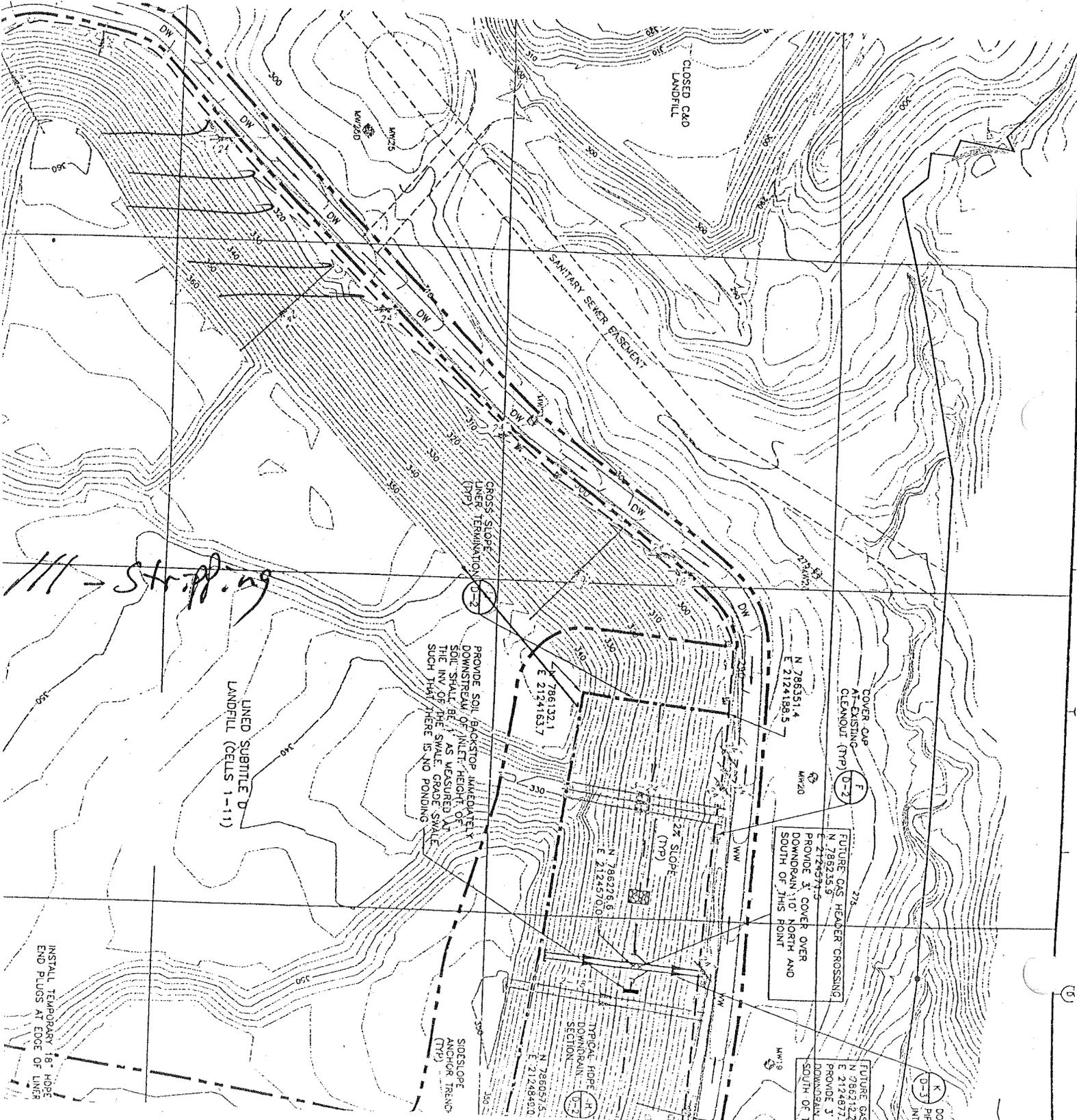
This report to be completed daily by each Project Representative



<p align="center"> CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p>	<p> Sheet No. : 1 of 2 Report #: 85 Date: 06-17-04 Weather: low 75 high 92 </p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	<p>None</p>
<p>WORK COMPLETED:</p>	<p align="center">MATERIALS RECEIVED</p>
<p>Item No. 1: Stripping Contractor commenced stripping of Phase V.</p>	<p>none</p>
<p>Item No. 7: Excavate, Transport and Install Protective Soil Layer. Contractor screening protective cover material. Contractor placing second lift in phase II.</p>	<p align="center">COMMENT</p>
<p>RESULTS: none</p>	<p align="center">CORRESPONDING DATA SHEETS</p>
<p>BY: </p>	<p>Site sketch</p>
<p>REVIEWED BY:</p>	<p align="center">APPROVED BY: R.E. Burns</p>
<p align="center">CQA INSPECTOR</p>	<p align="center">CERTIFYING ENGINEER</p>
<p align="center">PROJECT ENGINEER</p>	

6-17-4
RPT # 85

Site Sketch



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-18-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 96 Lo: 74 _____ Clear x Partly _____ Cloudy 0 Precipitation _____
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00
 (Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location protective cover in phase II, composite, and intermediate fill placed

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 1: Stripping

Contractor continued stripping of Phase V.

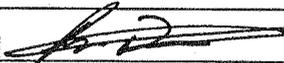
Item No. 6: Geo-composite deployment.

Sub-contractor Hallaton continued placement of Geo-composite. All was placed and connected per specifications.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor screening protective cover material. Contractor placing second lift in phase II.

Attachments: Yes No

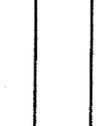
Signed 

Description:

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative



<p>Sheet No. : 1 of 2 Report #: 86 Date: 06-18-04 Weather: low 74 high 96</p>	<p>CAMP DRESSER & MCKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>
<p>VISITORS</p>	<p>WORK AND EQUIPMENT</p>
<p>None</p>	<p><u>EQUIPMENT:</u> CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>
<p>MATERIALS RECEIVED</p>	<p><u>WORK COMPLETED:</u> Item No. 1: Stripping Contractor commenced stripping of Phase V.</p>
<p>none</p>	<p><u>Item No. 7: Excavate, Transport and Install Protective Soil Layer.</u> Contractor screening protective cover material. Contractor placing second lift in phase II.</p>
<p>COMMENT</p>	<p><u>RESULTS:</u> none</p>
<p>CORRESPONDING DATA SHEETS</p>	<p>BY: </p>
<p>Site sketch</p>	<p>CQA INSPECTOR</p>
<p>APPROVED BY: </p>	<p>PROJECT ENGINEER</p>
<p>CERTIFYING ENGINEER</p>	<p>REVIEWED BY:</p>

6-18-4
 R.H.# 86

Site Sketch



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-19-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 90 Lo: 71 _____ Clear x Partly _____ Cloudy 0 Precipitation _____
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00
 (Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

^Activity and Location protective cover

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor screening protective cover material.

Item No. 17: Miscellaneous Work and Clean up.

Contractor performing maintenance.

Attachments: Yes No

Signed 

Description: _____

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative



CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT		Sheet No. : 1 of 1 Report #: 87 Date: 06-19-04 Weather: low 71 high 90
WORK AND EQUIPMENT		VISITORS
EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller		None
WORK COMPLETED:		MATERIALS RECEIVED
Item No. 7: Excavate, Transport and Install Protective Soil Layer. Contractor screening protective cover material.		none
RESULTS: none		COMMENT
		None
		CORRESPONDING DATA SHEETS
		Site sketch
BY:	APPROVED BY: <i>K.E. Burt</i>	
	CQA INSPECTOR	CERTIFYING ENGINEER
REVIEWED BY:		
	PROJECT ENGINEER	

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-20-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi _____ Lo: _____ Clear _____ Partly _____ Cloudy _____ Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: _____ Reg. _____ OT Shift: _____ to _____

(Contractor) Hours Worked: _____ Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and					Subcontractor's Work Force			
Labor Classification			Equipment Classifications								
	I	II*		Type	Type*	Size	Size*				
Project Manager			Backhoes	cat							
Superintendent			Loader Backhoes								
Engineer			F.E. Loaders								
Foreman			Dozers								
Asst. Foreman			Grader								
Equip. Operators			Dump Trucks								
Masons			Pick-up Trucks								
Pipe layers			Cars								
Laborers			Compactors								
Truck Drivers			Pumps								
Carpenters			Water Truck								
Flag people			Well Point Systems								
Surveyors			Cranes								
Painters			Welder								
Plumbers			Compressors								
Pavers											
Electricians											
Total		*	Total		*					*	

*Designates subcontractors

Activity and Location: _____

Defective work noted today to be corrected later: _____

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Not work performed today, not a scheduled work day.

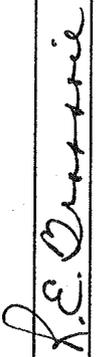
Attachments: Yes No Signed 

Description: _____

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative



CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT		Sheet No.: 1 of 1 Date: 06-20-04 Weather: PC	Report #: 88 low high
WORK AND EQUIPMENT		VISITORS	
EQUIPMENT:		None	
WORK COMPLETED: No work completed, not a scheduled work day.		MATERIALS RECEIVED	
RESULTS: No density testing		none	
		COMMENT	
		None	
		CORRESPONDING DATA SHEETS	
BY: 		APPROVED BY: 	
CQA INSPECTOR		CERTIFYING ENGINEER	
REVIEWED BY:			
PROJECT ENGINEER			

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-21-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 80 Lo: 61 _____ Clear Partly _____ Cloudy 0 Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

(Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location protective cover in phase II, composite, and intermediate fill placed

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 1: Stripping

Contractor completed stripping Phase V.

Item No. 6: Geo-composite deployment.

Sub-contractor Hallaton continued placement of Geo-composite in Phase IV. All was placed and connected per specifications.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor screening protective cover material. Contractor placing second lift in Phase II.

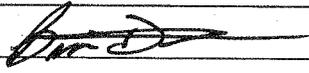
Item No. 8: Excavate, Transport, and Install Vegetative Layer Material.

Contractor placing top soil in Phase I.

Item No. 17: Miscellaneous Work and Clean-up

Contractor cleaning out perimeter ditch.

Attachments: Yes No

Signed 

Description:

(Pipe Test Reports, Concrete Placement Reports, etc.)

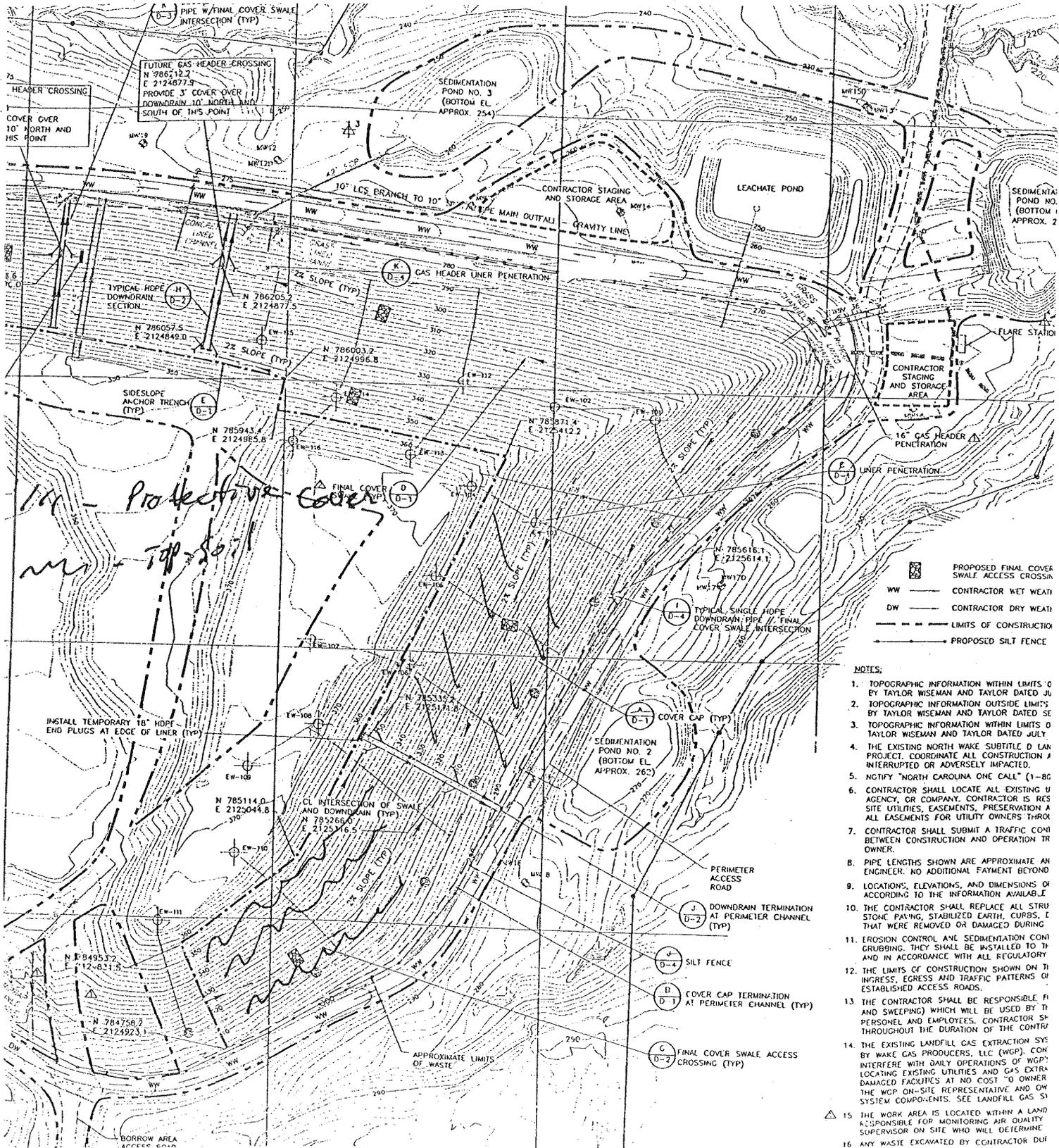
This report to be completed daily by each Project Representative



<p align="center"> CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p>	<p> Sheet No.: 1 of 3 Report #: 89 Date: 06-21-04 Weather: PC low 61 high 80 </p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	<p>None</p>
<p>WORK COMPLETED:</p>	<p align="center">MATERIALS RECEIVED</p>
<p>Item No. 1: Stripping Contractor completed stripping Phase V.</p>	<p>none</p>
<p>Item No. 7: Excavate, Transport and Install Protective Soil Layer. Contractor screening protective cover material. Contractor placing second lift in Phase II.</p>	<p align="center">COMMENT</p>
<p>Item No. 8: Excavate, Transport, and Install Vegetative Layer Material. Contractor placing top soil in Phase I.</p>	<p>None</p>
<p>Item No. 17: Miscellaneous Work and Clean-up. Contractor cleaning out perimeter ditch.</p>	<p align="center">CORRESPONDING DATA SHEETS</p>
<p>RESULTS: No density testing</p>	<p>Site sketch</p>
<p>BY:</p>	<p align="center">APPROVED BY: <i>K.E. Duran</i></p>
<p align="center">CQA INSPECTOR</p>	<p align="center">CERTIFYING ENGINEER</p>
<p>REVIEWED BY:</p>	
<p align="center">PROJECT ENGINEER</p>	

RPT # 89
6-21-04

Site Sketch



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-22-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 90 Lo: 68 _____ Clear x Partly _____ Cloudy 0 Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

(Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and				Subcontractor's Work Force			
Labor Classification			Equipment Classifications							
	I	II*		Type	Type*	Size	Size*			
Project Manager			Backhoes	cat						
Superintendent	1		Loader Backhoes							
Engineer			F.E. Loaders	cat						
Foreman	1		Dozers	cat		D7/D8				
Asst. Foreman			Grader							
Equip. Operators	2		Dump Trucks	cat	volvo					
Masons			Pick-up Trucks							
Pipe layers			Cars							
Laborers	3		Compactors	cat		563				
Truck Drivers			Pumps							
Carpenters			Water Truck							
Flag people			Well Point Systems							
Surveyors	2		Cranes							
Painters			Welder							
Plumbers			Compressors							
Pavers										
Electricians										
Total	9	*	Total	6	*					*

*Designates subcontractors

Activity and Location intermediate fill placed

Defective work noted today to be corrected later: None

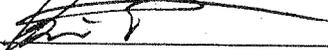
Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 3: Excavate, Transport, and Install Additional Intermediate Cover Material.

Contractor placing intermediate soil in Phase V.

Item No. 5: Furnish and Install 40 Mil Textured LLDPE Geomembrane.

Contractor excavating top and bottom anchor trench in Phase V in preparation of LLDPE placement.

Attachments: Yes No Signed 

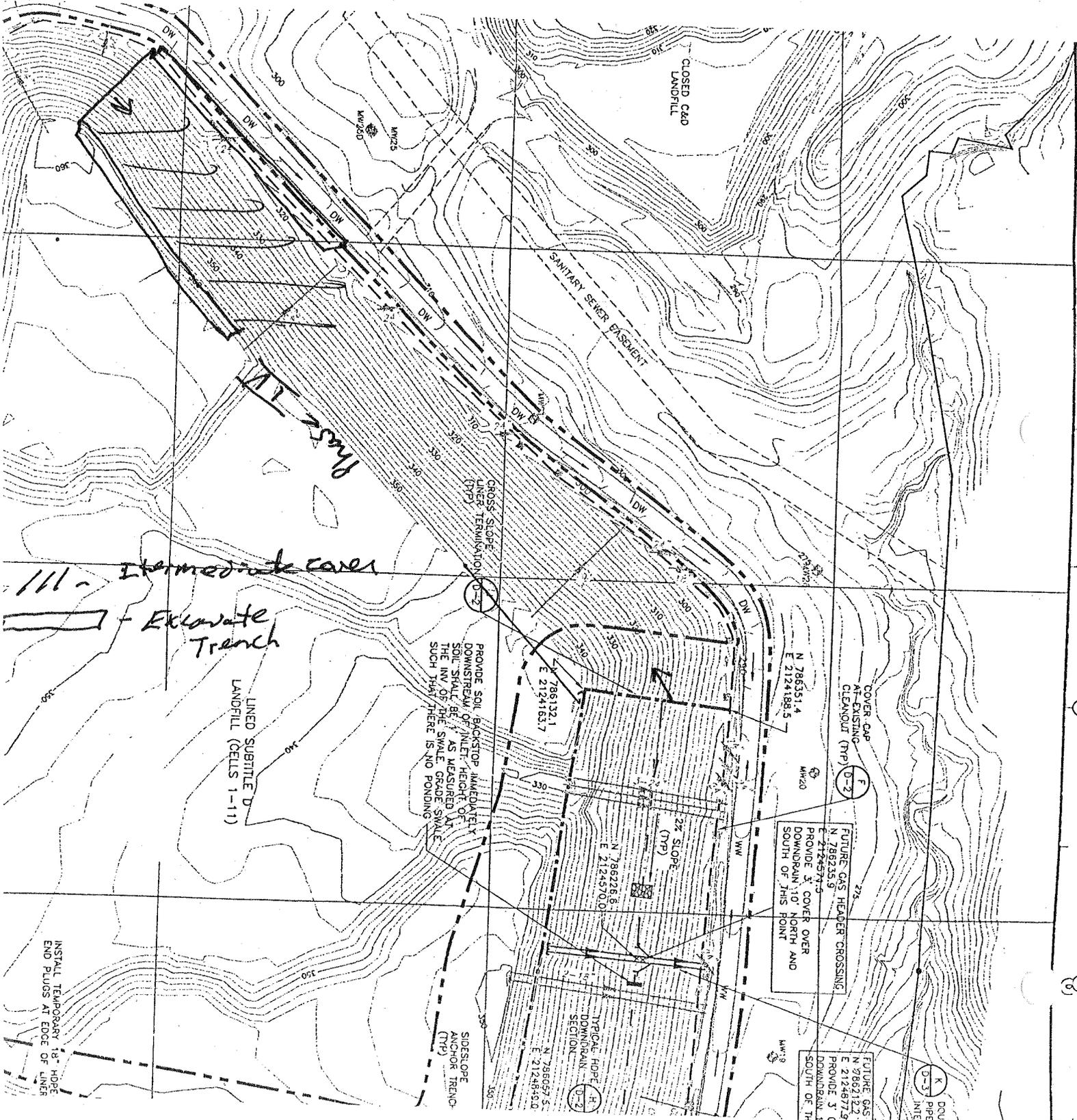
Description: _____

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

R# 90
6-22-4

Site Sketch

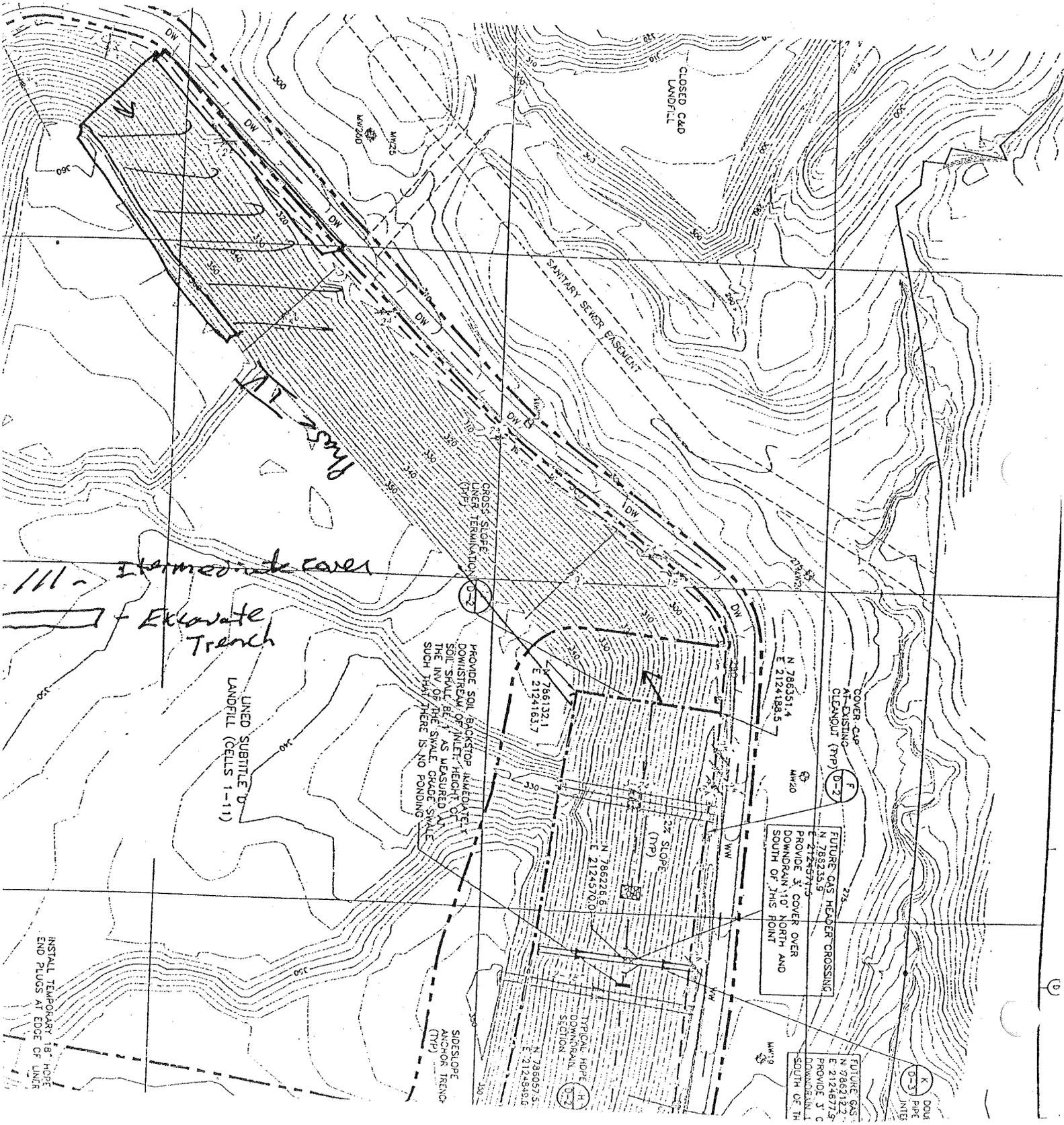




<p align="center"> CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p>		Sheet No. : 1 of 2 Report #: 90 Date: 06-22-04 Weather: PC low 68 high 90
<p align="center">WORK AND EQUIPMENT</p>		VISITORS
<p><u>EQUIPMENT:</u> CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>		None
<p><u>WORK COMPLETED:</u></p>		MATERIALS RECEIVED
<p><u>Item No. 3:</u> Excavate, Transport, and Install Additional Intermediate Cover Material. Contractor placing intermediate soil in Phase V.</p>		none
<p><u>Item No. 5:</u> Furnish and Install 40 Mil Textured LLDPE Geomembrane. Contractor excavating top and bottom anchor trench in Phase V in preparation of LLDPE placement.</p>		COMMENT
<p><u>RESULTS:</u> No density testing</p>		None
<p><u>BY:</u> </p>		CORRESPONDING DATA SHEETS
<p align="center">CQA INSPECTOR</p>		Site sketch
<p><u>REVIEWED BY:</u></p>		APPROVED BY: R.E. Dunne
<p align="center">PROJECT ENGINEER</p>		CERTIFYING ENGINEER

RPT # 90
6-22-4

Site Sketch



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-23-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 93 Lo: 69 _____ Clear x Partly _____ Cloudy .62 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

(Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location intermediate fill placed, protective cover, LLDPE, Composite

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 3: Excavate, Transport, and Install Additional Intermediate Cover Material.

Contractor placing intermediate soil in Phase V.

Item No. 5: Furnish and Install 40 Mil Textured LLDPE Geomembrane.

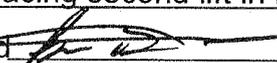
Sub-contractor Hallaton commenced placement of LLDPE in Phase V. Contractor excavating top and bottom anchor trench in Phase V in preparation of LLDPE placement.

Item No. 6: Geo-composite deployment.

Sub-contractor Hallaton commenced placement of Geo-composite in Phase V. All was placed and connected per specifications.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor screening protective cover material. Contractor placing second lift in Phase II.

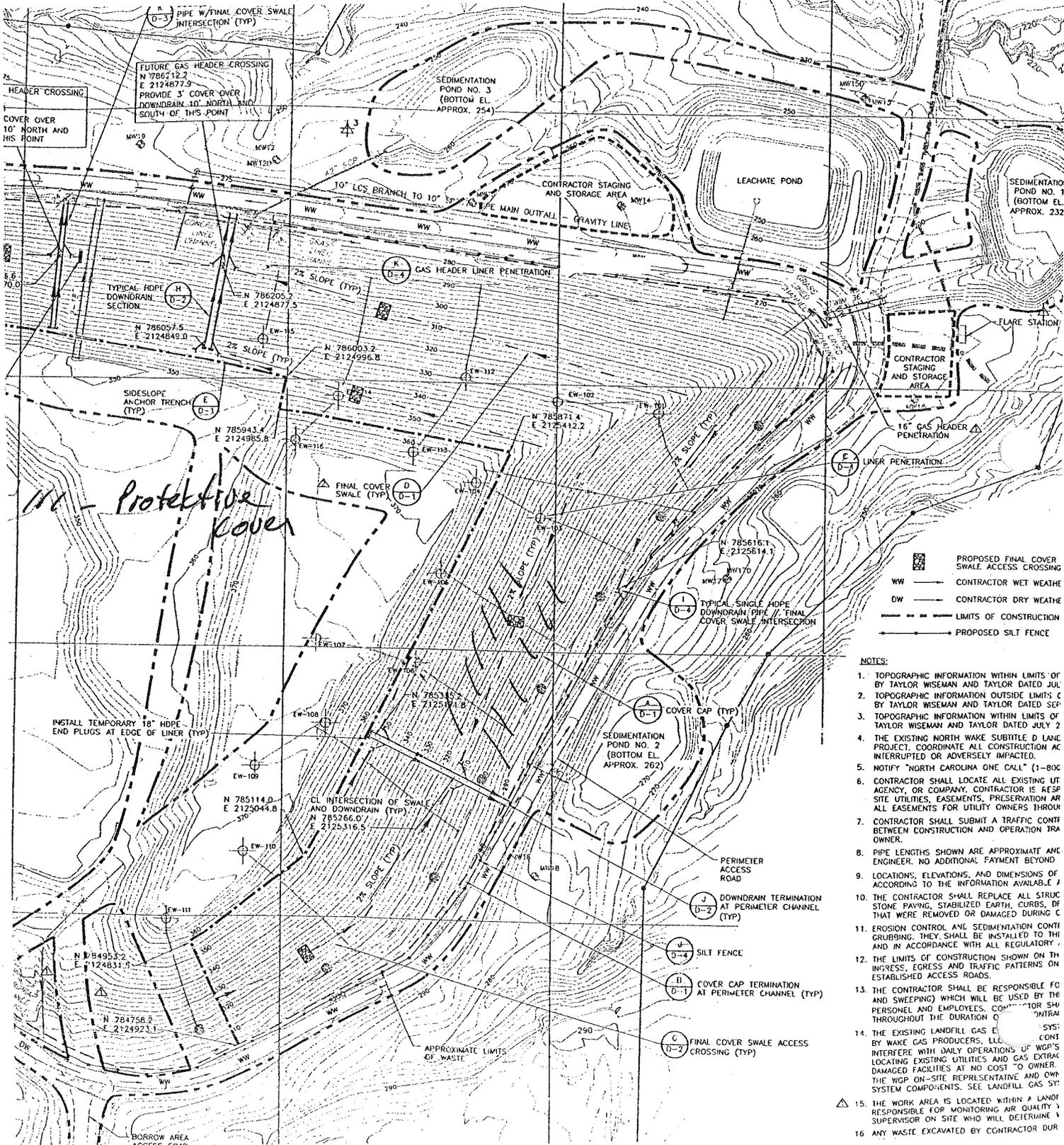
Attachments: Yes No Signed 

Description: _____
(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

RPT# 91
6-23-4

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- CONTRACTOR WET WEATHER
- CONTRACTOR DRY WEATHER
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

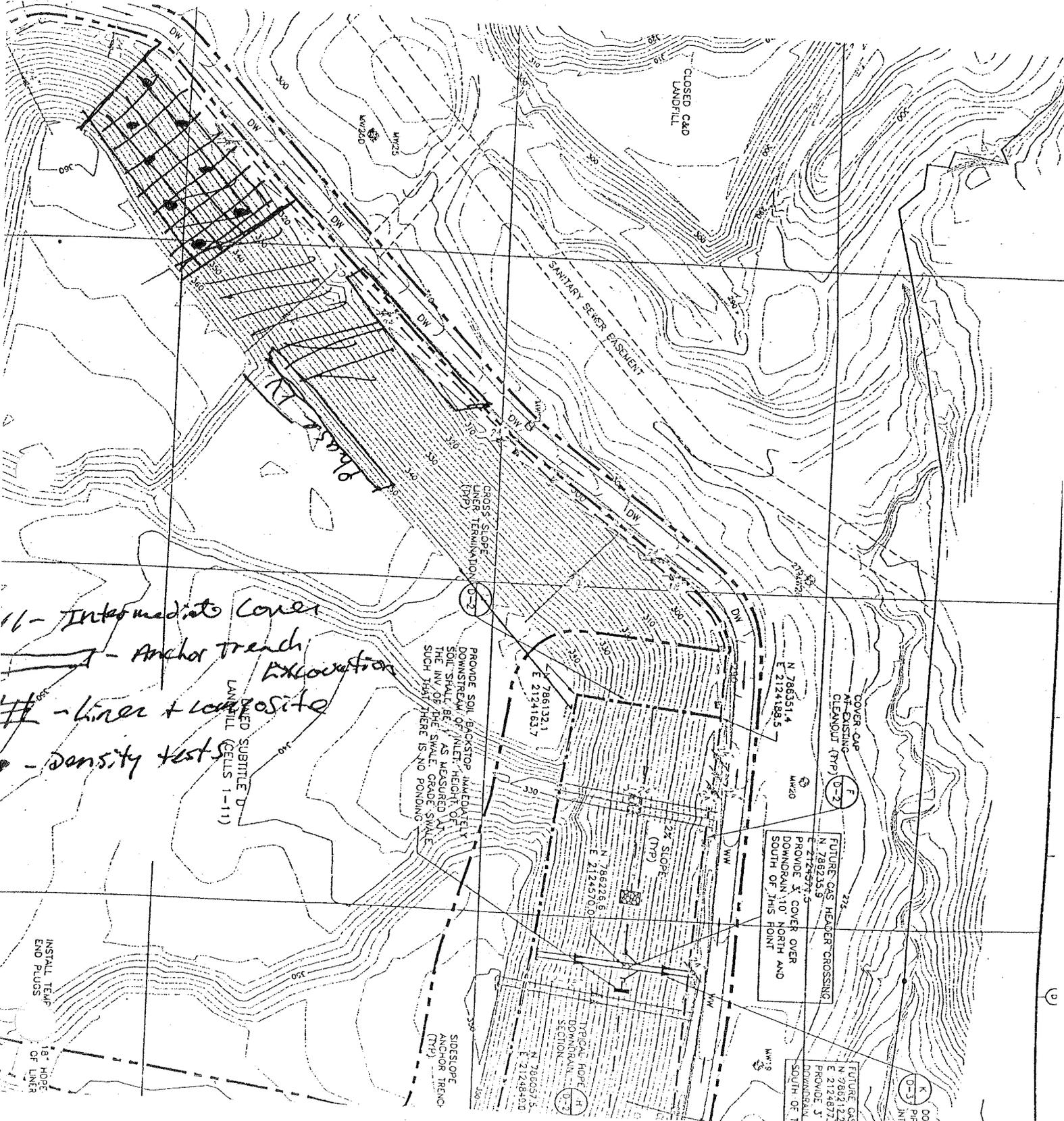
- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JUL
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS C BY TAYLOR WISEMAN AND TAYLOR DATED SEP
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY 2
 4. THE EXISTING NORTH WAKE SUBTITLE D LAND PROJECT. COORDINATE ALL CONSTRUCTION AC INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY AGENCY, OR COMPANY. CONTRACTOR IS RESPONSIBLE FOR PRESERVATION OF ALL EASEMENTS FOR UTILITY OWNERS THROUGHOUT THE DURATION OF CONSTRUCTION.
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN BETWEEN CONSTRUCTION AND OPERATION TO THE OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AND ENGINEER. NO ADDITIONAL PAYMENT BEYOND
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES AND GAS EXTRACTION SHALL BE INSTALLED TO THE PROPERTY IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
 10. THE CONTRACTOR SHALL REPLACE ALL STRUCTURE STONE PAVING, STABILIZED EARTH, CURBS, OR OTHER SURF THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
 11. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO THE PROPERTY IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING UTILITIES AND GAS EXTRACTION SYSTEM COMPONENTS. SEE LANDFILL GAS SYSTEM DRAWING FOR MORE INFORMATION.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERSONNEL AND EMPLOYEES. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES THROUGHOUT THE DURATION OF CONSTRUCTION.
 14. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM BY WAKE GAS PRODUCERS, LLC. CONTRACTOR SHALL NOT INTERFERE WITH DAILY OPERATIONS OF WGP'S EXISTING UTILITIES AND GAS EXTRACTION FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND OWNERS SYSTEM COMPONENTS. SEE LANDFILL GAS SYSTEM DRAWING FOR MORE INFORMATION.
 15. THE WORK AREA IS LOCATED WITHIN A LANDFILL. CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AIR QUALITY AND SOIL QUALITY. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE SUPERVISOR ON SITE WHO WILL DETERMINE WHEN TO STOP WORK.
 16. ANY WASTE EXCAVATED BY CONTRACTOR DURING CONSTRUCTION SHALL BE PROPERLY HANDLED AND DISPOSED OF AT AN APPROVED LOCATION.



