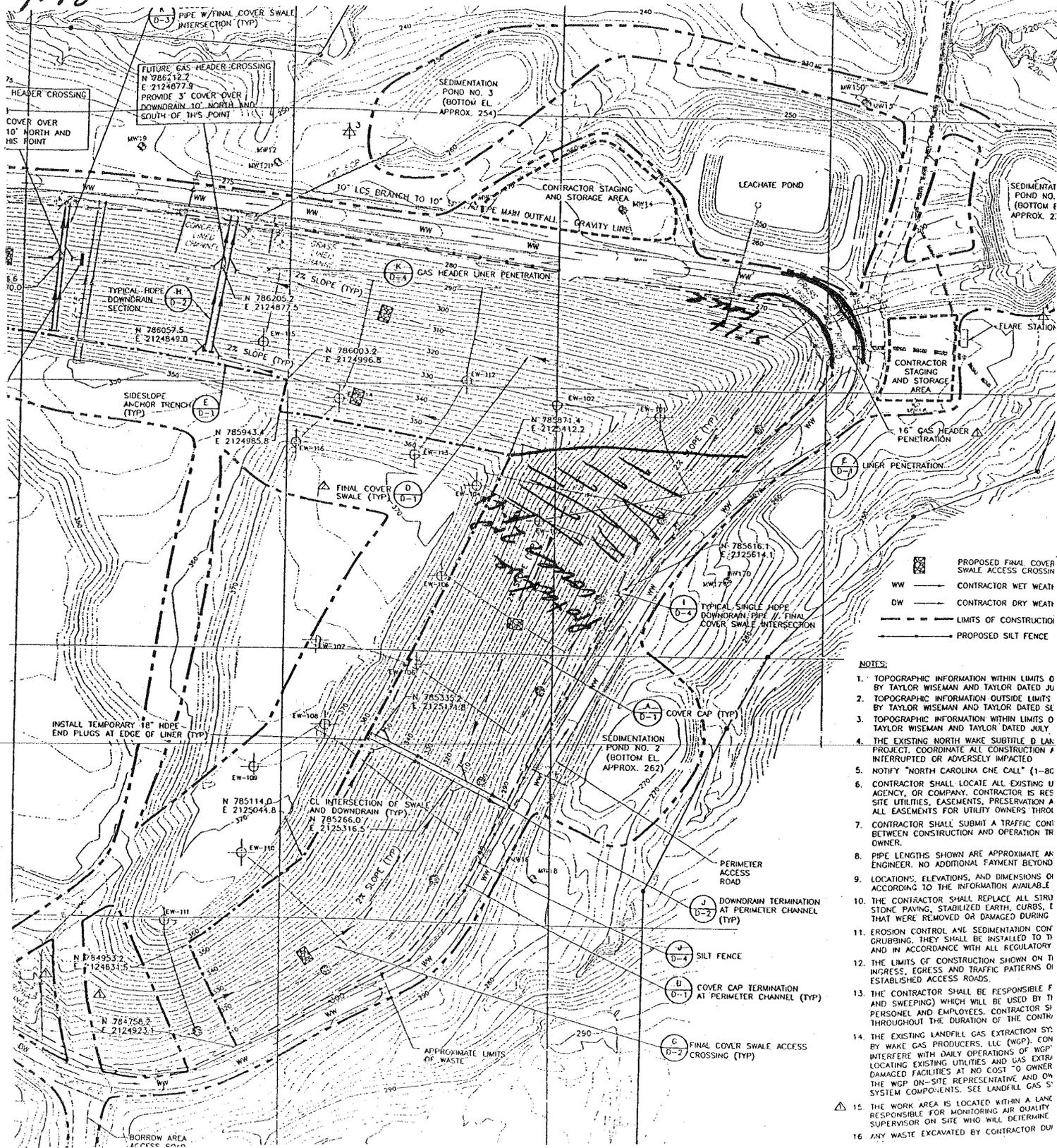


Site Sketch

RPT# 101
7-13-4



- 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 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 LANDFILL PROJECT, COORDINATE ALL CONSTRUCTION TO AVOID 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 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 ACCORDING TO THE INFORMATION AVAILABLE.
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES TO BE PRESERVED SHALL BE OBTAINED FROM THE INFORMATION AVAILABLE.
 10. THE CONTRACTOR SHALL REPLACE ALL STRIP CURBS, 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 IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS SKETCH ARE APPROXIMATE AND TRAFFIC PATTERNS OF EXISTING 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 EXTRACTION SYSTEM SHALL BE PRESERVED AND OPERATED BY THE GAS PRODUCERS, LLC (GWP). CONTRACTOR SHALL NOT INTERFERE WITH DAILY OPERATIONS OF GWP. CONTRACTOR SHALL LOCATE EXISTING UTILITIES AND GAS EXTRACTION FACILITIES AT NO COST TO OWNER. THE GWP ON-SITE REPRESENTATIVE AND ON-SITE SUPERVISOR SHALL BE CONTACTED FOR ALL 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 THE APPROPRIATE MONITORING PROCEDURES.
 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 3 Report #: 111 Date: 7-13-04 Weather: PC low 72 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: 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.</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 located on site.</p>	<p align="center">CORRESPONDING DATA SHEETS</p>
<p>Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor cleaning of middle flap in Phase I and II and placing stone and fabric.</p>	<p>Site sketch Density tests</p>
<p>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.</p>	
<p>RESULTS: All density tests were at least 95% of the max dry density of the material of proctor I was using.</p>	
<p>BY: </p>	<p align="center">APPROVED BY: R.E. Brannon</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 13, 2004 Page: 1 of 1
 Project Name: Phase I closure Technician: Brian Dalton
 Project Location: North Wake Landfill
 Project Number: 6172-42378
 DS # 2402 Passing =
 MS # 664 Passing =
 Troxler 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-355	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	104.4	121	96.5%	95%	P	15.9
NW-357	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	104.2	120.8	96.3%	95%	P	15.9
NW-358	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	103.8	120.1	95.9%	95%	P	15.7
NW-359	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	104.0	120.6	96.1%	95%	P	16
NW-360	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	103.6	120.4	95.8%	95%	P	16.2
NW-361	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	103.3	119.8	95.4%	95%	P	16
NW-362	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	103.8	120.2	95.9%	95%	P	15.8
NW-363	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	103.4	119.8	95.5%	95%	P	15.9
NW-364	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	103.2	119.9	95.4%	95%	P	16.2
NW-365	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	103.5	120.1	95.7%	95%	P	16
NW-366	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	103.6	120	95.8%	95%	P	15.8
NW-367	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	103.4	119.8	95.5%	95%	P	15.9

RPT# 111

7-13-4

Site Sketch



X- Fall Placement Density test

LINEA SUBTILE D
LINES (CELLS 1-11)

PROVIDE SOU. BACKSTOP IMMEDIATE
DOWNSTREAM OF INLET. HEIGHT OF
SOUL SHALL BE 1' AS MEASURED FROM
THE INV. OF THE SWALE GRADE SHALL
SUCH THAT THERE IS NO PONDING

INSTALL TEMPORARY 18" HOPE
END PLUGS AT EDGE OF LINEA

COVER GAP
AT EXISTING
CLEANOUT (TYP) (D-2)

FUTURE GAS HEADER CROSSING
N 786235.9
E 2124577.5
PROVIDE 3' COVER OVER
DOWNDRAN 10' NORTH AND
SOUTH OF THIS POINT

FUTURE GAS
N 786212.2
E 2124877.5
PROVIDE 3' C
DOWNDRAN 1
SOUTH OF TH

DOOR
(D-3)
PIE
INLET

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-14-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 94 Lo: 70 _____ Clear x Partly _____ Cloudy 0.1 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 laterals.