<p align="center">CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>	<p>Sheet No. : 1 of 4 Report #: 91 Date: 06-23-04 Weather: PC low 69 high 93</p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	<p align="center">MATERIALS RECEIVED</p>
<p>WORK COMPLETED:</p>	<p>none</p>
<p>Item No. 3: Excavate, Transport, and Install Additional Intermediate Cover Material. Contractor placing intermediate soil in Phase V.</p>	<p align="center">COMMENT</p>
<p>Item No. 5: Furnish and Install 40 Mil Textured LLDPE Geomembrane. Contractor excavating top and bottom anchor trench in Phase V in preparation of LLDPE placement. Sub-contractor Hallaton commenced placement of LLDPE in Phase V. Density test were performed prior to placement.</p>	<p>None</p>
<p>Item No. 7: Excavate, Transport and Install Protective Soil Layer. Contractor screening protective cover material. Contractor placing second lift in Phase II.</p>	<p align="center">CORRESPONDING DATA SHEETS</p>
<p>RESULTS: All density tests were at least 95% of the max dry density of the material or proctor I was using. See attached</p>	<p>Site sketch Density tests</p>
<p>BY:</p>	<p align="center">APPROVED BY: <i>R.E. Durrie</i></p>
<p>REVIEWED BY:</p>	<p align="center">CERTIFYING ENGINEER</p>
<p>PROJECT ENGINEER</p>	<p>CQA INSPECTOR</p>

91
6-23-4

Site Sketch



- 11 - Intermediate Cover
- 1 - Anchor trench
- Excavation
- # - Liner + composite
- density tests

PROVIDE SOIL BACKSTOP IMMEDIATELY DOWNSTREAM OF INLET. HEIGHT OF SOIL SHALL BE 1' AS MEASURED AT THE INV. OF THE SWALE GRADE SWALE SUCH THAT THERE IS NO PONDING.

COVER CAP AT EXISTING CLEANOUT (TYP) (D-2)
N 786351.4
E 2124188.5

FUTURE GAS HEADER CROSSING
N 788235.9
E 2124577.5
PROVIDE GAS COVER OVER DOWNDRAIN 10' NORTH AND SOUTH OF THIS POINT

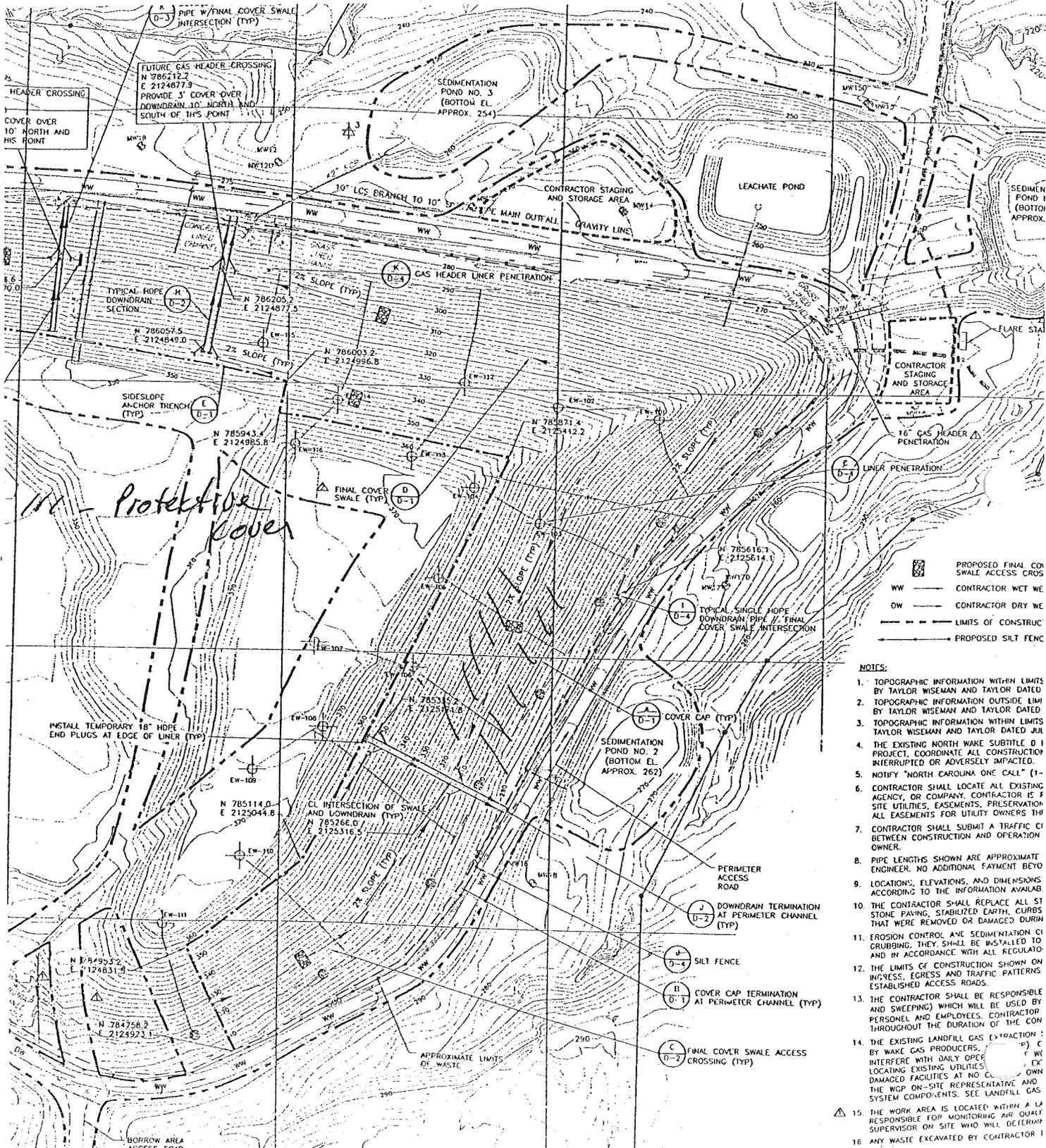
FUTURE GAS
N 788212.2
E 2124877.5
PROVIDE 3" C
DOWNDRAIN
SOUTH OF IH

TYPICAL HOPE DOWNDRAIN SECTION (D-2)
N 786057.5
E 2124840.0

INSTALL TEMP END PLUGS OF LINE
18" HOPE OF LINE

RPT# 91
6-23-4

Site Sketch



- NOTES:**
- TOPOGRAPHIC INFORMATION WITHIN LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED
 - TOPOGRAPHIC INFORMATION OUTSIDE LIMIT BY TAYLOR WISEMAN AND TAYLOR DATED
 - TOPOGRAPHIC INFORMATION WITHIN LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED
 - THE EXISTING NORTH WAKE SUBTITLE D I PROJECT, COORDINATE ALL CONSTRUCTION INTERRUPTED OR ADVERSELY IMPACTED.
 - NOTIFY "NORTH CAROLINA ONE CALL" (1-800-4-A-SAFE) PRIOR TO ANY EXCAVATION.
 - CONTRACTOR SHALL LOCATE ALL EXISTING AGENTS, OR COMPANY, CONTRACTOR IS RESPONSIBLE FOR PRESERVATION AND EASEMENTS FOR UTILITY OWNERS THROUGHOUT THE DURATION OF THE PROJECT.
 - CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE OWNER PRIOR TO CONSTRUCTION.
 - PIPE LENGTHS SHOWN ARE APPROXIMATE ENGINEER, NO ADDITIONAL PAYMENT BEYOND THIS CONTRACT.
 - LOCATIONS, ELEVATIONS, AND DIMENSIONS ACCORDING TO THE INFORMATION AVAILABLE.
 - THE CONTRACTOR SHALL REPLACE ALL STONE PAVING, STABILIZED EARTH CURBS THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
 - EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO AND IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
 - THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING LANDFILL GAS EXTRACTION SYSTEM COMPONENTS. SEE LANDFILL GAS EXTRACTION SYSTEM DRAWINGS FOR MORE INFORMATION.
 - THE WORK AREA IS LOCATED WITHIN A 1/4 MILE RADIUS OF THE WAKE COUNTY SUPERVISOR ON SITE WHO WILL BE RESPONSIBLE FOR MONITORING AIR QUALITY AND TRAFFIC CONTROL.
 - ANY WASTE EXCAVATED BY CONTRACTOR IS TO BE HANDLED AND DISPOSED IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-24-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 85 Lo: 71 _____ Clear x Partly _____ Cloudy .62 Precipitation _____
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00
 (Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location intermediate fill placed, protective cover, LLDPE, Composite

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 3: Excavate, Transport, and Install Additional Intermediate Cover Material.

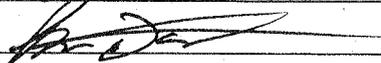
Contractor grading intermediate soil in Phase V.

Item No. 5: Furnish and Install 40 Mil Textured LLDPE Geomembrane.

Sub-contractor Hallaton continued welding flaps in Phase IV. Contractor continuing to excavate anchor trenches in Phase V and also backfilling bottom anchor trench in Phase IV.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor screening protective cover material. Contractor placing in Phase III.

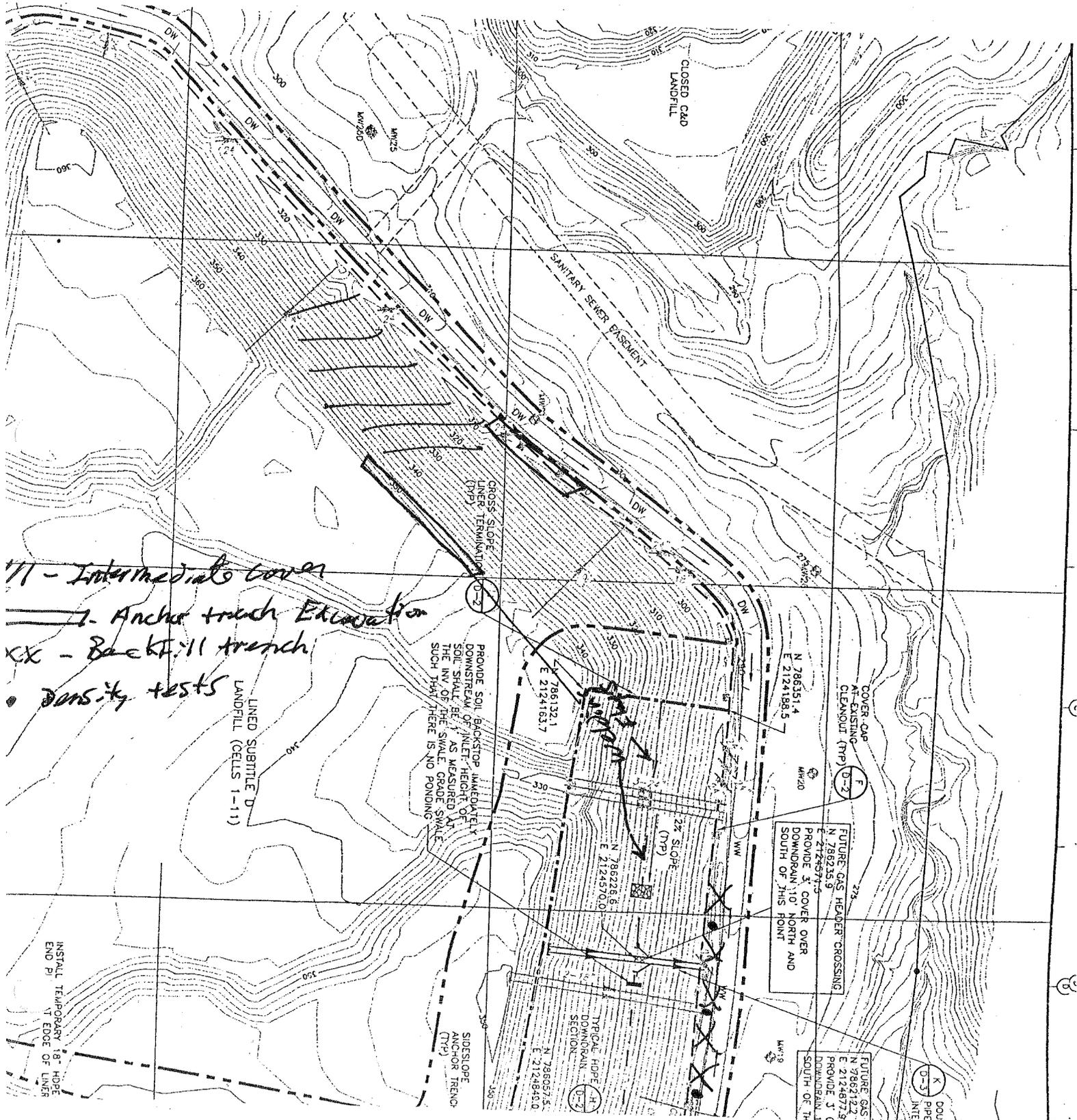
Attachments: Yes No Signed 

Description: _____
(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

RPT # 92
6-24-4

Site Sketch



- 11 - Intermediate cover
- 1 - Anchor trench Excavation
- XX - Backfill trench
- Density tests

PROVIDE SOIL BACKSTOP IMMEDIATELY
DOWNSTREAM OF INLET HEIGHT OF
SOIL SHALL BE 1' AS MEASURED AT
THE INV. OF THE SWALE GRADE SWALE
SUCH THAT THERE IS NO PONDING

COVER CAP
AT EXISTING CLEANOUT (TYP) D-2
N 786151.4
E 2124188.5

FUTURE GAS HEADER CROSSING
N 786231.2
E 2124571.5
PROVIDE 3" COVER OVER
DOWNDRAIN 10' NORTH AND
SOUTH OF THIS POINT

FUTURE GAS
N 786212.2
E 2124877.5
PROVIDE 3" C
DOWNDRAIN 1
SOUTH OF TH

INSTALL TEMPORARY 18" HDPE
AT EDGE OF LINER

SIDESLOPE
ANCHOR TRENCH
(TYP)

TYPICAL HOPE
DOWNDRAIN SECTION
N 786057.5
E 2124840.0

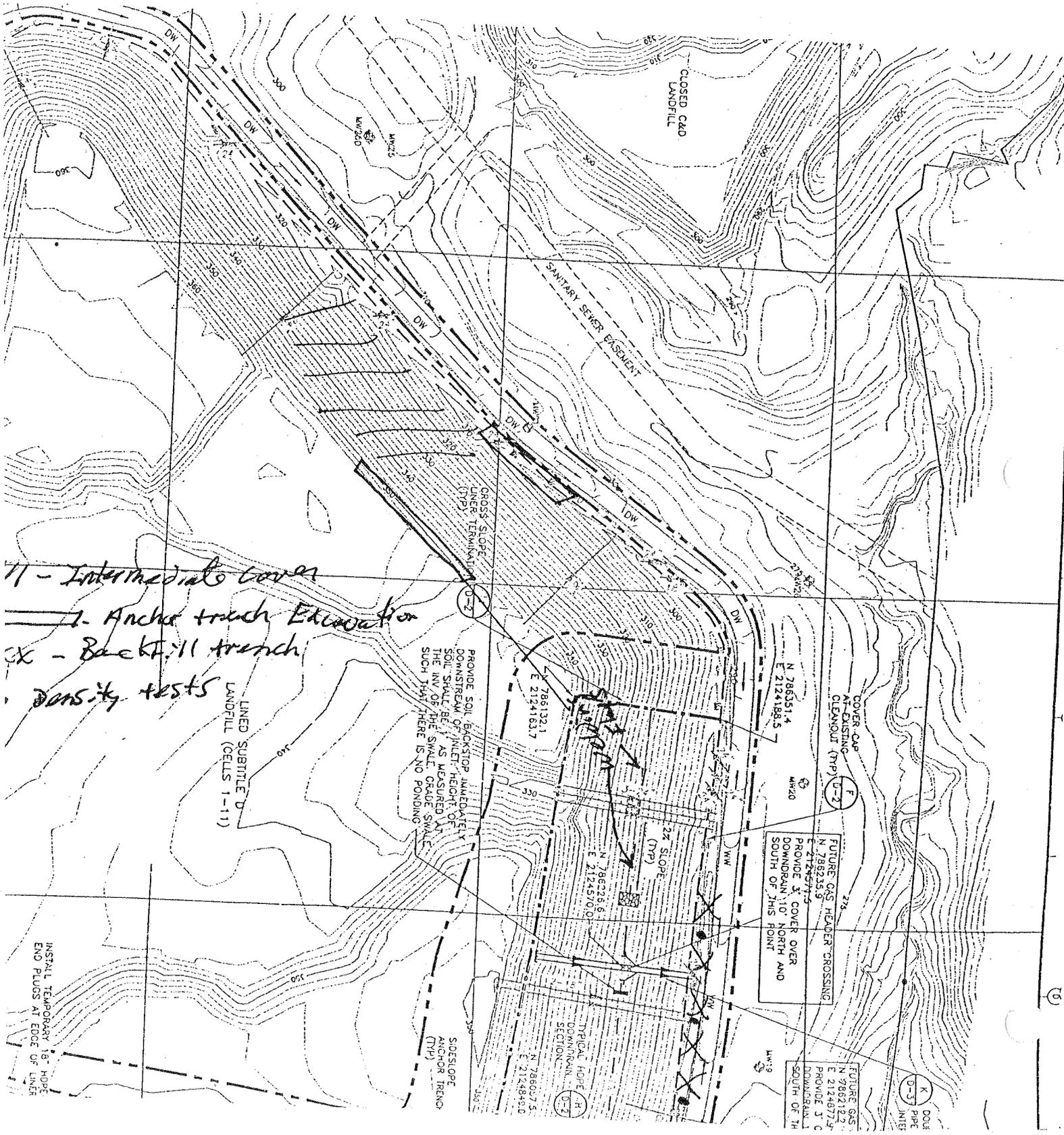
D-3
PIPE
INTE



<p align="center">CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>	<p>Sheet No. : 1 of 3 Report #: 92 Date: 06-24-04 Weather: PC low 71 high 85</p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p> <p>WORK COMPLETED:</p> <p>Item No. 3: <u>Excavate, Transport, and Install Additional Intermediate Cover Material.</u> Contractor placing intermediate soil in Phase V.</p> <p>Item No. 5: <u>Furnish and Install 40 Mil Textured LLDPE Geomembrane.</u> Sub-contractor Hallaton continued welding flaps in Phase IV. Contractor continuing to excavate anchor trenches in Phase V and also backfilling bottom anchor trench in Phase IV. Compaction testing completed on backfill placed in trench today, see results.</p> <p>Item No. 7: <u>Excavate, Transport and Install Protective Soil Layer.</u> Contractor screening protective cover material. Contractor placing second lift in Phase II.</p> <p>RESULTS: All density tests were at least 95% of the max dry density of the material or proctor I was using. See attached.</p>	<p>MATERIALS RECEIVED</p> <p>none</p> <p>COMMENT</p> <p>None</p> <p>CORRESPONDING DATA SHEETS</p> <p>Site sketch Density tests</p>
<p>BY: </p> <p align="center">CQA INSPECTOR</p>	<p align="center">APPROVED BY: </p> <p align="center">CERTIFYING ENGINEER</p>
<p>REVIEWED BY:</p> <p align="center">PROJECT ENGINEER</p>	

RPT # 92
6-24-4

Site Sketch



- 1 - Intermediate cover
 - 2 - Anchor trench Excavation
 - 3 - Backfill trench
- Dens. & tests

PROVIDE SOIL BACKSTOP IMMEDIATELY
DOWNSTREAM OF INLET. HEIGHT OF
SOIL SHALL BE 1' AS MEASURED AT
THE INV. OF THE SWALE GRADE. SWALE
SUCH THAT THERE IS NO PONDING.

FUTURE GAS HEADER CROSSING
N 786231.9
E 2124571.9
PROVIDE 3' COVER OVER
DOWNDRAIN 10' NORTH AND
SOUTH OF THIS POINT

FUTURE GAS
N 786212.2
E 2124677.9
PROVIDE 3' C
DOWNDRAIN 1
SOUTH OF TH

INSTALL TEMPORARY 18" HOPE
END PLUGS AT EDGE OF LINE

SIDESLOPE
ANCHOR TRENCH
(TYP)

TYPICAL HOPE
DOWNDRAIN
SECTION

DOUG
PIPE
JNT



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-25-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 88 Lo: 73 _____ Clear Partly _____ Cloudy .09 Precipitation
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00
 (Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location intermediate fill placed, protective cover, LLDPE.

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 3: Excavate, Transport, and Install Additional Intermediate Cover Material.

Contractor grading intermediate soil in Phase V.

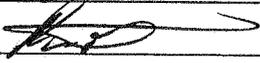
Item No. 5: Furnish and Install 40 Mil Textured LLDPE Geomembrane.

Sub-contractor Hallaton continued LLDPE placement in Phase V. Contractor continuing to excavate anchor trenches in Phase V and also backfilling bottom anchor trench in Phase IV.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor screening protective cover material. Contractor placing in Phase III.

Attachments: Yes No

Signed 

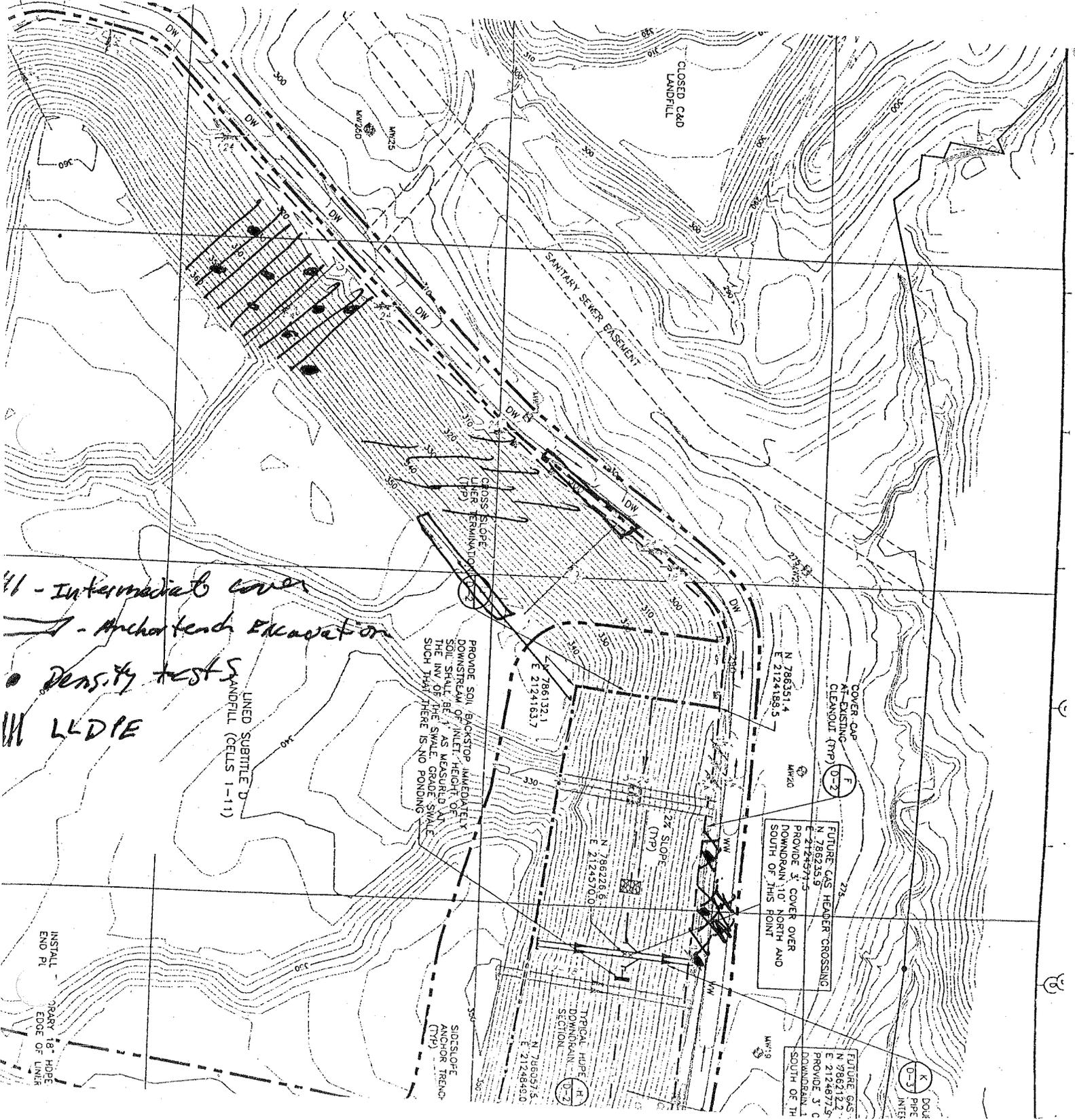
Description: _____

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

RPT# 93
6-25-4

Site Sketch



- 1 - Intermediate cover
- 2 - Anchor trench Excavation
- Density tests
- W LLDPE

PROVIDE SOIL BACKSTOP IMMEDIATELY DOWNSTREAM OF INLET. HEIGHT OF SOIL SHALL BE 1' AS MEASURED AT THE INV. OF THE SWALE GRADE SWALE SUCH THAT THERE IS NO PONDING.

FUTURE GAS HEADER CROSSING
PROVIDE 3" COVER OVER DOWNDRAIN 10 NORTH AND SOUTH OF THIS POINT

FUTURE GAS AT EXISTING CLEANOUT (TYP) 0-2
PROVIDE 3" COVER OVER DOWNDRAIN 10 SOUTH OF THIS POINT

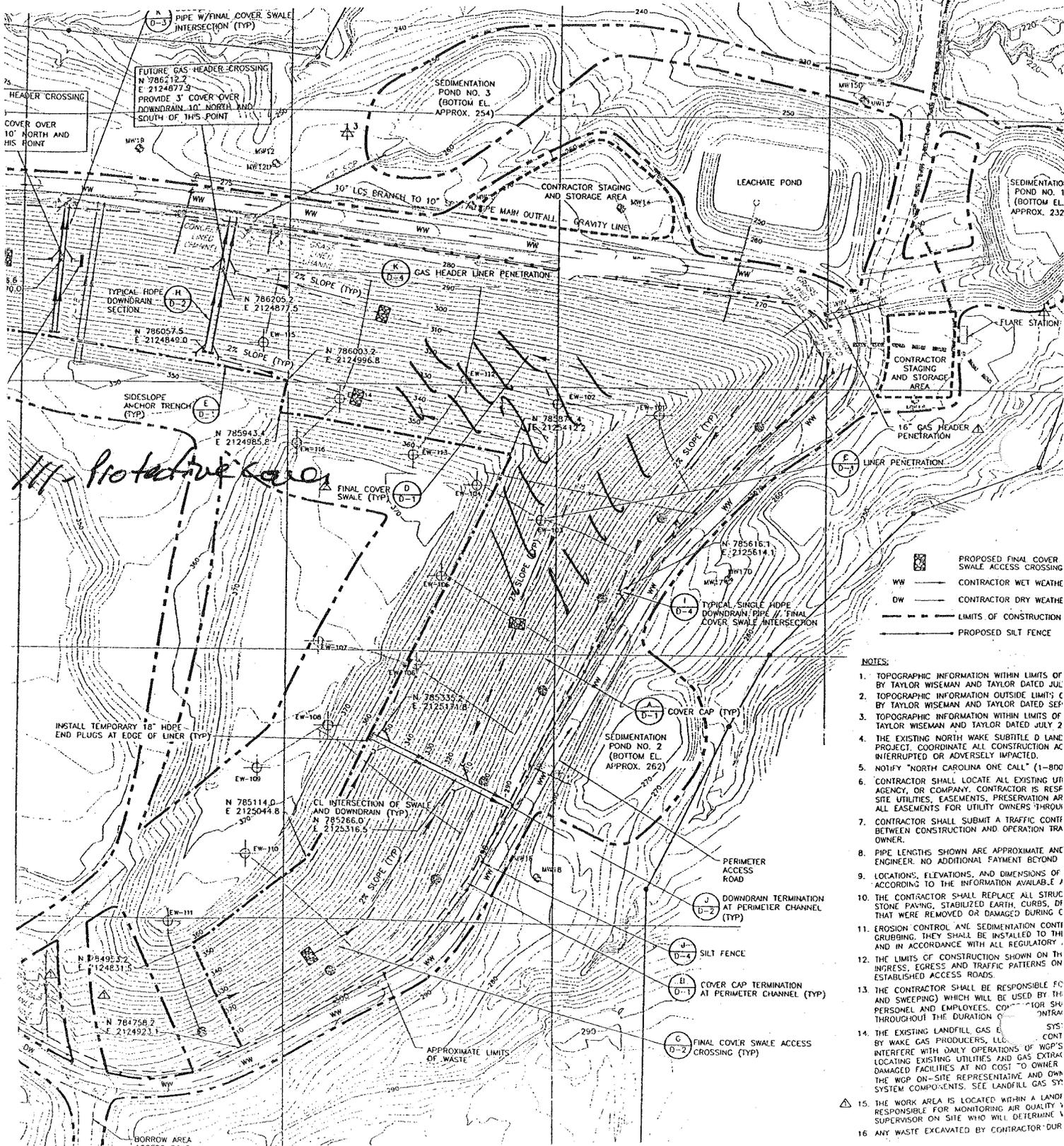
DOOR PIPE JNTS

INSTALL ANCHOR TRENCH AND/OR TRENCH

LINED SUBTITLE D LANDFILL (CELLS 1-11)

RPT # 93
6-25-4

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- CONTRACTOR WET WEATHER
- CONTRACTOR DRY WEATHER
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JUL
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS (BY TAYLOR WISEMAN AND TAYLOR DATED SEP
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY 2
 4. THE EXISTING NORTH WAKE SUBTITLE D LINE PROJECT COORDINATE ALL CONSTRUCTION INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTI AGENCY, OR COMPANY. CONTRACTOR IS RESP SITE UTILITIES, EASEMENTS, PRESERVATION AR ALL EASEMENTS FOR UTILITY OWNERS THROUGH
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONT BETWEEN CONSTRUCTION AND OPERATION TRA OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE ANE ENGINEER. NO ADDITIONAL PAYMENT BEYOND
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ACCORDING TO THE INFORMATION AVAILABLE I
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 11. EROSION CONTROL AND SEDIMENTATION CONT GRUBBING. THEY SHALL BE INSTALLED TO TH AND IN ACCORDANCE WITH ALL REGULATORY .
 12. THE LIMITS OF CONSTRUCTION SHOWN ON TH INGRESS, EGRESS AND TRAFFIC PATTERNS ON ESTABLISHED ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FC AND SWEEPING) WHICH WILL BE USED BY TH PERSONNEL AND EMPLOYEES. CONTRACTOR SH THROUGHOUT THE DURATION O
 14. THE EXISTING LANDFILL GAS E... SYS: BY WAKE GAS PRODUCERS, LLC... CONT INTERFERE WITH DAILY OPERATIONS OF WGP'S LOCATING EXISTING UTILITIES AND GAS EXTRA DAMAGED FACILITIES AT NO COST TO OWNER THE WGP ON-SITE REPRESENTATIVE AND OWN SYSTEM COMPONENTS. SEE LANDFILL GAS SY
 15. THE WORK AREA IS LOCATED WITHIN A LAND RESPONSIBLE FOR MONITORING AIR QUALITY I SUPERVISOR ON SITE WHO WILL DETERMINE I
 16. ANY WASTE EXCAVATED BY CONTRACTOR DUR



<p align="center"> CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p>	<p> Sheet No. : 1 of 4 Report #: 93 Date: 06-25-04 Weather: PC low 73 high 88 </p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	<p align="center">MATERIALS RECEIVED</p>
<p>WORK COMPLETED:</p>	<p align="center">none</p>
<p>Item No. 3: Excavate, Transport, and Install Additional Intermediate Cover Material. Contractor grading intermediate soil in Phase V.</p>	<p align="center">COMMENT</p>
<p>Item No. 5: Furnish and Install 40 Mil Textured LLDPE Geomembrane. Sub-contractor Hallaton continued LLDPE placement in Phase V. Contractor continuing to excavate anchor trenches in Phase V and also backfilling bottom anchor trench in Phase IV. Density tests taken in these areas see attached results.</p>	<p align="center">None</p>
<p>Item No. 7: Excavate, Transport and Install Protective Soil Layer. Contractor screening protective cover material. Contractor placing second lift in Phase II.</p>	<p align="center">CORRESPONDING DATA SHEETS</p>
<p>RESULTS: All density tests were at least 95% of the max dry density of the material of proctor I was using. See attached</p>	<p>Site sketch Density tests</p>
<p>BY:</p>	<p align="center">APPROVED BY: <i>K.E. Bunn</i></p>
<p align="center">CQA INSPECTOR</p>	<p align="center">CERTIFYING ENGINEER</p>
<p>REVIEWED BY:</p>	<p align="center">PROJECT ENGINEER</p>



Field Density Test Summary

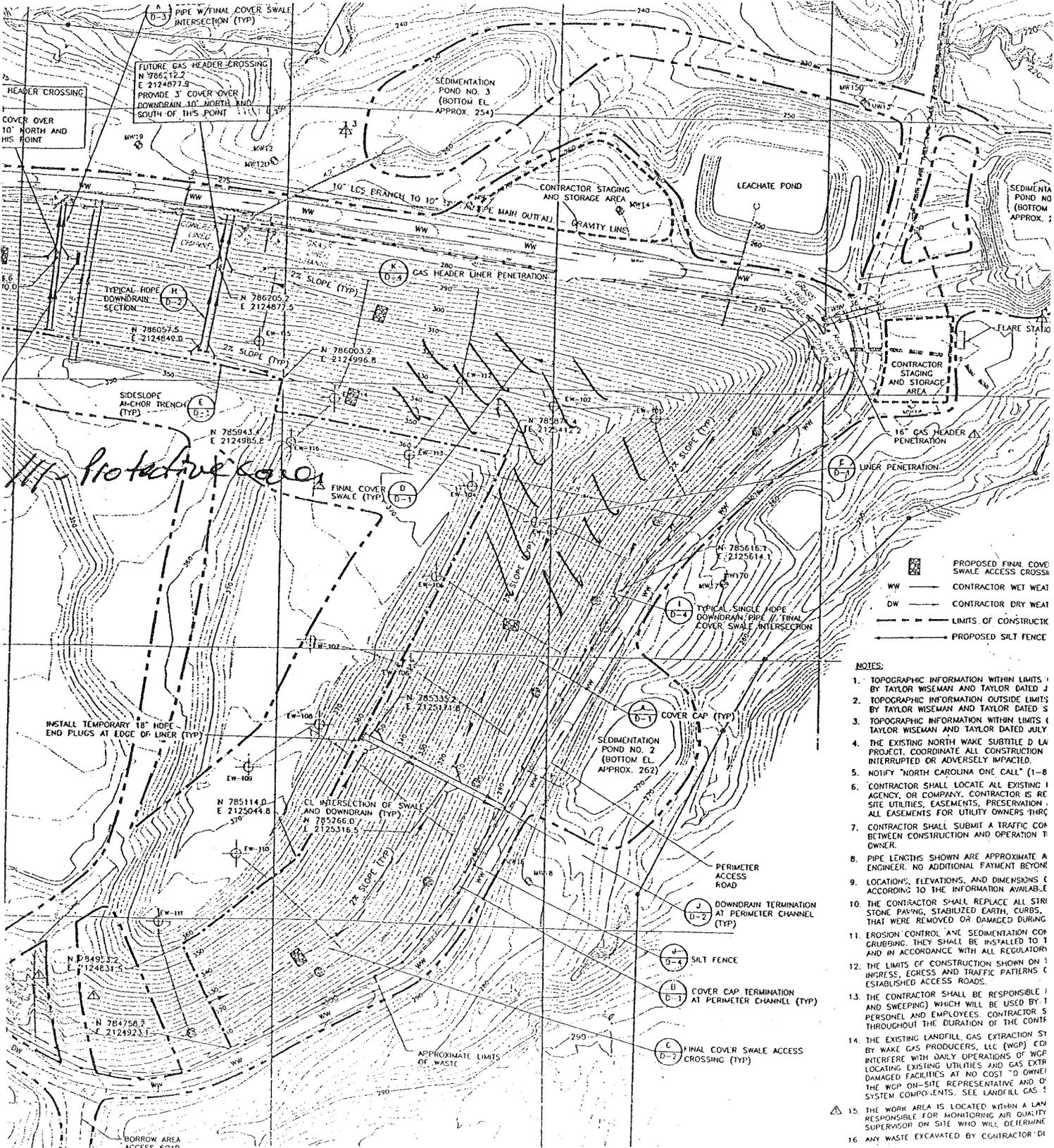
Client: <u>North Wake</u>	Date: <u>June 25, 2004</u>	Page: <u>1 of 1</u>
Project Name: <u>Phase I closure</u>	Technician: <u>Bion Dalton</u>	
Project Location: <u>North Wake Landfill</u>	DS = <u>2406</u> Passing = _____	
Project Number: <u>6172-42378</u>	MS = <u>660</u> Passing = _____	
	Trolox Gauge No./Type: <u>3440.no.30129</u>	

Test No.	Location	Elevation, Depth (ft) or Lift No.	Laboratory Test Results			Field Test Results				Compaction Achieved (%)	Compaction Required (%)	Status P / F	Comments Corrected Moisture
			Off-Site Borrow Source	Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (in)	Dry Density (pcf)	Wet Density (pcf)	Moisture Content (%)				
NW-252	Phase V intermediate cover	1+2	onsite borrow	108.2	16.0	12	104.1	120.9	20	96.2%	95%	P	16.1
NW-253	Phase V intermediate cover	1+2	onsite borrow	108.2	16.0	12	104.4	121.1	19.2	96.5%	95%	P	16
NW-254	Phase V intermediate cover	1+2	onsite borrow	108.2	16.0	12	105.2	121.3	18.6	97.2%	95%	P	15.3
NW-255	Phase V intermediate cover	1+2	onsite borrow	108.2	16.0	12	105.5	121.7	18.9	97.5%	95%	P	15.4
NW-256	Phase V intermediate cover	1+2	onsite borrow	108.2	16.0	12	105.0	120.8	18.6	97.1%	95%	P	15
NW-257	Phase V intermediate cover	1+2	onsite borrow	108.2	16.0	12	104.7	120.6	19.6	96.8%	95%	P	15.2
NW-258	Phase V intermediate cover	1+2	onsite borrow	108.2	16.0	12	104.4	121.1	19.2	96.5%	95%	P	16
NW-259	Phase V intermediate cover	1+2	onsite borrow	108.2	16.0	12	104.8	121.4	18	96.9%	95%	P	15.8
NW-260	Phase V intermediate cover	1+2	onsite borrow	108.2	16.0	12	105.4	121.6	18.6	97.4%	95%	P	15.4
NW-261	Phase IV Flap Void/Anchor trench	1+2	onsite borrow	108.2	16.0	12	104.5	120.8	18.4	96.6%	95%	P	15.6
NW-262	Phase IV Flap Void/Anchor trench	1+2	onsite borrow	108.2	16.0	12	103.9	120.4	19.3	96.0%	95%	P	15.9
NW-263	Phase IV Flap Void/Anchor trench	1+2	onsite borrow	108.2	16.0	12	105.2	122.1	18.7	97.2%	95%	P	16.1
NW-264	Phase IV Flap Void/Anchor trench	3+4	onsite borrow	108.2	16.0	12	105.1	121.5	19.5	97.1%	95%	P	15.6
NW-265	Phase IV Flap Void/Anchor trench	3+4	onsite borrow	108.2	16.0	12	104.4	120.9	18.6	96.5%	95%	P	15.8
NW-266	Phase IV Flap Void/Anchor trench	3+4	onsite borrow	108.2	16.0	12	103.6	120.7	19.7	95.8%	95%	P	16.5
NW-267	Phase IV Flap Void/Anchor trench	5+6	onsite borrow	108.2	16.0	12	104.0	120.9	18.6	96.2%	95%	P	16.2
NW-268	Phase IV Flap Void/Anchor trench	5+6	onsite borrow	108.2	16.0	12	104.8	121.3	18.2	96.9%	95%	P	15.7
NW-269	Phase IV Flap Void/Anchor trench	5+6	onsite borrow	108.2	16.0	12	104.4	121.5	19.1	96.5%	95%	P	16.4

General Contractor: Thalle
 Earthwork Contractor: Thalle

RPT # 93
6-25-4

Site Sketch



- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS 'A' BY TAYLOR WISEMAN AND TAYLOR DATED J
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS 'A' BY TAYLOR WISEMAN AND TAYLOR DATED S
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS 'C' BY TAYLOR WISEMAN AND TAYLOR DATED JULY
 4. THE EXISTING NORTH WAKE SUBTITLE D LA PROJECT. COORDINATE ALL CONSTRUCTION INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-8
 6. CONTRACTOR SHALL LOCATE ALL EXISTING AGENCY, OR COMPANY. CONTRACTOR IS RE SITE UTILITIES, EASEMENTS, PRESERVATION, ALL EASEMENTS FOR UTILITY OWNERS THRO
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CON BETWEEN CONSTRUCTION AND OPERATION T OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE A ENGINEER. NO ADDITIONAL PAYMENT BEYON
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 10. THE CONTRACTOR SHALL REPLACE ALL STIRI STONE PAVING, STABILIZED EARTH, CURBS, THAT WERE REMOVED OR DAMAGED DURING
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 13. THE CONTRACTOR SHALL BE RESPONSIBLE I AND SWEEPING) WHICH WILL BE USED BY 1 PERSONNEL AND EMPLOYEES. CONTRACTOR S THROUGHOUT THE DURATION OF THE CONF
 14. THE EXISTING LANDFILL GAS EXTRACTION ST BY WAKE GAS PRODUCERS, LLC (WGP) COI INTERFERE WITH DAILY OPERATIONS OF WGP LOCATING EXISTING UTILITIES AND GAS EXTR DAMAGED FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND OF SYSTEM COMPONENTS. SEE LANDFILL GAS S
 15. THE WORK AREA IS LOCATED WITHIN A LAN RESPONSIBLE FOR MONITORING AIR QUALITY SUPERVISOR ON SITE WHO WILL DETERMINE
 16. ANY WASTE EXCAVATED BY CONTRACTOR OR

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-26-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 83 Lo: 69 Clear Partly Cloudy 47 Precipitation _____
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00
 (Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors
 activity and Location protective cover, composite

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

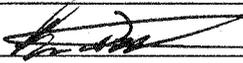
Item No. 6: Geo-composite deployment.

Sub-contractor Hallaton continued placement of Geo-composite in Phase V. All was placed and connected per specifications. Rained at 1200 and they stopped work.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor screening protective cover material.

Attachments: Yes No

Signed 

Description:

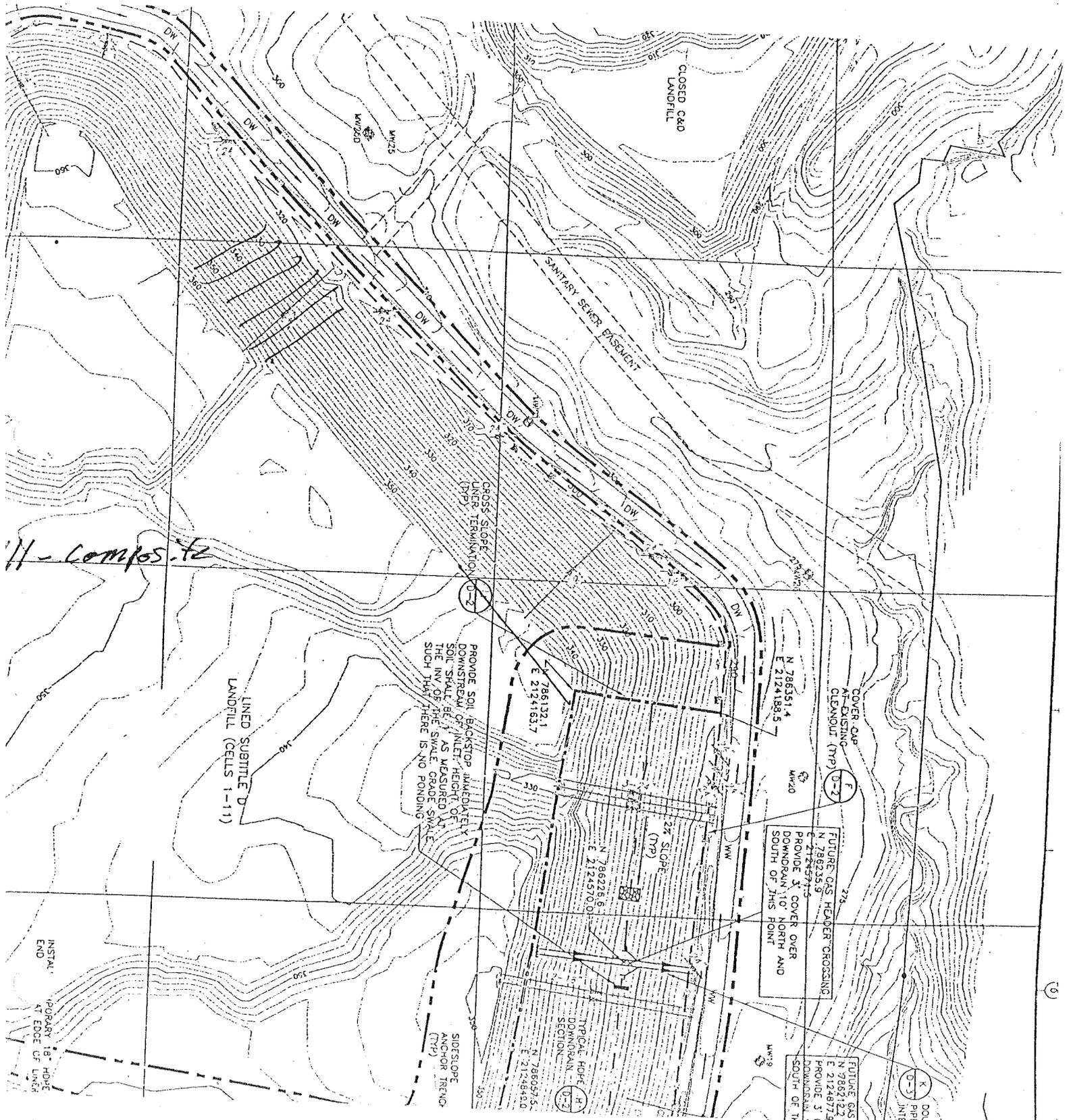
(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

<p align="center"> CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p>		<p> Sheet No. : 1 of 2 Report #: 94 Date: 06-26-04 Weather: PC low 69 high 83 </p>
<p align="center">WORK AND EQUIPMENT</p>		<p>VISITORS</p>
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>		<p>MATERIALS RECEIVED</p>
<p>WORK COMPLETED: Item No. 6: Geo-composite deployment. Sub-contractor Hallaton continued placement of Geo-composite in Phase V. All was placed and connected per specifications. Rained at 1200 and they stopped work.</p>		<p>COMMENT</p>
<p>Item No. 7: Excavate, Transport and Install Protective Soil Layer. Contractor screening protective cover material.</p>		<p>None</p>
<p>RESULTS: None</p>		<p>CORRESPONDING DATA SHEETS</p>
<p>BY: </p>		<p>Site sketch</p>
<p>REVIEWED BY:</p>		<p>APPROVED BY: </p>
<p align="center">CQA INSPECTOR</p>		<p>CERTIFYING ENGINEER</p>
<p align="center">PROJECT ENGINEER</p>		

Rbt # 94
6-26-4

Site Sketch



11 - Composite

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-27-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi _____ Lo: _____ Clear _____ Partly _____ Cloudy _____ Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: _____ Reg. _____ OT Shift: _____ to _____

(Contractor) Hours Worked: _____ Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent			Loader Backhoes				
Engineer			F.E. Loaders				
Foreman			Dozers				
Asst. Foreman			Grader				
Equip. Operators			Dump Trucks				
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers			Compactors				
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors			Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total		*	Total		*		*

*Designates subcontractors

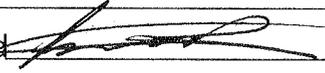
Activity and Location: _____

Defective work noted today to be corrected later: _____

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Not work performed today, not a scheduled work day.

Attachments: Yes No

Signed 

Description: _____

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative



CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT		Sheet No.: 1 of 1 Date: 06-27-04 Weather: PC	Report #: 95 low high
WORK AND EQUIPMENT		VISITORS	
EQUIPMENT:		None	
WORK COMPLETED: No work completed, not a scheduled work day.		MATERIALS RECEIVED	
RESULTS: none		none	
		COMMENT	
		None	
		CORRESPONDING DATA SHEETS	
		none	
BY: 		APPROVED BY: 	
CQA INSPECTOR		CERTIFYING ENGINEER	
REVIEWED BY:			
PROJECT ENGINEER			



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-28-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 79 Lo: 68 Clear Partly Cloudy .22 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

(Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location intermediate fill placed, protective cover, LLDPE,

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 3: Excavate, Transport, and Install Additional Intermediate Cover Material.

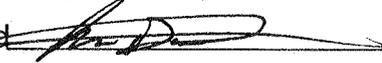
Contractor grading intermediate soil in Phase V.

Item No. 5: Furnish and Install 40 Mil Textured LLDPE Geomembrane.

Sub-contractor Hallaton continued LLDPE placement in Phase V. Contractor continuing to excavate anchor trenches in Phase V and also backfilling bottom anchor trench in Phase IV.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor screening protective cover material. Contractor placing in Phase III.

Attachments: Yes No Signed 

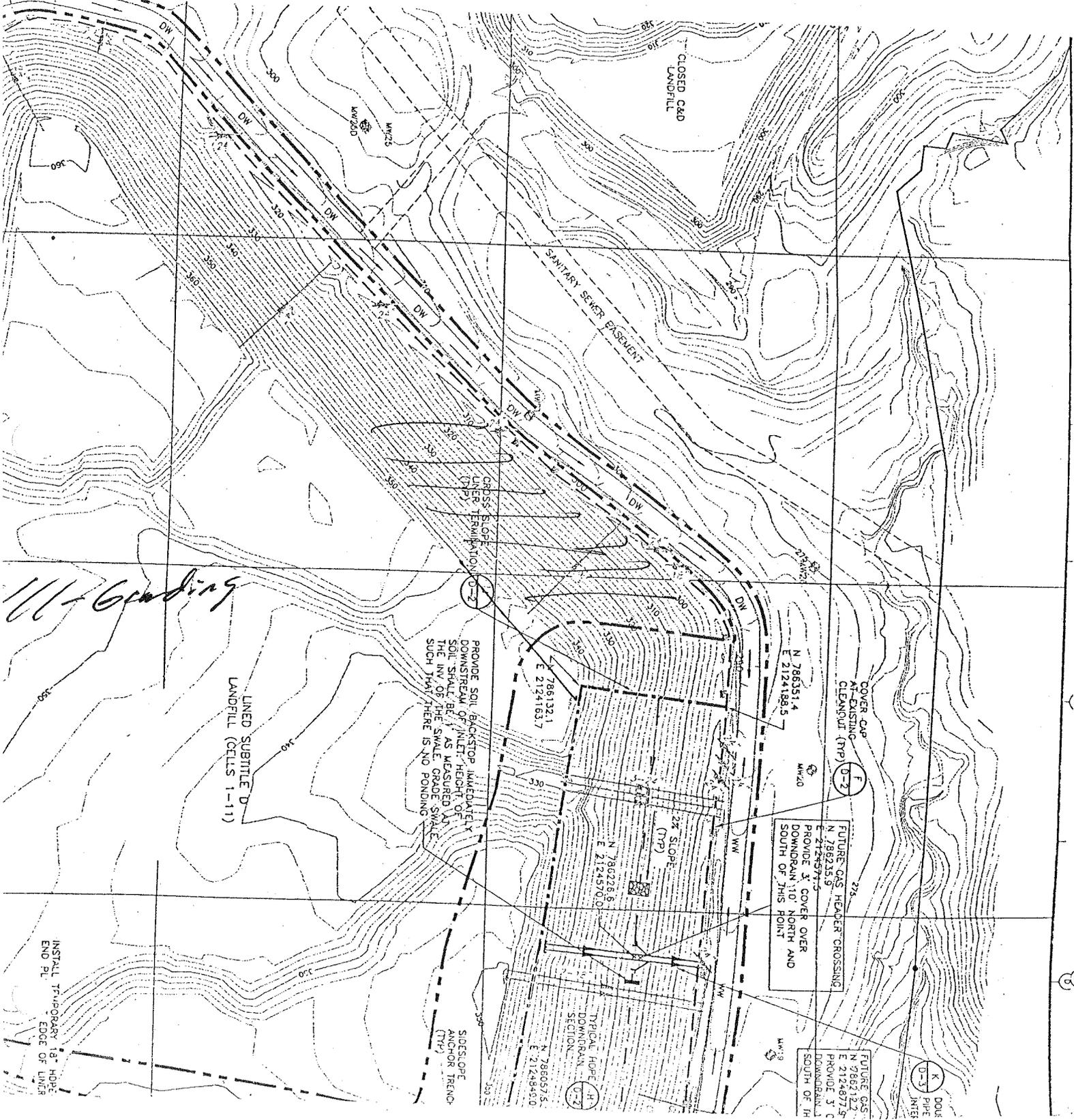
Description: _____

(Pipe Test Reports, Concrete Placement Reports, etc.)

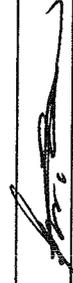
This report to be completed daily by each Project Representative

RPT # 96
6-28-4

Site Sketch

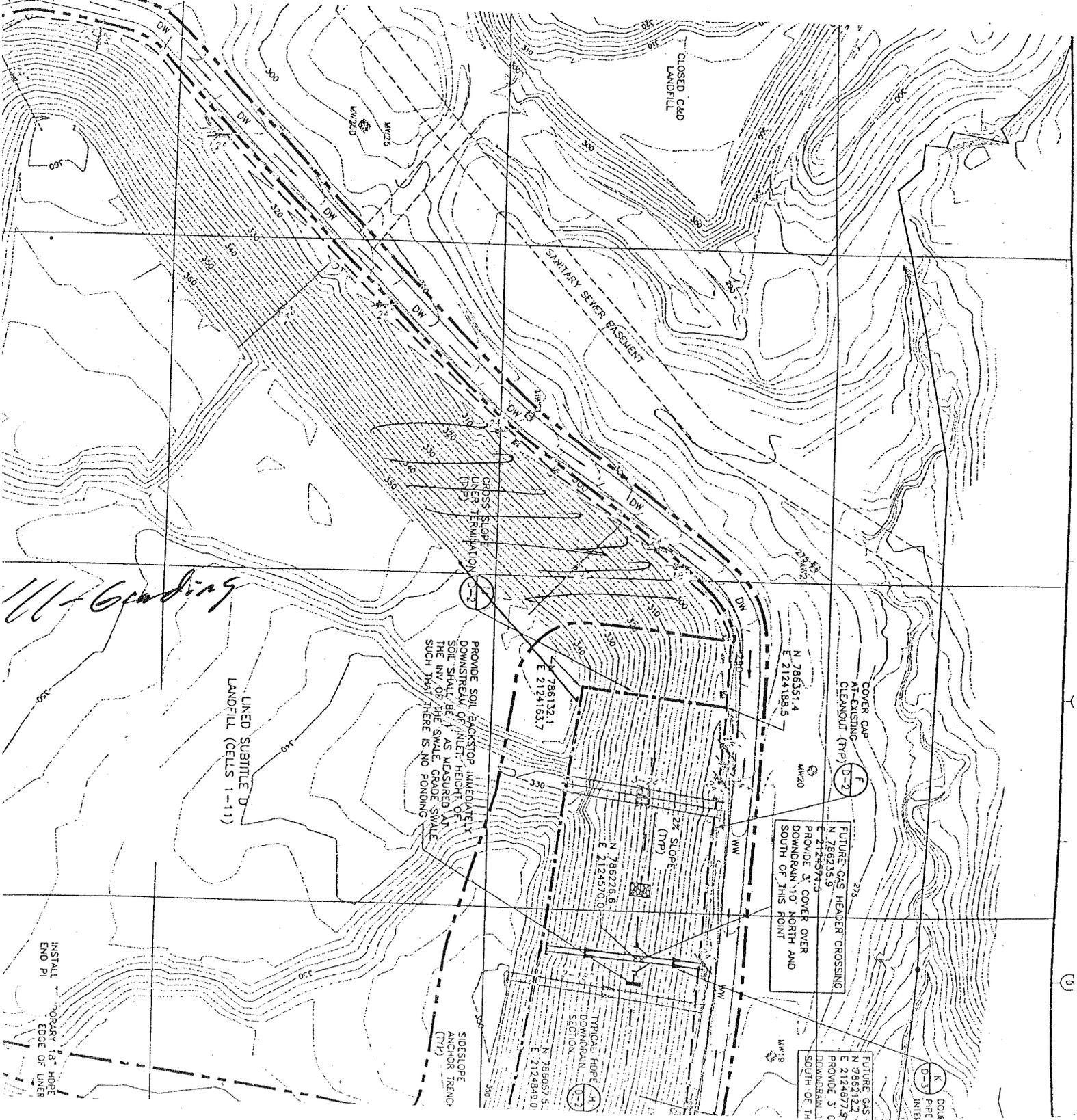




CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT		Sheet No.: 1 of 2 Date: 06-28-04 Weather: PC	Report #: 96 low 68 high 79
WORK AND EQUIPMENT		VISITORS	
EQUIPMENT: CAT D6M, CAT D4C, Volvo end dumps, 563 smooth drum roller		MATERIALS RECEIVED	
WORK COMPLETED: <u>Item No. 3: Excavate, Transport, and Install Additional Intermediate Cover Material.</u> Contractor grading intermediate soil in Phase V.		none	
<u>Item No. 7: Excavate, Transport and Install Protective Soil Layer.</u> Contractor screening protective cover material.		COMMENT	
RESULTS: none		None	
BY: 		APPROVED BY: 	
CQA INSPECTOR		CERTIFYING ENGINEER	
REVIEWED BY:			
PROJECT ENGINEER			

RPT # 96
6-28-4

Site Sketch



U-G grading

PROVIDE SOIL BACKSTOP IMMEDIATELY
DOWNSTREAM OF INLET. HEIGHT OF
SOIL SHALL BE 1' AS MEASURED AT
THE INV. OF THE SWALE GRADE SWALE
SUCH THAT THERE IS NO PONDING

LANDED SUBTITLE D
LANDFILL (CELLS 1-11)

INSTALL 18" HOPE
CORARY TO
EDGE OF LINER

SIDESLOPE
ANCHOR TRENCH
(TYP)

COVER CAP
EXISTING
CLEANOUT (TYP) D-2
N 786351.4
E 2124188.5

FUTURE GAS HEADER CROSSING
N 786255.9
E 2124571.5
PROVIDE 3' COVER OVER
DOWNDRAIN 10' NORTH AND
SOUTH OF THIS POINT

FUTURE GAS
N 786312.2
E 2124677.9
PROVIDE 3' C
DOWNDRAIN
SOUTH OF TH

DOUB
PIPE
INTER

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-29-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 85 Lo: 65 _____ Clear Partly _____ Cloudy 1.75 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

(Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location protective cover, LLDPE, composite

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 5: Furnish and Install 40 Mil Textured LLDPE Geomembrane.

Sub-contractor Hallaton continued LLDPE placement in Phase V. Contractor continuing to backfilling bottom anchor trench in Phase IV.

Item No. 6: Geo-composite deployment.

Sub-contractor Hallaton continued placement of Geo-composite in Phase V. All was placed and connected per specifications.

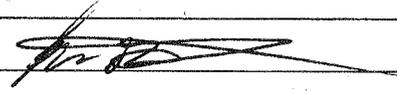
Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor screening protective cover material. Contractor placing in Phase III.

Item No. 17: Miscellaneous Work and Clean-up

Contractor cleaning out perimeter ditch and cleaning up site in general due to rain from Monday night.