Item No. 5: Furnish and Install 40 Mil Textured LLDPE Geomembrane.

Contractor backfilling top and bottom anchor trenches in Phase IV and V and completed. Compaction testing completed.

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

Contractor stockpiling screened material and also placing second lift in Phases I and II.

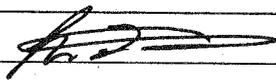
Item No. 8: Furnish and Install Vegetative Cover.

Contractor screening top soil and mixing with leaves located on site and placed in Phases I and II.

Item No. 10: Furnish and Install Final Cover Swale and Berms.

Contractor cleaning of middle flap in Phase I and placing stone and fabric (about 30ft).

Attachments: Yes No

Signed 

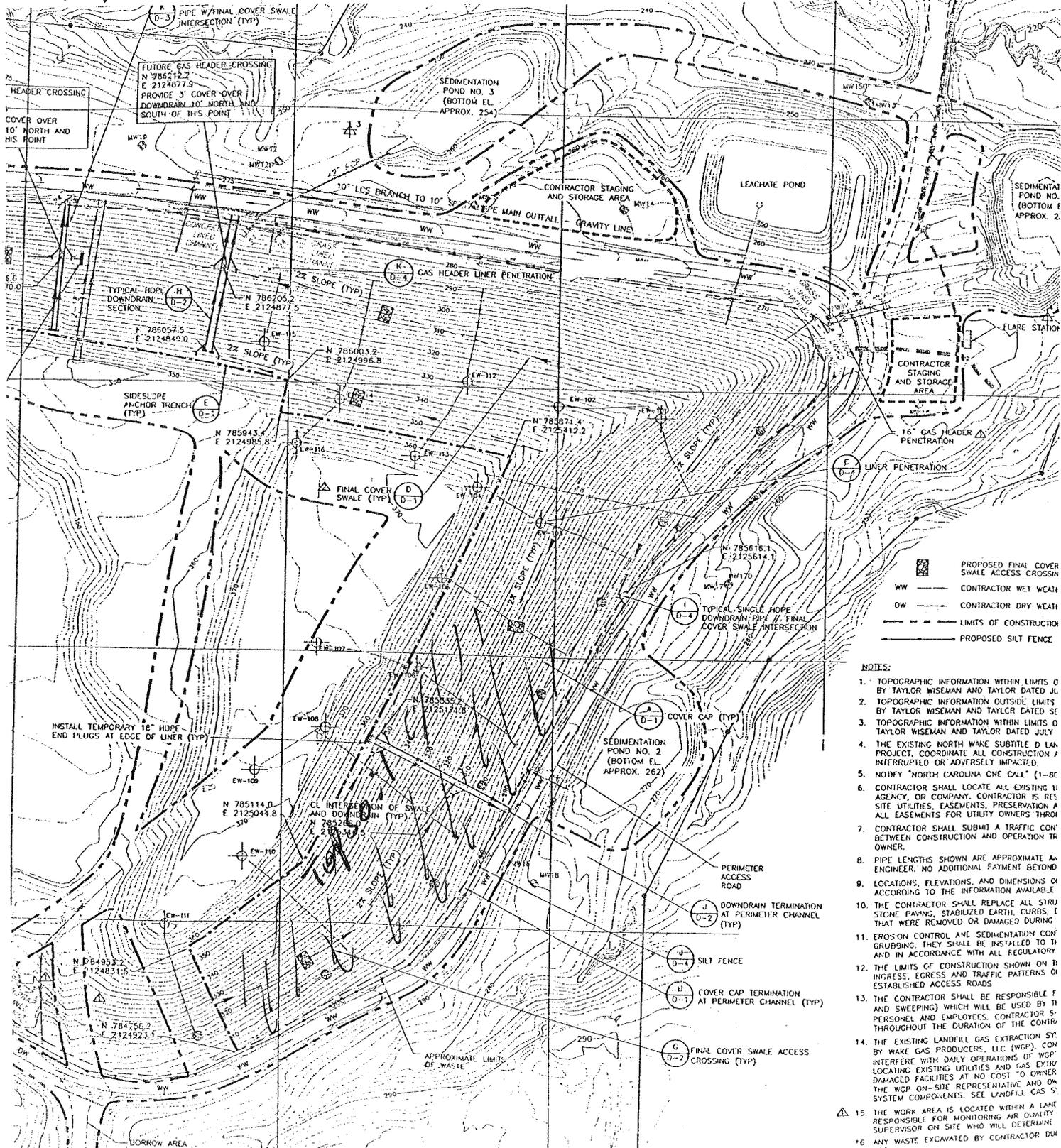
Description: _____

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

This report to be completed daily by each Project Representative

RPT# 112
7-14-4

Site Sketch

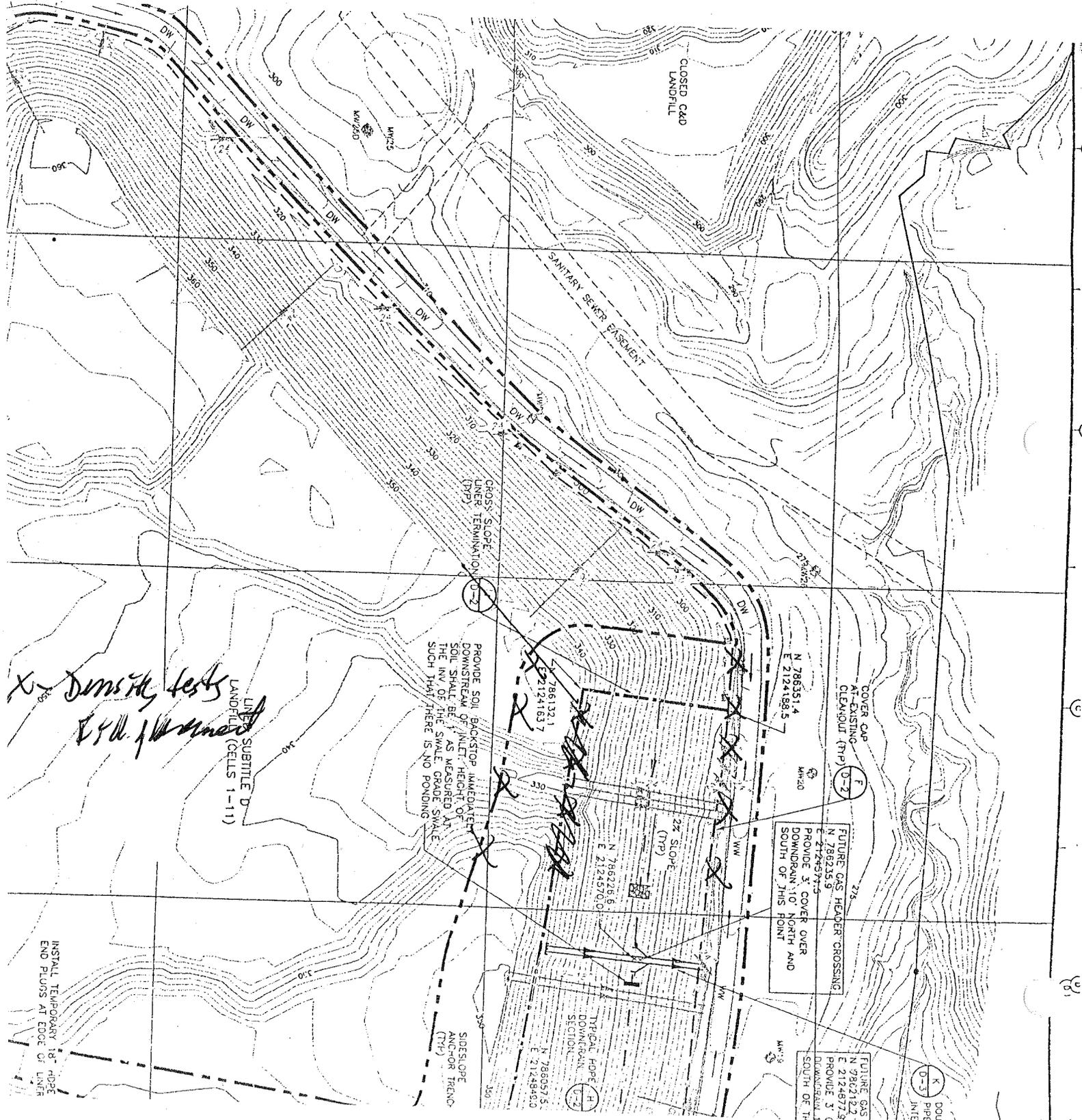


- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- CONTRACTOR WET WEATH
- CONTRACTOR DRY WEATH
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS OF BY TAYLOR WISEMAN AND TAYLOR DATED JULY
 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 LAND PROJECT. COORDINATE ALL CONSTRUCTION NOT INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800-4-A-SAFE) BEFORE 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 ENGINEER. NO ADDITIONAL PAYMENT BEYOND CONTRACT SHALL BE REQUIRED.
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF UTILITIES TO BE SHOWN ON THE INFORMATION AVAILABLE.
 10. THE CONTRACTOR SHALL REPLACE ALL STURDIOUS 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 IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS SKETCH ARE FOR INFORMATION ONLY AND DO NOT REPRESENT THE LIMITS OF CONSTRUCTION.
 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 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 SHALL BE RESPONSIBLE FOR MONITORING AIR QUALITY AND DETERMINING THE NECESSITY FOR ANY WASTE EXCAVATED BY CONTRACTOR DURING CONSTRUCTION.

RPT# 112
7-14-4

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> Sheet No. : 1 of 3 Report #: 112 Date: 7-14-04 Weather: PC low 70 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 IV and V and completed. Compaction testing completed.</p>	<p align="center">COMMENT</p>
<p>Item No. 7: Excavate, Transport and Install Protective Soil Layer. Contractor stockpiling screened material and also placing second lift in Phase I and II.</p>	<p align="center">None</p>
<p>Item No. 8: Furnish and Install Vegetative Cover. Contractor screening top soil and mixing with leaves located on site and placing in Phase I and II.</p>	<p align="center">CORRESPONDING DATA SHEETS</p>
<p>Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor cleaning of middle flap in Phase I and placing stone and fabric (about 30ft).</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.</p>	<p align="center">APPROVED BY: <i>R.E. Drossie</i></p>
<p>BY: </p>	<p align="center">CERTIFYING ENGINEER</p>
<p>REVIEWED BY:</p>	<p align="center">CQ A INSPECTOR</p>
<p align="center">PROJECT ENGINEER</p>	<p> </p>