Attachments: Yes No

Signed 

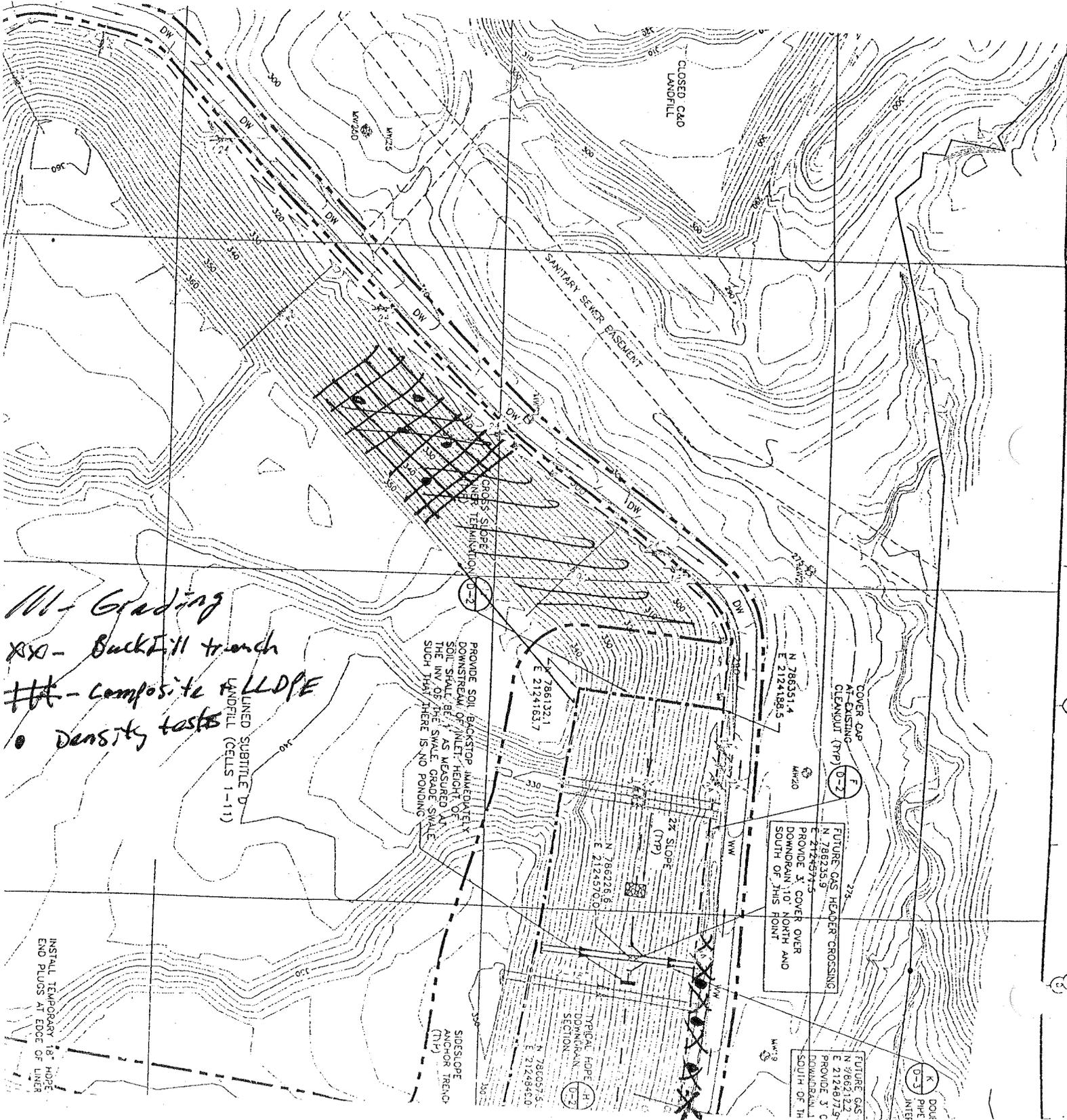
Description:

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

RPT# 97
6-29-04

Site Sketch



M - Grading
 XX - Backfill trench
 ## - Composite LLDPE
 • Density tests

PROVIDE SOIL BACKSTOP IMMEDIATELY
 DOWNSTREAM OF VALVE. HEIGHT OF
 SOIL SHALL BE 1' AS MEASURED AT
 THE INV OF THE SWALE. GRADE SWALE
 SUCH THAT THERE IS NO PONDING

INSTALL TEMPORARY 18" HOPE
 END PLUGS AT EDGE OF LINER

LINED SUBTITLE 'D'
 LANDFILL (CELLS 1-11)

SIDESLOPE
 ANCHOR TRENCH
 (TYP)

TYPICAL HOPE SECTION
 (TYP)

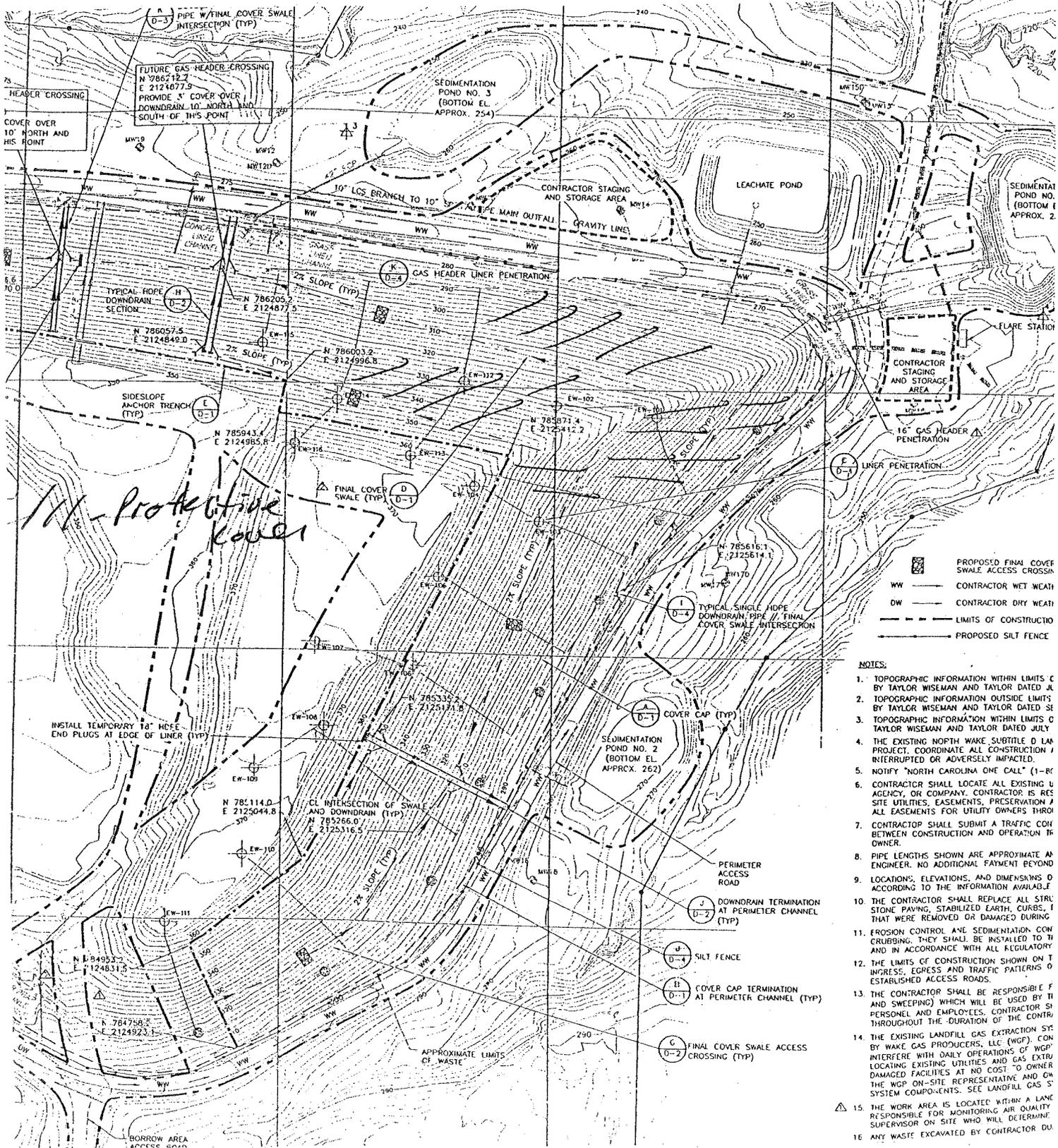
FUTURE GAS HEADER CROSSING
 N 786235.9
 E 2124571.5
 PROVIDE 3' COVER OVER
 DOWNDRAIN 10' NORTH AND
 SOUTH OF THIS POINT

FUTURE GAS CLEANOUT (TYP)
 N 78651.4
 E 2124198.5
 PROVIDE 3' COVER OVER
 DOWNDRAIN 10' NORTH AND
 SOUTH OF THIS POINT

DOOR PIPE INTER
 (TYP)

RPT # 97
6-29-4

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- CONTRACTOR WET WEATH
- CONTRACTOR DRY WEATH
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

- NOTES:
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS C BY TAYLOR WISEMAN AND TAYLOR DATED JULY 1988.
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED SEPTEMBER 1988.
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY 1988.
 4. THE EXISTING NORTH WAKE SUBTITLE D LAND PROJECT, COORDINATE ALL CONSTRUCTION TO INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800-4-A-SAFE) PRIOR TO ANY EXCAVATION.
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES, OR COMPANY, CONTRACTOR IS RES SITE UTILITIES, EASEMENTS, PRESERVATION AND ALL EASEMENTS FOR UTILITY OWNERS THROUGHOUT THE DURATION OF THE PROJECT.
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN BETWEEN CONSTRUCTION AND OPERATION TO THE OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AS ENGINEER, NO ADDITIONAL PAYMENT BEYOND THIS.
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS TO BE ACCORDING TO THE INFORMATION AVAILABLE.
 10. THE CONTRACTOR SHALL REPLACE ALL STONE PAVING, STABILIZED EARTH, CURBS, ETC. THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
 11. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO PREVENT AND IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING, EGRESS AND TRAFFIC PATTERNS OF ESTABLISHED ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERSONNEL AND EMPLOYEES, CONTRACTOR SHALL THROUGHOUT THE DURATION OF THE PROJECT.
 14. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM BY WAKE GAS PRODUCERS, LLC (WGP) CAN INTERFERE WITH DAILY OPERATIONS OF WGP LOCATING EXISTING UTILITIES AND GAS EXTRACTION FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND OWNER SYSTEM COMPONENTS. SEE LANDFILL GAS SYSTEM COMPONENTS.
 15. THE WORK AREA IS LOCATED WITHIN A LANE RESPONSIBLE FOR MONITORING AIR QUALITY SUPERVISOR ON SITE WHO WILL DETERMINE ANY WASTE EXCAVATED BY CONTRACTOR DURING CONSTRUCTION.

<p align="center"> CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p>	<p> Sheet No.: 1 of 4 Report #: 97 Date: 06-29-04 Weather: PC low 65 high 85 </p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	<p align="center">MATERIALS RECEIVED</p>
<p>WORK COMPLETED:</p>	<p align="center">none</p>
<p>Item No. 3: <u>Excavate, Transport, and Install Additional Intermediate Cover Material.</u> Contractor grading intermediate soil in Phase V.</p>	<p align="center">COMMENT</p>
<p>Item No. 5: <u>Furnish and Install 40 Mil Textured LLDPE Geomembrane.</u> Sub-contractor Hallaton continued LLDPE placement in Phase V. Contractor continuing to backfilling bottom anchor trench in Phase IV.</p>	<p align="center">None</p>
<p>Item No. 6: <u>Geo-composite deployment.</u> Sub-contractor Hallaton continued placement of Geo-composite in Phase V. All was placed and connected per specifications.</p>	<p align="center">CORRESPONDING DATA SHEETS</p>
<p>Item No. 7: <u>Excavate, Transport and Install Protective Soil Layer.</u> Contractor screening protective cover material. Contractor placing in Phase III.</p>	<p> Site sketch Density tests </p>
<p>RESULTS: All density tests were at least 95% of the max dry density of the material of proctor I was using. See attached</p>	
<p>BY:</p>	<p align="center">APPROVED BY: <i>R.E. Dunne</i></p>
<p align="center">CQA INSPECTOR</p>	<p align="center">CERTIFYING ENGINEER</p>
<p>REVIEWED BY:</p>	
<p align="center">PROJECT ENGINEER</p>	

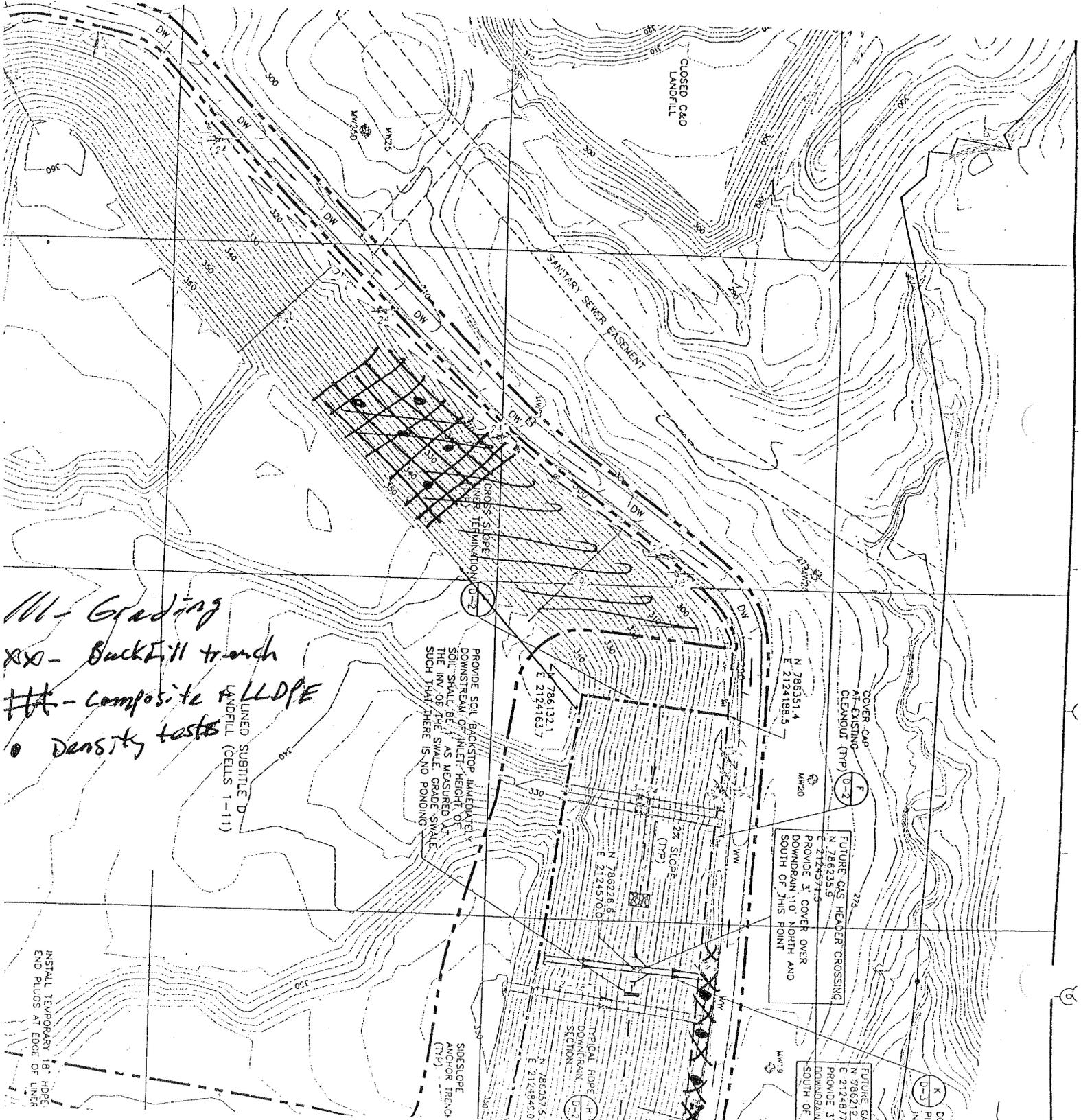


Field Density Test Summary

Client: North Wake		General Contractor: Thalle		Date: June 29, 2004		Page: 1 of 1							
Project Name: Phase I closure		Earthwork Contractor: Thalle		Technician: Bion Dalton									
Project Location: North Wake Landfill				DS =2406		Passing =							
Project Number: 6172-42378				MS =660		Passing =							
				Trolox Gauge No./Type		3440.no. 30129							
Test No.	Location	Elevation, Depth (ft) or Lift No.	Laboratory Test Results			Field Test Results			Compaction Achieved (%)	Compaction Required (%)	Status P / F	Comments Corrected Moisture	
			Off-Site Borrow Source	Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (in)	Dry Density (pcf)	Wet Density (pcf)					Moisture Content (%)
NW-270	Phase V intermediate cover	1+2	onsite borrow	108.2	16.0	12	104.9	121.2	21	97.0%	95%	P	15.5
NW-271	Phase V intermediate cover	1+2	onsite borrow	108.2	16.0	12	104.5	121	19	96.6%	95%	P	15.8
NW-272	Phase V intermediate cover	1+2	onsite borrow	108.2	16.0	12	105.1	120.9	19.2	97.2%	95%	P	15
NW-273	Phase V intermediate cover	1+2	onsite borrow	108.2	16.0	12	104.8	121.2	18.6	96.9%	95%	P	15.6
NW-274	Phase V intermediate cover	1+2	onsite borrow	108.2	16.0	12	105.3	121.4	19.3	97.3%	95%	P	15.3
NW-275	Phase IV anchor and flap void	1+2	onsite borrow	108.2	16.0	12	104.1	120.7	19.4	96.2%	195%	P	16
NW-276	Phase IV anchor and flap void	1+2	onsite borrow	108.2	16.0	12	104.1	120.5	18.6	96.3%	295%	P	15.7
NW-277	Phase IV anchor and flap void	1+2	onsite borrow	108.2	16.0	12	105.6	121.3	18.4	97.6%	395%	P	14.9
NW-278	Phase IV anchor and flap void	3+4	onsite borrow	108.2	16.0	12	105.1	120.7	18.9	97.2%	495%	P	14.8
NW-279	Phase IV anchor and flap void	3+4	onsite borrow	108.2	16.0	12	103.5	120.3	20.3	95.7%	595%	P	16.2
NW-280	Phase IV anchor and flap void	3+4	onsite borrow	108.2	16.0	12	104.4	120.8	21	96.5%	695%	P	15.7
NW-281	Phase IV anchor and flap void	5+6	onsite borrow	108.2	16.0	12	103.8	120.8	19.6	95.9%	795%	P	16.4
NW-282	Phase IV anchor and flap void	5+6	onsite borrow	108.2	16.0	12	105.3	121.4	18.6	97.3%	895%	P	15.3
NW-283	Phase IV anchor and flap void	5+6	onsite borrow	108.2	16.0	12	104.2	121.3	19.3	96.3%	995%	P	16.4

RFT# 97
6-29-04

Site Sketch



III - Grading
 XIX - Backfill trench
 H - Composite LLOPE
 • Density tests

PROVIDE SOIL BACKSTOP IMMEDIATELY
 DOWNSTREAM OF INLET. HEIGHT OF
 SOIL SHALL BE 1' AS MEASURED AT
 THE INV OF THE SWALE GRADE SWALE
 SUCH THAT THERE IS NO PONDING

INSTALL TEMPORARY 18" HOPE
 END PLUGS AT EDGE OF LINER

SIDESLOPE
 ANCHOR TRENCH
 (TYP)

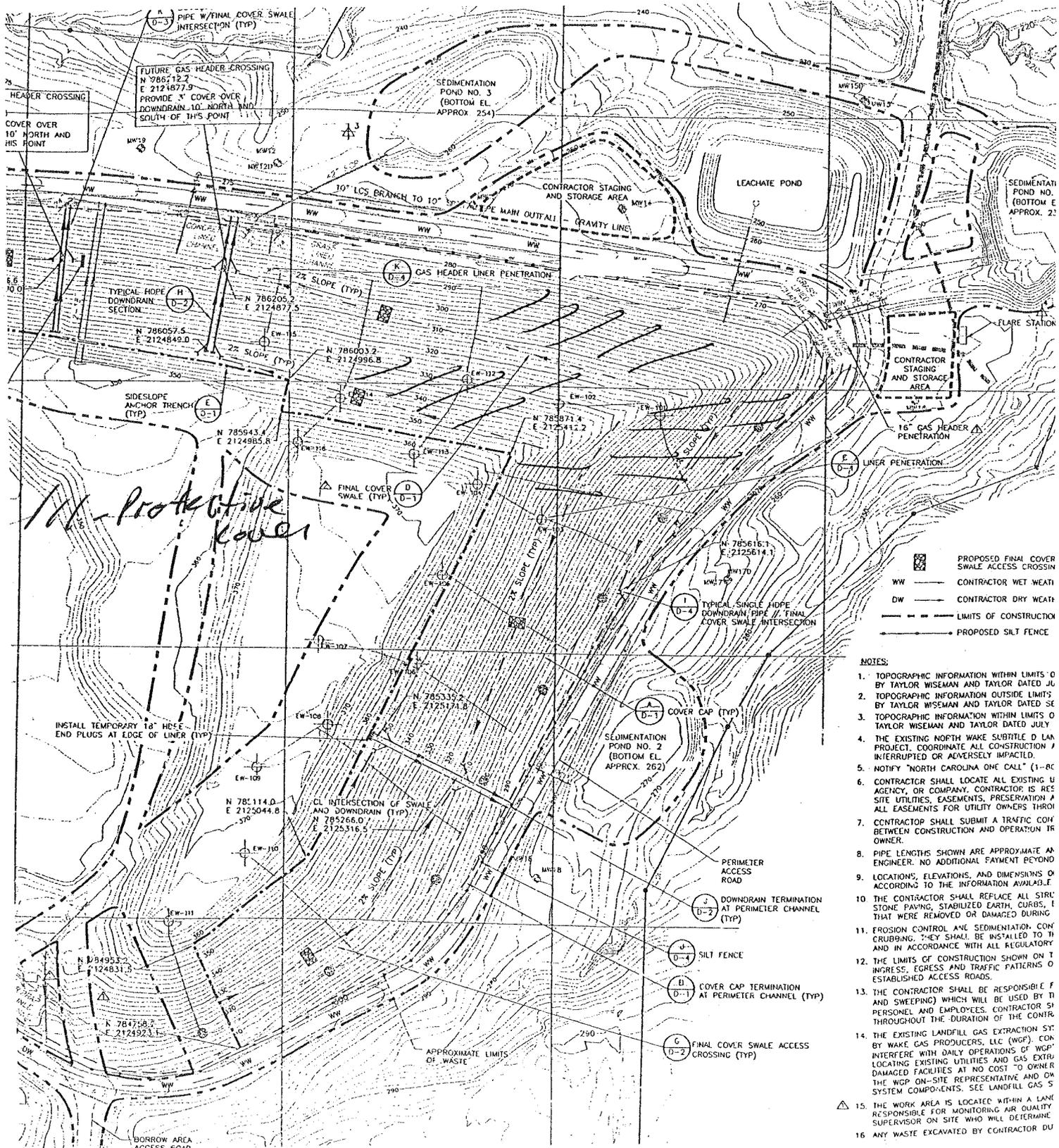
FUTURE GAS HEADER CROSSING
 N 786235.9
 E 2124577.5
 PROVIDE 3" COVER OVER
 DOWNDRAN 110' NORTH AND
 SOUTH OF THIS POINT

FUTURE GAS
 N 786212.2
 E 2124817.2
 PROVIDE 3"
 DOWNDRAN
 SOUTH OF 1

DO
 P/F
 INT

RPT # 97
6-29-4

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- CONTRACTOR WET WEATH
- CONTRACTOR DRY WEATH
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

- NOTES:
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JULY 1997.
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED SEPTEMBER 1997.
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY 1997.
 4. THE EXISTING NORTH WAKE SUBTITLE D LANDFILL PROJECT. COORDINATE ALL CONSTRUCTION TO AVOID INTERFERENCE OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800-4-A-SAFE) PRIOR TO ANY EXCAVATION.
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES, EASEMENTS, PRESERVATION AND ALL EASEMENTS FOR UTILITY OWNERS THROUGHOUT THE DURATION OF THE PROJECT.
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN BETWEEN CONSTRUCTION AND OPERATION TO THE OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AS ENGINEER. NO ADDITIONAL PAYMENT BEYOND CONTRACT SHALL BE REQUIRED.
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES SHALL BE INSTALLED TO THE INFORMATION AVAILABLE.
 10. THE CONTRACTOR SHALL REPLACE ALL STRUCTURE PAVING, STABILIZED EARTH, CURBS, ETC. THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
 11. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO THE INFORMATION AVAILABLE AND IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES AND TRAFFIC PATTERNS ON ESTABLISHED ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL PERSONNEL AND EMPLOYEES. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES THROUGHOUT THE DURATION OF THE PROJECT.
 14. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM OPERATED BY WAKE GAS PRODUCERS, LLC (WGP). CONTRACTOR SHALL NOT INTERFERE WITH DAILY OPERATIONS OF WGP. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES AND GAS EXTRACTION FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND OWNERS SHALL BE CONTACTED FOR MORE INFORMATION.
 15. THE WORK AREA IS LOCATED WITHIN A LANDFILL. CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AIR QUALITY DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY SUPERVISOR ON SITE WHO WILL DETERMINE IF ANY WASTE EXCAVATED BY CONTRACTOR DU

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 06-30-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 86 Lo: 66 _____ Clear x Partly _____ Cloudy 0.6 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

(Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location protective cover, LLDPE

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 5: Furnish and Install 40 Mil Textured LLDPE Geomembrane.

Sub-contractor Hallaton continued and completed placement of liner but could not finish welding due to PM shower. Contractor backfilling anchor trench in Phase IV.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

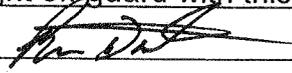
Contractor screening protective cover material. Contractor placing in Phase III.

Item No. 11: Furnish and Install 18-inch HDPE CPP Down drain.

Contractor commenced installation of first down drain located in Phase I. All went well and according to specification. I had a concern that the water traveling down might erode the side of the ditch and get under concrete road. I will wait for storm event and take a good look at the situation.

Item No. 17: Miscellaneous Work and Clean-up

Contractor cleaning out perimeter ditch. We had .5 inches of rain in approximately 15 minutes. The ditch at the North side but westerly was filled up and over flowing. There was LLDPE, dirt, trash bags wood, bottles, oil filter and items I could not describe blocking the grates. Once the water subsided back to the ditch I could see some damage to the concrete ditch, an area approximately twenty feet long floated and broke. The contractor and Engineer were notified. The Contractor new it was his responsibility to keep the ditch flowing freely but they were caught off guard with this quick storm.

Attachments: Yes No Signed 

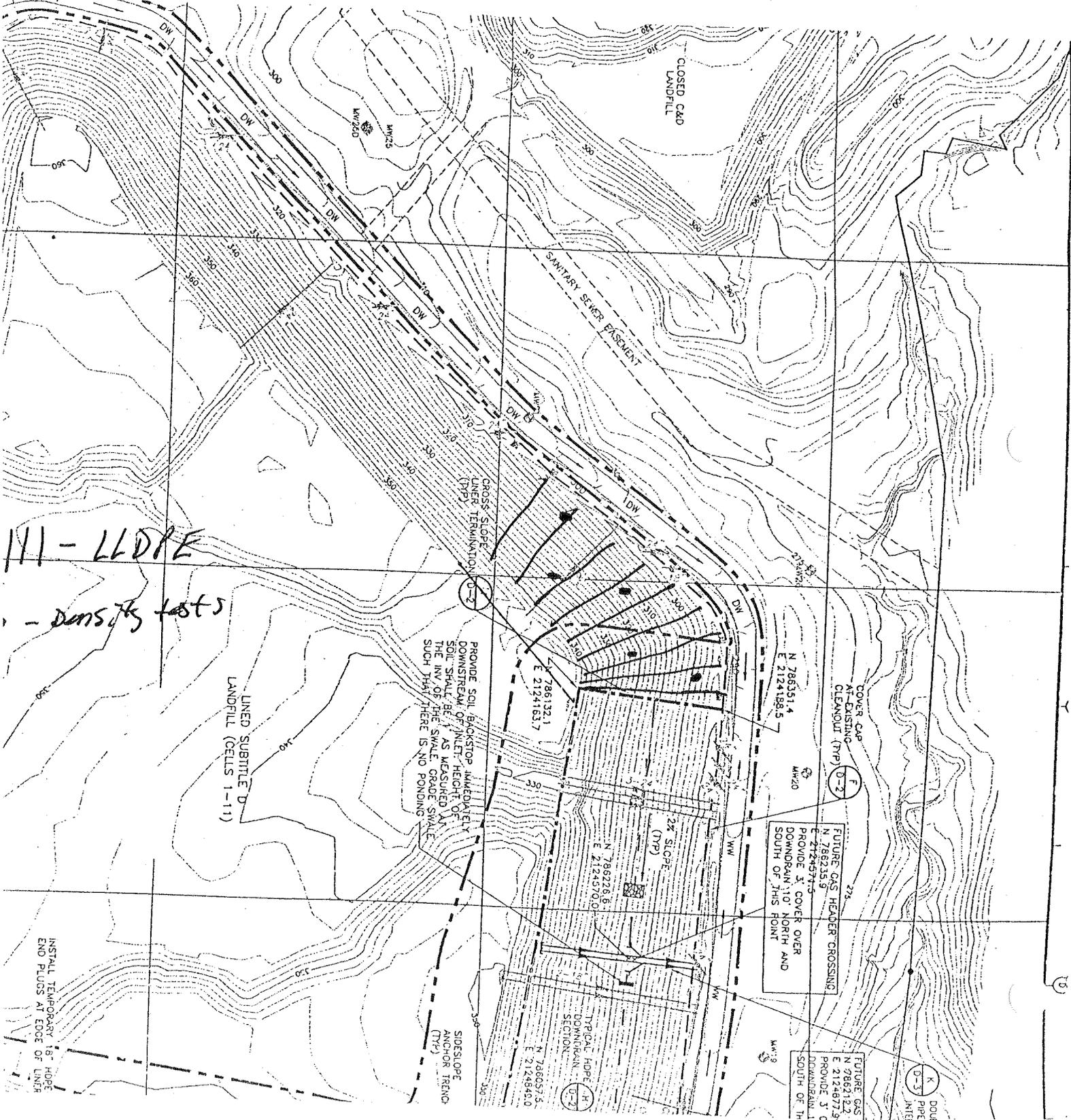
Description: _____

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

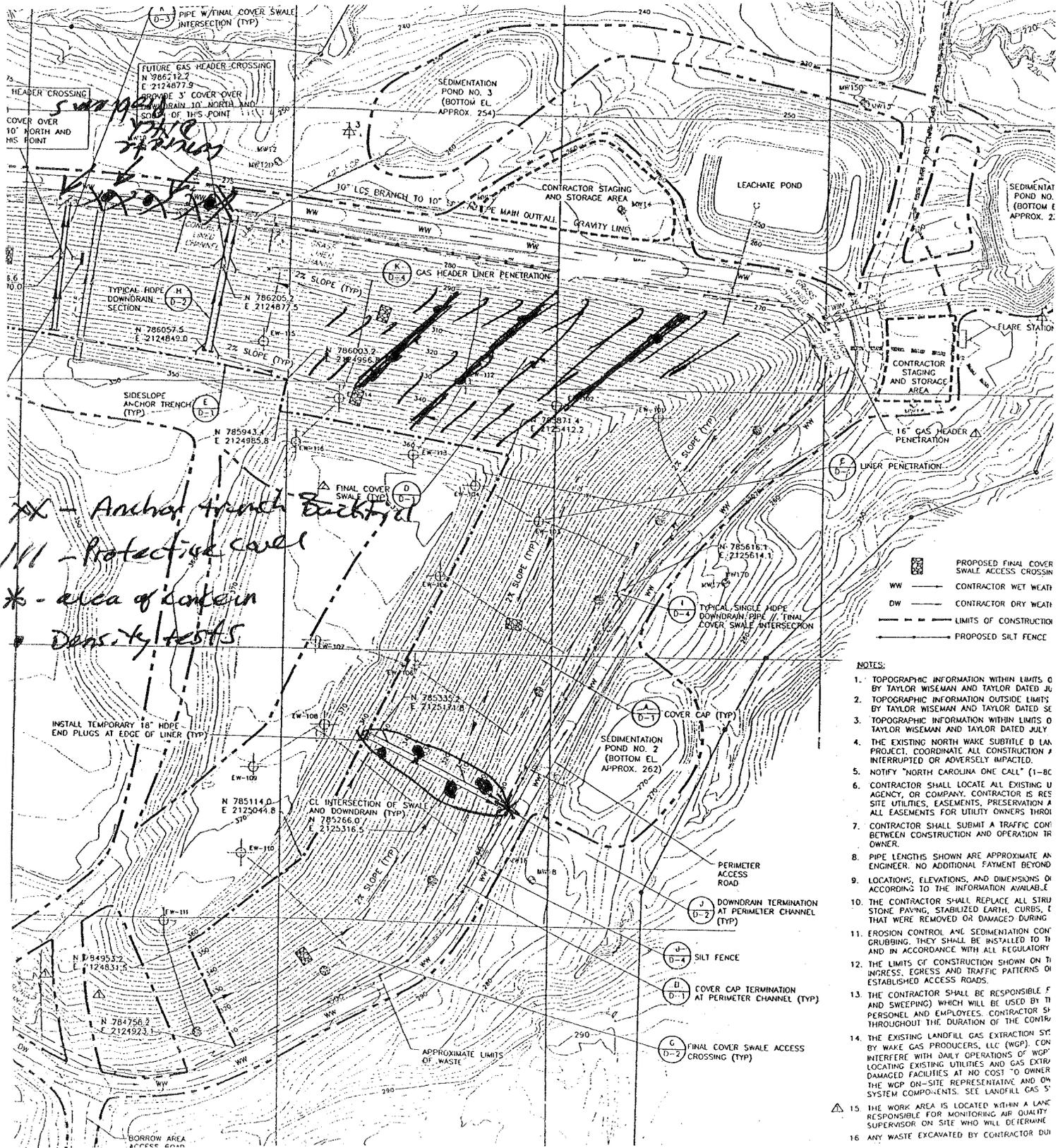
RPT # 98
6-30-4

Site Sketch



RH# 98
6-304

Site Sketch

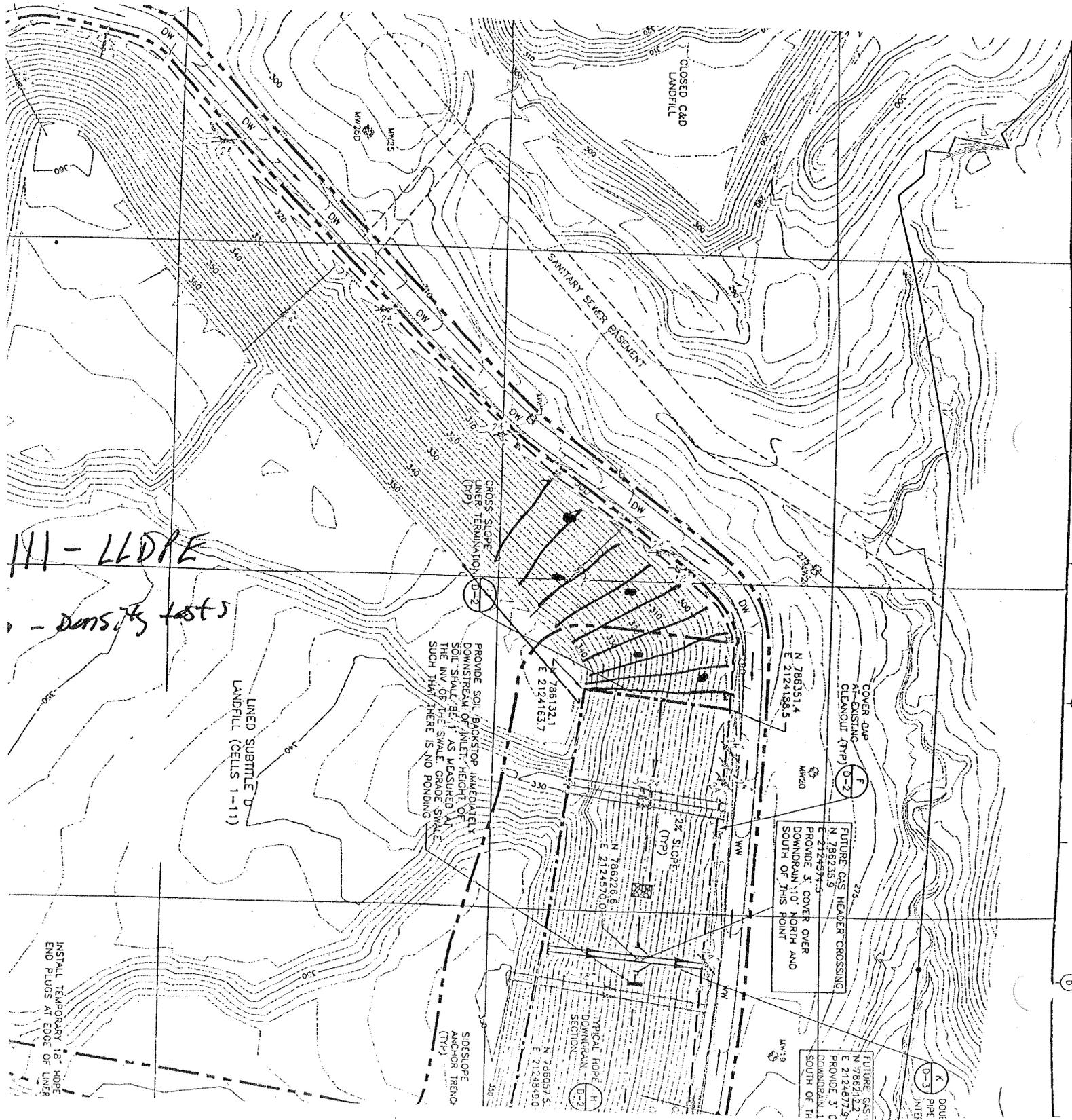


- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY 1998.
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED SEPTEMBER 1998.
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY 1998.
 4. THE EXISTING NORTH WAKE SUBTITLE D LAM PROJECT, COORDINATE ALL CONSTRUCTION & INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800-4-A-SAFE) PRIOR TO ANY CONSTRUCTION.
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY, OR COMPANY, CONTRACTOR IS RES RESPONSIBLE FOR PRESERVATION & ALL EASEMENTS FOR UTILITY OWNERS THROUGHOUT THE PROJECT.
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AN ENGINEER, NO ADDITIONAL PAYMENT BEYOND CONTRACT SHALL BE REQUIRED.
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES SHALL BE USED BY THE CONTRACTOR.
 10. THE CONTRACTOR SHALL REPLACE ALL STRUCTURE PAVING, STABILIZED EARTH, CURBS, ETC. THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
 11. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO PREVENT SOIL EROSION AND SEDIMENTATION OF ESTABLISHED ACCESS ROADS.
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL BE USED BY THE CONTRACTOR TO PREVENT EGRESS AND TRAFFIC PATTERNS OF ESTABLISHED ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SWEEPING WHICH WILL BE USED BY THE CONTRACTOR AND EMPLOYEES, CONTRACTOR SHALL MAINTAIN ACCESS TO ALL AREAS THROUGHOUT THE DURATION OF THE PROJECT.
 14. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM SHALL BE PRESERVED AND NOT INTERFERED WITH DAILY OPERATIONS OF WGP. LOCATING EXISTING UTILITIES AND GAS EXTRACTION DAMAGED FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND OWNERS REPRESENTATIVE SHALL BE NOTIFIED OF ANY SYSTEM COMPONENTS. SEE LANDFILL GAS SYSTEM DRAWING.
 15. THE WORK AREA IS LOCATED WITHIN A LARGE WASTE AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AIR QUALITY THROUGHOUT THE PROJECT.
 16. ANY WASTE EXCAVATED BY CONTRACTOR DURING CONSTRUCTION SHALL BE PROPERLY HANDLED AND DISPOSED OF AT AN APPROVED LOCATION.

<p>CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>	<p>Sheet No. : 1 of 4 Report #: 98 Date: 06-30-04 Weather: PC low 66 high 86</p>
<p>WORK AND EQUIPMENT</p>	<p>VISITORS</p>
<p><u>EQUIPMENT:</u> CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p> <p><u>WORK COMPLETED:</u></p> <p>Item No. 5: Furnish and Install 40 Mil Textured LLDPE Geomembrane. Sub-contractor Hallaton continued and completed placement of liner but could not finish welding due to PM shower. Contractor backfilling anchor trench in Phase IV.</p> <p>Item No. 7: Excavate, Transport and Install Protective Soil Layer. Contractor screening protective cover material. Contractor placing in Phase III.</p> <p>Item No. 11: Furnish and Install 18-inch HDPE CPP Down drain. Contractor commenced installation of first down drain located in Phase I. All went well and according to specification. I had a concern that the water traveling down might erode the side of the ditch and get under concrete road. I will wait for storm event and take a good look at the situation.</p> <p>Item No. 17: Miscellaneous Work and Clean-up Contractor cleaning out perimeter ditch. We had .5 inches of rain in approximately 15 minutes. The ditch at the North side but westerly was filled up and over flowing. There was LLDPE, dirt, trash bags wood, bottles, oil filter and items I could not describe blocking the grates. Once the water subsided back to the ditch I could see some damage to the concrete ditch, an area approximately twenty feet long floated and broke. The contractor and Engineer were notified. The Contractor new it was his responsibility to keep the ditch flowing freely but they were caught off guard with this quick storm.</p> <p>RESULTS: All density tests were at least 95% of the max dry density of the material of proctor I was using. See attached</p>	<p>MATERIALS RECEIVED</p> <p>none</p> <p>COMMENT</p> <p>None</p> <p>CORRESPONDING DATA SHEETS</p> <p>Site sketch Density tests</p>
<p>BY:</p>	<p>APPROVED BY: <i>R.E. Bunnick</i></p>
<p>CQA INSPECTOR</p>	<p>CERTIFYING ENGINEER</p>
<p>REVIEWED BY:</p>	<p>PROJECT ENGINEER</p>

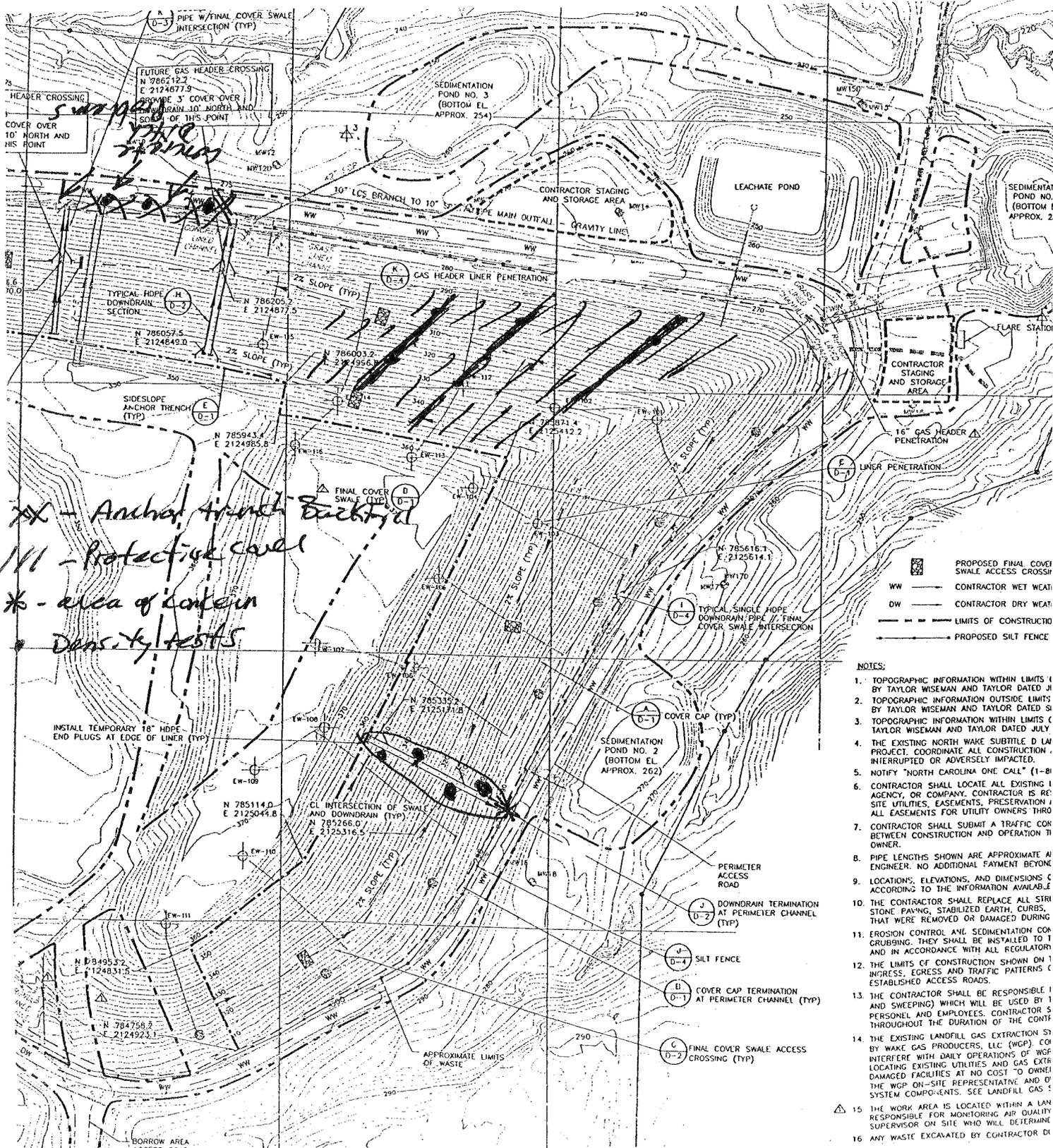
RPT # 98
6-30-4

Site Sketch



RF# 98
6-304

Site Sketch



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-01-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 88 Lo: 68 _____ Clear Partly _____ Cloudy 0.01 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

(Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and					Subcontractor's Work Force			
Labor Classification			Equipment Classifications								
	I	II*		Type	Type*	Size	Size*				
Project Manager			Backhoes	cat							
Superintendent	1		Loader Backhoes								
Engineer			F.E. Loaders	cat							
Foreman	1		Dozers	cat		D7/D8					
Asst. Foreman			Grader								
Equip. Operators	2		Dump Trucks	cat	volvo						
Masons			Pick-up Trucks								
Pipe layers			Cars								
Laborers	3		Compactors	cat		563					
Truck Drivers			Pumps								
Carpenters			Water Truck								
Flag people			Well Point Systems								
Surveyors	2		Cranes								
Painters			Welder								
Plumbers			Compressors								
Pavers											
Electricians											
Total	9	*	Total	6	*					*	

*Designates subcontractors

Activity and Location protective cover, LLDPE

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 5: Furnish and Install 40 Mil Textured LLDPE Geomembrane.

Sub-contractor Hallaton continued welding the remainder of LLDPE in Phase V. Contractor backfilling anchor trench in Phase V. Hallaton also working on flaps and finishing up to leave site.

Item No. 6: Geo-composite deployment.

Sub-contractor Hallaton continued of Geo-composite in Phase V. All was placed and connected per specifications.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor screening protective cover material.

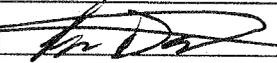
Item No. 11: Furnish and Install 18-inch HDPE CPP Down drain.

Contractor continuing installation of first down drain located in Phase I, other than the side shoots. All went well and according to specification. I had a concern that the water traveling down might erode the side of the ditch and get under concrete road. I will wait for storm event and take a good look at the situation.(still waiting for rain)

Item No. 17: Miscellaneous Work and Clean-up

Contractor cleaning up due some earlier rain.

Attachments: Yes No

Signed 

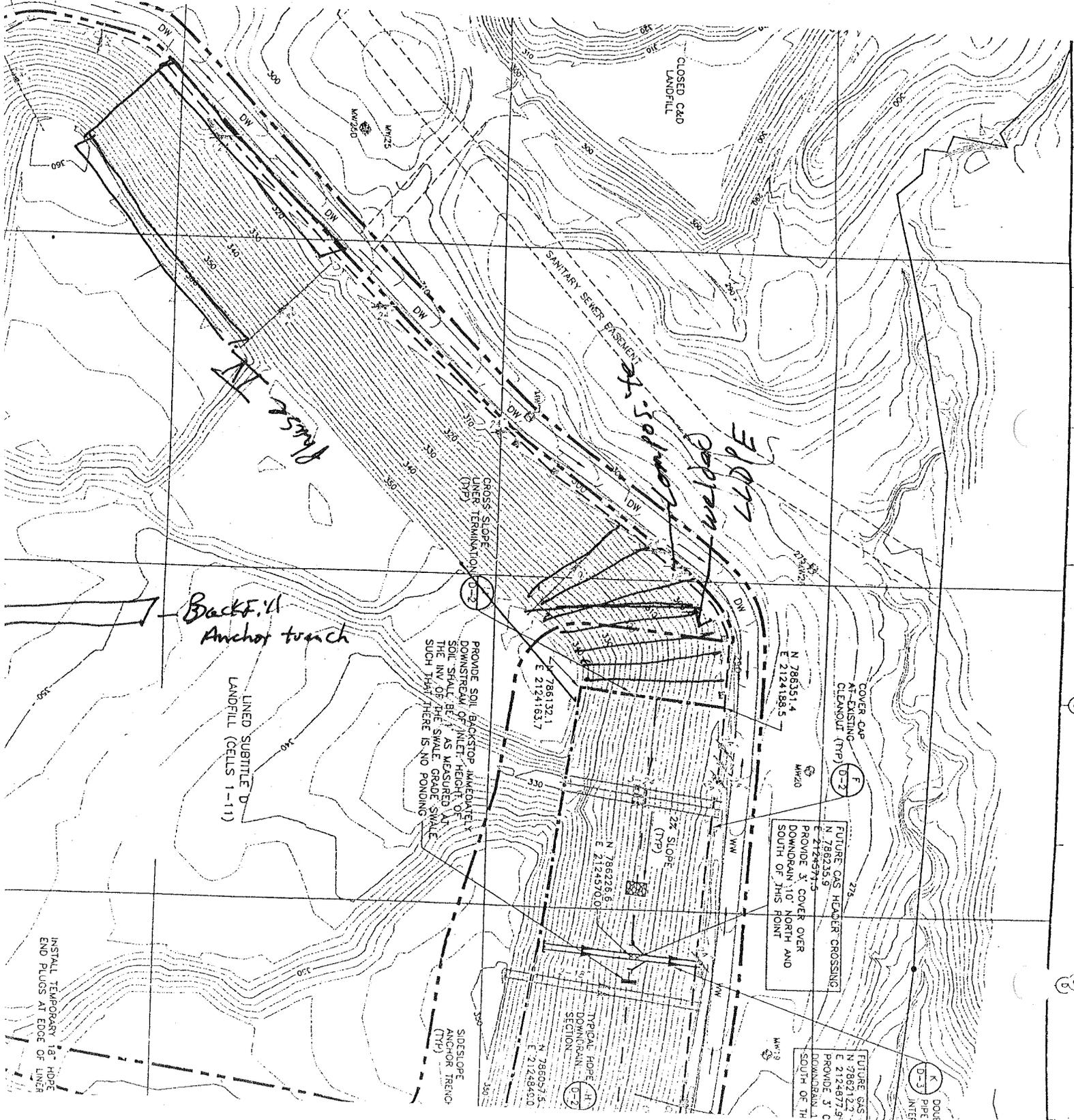
Description: _____

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

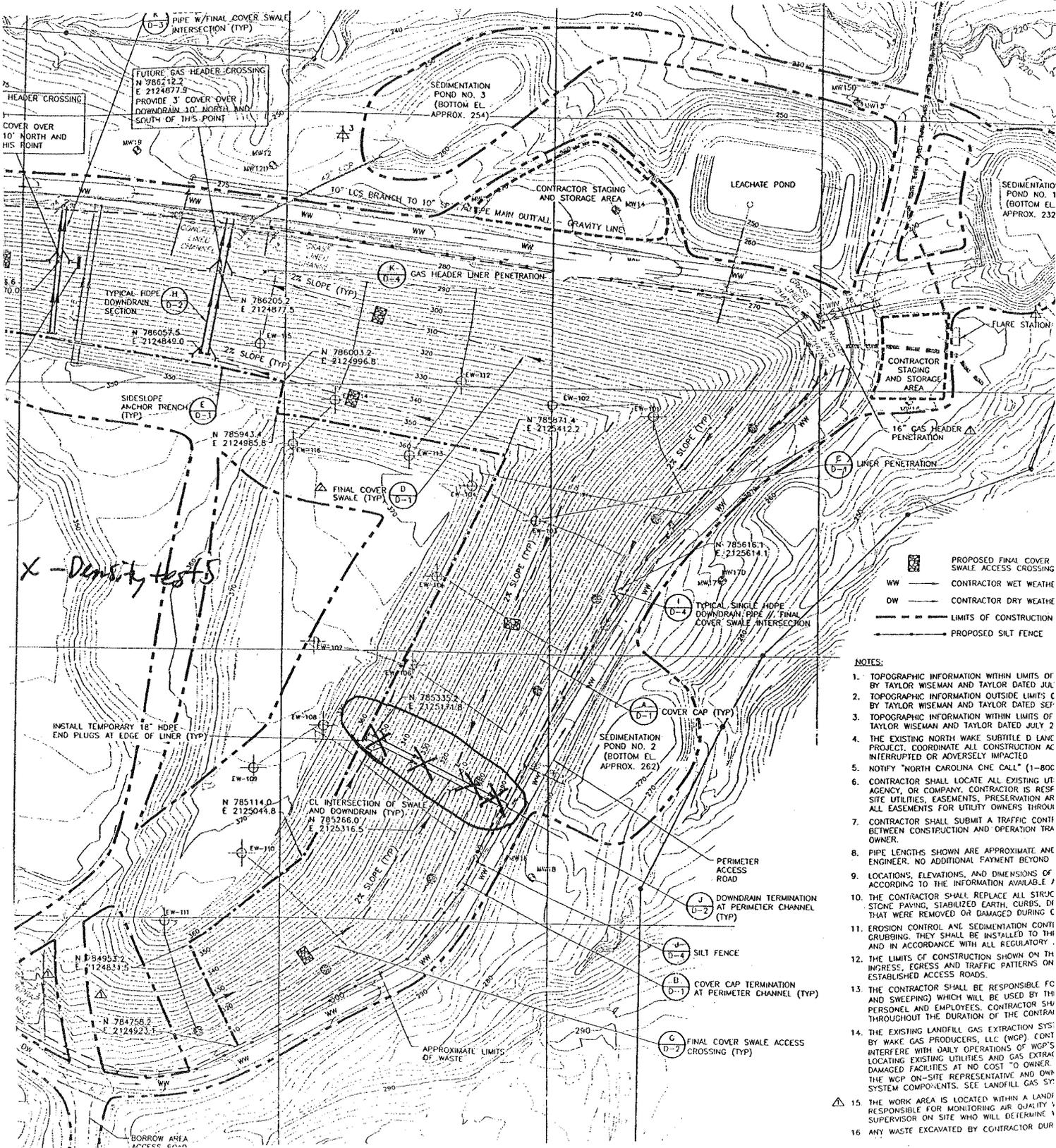
RPT # 99
7-1-4

Site Sketch



RPT# 99
7-1-4

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- CONTRACTOR WET WEATHE
- CONTRACTOR DRY WEATHE
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

- NOTES:
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JUL
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS C BY TAYLOR WISEMAN AND TAYLOR DATED SEP
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY 2
 4. THE EXISTING NORTH WAKE SUBTITLE D LANE PROJECT, COORDINATE ALL CONSTRUCTION AC INTERRUPTED OR ADVERSELY IMPACTED
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY AGENCY, OR COMPANY. CONTRACTOR IS RESE SITE UTILITIES, EASEMENTS, PRESERVATION AR ALL EASEMENTS FOR UTILITY OWNERS THROU
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTI BETWEEN CONSTRUCTION AND OPERATION TRAWER
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 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ACCORDING TO THE INFORMATION AVAILAB E
 10. THE CONTRACTOR SHALL REPLACE ALL STRUC STONE PAVING, STABILIZED EARTH, CURBS, DI THAT WERE REMOVED OR DAMAGED DURING C
 11. EROSION CONTROL AND SEDIMENTATION CONTI GRUBBING. THEY SHALL BE INSTALLED TO THI AND IN ACCORDANCE WITH ALL REGULATORY
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 16. ANY WASTE EXCAVATED BY CONTRACTOR DUR

<p align="center"> CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p>	<p> Sheet No. : 1 of 4 Report #: 99 Date: 7-01-04 Weather: PC low 68 high 88 </p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	<p align="center">MATERIALS RECEIVED</p>
<p>WORK COMPLETED:</p>	<p align="center">none</p>
<p>Item No. 7: Excavate, Transport and Install Protective Soil Layer. Contractor screening protective cover material.</p>	<p align="center">COMMENT</p>
<p>Item No. 11: Furnish and Install 18-inch HDPE CPP Down drain. Contractor continuing installation of first down drain located in Phase I, other than the side shoots. All went well and according to specification. I had a concern that the water traveling down might erode the side of the ditch and get under concrete road. I will wait for storm event and take a good look at the situation. (still waiting for rain) density test taken.</p>	<p align="center">None</p>
<p>RESULTS: All density tests were at least 95% of the max dry density of the material of proctor I was using. See attached</p>	<p align="center">CORRESPONDING DATA SHEETS</p> <p>Site sketch Density tests</p>
<p>BY:</p>	<p align="center">APPROVED BY: <i>R.E. Quinlan</i></p>
<p align="center">CQA INSPECTOR</p>	<p align="center">CERTIFYING ENGINEER</p>
<p>REVIEWED BY:</p>	
<p align="center">PROJECT ENGINEER</p>	



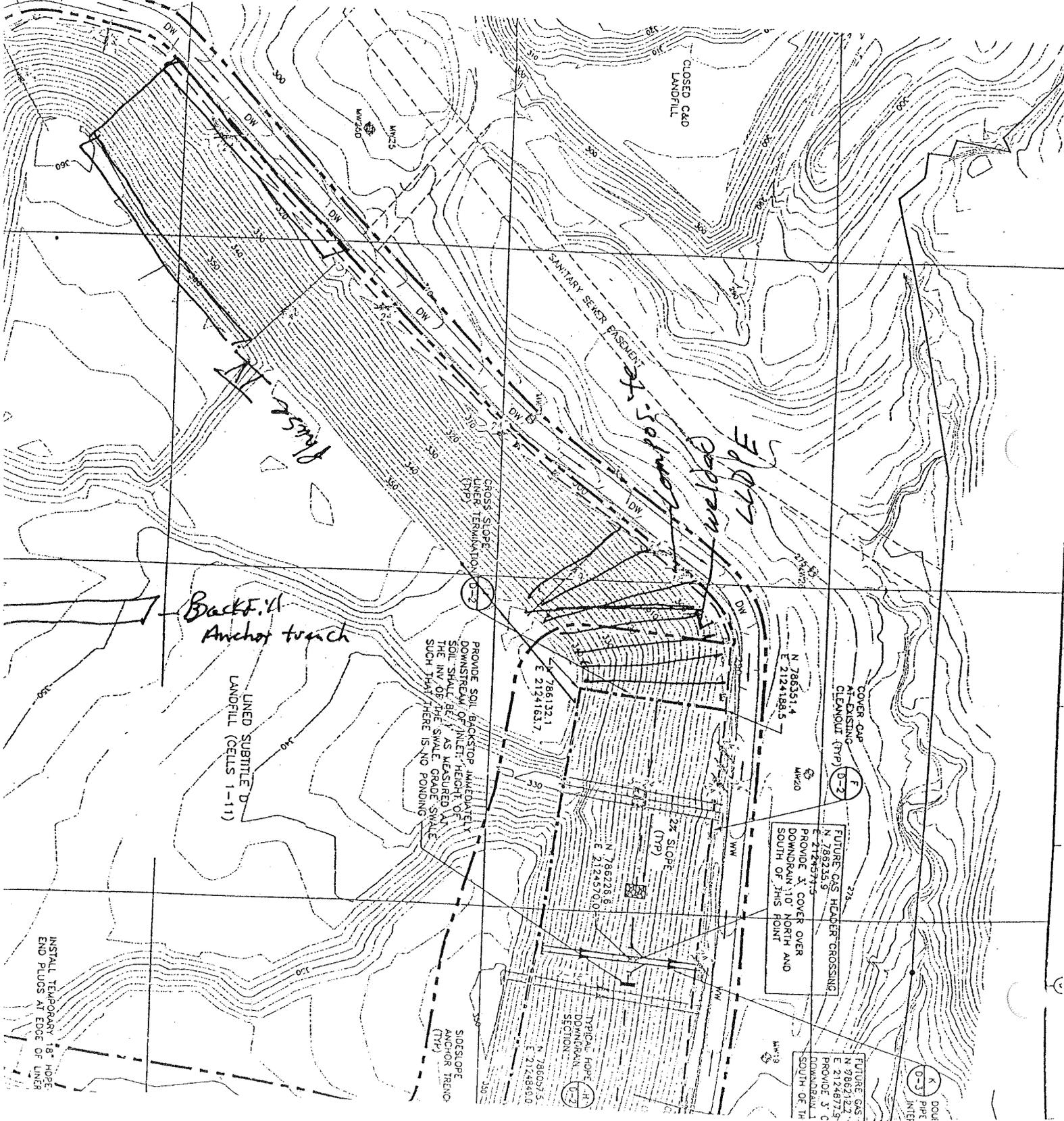
Field Density Test Summary

Client: <u>North Wake</u>		Date: <u>July 1, 2004</u>		Page: <u>1 of 1</u>	
Project Name: <u>Phase I closure</u>		Technician: <u>Bion Dalton</u>			
Project Location: <u>North Wake Landfill</u>		DS = <u>2402</u>		Passing = _____	
Project Number: <u>6172-42378</u>		MS = <u>664</u>		Passing = _____	
		Trolier Gauge No./Type _____		3440 no. 30129	
General Contractor: <u>Thalle</u>		Compaction Achieved (%)		Compaction Required (%)	
Earthwork Contractor: <u>Thalle</u>		Status P / F		Comments	
		Corrected Moisture			

Test No.	Location	Elevation, Depth (ft) or Lift No.	Laboratory Test Results			Field Test Results			Moisture Content (%)	Status P / F	Comments
			Off-Site Borrow Source	Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (in)	Dry Density (pcf)	Wet Density (pcf)			
NW-302	Down Drain No. 1	1+2	onsite borrow	108.2	16.0	12	105.0	120.8	22	P	15
NW-303	Down Drain No. 1	1+2	onsite borrow	108.2	16.0	12	104.2	120.5	21	P	15.6
NW-304	Down Drain No. 1	1+2	onsite borrow	108.2	16.0	12	104.9	120.9	20.3	P	15.2
NW-305	Down Drain No. 1	1+2	onsite borrow	108.2	16.0	12	104.7	121.1	20.4	P	15.7
NW-306	Down Drain No. 1	3+4	onsite borrow	108.2	16.0	12	104.7	120.2	19.4	P	14.8
NW-307	Down Drain No. 1	3+4	onsite borrow	108.2	16.0	12	105.5	121.4	18	P	15.1
NW-308	Down Drain No. 1	3+4	onsite borrow	108.2	16.0	12	104.3	120.7	18.9	P	15.7
NW-309	Down Drain No. 1	3+4	onsite borrow	108.2	16.0	12	104.1	120.1	19.3	P	15.4

RPT # 99
7-1-4

Site Sketch



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-02-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 87 Lo: 71 _____ Clear Partly _____ Cloudy 0.01 Precipitation
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00
 (Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors.

^Activity and Location protective cover, LLDPE

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 5: Furnish and Install 40 Mil Textured LLDPE Geomembrane.

Contractor backfilling anchor trench in Phase V. Hallaton also working on flaps and finishing up to leave site. They will be back at a later date.

Item No. 6: Geo-composite deployment.

Sub-contractor Hallaton continued and completed placement of Geo-composite in Phase V. All was placed and connected per specifications.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor screening protective cover material.

Item No. 8: Excavate, transport and Install Vegetative Cover.

Contractor placing top soil in Phase I and II areas.

Item No. 11: Furnish and Install 18-inch HDPE CPP Down drain.