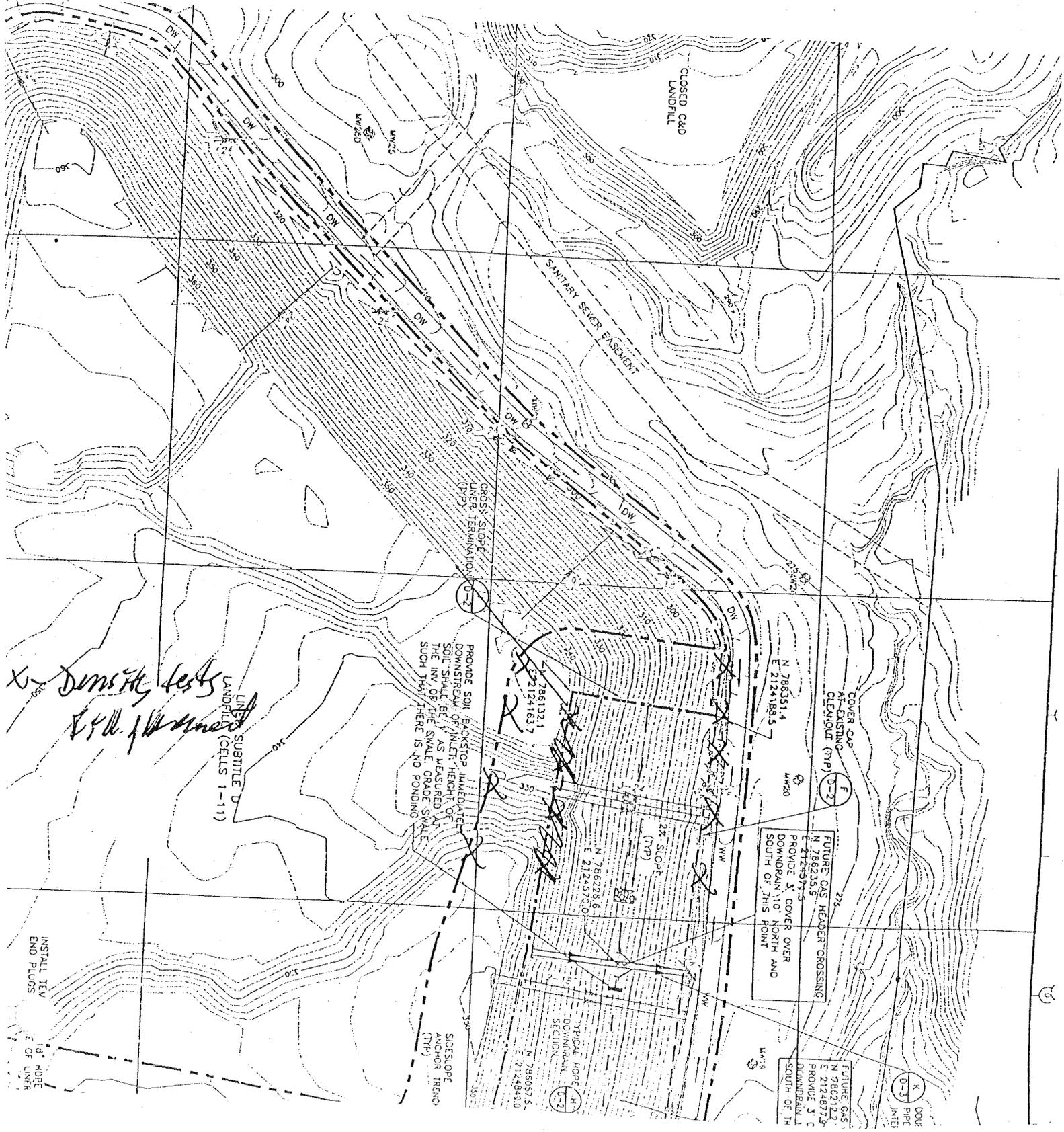


Field Density Test Summary

Client: North Wake		General Contractor: Thalle		Date: July 14, 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)					Moisture Content (%)
NW-368	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	104.2	120.5	22	96.3%	95%	P	15.6
NW-369	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	104.0	120.6	19	96.1%	95%	P	16
NW-370	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	103.9	120.7	19.6	96.0%	95%	P	16.2
NW-371	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	104.0	121	21	96.1%	95%	P	16.4
NW-372	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	103.9	120.7	23	96.0%	95%	P	16.2
NW-373	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	104.0	120.6	19.5	96.1%	95%	P	16
NW-374	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	103.5	119.9	20.1	95.7%	95%	P	15.8
NW-375	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	103.7	120.5	22	95.8%	95%	P	16.2
NW-376	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	103.9	120.7	21.6	96.0%	95%	P	16.2
NW-377	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	104.5	121	22.3	96.6%	95%	P	15.8
NW-378	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	103.9	120.8	21.7	96.0%	95%	P	16.3
NW-379	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	103.2	119.8	23	95.4%	95%	P	16.1

At# 112
7-14-4

Site Sketch



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-15-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 88 Lo: 66 _____ Clear x Partly _____ Cloudy 0.0 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	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 laterals.

Item No. 5: Furnish and Install 40 Mil Textured LLDPE Geomembrane.

Contractor backfilling top and bottom anchor trenches in Phase IV and V and completed. Compaction testing completed.

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

Contractor stockpiling screened material and also placing second lift in Phases I and II.

Item No. 8: Furnish and Install Vegetative Cover.

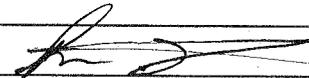
Contractor screening top soil and mixing with leaves located on site and placed in Phases I and II.

Item No. 10: Furnish and Install Final Cover Swale and Berms.

Contractor cleaning of middle flap in Phase I and placing stone and fabric (about 30ft).

Attachments: Yes No

Signed



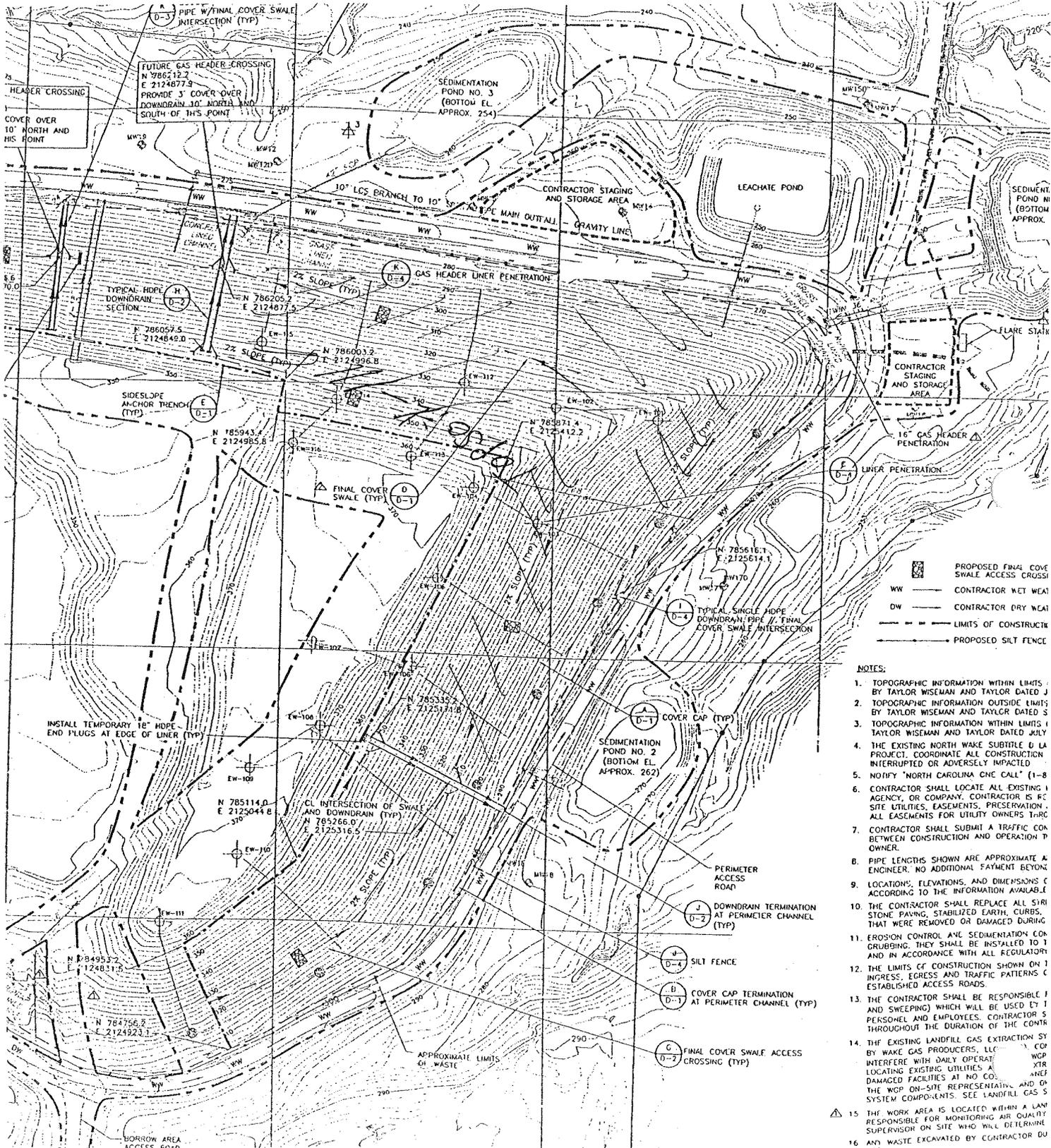
Description:

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

This report to be completed daily by each Project Representative

RPT # 113
7-15-04

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- CONTRACTOR WET WEIR
- CONTRACTOR DRY WEIR
- LIMITS OF CONSTRUCTION
- PROPOSED SITE 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 3
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS J 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 TO BE
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CON BETWEEN CONSTRUCTION AND OPERATION TO OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE & ENGINEER. NO ADDITIONAL PAYMENT BEYOND
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS C ACCORDING TO THE INFORMATION AVAILABLE
 10. THE CONTRACTOR SHALL REPLACE ALL SITI 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 SWEEPING) WHICH WILL BE USED BY I PERSONNEL AND EMPLOYEES. CONTRACTOR S THROUGHOUT THE DURATION OF THE CONTR
 14. THE EXISTING LANDFILL GAS EXTRACTION SY BY WAKE GAS PRODUCERS, LLC. WCP INTERFERE WITH DAILY OPERATI WCP LOCATING EXISTING UTILITIES A XIR DAMAGED FACILITIES AT NO COE WCP ON-SITE REPRESENTATIVE, AND ON SYSTEM COMPONENTS. SEE LANDFILL GAS S
 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 DU



<p>Sheet No.: 1 of 3 Report #: 113 Date: 7-15-04 Weather: PC low 70 high 94</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><u>EQUIPMENT:</u> CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>
<p>none</p>	<p><u>WORK COMPLETED:</u> Item No. 4: Extensions to Existing Landfill Gas Extraction System Components. Item No. 5: Furnish and Install 40 Mil Textured LLDPE Geomembrane. Contractor backfilling top and bottom anchor trenches in Phase IV and V and completed. Compaction testing completed.</p>
<p>COMMENT</p>	<p>Item No. 7: Excavate, Transport and Install Protective Soil Layer. Contractor stockpiling screened material and also placing second lift in Phases I and II. Contractor continuing gas line extension, two laterals.</p>
<p>None</p>	<p>Item No. 8: Furnish and Install Vegetative Cover. Contractor screening top soil and mixing with leaves located on site and placed in Phases I and II. Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor cleaning of middle flap in Phase I and placing stone and fabric (about 30ft).</p>
<p>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.</p>
<p>Site sketch Density tests</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>REVIEWED BY:</p>



Field Density Test Summary

Client: North Wake
 Project Name: Phase I closure
 Project Location: North Wake Landfill
 Project Number: 6172-42378

Date: July 15, 2004 Page: 1 of 1
 Technician: Bion Dalton
 DS = 2402
 MS = 664
 Troxler Gauge No./Type: 3440, no. 30129

General Contractor: Thalle
 Earthwork Contractor: Thalle

Passing =
 Passing =

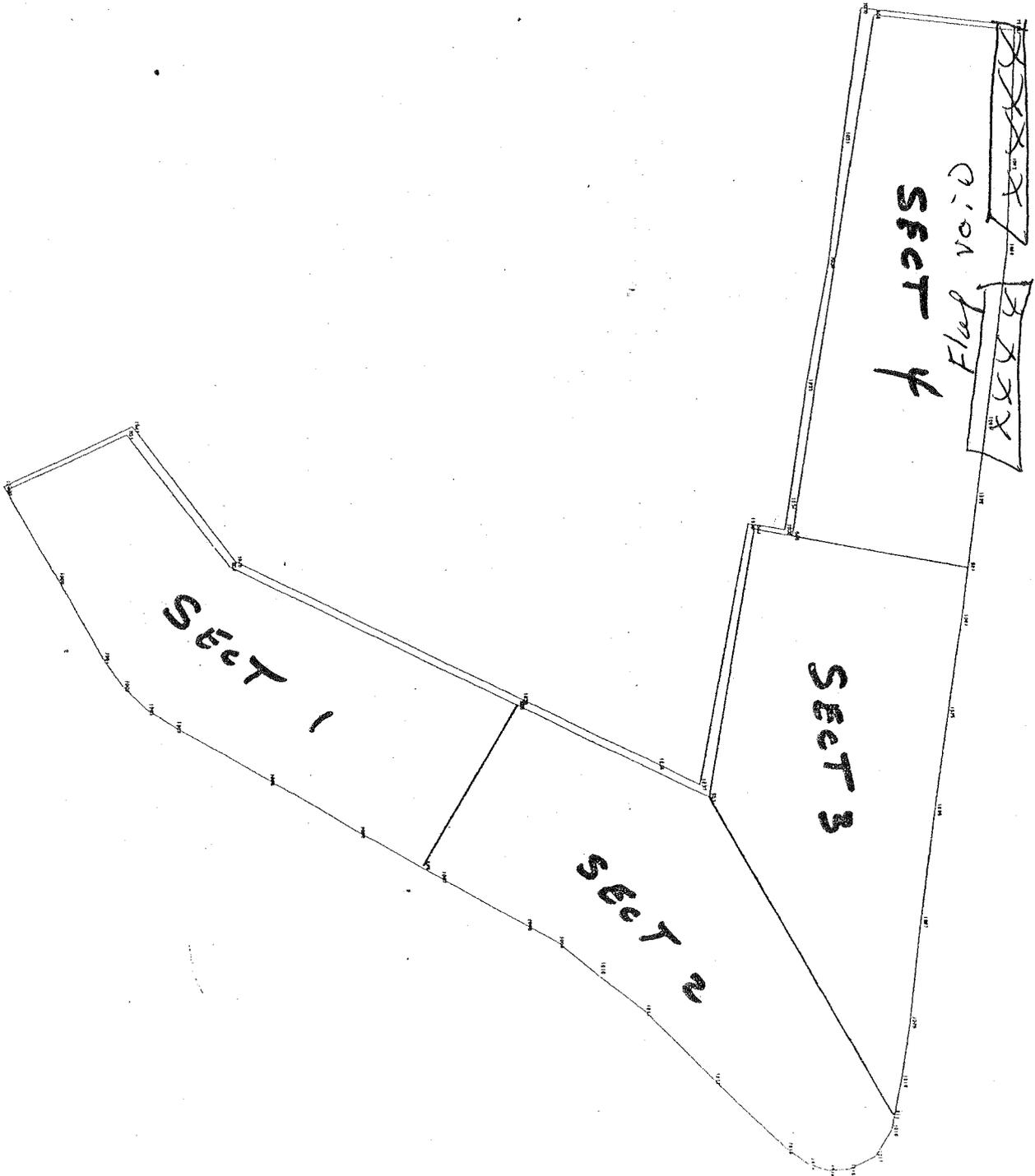
Test No.	Location	Elevation, Depth (ft) or Lift No.	Laboratory Test Results			Field Test Results			Compaction Achieved (%)	Compaction Required (%)	Status P / F	Comments Corrected Moisture
			Off-Site Borrow Source	Maximum Dry Density (pcf)	Optimum Moisture (%)	Test Depth (in)	Dry Density (pcf)	Wet Density (pcf)				
NW-382	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	105.0	121	97.1%	95%	P	15.2
NW-383	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	104.7	121.2	96.7%	95%	P	15.8
NW-384	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	104.5	120.8	96.6%	95%	P	15.6
NW-385	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	104.1	120.7	96.2%	95%	P	16
NW-386	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	105.5	122	97.5%	95%	P	15.6
NW-387	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	104.8	121	96.7%	95%	P	15.7
NW-388	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	104.0	120.3	96.1%	95%	P	15.7
NW-389	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	103.9	120.4	96.0%	95%	P	15.9
NW-390	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	104.8	120.7	96.8%	95%	P	15.2
NW-391	Phase V Flap Void	1+2	onsite borrow	108.2	16.0	12	104.8	121.1	96.8%	95%	P	15.6
NW-392	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	104.8	120.9	96.9%	95%	P	15.4
NW-393	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	104.2	119.8	96.3%	95%	P	15
NW-394	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	104.7	120.6	96.8%	95%	P	15.2
NW-395	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	104.8	121.2	96.9%	95%	P	15.6
NW-396	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	103.9	120.4	95.9%	95%	P	16
NW-397	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	104.5	120.8	96.6%	95%	P	15.6
NW-398	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	104.6	120.9	96.7%	95%	P	15.6
NW-399	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	104.6	121.1	96.7%	95%	P	15.8
NW-400	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	104.1	120.7	96.2%	95%	P	16
NW-401	Phase V Flap Void	3+4	onsite borrow	108.2	16.0	12	104.5	120.9	96.6%	95%	P	15.7
NW-402	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	104.3	121	96.4%	95%	P	16
NW-403	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	104.9	121.3	97.0%	95%	P	15.6
NW-404	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	104.7	120.8	96.7%	95%	P	15.4
NW-405	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	104.1	120.5	96.2%	95%	P	15.9
NW-406	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	104.1	120.7	96.2%	95%	P	15.9
NW-407	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	104.1	120.9	96.2%	95%	P	16.2
NW-408	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	104.1	120.5	96.2%	95%	P	15.9
NW-409	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	104.0	120.7	96.1%	95%	P	16.1
NW-410	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	104.8	120.9	96.8%	95%	P	15.4
NW-411	Phase V Flap Void	5+6	onsite borrow	108.2	16.0	12	104.8	121.1	96.7%	95%	P	15.9

CDM

7-15-04

PT # 113

Site Sketch



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-16-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 88 Lo: 60 _____ Clear Partly _____ Cloudy 0.0 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	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 laterals.

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

Contractor stockpiling screened material.

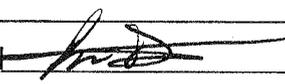
Item No. 8: Furnish and Install Vegetative Cover.

Contractor screening top soil and mixing with leaves located on site. Contractor also placing in Phase II and III.

Item No. 10: Furnish and Install Final Cover Swale and Berms.

Contractor completed stone and fabric placement in Phase II.

Attachments: Yes No

Signed 

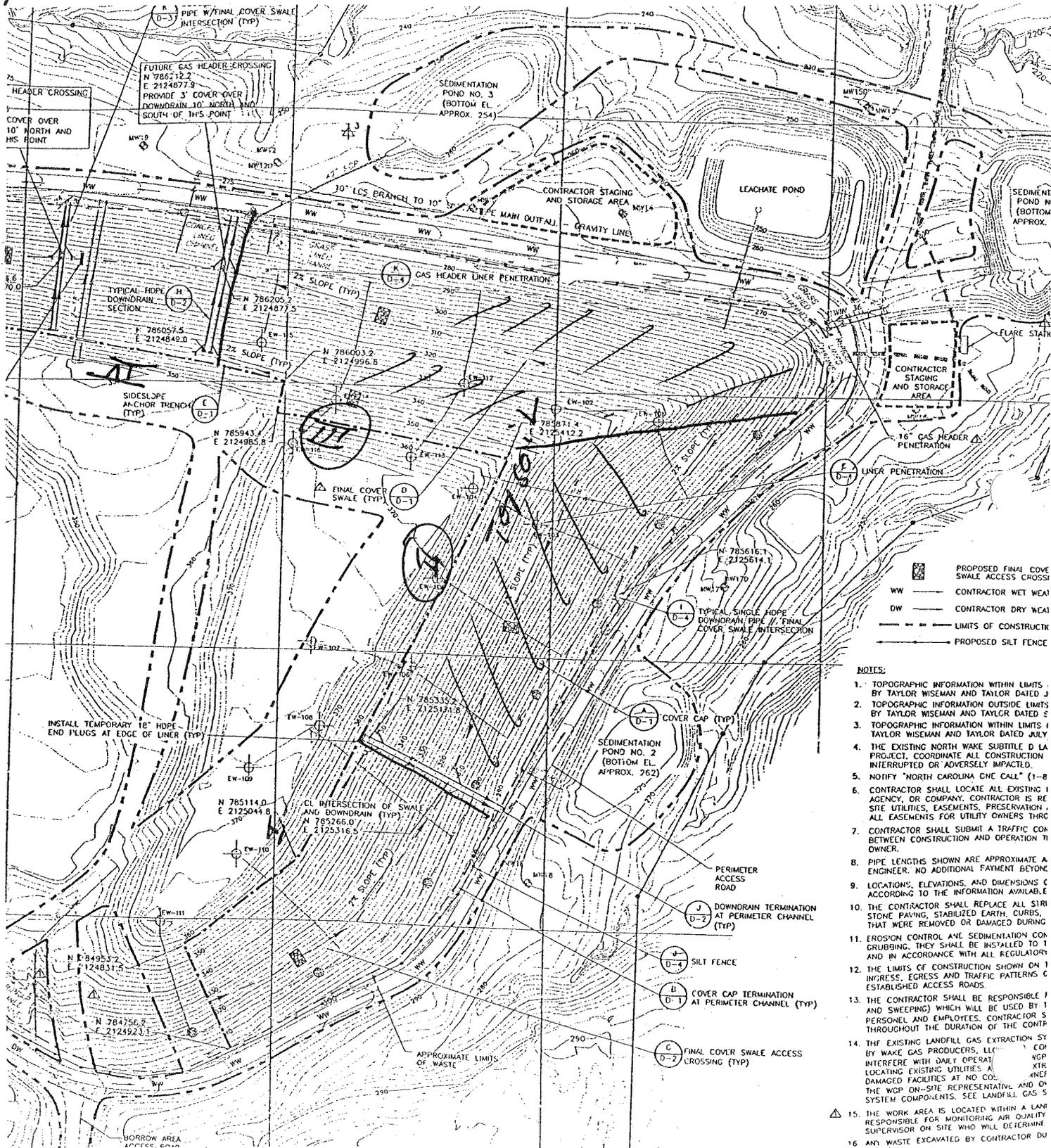
Description:

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

This report to be completed daily by each Project Representative

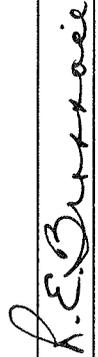
RPT# 114
7-16-4

Site Sketch



- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED J
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED J
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS I TAYLOR WISEMAN AND TAYLOR DATED JULY
 4. THE EXISTING NORTH WAKE SUBTILE 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 THRC
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC COR BETWEEN CONSTRUCTION AND OPERATION TO OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE & ENGINEER. NO ADDITIONAL PAYMENT BEYOND
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS C ACCORDING TO THE INFORMATION AVAILABLE
 10. THE CONTRACTOR SHALL REPLACE ALL SITI SLOPE PAVING, STABILIZED EARTH, CURBS, THAT WERE REMOVED OR DAMAGED DURING
 11. EROSION CONTROL AND SEDIMENTATION CON CRUBBING. 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 (SWEEPING) WHICH WILL BE USED BY I PERSONNEL AND EMPLOYEES. CONTRACTOR S THROUGHOUT THE DURATION OF THE CONTR
 14. THE EXISTING LANDFILL GAS EXTRACTION SY BY WAKE GAS PRODUCERS, LLC. COP INTERFERE WITH DAILY OPERATI WGP LOCATING EXISTING UTILITIES A XIR DAMAGED FACILITIES AT NO COL XNER THE WGP ON-SITE REPRESENTATIVE AND ON SYSTEM COMPONENTS. SEE LANDFILL GAS S
 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 DU



<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 #: 114 Date: 7-16-04 Weather: PC low 60 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: Item No. 4: Extensions to Existing Landfill Gas Extraction System Components. Contractor continuing gas line extension, two laterals.</p>	<p>none</p>
<p>Item No. 7: Excavate, Transport and Install Protective Soil Layer. Contractor stockpiling screened material.</p>	<p align="center">COMMENT</p>
<p>Item No. 8: Furnish and Install Vegetative Cover. Contractor screening top soil and mixing with leaves located on site. Contractor also placing in Phase II and III.</p>	<p>None</p>
<p>Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor completed stone and fabric placement 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.</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>REVIEWED BY:</p>	
<p align="center">PROJECT ENGINEER</p>	

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-17-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 90 Lo: 62 _____ Clear Partly _____ Cloudy 1" Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(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	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, Sediment pond excavation

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.

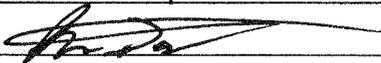
Contractor stockpiling screened material.

Item No. 8: Furnish and Install Vegetative Cover.

Contractor screening top soil and mixing with leaves located on site and placed in Phases I.

Item No. 17: Miscellaneous Work and Clean Up.

Contractor on site cleaning perimeter ditch from Northeast to Northwest, stopping at the concrete ditch. Contractor started to clean out sediment pond no.1. I suggested that the contractor try and finish cleaning sediment ponds to some extent but he stated he did not have enough time to finish them today and that he would have someone in tomorrow to clean them up.

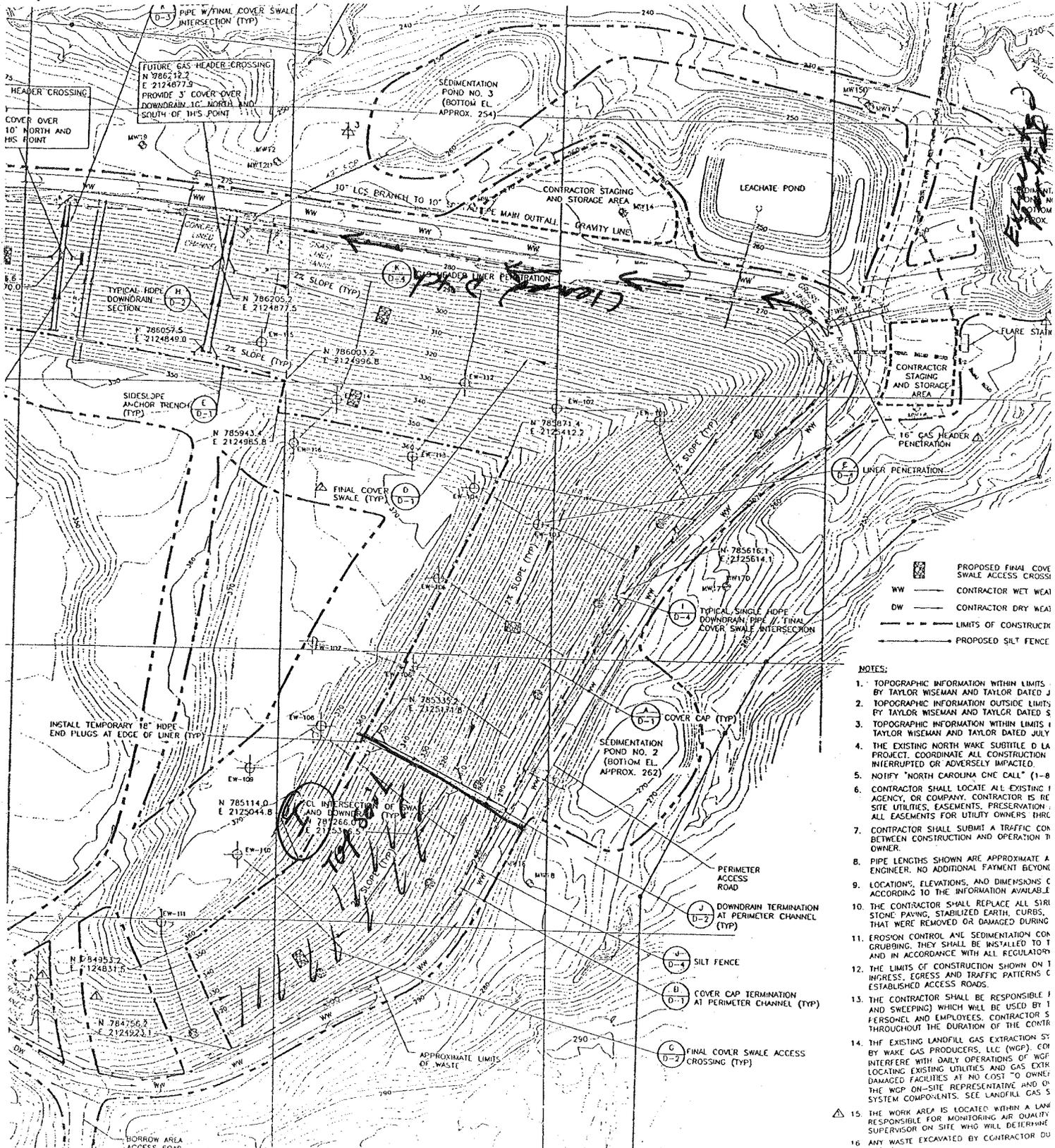
Attachments: Yes No Signed 

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

This report to be completed daily by each Project Representative

RPT# 115
7-17-4

Site Sketch



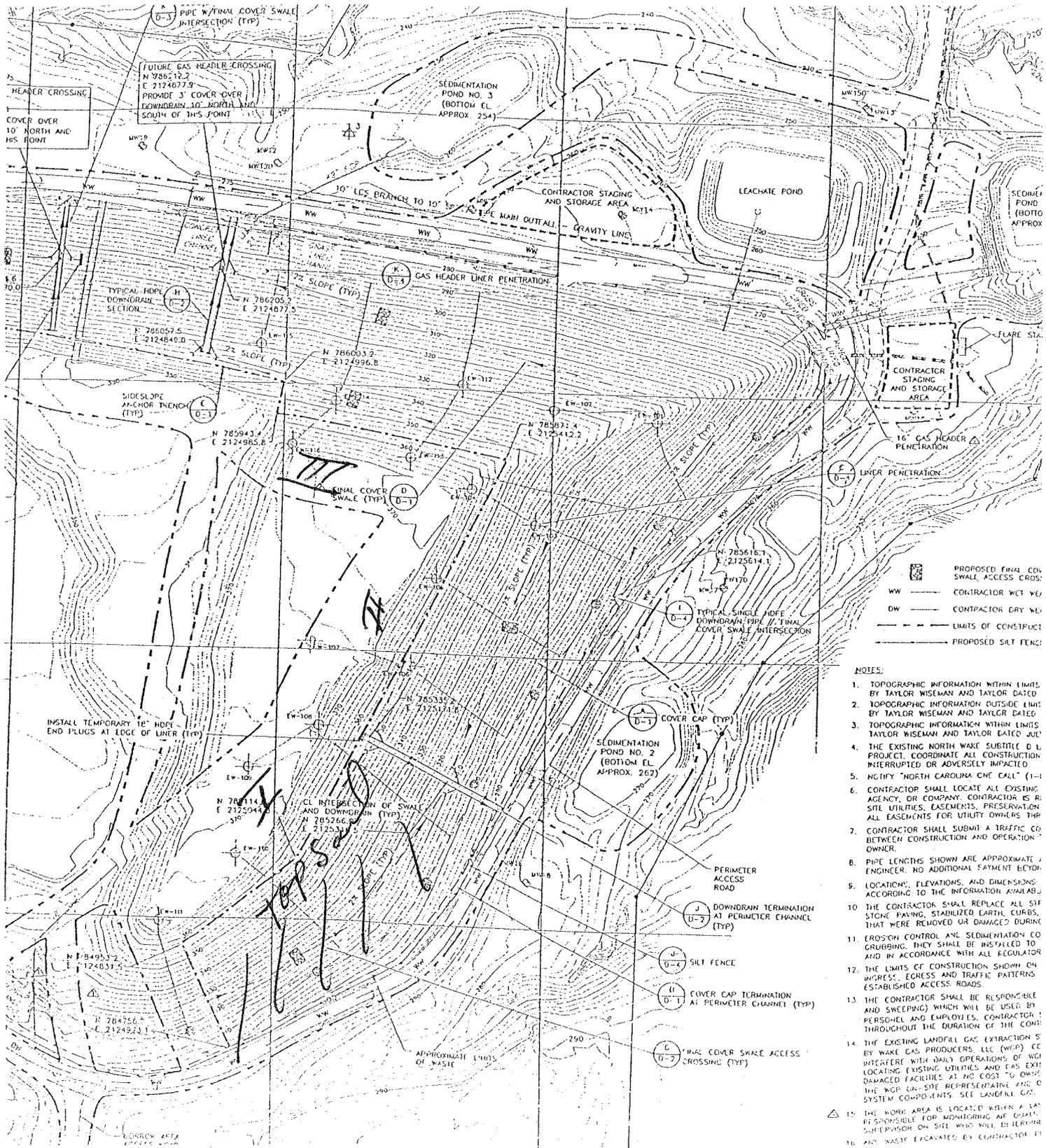
- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- WW CONTRACTOR WET WEATHER DRAINAGE
- DW CONTRACTOR DRY WEATHER DRAINAGE
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

- 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 UTILITY LINES, EASEMENTS, PRESERVATION ALL EASEMENTS FOR UTILITY OWNERS (EHC
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN BETWEEN CONSTRUCTION AND OPERATION TO OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AND ENGINEER. NO ADDITIONAL PAYMENT BEYOND
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS C ACCORDING TO THE INFORMATION AVAILABLE
 10. THE CONTRACTOR SHALL REPLACE ALL SRI STONE PAVING, STABILIZED EARTH, CURBS, THAT WERE REMOVED OR DAMAGED DURING
 11. EROSION CONTROL AND SEDIMENTATION CONTROL. THEY SHALL BE INSTALLED TO 1 AND IN ACCORDANCE WITH ALL REGULATORY
 12. THE LIMITS OF CONSTRUCTION SHOWN ON 1 INGRESS, EGRESS AND TRAFFIC PATTERNS C ESTABLISHED ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERSONNEL AND EMPLOYEES. CONTRACTOR S THROUGHOUT THE DURATION OF THE CONTR
 14. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM BY WAKE GAS PRODUCERS, LLC (WGP). COI 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 ON-SYSTEM COMPONENTS. SEE LANDFILL GAS S
 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 DU

<p>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 #: 115 Date: 7-17-04 Weather: 1.0rain low 62 high 90</p>
WORK AND EQUIPMENT	VISITORS
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	
<p>WORK COMPLETED: Item No. 7: Excavate, Transport and Install Protective Soil Layer. Contractor stockpiling screened material.</p>	
<p>Item No. 8: Furnish and Install Vegetative Cover. Contractor screening top soil and mixing with leaves located on site and placed in Phases I.</p>	
<p>Item No. 17: Miscellaneous Work and Clean Up. Contractor on site cleaning perimeter ditch from Northeast to Northwest, stopping at the concrete ditch. Contractor started to clean out sediment pond no.1. I suggested that the contractor try and finish cleaning sediment ponds to some extent but he stated he did not have enough time to finish them today and that he would have someone in tomorrow to clean them up.</p>	
<p>BY: </p>	<p>APPROVED BY: </p>
CQA INSPECTOR	CERTIFYING ENGINEER
<p>REVIEWED BY:</p>	
PROJECT ENGINEER	

RPT 115
7-17-04

Site Sketch





DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-18-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 82 Lo: 68 _____ Clear x Partly _____ Cloudy 1.1" Precipitation
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: _____ Reg. _____ OT Shift: _____ to _____
 (Contractor) Hours Worked: _____ Reg. 4 OT Shift: 7:30 to 11:30

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: no work

Defective work noted today to be corrected later: Leachate ponds need to be cleaned out, they are full. The riser barrel grates need to be cleaned off. The drainage lines