Contractor continued installation of first down drain located in Phase I, other than the side shoots. All went well and according to specification. I had a concern that the water traveling down might erode the side of the ditch and get under concrete road. I will wait for storm event and take a good look at the situation. (Still waiting for rain)

Attachments: Yes No

Signed 

Description:

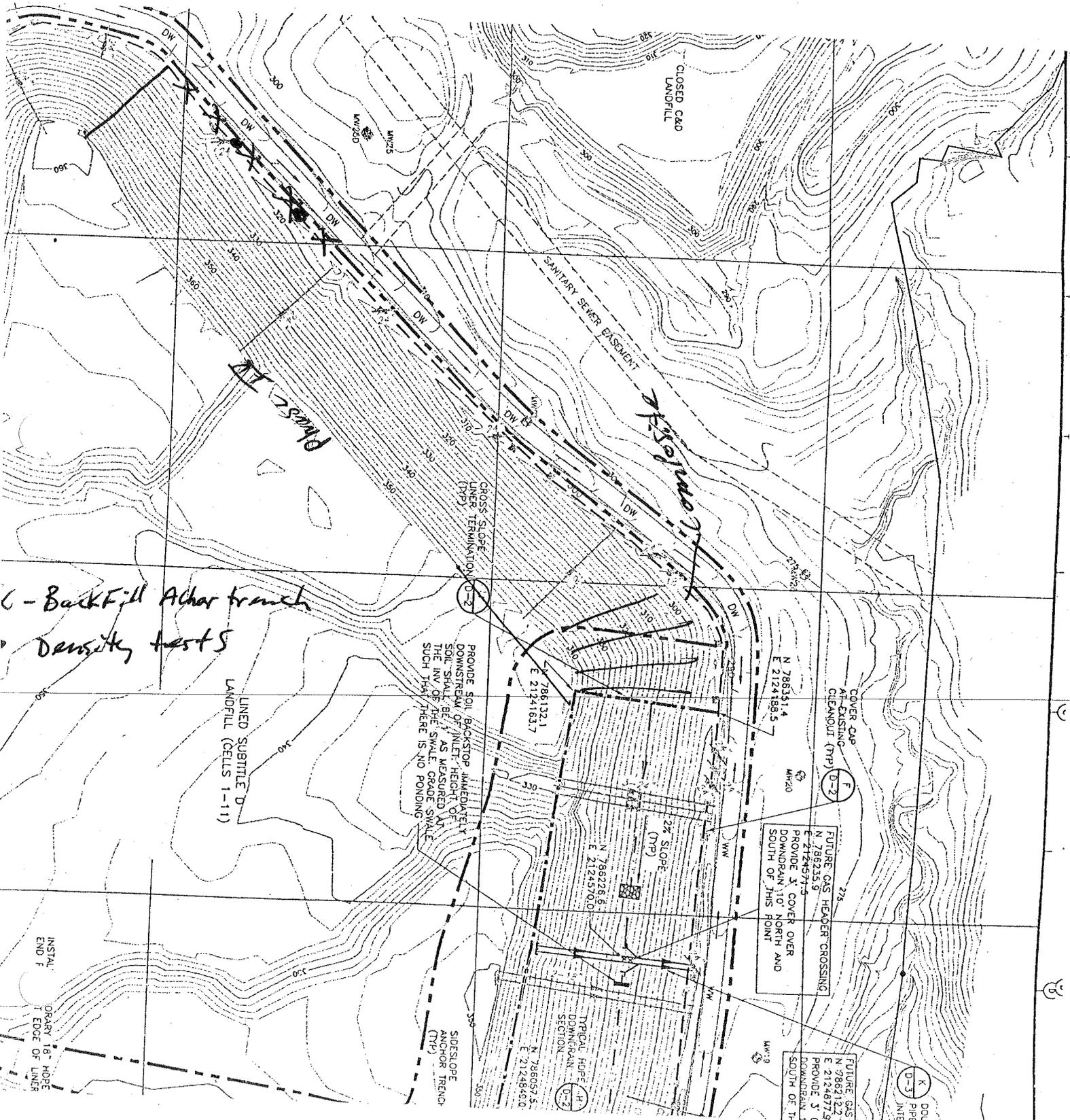
(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

RPT # 100

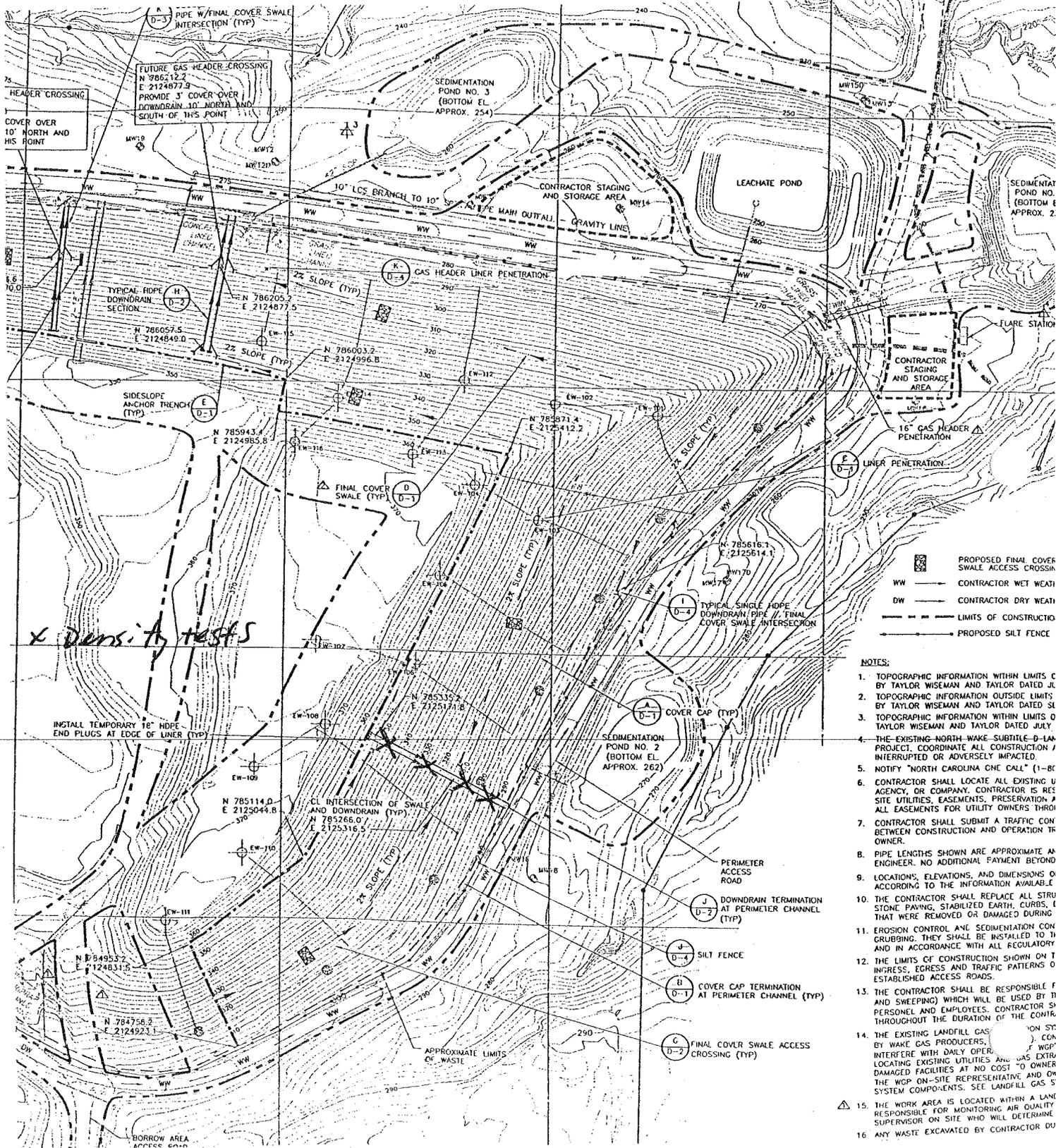
7-2-4

Site Sketch



RPT # 100
7-2-4

Site Sketch



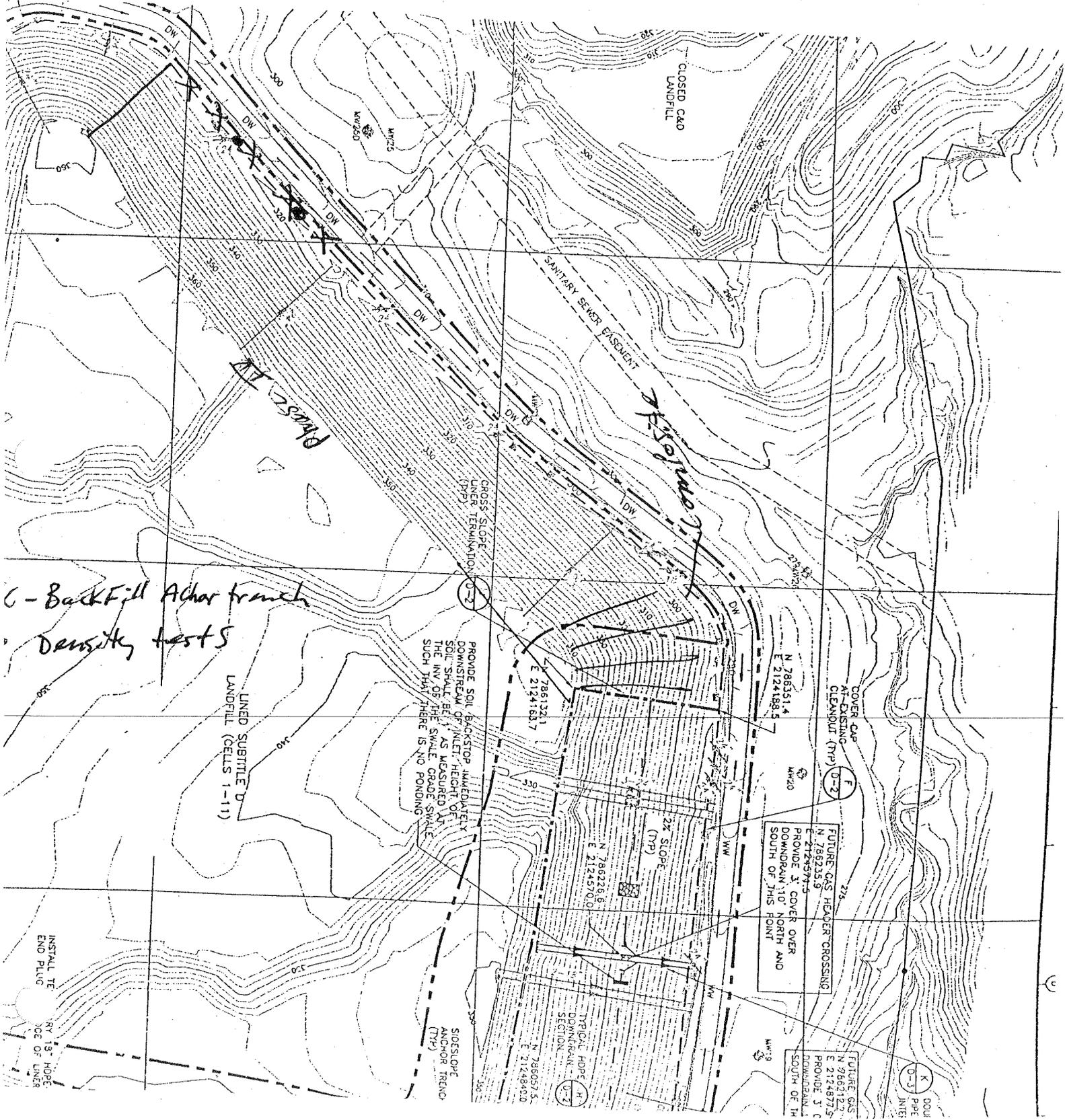
- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF PROJECT BY TAYLOR WISEMAN AND TAYLOR DATED JULY 1998.
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS OF PROJECT BY TAYLOR WISEMAN AND TAYLOR DATED JULY 1998.
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF PROJECT BY TAYLOR WISEMAN AND TAYLOR DATED JULY 1998.
 4. THE EXISTING NORTH WAKE SUBTITLE D-1A PROJECT. COORDINATE ALL CONSTRUCTION / INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800-4-A-SAFE) PRIOR TO ANY EXCAVATION.
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES, OR COMPANY. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, EASEMENTS, PRESERVATION, AND RECORDS FOR UTILITY OWNERS THROUGHOUT THE DURATION OF THE PROJECT.
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN BETWEEN CONSTRUCTION AND OPERATION TO THE OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AND ENGINEER. NO ADDITIONAL PAYMENT BEYOND CONTRACT SHALL BE REQUIRED.
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF UTILITIES SHALL BE ACCORDING TO THE INFORMATION AVAILABLE.
 10. THE CONTRACTOR SHALL REPLACE ALL STRUCTURE PAVING, STABILIZED EARTH, CURBS, ETC. THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
 11. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO THE SLOPE AND IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL BE USED BY THE CONTRACTOR TO ESTABLISH ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL PERSONNEL AND EMPLOYEES. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES THROUGHOUT THE DURATION OF THE PROJECT.
 14. THE EXISTING LANDFILL GAS MONITORING SYSTEM SHALL NOT BE INTERFERED WITH DAILY OPERATIONS. CONTRACTOR SHALL LOCATE EXISTING UTILITIES AND GAS EXTRACTION SYSTEMS AT NO COST TO OWNER. THE WFO ON-SITE REPRESENTATIVE AND OWNER SHALL BE NOTIFIED OF ANY GAS SYSTEM COMPONENTS. SEE LANDFILL GAS SYSTEM DRAWING FOR DETAILS.
 15. THE WORK AREA IS LOCATED WITHIN A LANE OF TRAFFIC. CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AIR QUALITY THROUGHOUT THE DURATION OF THE PROJECT. SUPERVISOR ON SITE WHO WILL DETERMINE WHEN TO STOP WORK.
 16. ANY WASTE EXCAVATED BY CONTRACTOR DURING CONSTRUCTION SHALL BE REMOVED FROM THE SITE.



<p align="center"> CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p>	<p> Sheet No. : 1 of 4 Report #: 100 Date: 7-02-04 Weather: PC low 71 high 87 </p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	<p align="center">MATERIALS RECEIVED</p>
<p>WORK COMPLETED:</p>	<p align="center">none</p>
<p>Item No. 5: Furnish and Install 40 Mil Textured LLDPE Geomembrane. Contractor backfilling anchor trench in Phase V.</p>	<p align="center">COMMENT</p>
<p>Item No. 7: Excavate, Transport and Install Protective Soil Layer. Contractor screening protective cover material.</p>	<p align="center">None</p>
<p>Item No. 8: Excavate, transport and Install Vegetative Cover. Contractor placing top soil in Phase I and II areas.</p>	<p align="center">CORRESPONDING DATA SHEETS</p>
<p>Item No. 11: Furnish and Install 18-inch HDPE CPP Down drain. Contractor continued installation of first down drain located in Phase I, other than the side shoots. All went well and according to specification. I had a concern that the water traveling down might erode the side of the ditch and get under concrete road. I will wait for storm event and take a good look at the situation. (Still waiting for rain)</p>	<p> Site sketch Density tests </p>
<p>RESULTS: All density tests were at least 95% of the max dry density of the material of proctor I was using. See attached</p>	<p>APPROVED BY: <i>R. E. Durkin</i></p>
<p>BY:</p>	<p align="center">CERTIFYING ENGINEER</p>
<p>REVIEWED BY:</p>	<p align="center">PROJECT ENGINEER</p>
<p>CQA INSPECTOR</p>	<p>PROJECT ENGINEER</p>

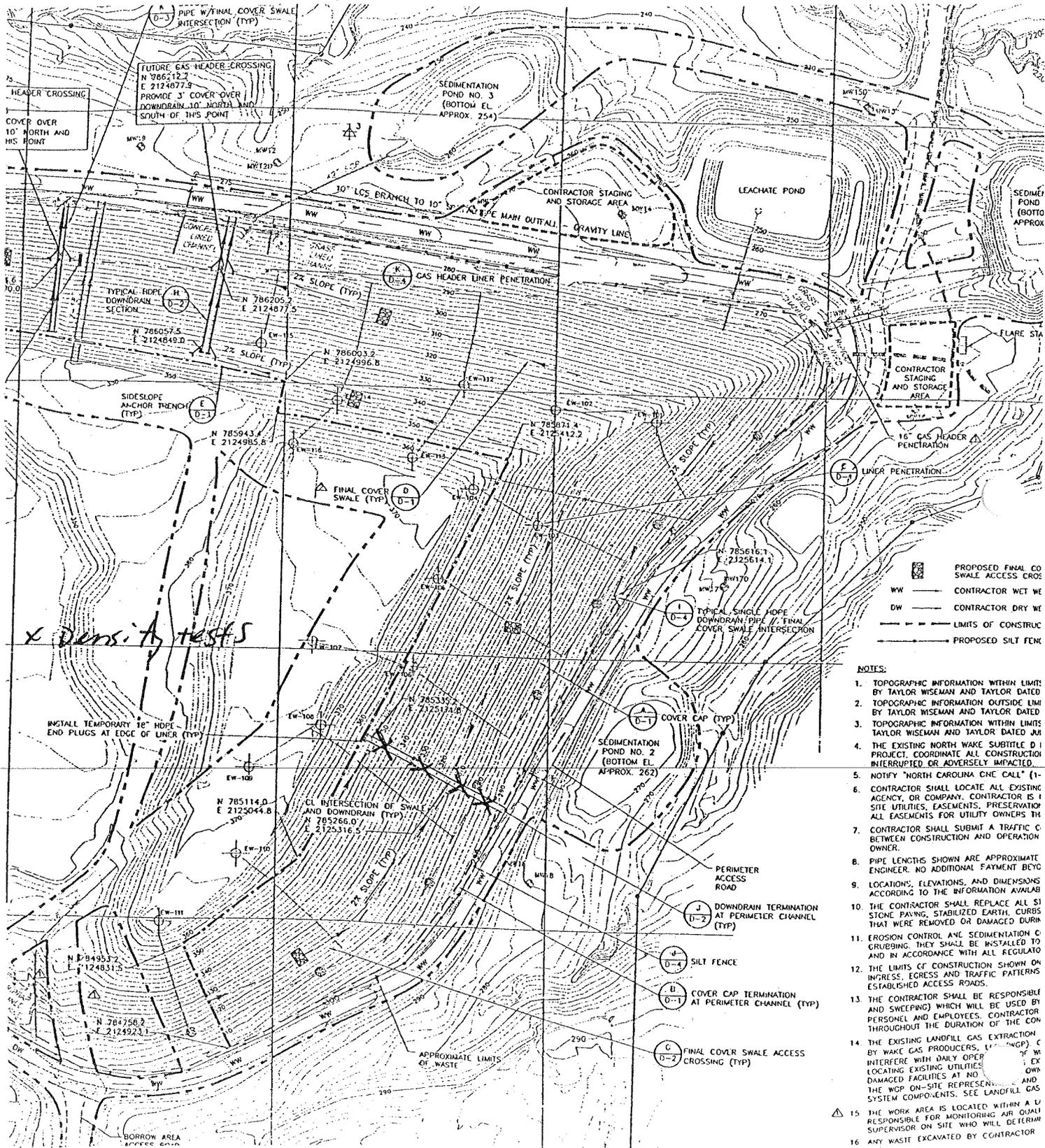
N. 1# 100
7-2-4

Site Sketch



RF# 100
7-2-4

Site Sketch



- PROPOSED FINAL CO SWALE ACCESS CROSS
- CONTRACTOR WET WELL
- CONTRACTOR DRY WELL
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMIT BY TAYLOR WISEMAN AND TAYLOR DATED
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS TAYLOR WISEMAN AND TAYLOR DATED
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 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES, EASEMENTS, PRESERVATION ALL EASEMENTS FOR UTILITY OWNERS TH
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN BETWEEN CONSTRUCTION AND OPERATION OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE ENGINEER, NO ADDITIONAL PAYMENT BEYOND
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS ACCORDING TO THE INFORMATION AVAILAB
 10. THE CONTRACTOR SHALL REPLACE ALL STONE PAVING, STABILIZED EARTH, CURBS THAT WERE REMOVED OR DAMAGED DURN
 11. EROSION CONTROL AND SEDIMENTATION CURBS SHALL BE INSTALLED TO AND IN ACCORDANCE WITH ALL REGULATORY
 12. THE LIMITS OF CONSTRUCTION SHOWN ON INGRESS, EGRESS AND TRAFFIC PATTERNS ESTABLISHED ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE AND SWEEPING) WHICH WILL BE USED BY PERSONNEL AND EMPLOYEES. CONTRACTOR THROUGHOUT THE DURATION OF THE CON
 14. THE EXISTING LANDFILL GAS EXTRACTION BY WAKE GAS PRODUCERS, (LFGP) C INTERFERE WITH ONLY OPER OF W LOCATING EXISTING UTILITIES, EX DAMAGED FACILITIES AT NO OWN AND THE WOP ON-SITE REPRESENTATIVE AND SYSTEM COMPONENTS. SEE LANDFILL GAS
 15. THE WORK AREA IS LOCATED WITHIN A U RESPONSIBLE FOR MONITORING AIR QUAL SUPERVISOR ON SITE WHO WILL DETERM
 16. ANY WASTE EXCAVATED BY CONTRACTOR

x Density tests

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-03-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 86 Lo: 69 _____ Clear Partly _____ Cloudy 1.28 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. _____ OT Shift: 7 to 3:30

(Contractor) Hours Worked: _____ Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location protective cover, swales and berms

Defective work noted today to be corrected later: None

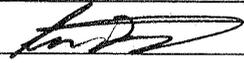
Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor screening protective cover material.

Item No.10: Furnish and Install Final Cover Swale and Berms.

Contractor on site shaping swales and berms in the Phase I and II area. Contractor also placing fabric and stone at bottom of Phase I.

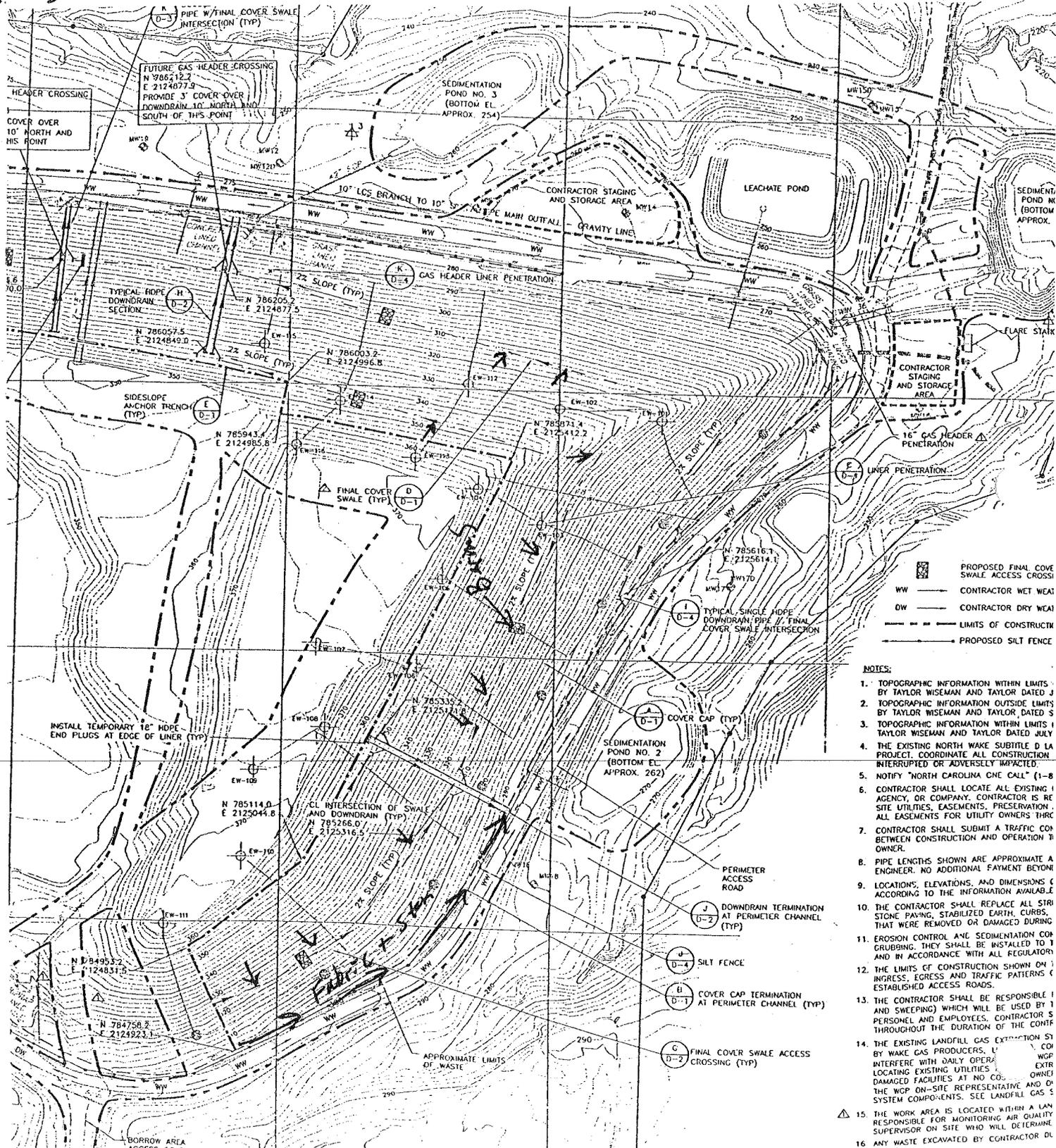
Attachments: Yes No Signed 

Description: _____
(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

RPT # 101
7-3-4

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- WW CONTRACTOR WET WEIR
- DW CONTRACTOR DRY WEIR
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

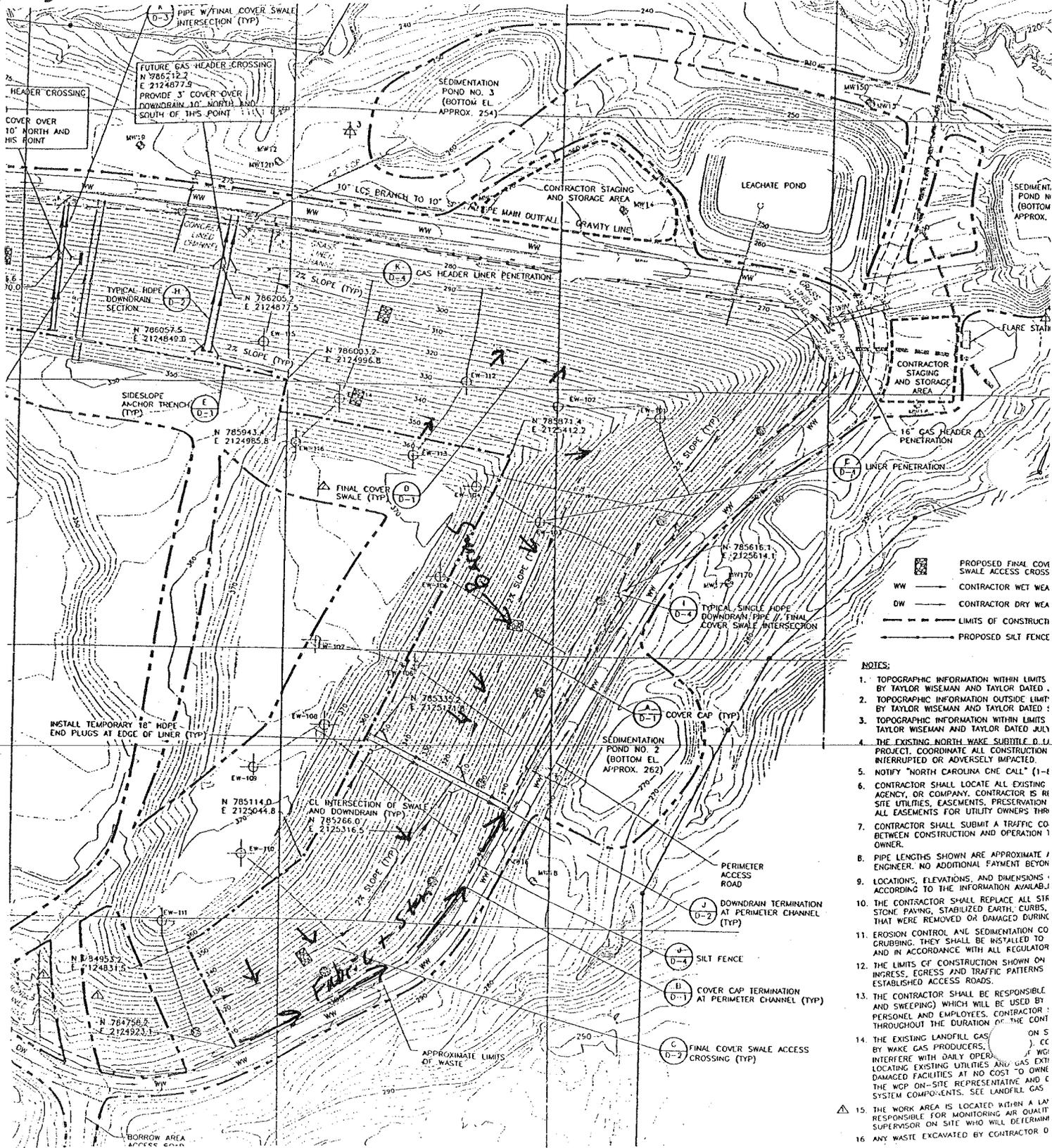
- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED J
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED S
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS I TAYLOR WISEMAN AND TAYLOR DATED JULY
 4. THE EXISTING NORTH WAKE SUBTITLE D LA PROJECT, COORDINATE ALL CONSTRUCTION INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-8
 6. CONTRACTOR SHALL LOCATE ALL EXISTING I AGENCY, OR COMPANY. CONTRACTOR IS RE SITE UTILITIES, EASEMENTS, PRESERVATION, ALL EASEMENTS FOR UTILITY OWNERS THRU
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CON BETWEEN CONSTRUCTION AND OPERATION TO OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE A ENGINEER, NO ADDITIONAL PAYMENT BEYOND
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS C ACCORDING TO THE INFORMATION AVAILABLE
 10. THE CONTRACTOR SHALL REPLACE ALL STRI STONE PAVING, STABILIZED EARTH, CURBS, THAT WERE REMOVED OR DAMAGED DURING
 11. EROSION CONTROL AND SEDIMENTATION CON GRUBBING, THEY SHALL BE INSTALLED TO I AND IN ACCORDANCE WITH ALL REGULATORY
 12. THE LIMITS OF CONSTRUCTION SHOWN ON I INGRESS, EGRESS AND TRAFFIC PATTERNS C ESTABLISHED ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE I AND SWEET'ING) WHICH WILL BE USED BY I PERSONNEL AND EMPLOYEES, CONTRACTOR S THROUGHOUT THE DURATION OF THE CONF
 14. THE EXISTING LANDFILL GAS EXTRACTION ST COY BY WAKE GAS PRODUCERS, U WGP COY INTERFERE WITH DAILY OPERA WGP EXTR DAMAGED FACILITIES AT NO COY OWNED THE WGP ON-SITE REPRESENTATIVE AND O SYSTEM COMPONENTS. SEE LANDFILL GAS S
 15. THE WORK AREA IS LOCATED WITHIN A LAN RESPONSIBLE FOR MONITORING AIR QUALITY SUPERVISOR ON SITE WHO WILL DETERMINE
 16. ANY WASTE EXCAVATED BY CONTRACTOR DL



<p>Sheet No. : 1 of 2 Report #: 101 Date: 7-03-04 Weather: PC low 69 high 86</p>	<p>CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>	<p>VISITORS</p>
<p>WORK AND EQUIPMENT</p>	<p>WORK AND EQUIPMENT</p>	<p>VISITORS</p>
<p><u>EQUIPMENT:</u> CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	<p>WORK AND EQUIPMENT</p>	<p>MATERIALS RECEIVED</p>
<p><u>WORK COMPLETED:</u> Item No. 7: Excavate, Transport and Install Protective Soil Layer. Contractor screening protective cover material.</p>	<p>WORK AND EQUIPMENT</p>	<p>none</p>
<p>Item No.10: Furnish and Install Final Cover Swale and Berms. Contractor on site shaping swales and berms in the Phase I and II area. Contractor also placing fabric and stone at bottom of Phase I.</p>	<p>WORK AND EQUIPMENT</p>	<p>COMMENT</p>
<p><u>RESULTS:</u> none</p>	<p>WORK AND EQUIPMENT</p>	<p>None</p>
<p>BY:</p>	<p>WORK AND EQUIPMENT</p>	<p>CORRESPONDING DATA SHEETS</p>
<p>APPROVED BY:</p>	<p>WORK AND EQUIPMENT</p>	<p>Site sketch</p>
<p>CQA INSPECTOR</p>	<p>WORK AND EQUIPMENT</p>	<p>APPROVED BY: <i>R.E. Burnane</i></p>
<p>PROJECT ENGINEER</p>	<p>WORK AND EQUIPMENT</p>	<p>CERTIFYING ENGINEER</p>
<p>REVIEWED BY:</p>	<p>WORK AND EQUIPMENT</p>	<p>PROJECT ENGINEER</p>

RPT # 101
7-3-4

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSS
- CONTRACTOR WET WEA
- CONTRACTOR DRY WEA
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED .
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED .
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS TAYLOR WISEMAN AND TAYLOR DATED JULY .
 4. THE EXISTING NORTH WAKE SUBTITLE D.U. PROJECT. COORDINATE ALL CONSTRUCTION INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1)-E .
 6. CONTRACTOR SHALL LOCATE ALL EXISTING AGENCY, OR COMPANY. CONTRACTOR IS RESPONSIBLE FOR PRESERVATION ALL EASEMENTS FOR UTILITY OWNERS THRU .
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC COORDINATION PLAN BETWEEN CONSTRUCTION AND OPERATION 1 OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE / ENGINEER. NO ADDITIONAL PAYMENT BEYOND .
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS / ACCORDING TO THE INFORMATION AVAILAB.J
 10. THE CONTRACTOR SHALL REPLACE ALL SIX STONE PAVING, STABILIZED EARTH, CURBS, THAT WERE REMOVED OR DAMAGED DURING .
 11. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO AND IN ACCORDANCE WITH ALL REGULATOR .
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING ARE FOR CONSTRUCTION ONLY. EXCESS EGRESS AND TRAFFIC PATTERNS ESTABLISHED ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL EXISTING UTILITIES AND FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL EXISTING UTILITIES AND FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL EXISTING UTILITIES AND FACILITIES.
 14. THE EXISTING LANDFILL GAS SYSTEM SHALL BE MONITORED AND MAINTAINED BY WASTE GAS PRODUCERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL EXISTING UTILITIES AND FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL EXISTING UTILITIES AND FACILITIES.
 15. THE WORK AREA IS LOCATED WITHIN A LANDFILL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AIR QUALITY AND SOIL QUALITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AIR QUALITY AND SOIL QUALITY.
 16. ANY WASTE EXCAVATED BY CONTRACTOR SHALL BE PROPERLY DISPOSED OF AT AN APPROVED LANDFILL.

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-04-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi _____ Lo: _____ Clear _____ Partly _____ Cloudy _____ Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: _____ Reg. _____ OT Shift: _____ to _____

(Contractor) Hours Worked: _____ Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent			Loader Backhoes				
Engineer			F.E. Loaders				
Foreman			Dozers				
Asst. Foreman			Grader				
Equip. Operators			Dump Trucks				
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers			Compactors				
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors			Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total		*	Total		*		*

*Designates subcontractors

Activity and Location: _____

Defective work noted today to be corrected later: _____

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Not work performed today, not a scheduled work day.

Attachments: Yes No Signed 

Description: _____
(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative



CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT		Sheet No. : 1 of 1 Date: 07-04-04 Weather: PC	Report #: 102 low 73 high 90
WORK AND EQUIPMENT		VISITORS	
		None	
EQUIPMENT:		MATERIALS RECEIVED	
		none	
WORK COMPLETED: No work completed, not a scheduled work day.		COMMENT	
RESULTS: No density testing		None	
		CORRESPONDING DATA SHEETS	
BY:		APPROVED BY: <i>K.E. Brouse</i>	
CQA INSPECTOR		CERTIFYING ENGINEER	
REVIEWED BY:			
PROJECT ENGINEER			

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-05-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi _____ Lo: _____ Clear _____ Partly _____ Cloudy _____ Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: _____ Reg. _____ OT Shift: _____ to _____

(Contractor) Hours Worked: _____ Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent			Loader Backhoes				
Engineer			F.E. Loaders				
Foreman			Dozers				
Asst. Foreman			Grader				
Equip. Operators			Dump Trucks				
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers			Compactors				
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors			Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total		*	Total		*		*

*Designates subcontractors

Activity and Location: _____

Defective work noted today to be corrected later: _____

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Not work performed today, not a scheduled work day.

Attachments: Yes No

Signed 

Description: _____

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative



CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT		Sheet No.: 1 of 1 Date: 07-05-04 Weather: PC	Report #: 103 low 71 high 93
WORK AND EQUIPMENT		VISITORS	
EQUIPMENT:		None	
WORK COMPLETED: No work completed, not a scheduled work day.		MATERIALS RECEIVED	
RESULTS: No density testing		none	
		COMMENT	
		None	
		CORRESPONDING DATA SHEETS	
BY:		APPROVED BY: <i>K.E. Christie</i>	
CQA INSPECTOR		CERTIFYING ENGINEER	
REVIEWED BY:			
PROJECT ENGINEER			

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-06-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 93 Lo: 68 _____ Clear x Partly Cloudy 0.00 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

(Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location protective cover, top-soil and anchor trenches

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 5: Furnish and Install 40 Mil Textured LLDPE Geomembrane.

Contractor backfilling top and bottom anchor trenches in Phase V. Compaction testing completed.

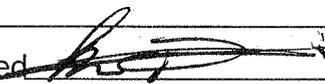
Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor screening protective cover material.

Item No. 8: Furnish and Install Vegetative Cover.

Contractor placing top-soil in Phases I and II.

Attachments: Yes No

Signed 

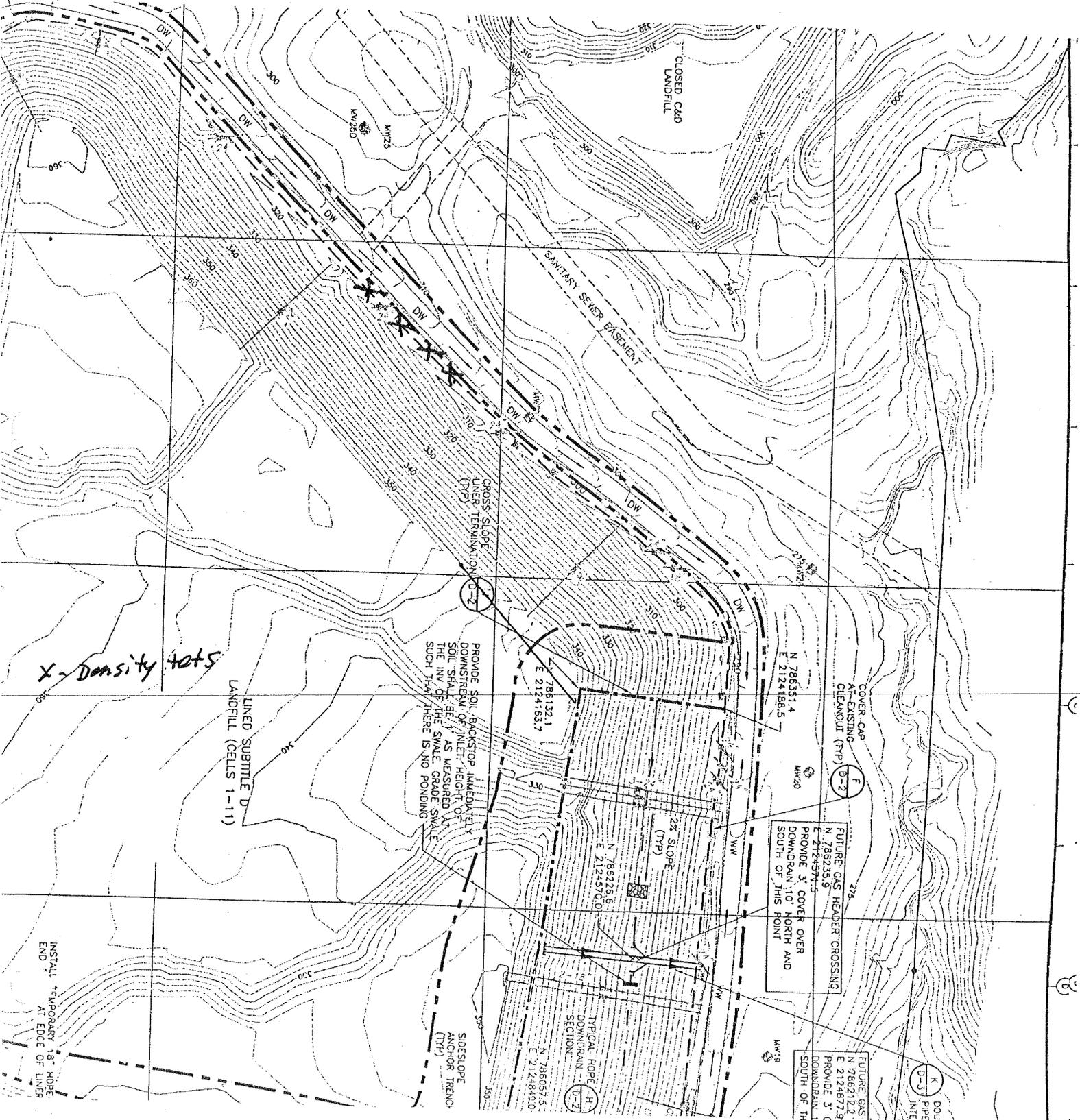
Description:

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

RPT# 104
7-6-4

Site Sketch



<p align="center"> CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p> <p>WORK AND EQUIPMENT</p> <p><u>EQUIPMENT:</u> CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p> <p><u>WORK COMPLETED:</u></p> <p>Item No. 5: Furnish and Install 40 Mil Textured LLDPE Geomembrane. Contractor backfilling top and bottom anchor trenches in Phase V. Compaction testing completed.</p> <p>Item No. 7: Excavate, Transport and Install Protective Soil Layer. Contractor screening protective cover material.</p> <p>Item No. 8: Furnish and Install Vegetative Cover. Contractor placing top-soil in Phases I and II.</p> <p>RESULTS: All density tests were at least 95% of the max dry density of the material of proctor I was using. See attached</p> <p>BY: </p>	<p>Sheet No. : 1 of 3 Report #: 104 Date: 7-06-04 Weather: PC low 68 high 96</p> <p>VISITORS</p> <p>MATERIALS RECEIVED</p> <p>none</p> <p>COMMENT</p> <p>None</p> <p>CORRESPONDING DATA SHEETS</p> <p>Site sketch Density tests</p>
<p>APPROVED BY: </p> <p>CQA INSPECTOR</p>	<p>CERTIFYING ENGINEER</p>
<p>REVIEWED BY:</p> <p>PROJECT ENGINEER</p>	

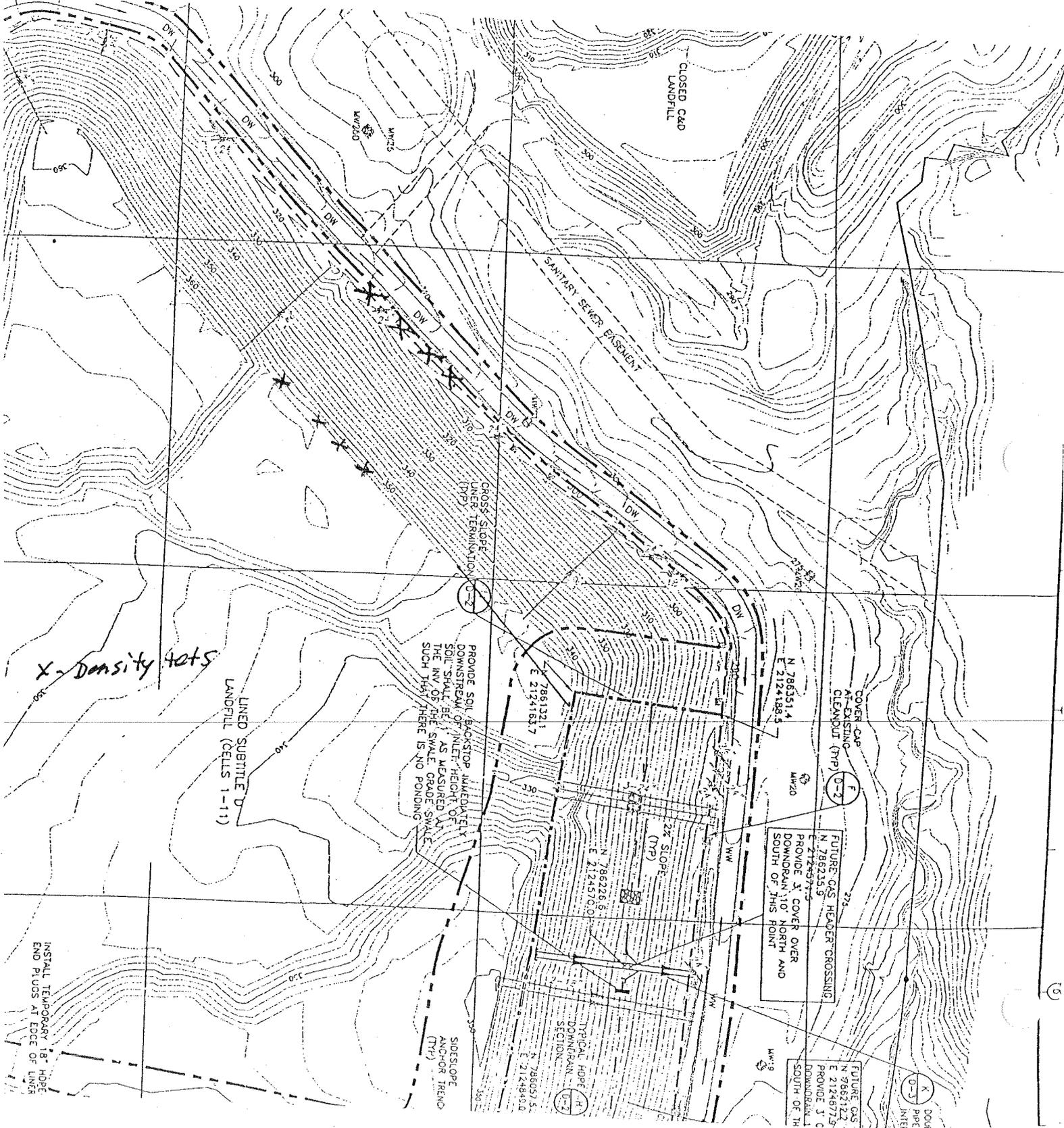


Field Density Test Summary

Client: North Wake		General Contractor: Thalle		Date: July 6, 2004		Page: 1 of 1						
Project Name: Phase I closure		Earthwork Contractor: Thalle		Technician: Bion Dalton								
Project Location: North Wake Landfill				DS =2402		Passing =						
Project Number: 6172-42378				MS =664		Passing =						
				Trolox Gauge No./Type		3440.no. 30129						
Test No.	Location	Elevation, Depth (ft) or Lift No.	Laboratory Test Results			Field Test Results			Compaction Achieved (%)	Compaction Required (%)	Status P / F	Comments Corrected Moisture
			Off-Site Borrow Source	Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (in)	Dry Density (pcf)	Wet Density (pcf)				
NW-320	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	103.4	120	95.5%	95%	P	16.1
NW-321	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	103.7	120.6	95.8%	95%	P	16.3
NW-322	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	104.3	121.1	96.4%	95%	P	16.1
NW-323	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	104.4	120.9	96.5%	95%	P	16.8
NW-324	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	104.5	120.8	96.6%	95%	P	15.6
NW-325	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	104.3	121	96.4%	95%	P	16
NW-326	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	104.8	121.3	96.9%	95%	P	15.7
NW-327	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	103.6	120.6	95.8%	95%	P	16.4
NW-328	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	104.0	120.4	96.1%	95%	P	15.8
NW-329	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	104.9	121	96.9%	95%	P	15.4
NW-330	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	103.3	120.8	95.5%	95%	P	16.9
NW-331	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	104.4	121.1	96.5%	95%	P	16

RPT# 104
7-6-4

Site Sketch



X-Density Mats

LINED SUBTILE D
LANDFILL (CELLS 1-11)

PROVIDE SOIL BACKSTOP IMMEDIATELY
DOWNSTREAM OF INLET. HEIGHT OF
SOIL SHALL BE 1' AS MEASURED AT
THE IN/OF THE SWALE GRADE SWALE
SUCH THAT THERE IS NO PONDING

INSTALL TEMPORARY 18" HOPE
END PLUGS AT EDGE OF LINER

SIDE SLOPE
ANCHOR TRENCH
(TYP)

COVER CAP
AT EXISTING
CLEANOUT (TYP) 0-2
N 786351.4
E 2124189.5

FUTURE GAS HEADER CROSSING
N 789235.9
E 2124577.5
PROVIDE 3" COVER OVER
DOWNDRAN 10' NORTH AND
SOUTH OF THIS POINT

FUTURE GAS
DOWNDRAN
N 786511.2
E 2124677.5
PROVIDE 3" C
DOWNDRAN 1'
SOUTH OF TH

TYPICAL HOPE
DOWNDRAN
SECTION
N 78651.5
E 2124849.4

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-07-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 94 Lo: 73 _____ Clear Partly _____ Cloudy 0.00 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

(Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location protective cover, top-soil,

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor screening protective cover material and also placing second lift in Phase II and part of III.

Item No. 8: Furnish and Install Vegetative Cover.

Contractor screening top soil.

Item No. 11: Furnish and Install 18-inch HDPE CPP Down drain.

Contractor commenced installation of second down drain located in Phase IV, other than the side shoots. All went well and according to specification (75%complete).

Attachments: Yes No Signed 

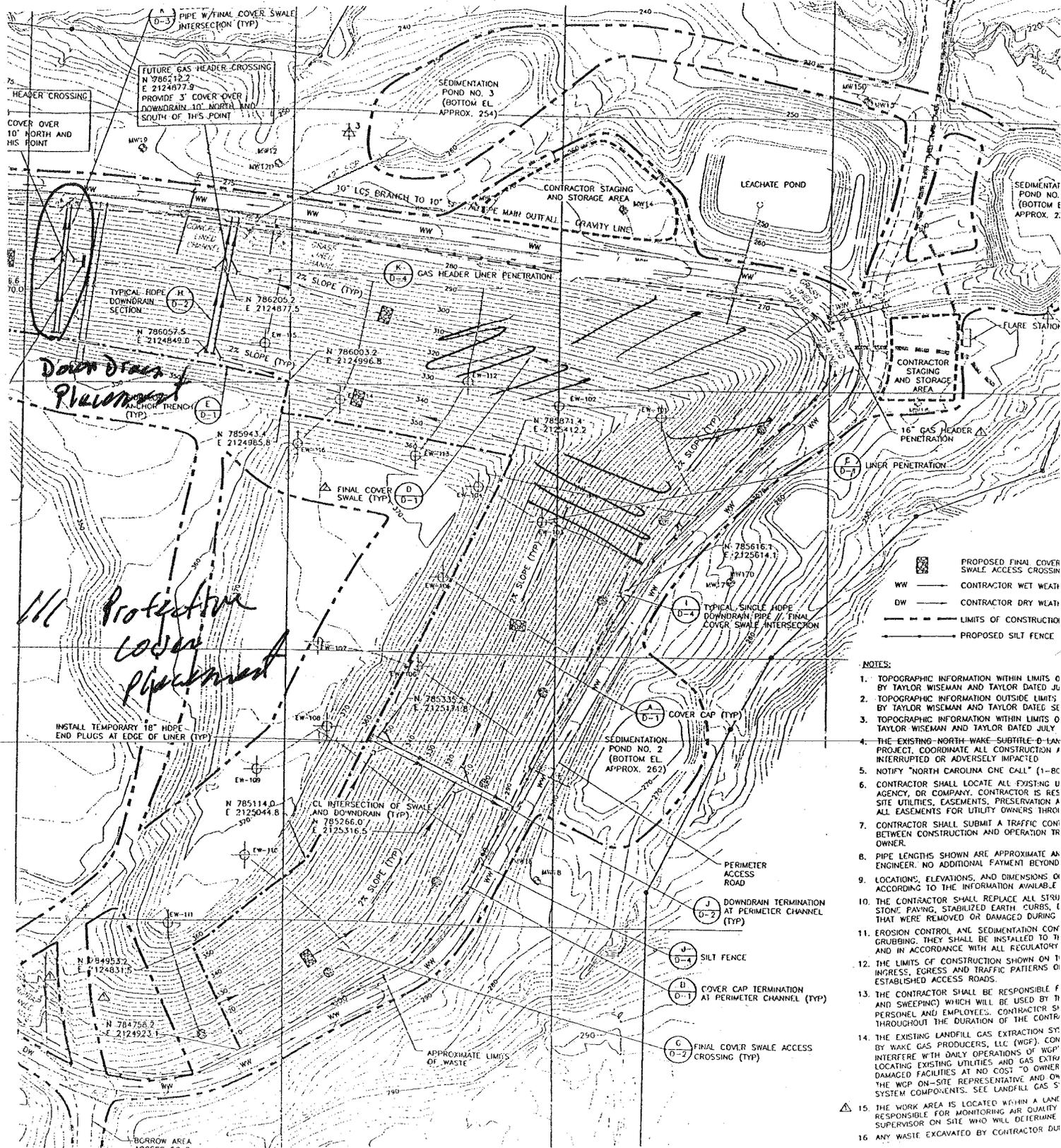
Description: _____

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

Rpt# 105
7-7-4

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- CONTRACTOR WET WEATH
- CONTRACTOR DRY WEATH
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

- NOTES:
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JULY 1988.
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JULY 1988.
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JULY 1988.
 4. THE EXISTING NORTH-WAKE SUBTITLE-D-LAN PROJECT, COORDINATE ALL CONSTRUCTION & INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800-4-A-SAFE) PRIOR TO ANY EXCAVATION.
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY, AGENCY, OR COMPANY. CONTRACTOR IS RES SITE UTILITIES, EASEMENTS, PRESERVATION & ALL EASEMENTS FOR UTILITY OWNERS THROUGHOUT THE DURATION OF THE PROJECT.
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN BETWEEN CONSTRUCTION AND OPERATION TO THE OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AN ENGINEER. NO ADDITIONAL PAYMENT BEYOND THIS CONTRACT SHALL BE REQUIRED.
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL UTILITIES SHALL BE AS SHOWN ON THE INFORMATION AVAILABLE TO THE CONTRACTOR.
 10. THE CONTRACTOR SHALL REPLACE ALL STREETS, DRIVEWAYS, STABILIZED EARTH CURBS, ETC. THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
 11. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO PREVENT EROSION AND SEDIMENTATION FROM ENTERING ADJACENT AREAS.
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS SKETCH SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS OF EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES WHICH WILL BE USED BY THE CONTRACTOR AND EMPLOYEES THROUGHOUT THE DURATION OF THE PROJECT.
 14. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM BY WAKE GAS PRODUCERS, LLC (WGP), SHALL NOT BE INTERFERED WITH DURING OPERATIONS OF WGP. LOCATING EXISTING UTILITIES AND GAS EXTRACTION FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND ON-SITE SUPERVISOR SHALL BE AVAILABLE TO THE CONTRACTOR.
 15. THE WORK AREA IS LOCATED WITHIN A LANE OF TRAFFIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AIR QUALITY THROUGHOUT THE DURATION OF THE PROJECT.
 16. ANY WASTE EXCAVATED BY CONTRACTOR DURING CONSTRUCTION SHALL BE PROPERLY HANDLED AND DISPOSED OF AT AN APPROVED LOCATION.



<p align="center"> CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p>	<p> Sheet No. : 1 of 1 Report #: 105 Date: 7-07-04 Weather: PC low 73 high 94 </p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	<p align="center">MATERIALS RECEIVED</p>
<p>WORK COMPLETED:</p>	<p align="center">none</p>
<p>Item No. 7: Excavate, Transport and Install Protective Soil Layer. Contractor screening protective cover material and placing in Phase II and III.</p>	<p align="center">COMMENT</p>
<p>Item No. 8: Furnish and Install Vegetative Cover. Contractor placing top-soil in Phases I and II.</p>	<p align="center">CORRESPONDING DATA SHEETS</p>
<p>Item No. 11: Furnish and Install 18-inch HDPE CPP Down drain. Contractor commenced installation of second down drain located in Phase IV, other than the side shoots. All went well and according to specification (75%complete).</p>	<p>Site sketch Density tests</p>
<p>RESULTS: All density tests were at least 95% of the max dry density of the material of proctor I was using. See attached</p>	<p>APPROVED BY: <i>R.E. Burrie</i></p>
<p>BY:</p>	<p align="center">CERTIFYING ENGINEER</p>
<p>REVIEWED BY:</p>	<p align="center">CQA INSPECTOR</p>
<p>PROJECT ENGINEER</p>	<p> </p>

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-08-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 94 Lo: 68 _____ Clear x Partly _____ Cloudy 0.00 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

(Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location top-soil, Gas Line Extension, anchor trenches

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 4: Extensions to Existing Landfill Gas Extraction System Components.

Contractor continuing gas line extension in Phase I and II.

Item No. 5: Furnish and Install 40 Mil Textured LLDPE Geomembrane.

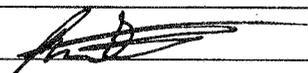
Contractor backfilling top and bottom anchor trenches in Phase V. Compaction testing completed.

Item No. 8: Furnish and Install Vegetative Cover.

Contractor screening top soil and mixing with leaves located on site. Contractor also placing top-soil in Phase II.

Item No. 10: Furnish and Install Final Cover Swale and Berms.

Contractor placing stone and fabric at toe of slope in Phase II.

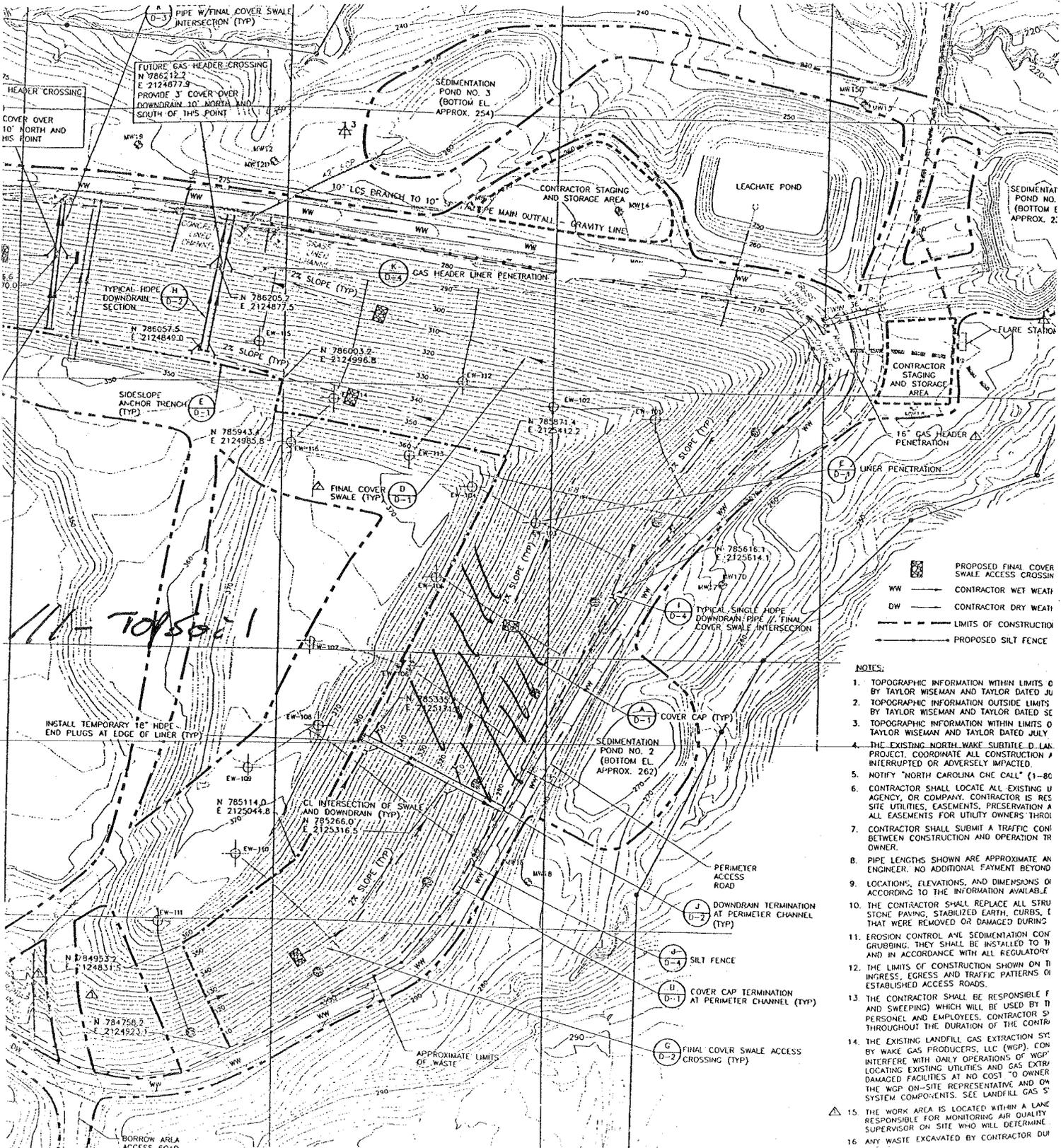
Attachments: Yes No Signed 

Description: _____
(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

RF# 106
7-8-4

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- CONTRACTOR WET WEATH
- CONTRACTOR DRY WEATH
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS 0 BY TAYLOR WISEMAN AND TAYLOR DATED JU
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED SE
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS 0 TAYLOR WISEMAN AND TAYLOR DATED JULY
 4. THE EXISTING NORTH-WAKE SUBTILE D-LAN PROJECT. COORDINATE ALL CONSTRUCTION / INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-80
 6. CONTRACTOR SHALL LOCATE ALL EXISTING U AGENCY, OR COMPANY. CONTRACTOR IS RES SITE UTILITIES, EASEMENTS, PRESERVATION A ALL EASEMENTS FOR UTILITY OWNERS THROU
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONI BETWEEN CONSTRUCTION AND OPERATION TR OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AN ENGINEER, NO ADDITIONAL PAYMENT BEYOND
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS AV ACCORDING TO THE INFORMATION AVAILABE
 10. THE CONTRACTOR SHALL REPLACE ALL STRU STONE PAVING, STABILIZED EARTH, CURBS, E THAT WERE REMOVED OR DAMAGED DURING
 11. EROSION CONTROL AND SEDIMENTATION CON GRUBBING. THEY SHALL BE INSTALLED TO TI AND IN ACCORDANCE WITH ALL REGULATORY
 12. THE LIMITS OF CONSTRUCTION SHOWN ON TI INGRESS, EGRESS AND TRAFFIC PATTERNS OF ESTABLISHED ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE F AND SWEEPING) WHICH WILL BE USED BY TI PERSONNEL AND EMPLOYEES. CONTRACTOR S/ THROUGHOUT THE DURATION OF THE CONTR
 14. THE EXISTING LANDFILL GAS EXTRACTION SYE BY WAKE GAS PRODUCERS, LLC (WGP). CON INTERFERE WITH DAILY OPERATIONS OF WGP/ LOCATING EXISTING UTILITIES AND GAS EXTR/ DAMAGED FACILITIES AT NO COST TO OWNER THE WGP ON-SITE REPRESENTATIVE AND ON SYSTEM COMPONENTS. SEE LANDFILL GAS S/
 15. THE WORK AREA IS LOCATED WITHIN A LANC RESPONSIBLE FOR MONITORING AIR QUALITY SUPERVISOR ON SITE WHO WILL DETERMINE
 16. ANY WASTE EXCAVATED BY CONTRACTOR DUI



<p align="center">CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>	<p>Sheet No.: 1 of 3 Report #: 106 Date: 7-08-04 Weather: PC low 68 high 94</p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p>EQUIPMENT: CAT D6M, CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	<p align="center">MATERIALS RECEIVED</p>
<p>WORK COMPLETED:</p>	<p align="center">none</p>
<p>Item No. 5: Furnish and Install 40 Mil Textured LLDPE Geomembrane. Contractor backfilling top and bottom anchor trenches in Phase V. Compaction testing completed.</p>	<p align="center">COMMENT</p>
<p>Item No. 8: Furnish and Install Vegetative Cover. Contractor placing top-soil in Phase II. Contractor mixing leaves in with top-soil.</p>	<p align="center">None</p>
<p>Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor placing stone and fabric at toe of slope in Phase II.</p>	<p align="center">CORRESPONDING DATA SHEETS</p>
<p>RESULTS: All density tests were at least 95% of the max dry density of the material of proctor I was using. See attached</p>	<p>Site sketch Density tests</p>
<p>BY: </p>	<p>APPROVED BY: </p>
<p align="center">CQA INSPECTOR</p>	<p align="center">CERTIFYING ENGINEER</p>
<p>REVIEWED BY:</p>	<p align="center">PROJECT ENGINEER</p>

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-09-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 95 Lo: 69 _____ Clear x Partly _____ Cloudy 0.00 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

(Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	6		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	5		Compactors	cat		563	
Truck Drivers	4		Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	19	*	Total	6	*		*

*Designates subcontractors

Activity and Location top-soil, Gas Line Extension, anchor trenches, top-soil

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 4: Extensions to Existing Landfill Gas Extraction System Components.

Contractor continuing gas line extension in Phase I and II.

Item No. 5: Furnish and Install 40 Mil Textured LLDPE Geomembrane.

Contractor backfilling top and bottom anchor trenches in Phase V. Compaction testing completed.

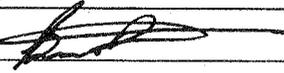
Item No. 8: Furnish and Install Vegetative Cover.

Contractor screening top soil and mixing with leaves located on site. Contractor also placing top-soil in Phase II.

Item No. 10: Furnish and Install Final Cover Swale and Berms.

Contractor placing stone and fabric at toe of slope in Phase II.

Attachments: Yes No

Signed 

Description:

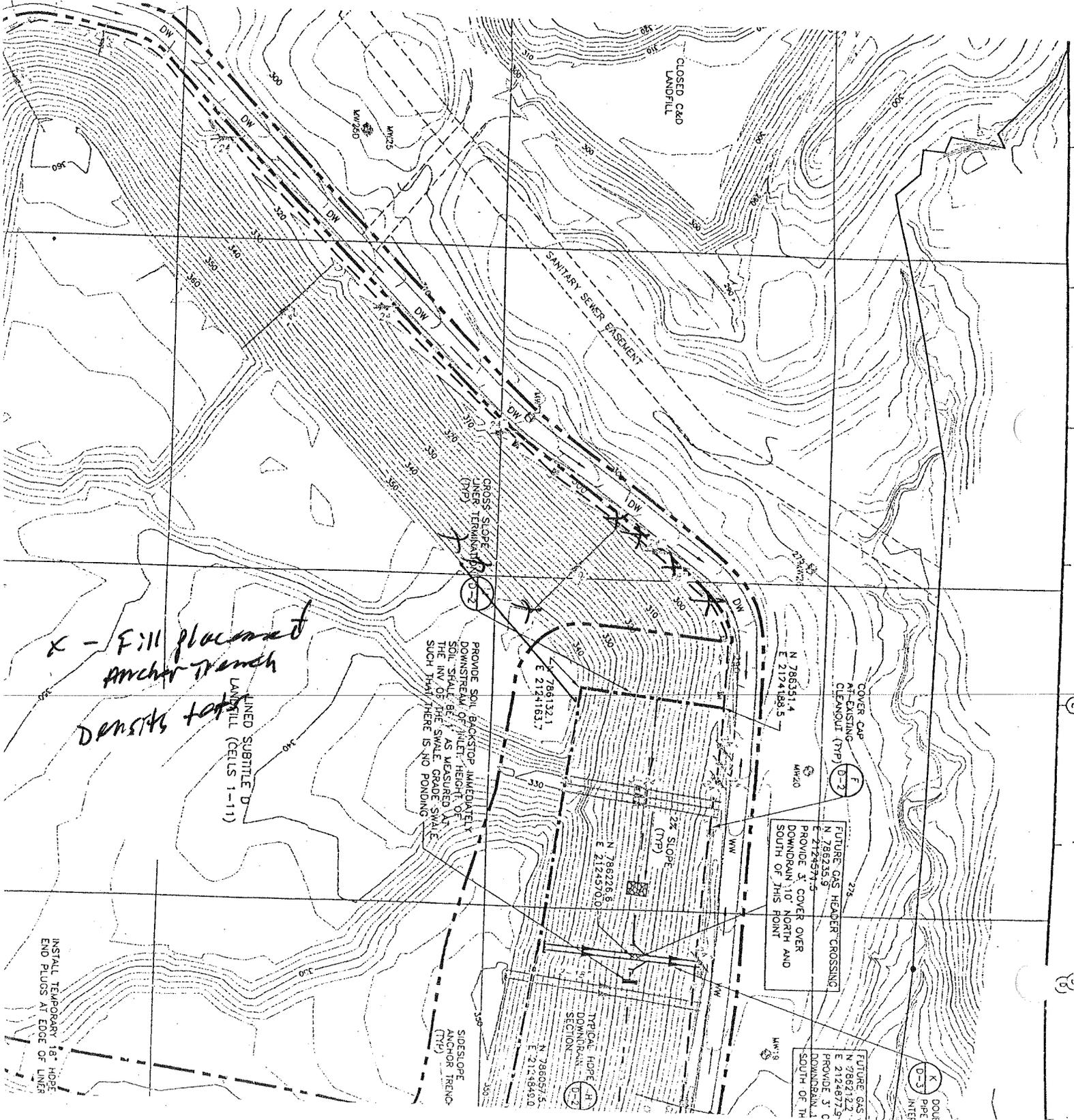
(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

Ref # 107

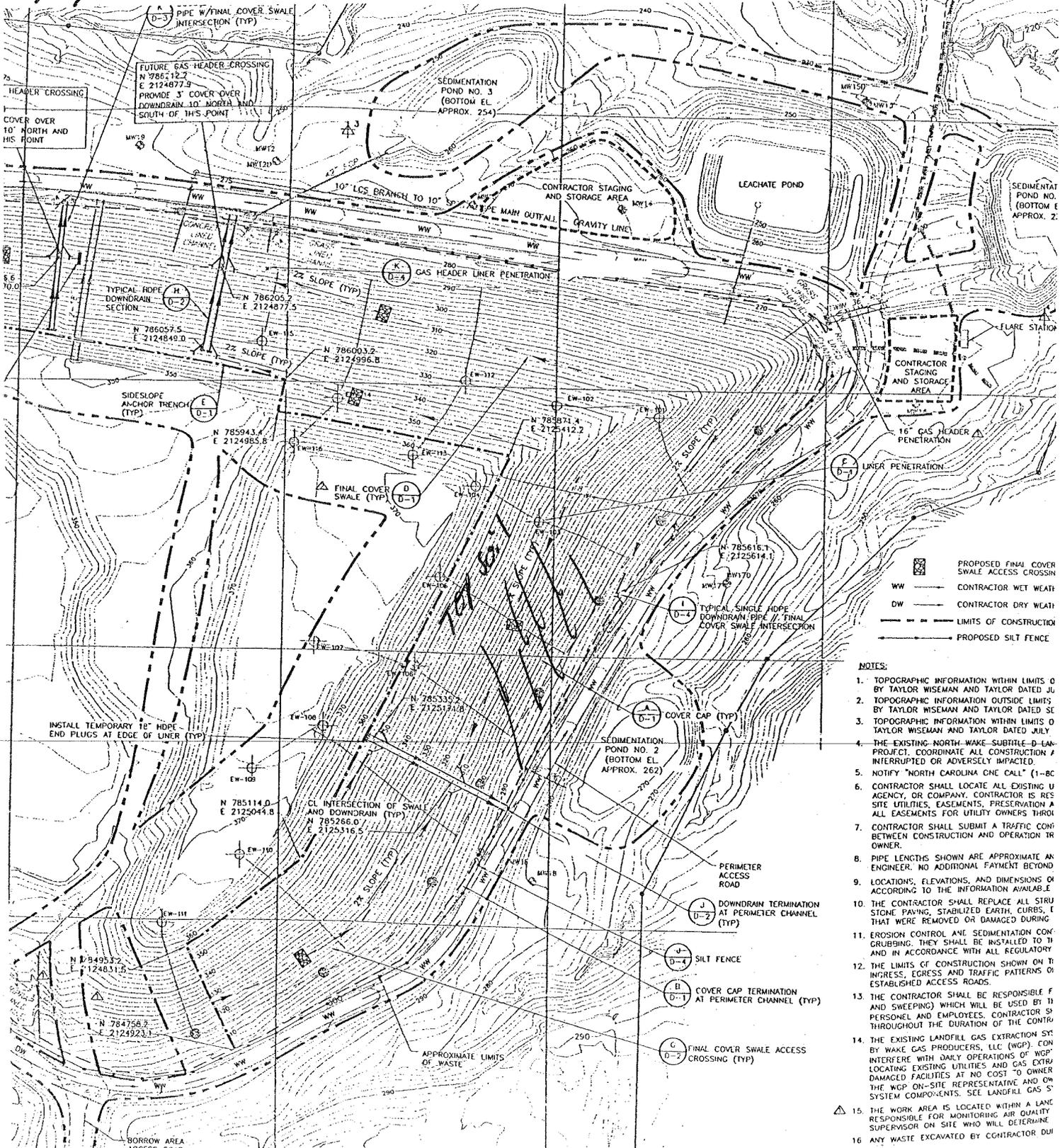
7-9-4

Site Sketch



R# 107
7-9-4

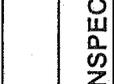
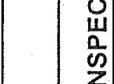
Site Sketch



PROPOSED FINAL COVER SWALE ACCESS CROSSING
 WW CONTRACTOR WET WEATH
 DW CONTRACTOR DRY WEATH
 LIMITS OF CONSTRUCTION
 PROPOSED SILT FENCE

- NOTES:
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JULY 2004.
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED SEPTEMBER 2004.
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY 2004.
 4. THE EXISTING NORTH-WAKE SUBTITLE-D LANDFILL PROJECT, COORDINATE ALL CONSTRUCTION TO BE INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800-4-A-SAFE) PRIOR TO ANY EXCAVATION OR UTILITY WORK.
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES, EASEMENTS, PRESERVATION AND ALL EASEMENTS FOR UTILITY OWNERS THROUGHOUT THE DURATION OF THE PROJECT.
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN BETWEEN CONSTRUCTION AND OPERATION TO THE OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AN ENGINEER. NO ADDITIONAL PAYMENT BEYOND THIS.
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF CONSTRUCTION TO BE ACCORDING TO THE INFORMATION AVAILABLE.
 10. THE CONTRACTOR SHALL REPLACE ALL STONE PAVING, STABILIZED EARTH, CURBS, ETC. THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
 11. EROSION CONTROL AND SEDIMENTATION CONTROLS SHALL BE INSTALLED TO THE MAXIMUM AND IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL DETERMINE THE ACTUAL LIMITS OF CONSTRUCTION THROUGHOUT THE DURATION OF THE PROJECT.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA AND SHALL BE RESPONSIBLE FOR THE SAFETY OF THE PERSONNEL AND EMPLOYEES. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES THROUGHOUT THE DURATION OF THE PROJECT.
 14. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM BY WAKE GAS PRODUCERS, LLC (WGP) CAN INTERFERE WITH DAILY OPERATIONS OF WGP. LOCATING EXISTING UTILITIES AND GAS EXTRACTION FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND ON-SITE SYSTEM COMPONENTS. SEE LANDFILL GAS SYSTEM DRAWING.
 15. THE WORK AREA IS LOCATED WITHIN A LANDFILL RESPONSIBLE FOR MONITORING AIR QUALITY THROUGHOUT THE DURATION OF THE PROJECT. DETERMINE THE ACTUAL LIMITS OF CONSTRUCTION THROUGHOUT THE DURATION OF THE PROJECT.
 16. ANY WASTE EXCAVATED BY CONTRACTOR DURING CONSTRUCTION SHALL BE PROPERLY HANDLED AND DISPOSED OF AT AN APPROVED WASTE TREATMENT AND DISPOSAL FACILITY.



<p align="center">CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>	<p>Sheet No. : 1 of 3 Report #: 107 Date: 7-09-04 Weather: PC low 69 high 95</p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p><u>EQUIPMENT:</u> CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	<p align="center">MATERIALS RECEIVED</p>
<p><u>WORK COMPLETED:</u></p>	<p align="center">none</p>
<p>Item No. 5: Furnish and Install 40 Mil Textured LLDPE Geomembrane. Contractor backfilling top and bottom anchor trenches in Phase V. Compaction testing completed.</p>	<p align="center">COMMENT</p>
<p>Item No. 8: Furnish and Install Vegetative Cover. Contractor placing top-soil in Phase II. Contractor mixing leaves in with top-soil.</p>	<p align="center">None</p>
<p>Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor placing stone and fabric at toe of slope in Phase II.</p>	<p align="center">CORRESPONDING DATA SHEETS</p>
<p>RESULTS: All density tests were at least 95% of the max dry density of the material of proctor I was using. See attached.</p>	<p>Site sketch Density tests</p>
<p>BY: </p>	<p>APPROVED BY: </p>
<p align="center">CQA INSPECTOR</p>	<p align="center">CERTIFYING ENGINEER</p>
<p>REVIEWED BY:</p>	
<p align="center">PROJECT ENGINEER</p>	



Field Density Test Summary

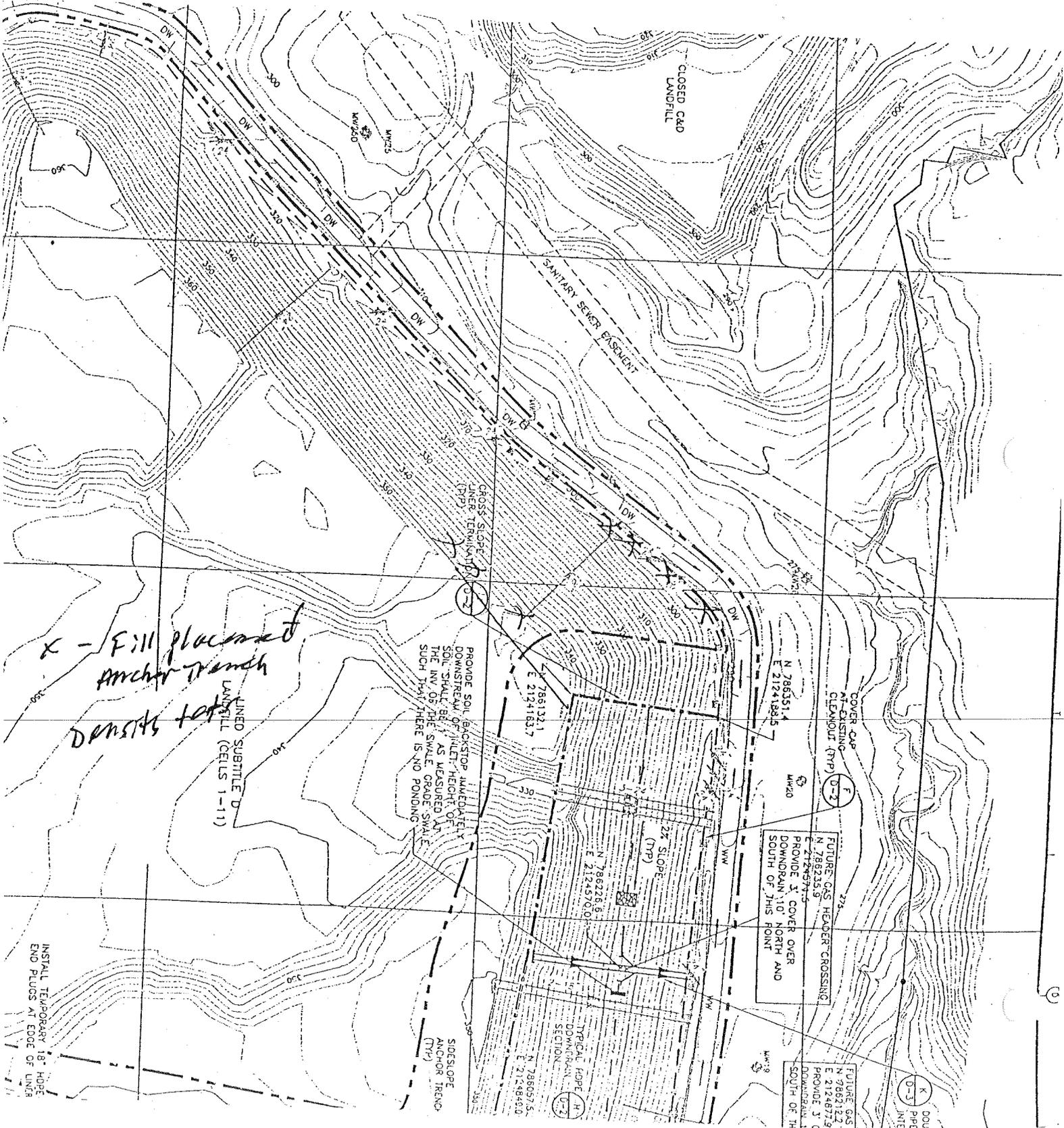
Client: North Wake	Date: July 9, 2004	Page: 1 of 1
Project Name: Phase I closure	Technician: Bion Dalton	
Project Location: North Wake Landfill	DS = 2402	
Project Number: 6172-42378	MS = 664	
	Troloxer Gauge No./Type: 3440.no.30129	
	Passing =	
	Passing =	

Test No.	Location	Elevation, Depth (ft) or Lift No.	Laboratory Test Results			Field Test Results			Compaction Achieved (%)	Compaction Required (%)	Status P / F	Comments Corrected Moisture
			Off-Site Borrow Source	Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (in)	Dry Density (pcf)	Wet Density (pcf)				
NW-344	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	103.3	120	19	95.4%	P	16.2
NW-345	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	103.3	120.2	20	95.4%	P	16.4
NW-346	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	103.5	119.8	20.1	95.6%	P	15.8
NW-347	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	103.8	120.1	20.6	95.9%	P	15.7
NW-348	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	103.1	119.5	21	95.3%	P	15.9
NW-349	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	103.2	119.8	20.5	95.4%	P	16.1
NW-350	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	102.7	119.6	20.4	95.0%	P	16.4
NW-351	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	103.5	120.2	20.6	95.7%	P	16.1
NW-352	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	103.7	120.2	19.4	95.9%	P	15.9
NW-353	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	104.0	120.4	19.8	96.1%	P	15.8
NW-354	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	103.6	120	20.1	95.8%	P	15.8
NW-355	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	103.4	119.8	20.4	95.5%	P	15.9

Att # 107

7-9-4

Site Sketch



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-10-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 96 Lo: 72 _____ Clear Partly _____ Cloudy 0.19 Precipitation
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00
 (Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	2		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	3		Compactors	cat		563	
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	9	*	Total	6	*		*

*Designates subcontractors

Activity and Location top-soil, stone and berms

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

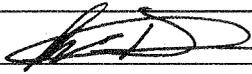
Item No. 8: Furnish and Install Vegetative Cover.

Contractor screening top soil and mixing with leaves located on site.

Item No. 10: Furnish and Install Final Cover Swale and Berms.

Contractor placing stone and fabric at toe of slope in Phase III all the way to down-drain. Contractor also shaping up berms in Phase I.

Attachments: Yes No

Signed 

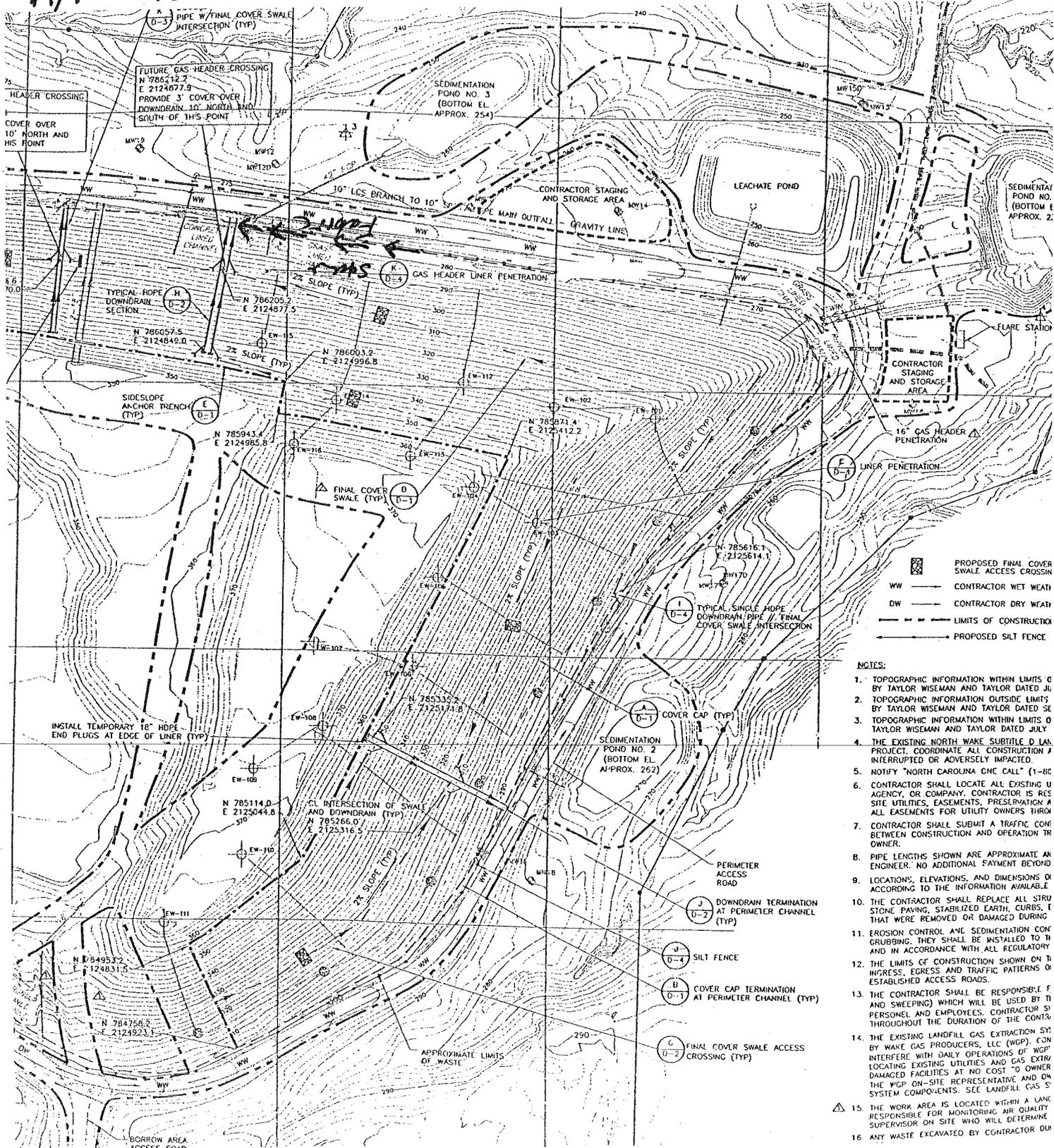
Description:

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

7-10-4
RPT # 108

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- CONTRACTOR WET WEATH
- CONTRACTOR DRY WEATH
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

- NOTES:
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JULY 2004.
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED 2004.
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF TAYLOR WISEMAN AND TAYLOR DATED JULY 2004.
 4. THE EXISTING NORTH WAKE SUBTITLE D LAR PROJECT, COORDINATE ALL CONSTRUCTION & INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800-4-A-SAFE) PRIOR TO ANY EXCAVATION.
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY, AGENCY, OR COMPANY. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND EASEMENTS FOR UTILITY OWNERS THROUGH THE WPC ON-SITE REPRESENTATIVE AND WPC OWNER.
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN BETWEEN CONSTRUCTION AND OPERATION TO THE WPC OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AN ENGINEER. NO ADDITIONAL PAYMENT BEYOND CONTRACT SHALL BE FOR INFORMATION AVAILABLE.
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL STRUCTURES SHALL BE RECORDED AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.
 10. THE CONTRACTOR SHALL REPLACE ALL STRUCTURES, STORM PAVING, STABILIZED EARTH, CURBS, ETC. THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
 11. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO PREVENT SOIL EROSION AND SEDIMENTATION OF ESTABLISHED ACCESS ROADS.
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS SKETCH, EGRESS AND TRAFFIC PATTERNS OF ESTABLISHED ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP AND SWEEPING WHICH WILL BE USED BY THE PERSONNEL AND EMPLOYEES. CONTRACTOR SHALL MAINTAIN ACCESS TO THE DURATION OF THE PROJECT.
 14. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM BY WAKE GAS PRODUCERS, LLC (WGP), CONTRACTOR SHALL INTERFERE WITH DAILY OPERATIONS OF WGP. LOCATING EXISTING UTILITIES AND GAS EXTRACTION DAMAGED FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND WPC SYSTEM COMPONENTS. SEE LANDFILL GAS SYSTEM COMPONENTS.
 15. THE WORK AREA IS LOCATED WITHIN A LANE RESPONSIBLE FOR MONITORING AIR QUALITY SUPERVISOR ON SITE WHO WILL DETERMINE ANY WASTE EXCAVATED BY CONTRACTOR DURING CONSTRUCTION.



<p>Sheet No. : 1 of 1 Report #: 108 Date: 7-10-04 Weather: PC low 72 high 96</p>	<p>CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>
<p>VISITORS</p>	<p>WORK AND EQUIPMENT</p>
<p>MATERIALS RECEIVED</p>	<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>
<p>none</p>	<p>WORK COMPLETED:</p>
<p>COMMENT</p>	<p>Item No. 8: Furnish and Install Vegetative Cover. Contractor mixing leaves in with top-soil.</p>
<p>None</p>	<p>Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor placing stone and fabric at toe of slope in Phase II.</p>
<p>CORRESPONDING DATA SHEETS</p>	<p>RESULTS: None</p>
<p>Site sketch.</p>	<p>BY:</p>
<p>APPROVED BY: <i>R.E. Curran</i></p>	<p>CQA INSPECTOR</p>
<p>CERTIFYING ENGINEER</p>	<p>REVIEWED BY:</p>
<p></p>	<p>PROJECT ENGINEER</p>

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-11-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi _____ Lo: _____ Clear _____ Partly _____ Cloudy _____ Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: _____ Reg. _____ OT Shift: _____ to _____

(Contractor) Hours Worked: _____ Reg. _____ OT Shift: _____ to _____

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent			Loader Backhoes				
Engineer			F.E. Loaders				
Foreman			Dozers				
Asst. Foreman			Grader				
Equip. Operators			Dump Trucks				
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers			Compactors				
Truck Drivers			Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors			Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total		*	Total		*		*

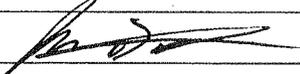
*Designates subcontractors

Activity and Location: _____

Defective work noted today to be corrected later: _____

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Not work performed today, not a scheduled work day.

Attachments: Yes No Signed 

Description: _____
(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative



CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT		Sheet No.: 1 of 1 Date: 07-11-04 Weather: PC	Report #: 109 low 70 high 92
WORK AND EQUIPMENT		VISITORS	
EQUIPMENT:		None	
WORK COMPLETED:		MATERIALS RECEIVED	
No work completed, not a scheduled work day.		none	
RESULTS:		COMMENT	
No density testing		None	
		CORRESPONDING DATA SHEETS	
BY:		APPROVED BY: <i>R.E. Dunne</i>	
	CQA INSPECTOR	CERTIFYING ENGINEER	
REVIEWED BY:			
	PROJECT ENGINEER		

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-12-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 91 Lo: 70 _____ Clear x Partly _____ Cloudy .78 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

(Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	6		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	5		Compactors	cat		563	
Truck Drivers	4		Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	19	*	Total	8	*		*

*Designates subcontractors

Activity and Location: top-soil, gas extention, clean up, swales and berms

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 4: Extensions to Existing Landfill Gas Extraction System Components.

Contractor continuing gas line extension, two vertical wells and one leachate collection header.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor stockpiling screened material and also placing second lift in Phase II.

Item No. 8: Furnish and Install Vegetative Cover.

Contractor screening top soil and mixing with leaves(27 loads) located on site.

Item No. 10: Furnish and Install Final Cover Swale and Berms.

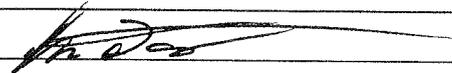
Contractor cleaning of middle flap in Phase I in preparation of stone and fabric placement.

Item No. 17: Miscellaneous Work and Clean Up.

Contractor cleaning mud off concrete road caused from ditch over running (Northeast corner) the over run of silt from ditch could have possible run in to leachate pond but could not tell for sure also it was stated by the County that the silt ran over in to creek located north of ditch at bottom of hill. I could not verify that it ran in to stream, but it was a possibility. Concrete ditch also showed more damage, the small surface cracks have now turned to one inch cracks and some more ditch has heaved up. Contractor is aware and is prepared to take what ever actions nessacarry to correct the problem. It appears that the crates were on over the weekend and the were plugged with trash and silt. We discussed these issues at out Bi-weekly meeting and contractor will be taking better precausionary measures proactively to correct any further damage. See Meeting min. nine loads of mud and silt were removed from road.

Attachments: Yes No

Signed



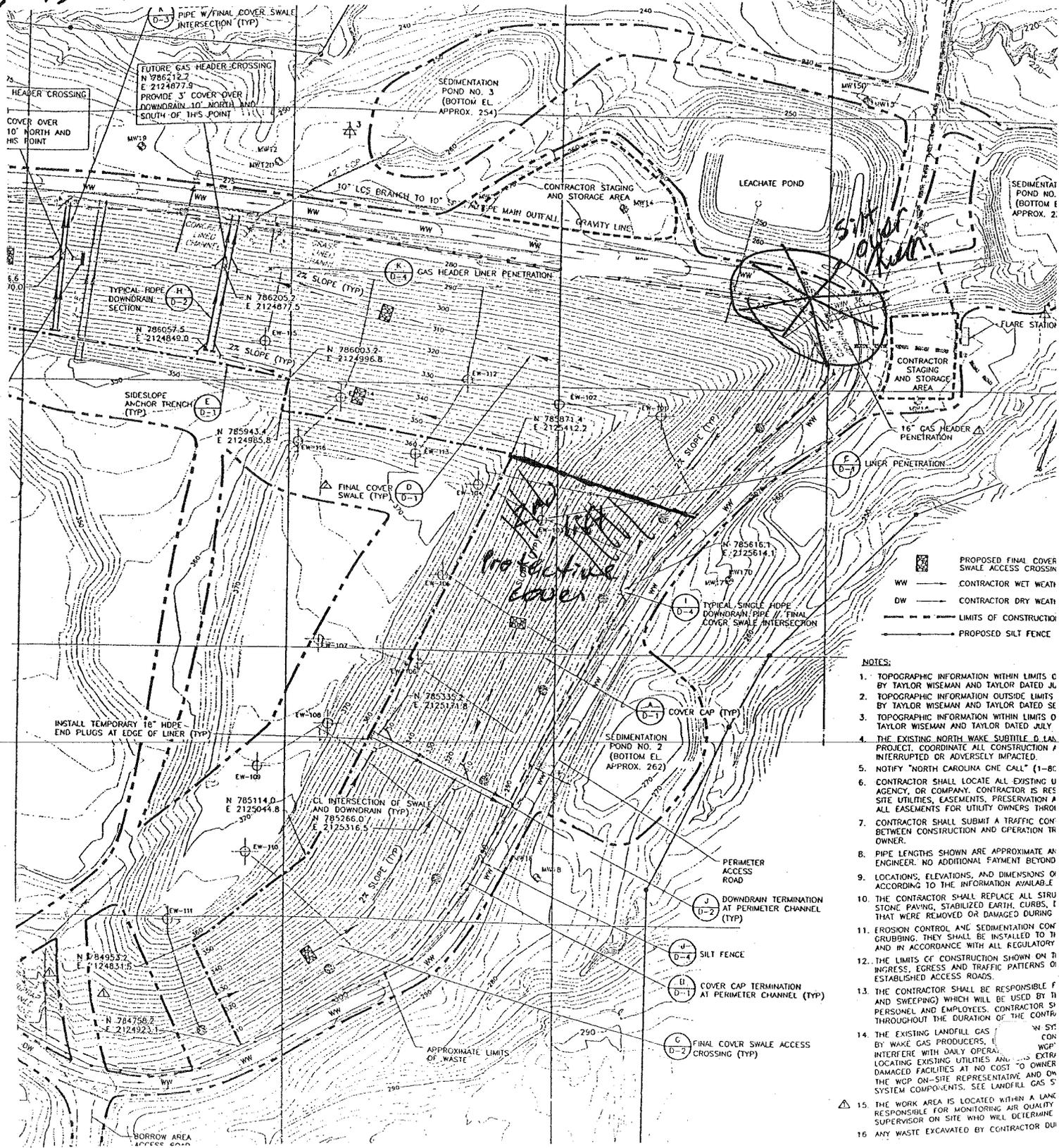
Description:

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

Rft # 110
7-12-4

Site Sketch



- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS C BY TAYLOR WISEMAN AND TAYLOR DATED JULY 1988.
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED SEPTEMBER 1988.
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS D BY TAYLOR WISEMAN AND TAYLOR DATED JULY 1988.
 4. THE EXISTING NORTH WAKE SUBTILE D LIAISON PROJECT. COORDINATE ALL CONSTRUCTION TO BE INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800-452-4343).
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY, AGENCY, OR COMPANY. CONTRACTOR IS RESPONSIBLE FOR UTILITY, EASEMENTS, PRESERVATION AND ALL EASEMENTS FOR UTILITY OWNERS THROUGHOUT THE DURATION OF THE PROJECT.
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN BETWEEN CONSTRUCTION AND OPERATION TO THE OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AN ENGINEER. NO ADDITIONAL PAYMENT BEYOND CONTRACT SHALL BE REQUIRED.
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF CONSTRUCTION TO BE ACCORDING TO THE INFORMATION AVAILABLE ON THIS DRAWING.
 10. THE CONTRACTOR SHALL REPLACE ALL STRIP STONE PAVING, STABILIZED EARTH, CURBS, ETC. THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
 11. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO PREVENT SOIL EROSION AND SEDIMENTATION AND IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING. EGRESS AND TRAFFIC PATTERNS OF ESTABLISHED ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL PERSONNEL AND EMPLOYEES. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES THROUGHOUT THE DURATION OF THE PROJECT.
 14. THE EXISTING LANDFILL GAS SYSTEM SHALL NOT BE INTERFERED WITH DAILY OPERATIONS. CONTRACTOR SHALL LOCATE EXISTING UTILITIES AND EASEMENTS AND DAMAGED FACILITIES AT NO COST TO OWNER. THE WORK SHALL BE REPRESENTATIVE AND ON THE SYSTEM COMPONENTS. SEE LANDFILL GAS SYSTEM DRAWING.
 15. THE WORK AREA IS LOCATED WITHIN A LANDFILL. CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AIR QUALITY AND SOIL QUALITY. CONTRACTOR SHALL MAINTAIN A SUPERVISOR ON SITE WHO WILL DETERMINE WHEN TO STOP WORK.
 16. ANY WASTE EXCAVATED BY CONTRACTOR SHALL BE REMOVED FROM THE SITE.



<p align="center"> CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT </p>	<p> Sheet No. : 1 of 1 Report #: 110 Date: 7-12-04 Weather: PC/78" low 70 high 91 </p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	<p align="center">MATERIALS RECEIVED</p>
<p>WORK COMPLETED:</p>	<p>none</p>
<p>Item No. 7: Excavate, Transport and Install Protective Soil Layer. Contractor stockpiling screened material and also placing second lift in Phase II.</p>	<p align="center">COMMENT</p>
<p>Item No. 8: Furnish and Install Vegetative Cover. Contractor screening top soil and mixing with leaves (27 loads) located on site.</p>	<p>None</p>
<p>Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor cleaning of middle flap in Phase I in preparation of stone and fabric placement.</p>	<p align="center">CORRESPONDING DATA SHEETS</p>
<p>Item No. 17: Miscellaneous Work and Clean Up. Contractor cleaning mud off concrete road caused from ditch over running (Northeast corner) the over run of silt from ditch could have possible run in to leachate pond but could not tell for sure also it was stated by the County that the silt ran over in to creek located north of ditch at bottom of hill. I prepared to take what ever actions ness carry to correct the proactively to correct any further damage. See Meeting min. nine loads of mud and silt were removed from road.</p>	<p>Site sketch</p>
<p>RESULTS: none</p>	
<p>BY:</p>	<p align="center">APPROVED BY: <i>R.E. Durkin</i></p>
<p align="center">CQA INSPECTOR</p>	<p align="center">CERTIFYING ENGINEER</p>
<p>REVIEWED BY:</p>	
<p align="center">PROJECT ENGINEER</p>	

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-13-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 90 Lo: 72 _____ Clear x Partly _____ Cloudy 0.01 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

(Contractor) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6:00

General Contractor's Work Force			and Subcontractor's Work Force				
Labor Classification			Equipment Classifications				
	I	II*		Type	Type*	Size	Size*
Project Manager			Backhoes	cat			
Superintendent	1		Loader Backhoes				
Engineer			F.E. Loaders	cat			
Foreman	1		Dozers	cat		D7/D8	
Asst. Foreman			Grader				
Equip. Operators	6		Dump Trucks	cat	volvo		
Masons			Pick-up Trucks				
Pipe layers			Cars				
Laborers	5		Compactors	cat		563	
Truck Drivers	4		Pumps				
Carpenters			Water Truck				
Flag people			Well Point Systems				
Surveyors	2		Cranes				
Painters			Welder				
Plumbers			Compressors				
Pavers							
Electricians							
Total	19	*	Total	8	*		*

*Designates subcontractors

Activity and Location: top-soil, gas extension, clean up, swales and berms

Defective work noted today to be corrected later: None

Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 4: Extensions to Existing Landfill Gas Extraction System Components.

Contractor continuing gas line extension, two leachate collection headers.

Item No. 5: Furnish and Install 40 Mil Textured LLDPE Geomembrane.

Contractor backfilling top and bottom anchor trenches in Phase IV and V. Compaction testing completed.

Item No. 7: Excavate, Transport and Install Protective Soil Layer.

Contractor stockpiling screened material and also placing second lift in Phase II.

Item No. 8: Furnish and Install Vegetative Cover.

Contractor screening top soil and mixing with leaves located on site.

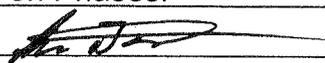
Item No. 10: Furnish and Install Final Cover Swale and Berms.

Contractor cleaning of middle flap in Phase I and placing stone and fabric.

Item No. 17: Miscellaneous Work and Clean Up.

Contractor placed silt fence around Northeast corner of concrete road on the North side to stop any silt in a rain event from getting into leachate pond and or stream. Contractor also placed barriers around grates that removed as a safety precaution. Contractor placed a temporary down-drain in Phase III to help with the erosion problem. The rain from last night and today hindered the contractors operations, they were not able to place fill in and or on Phases.

Attachments: Yes No

Signed 

Description:

(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative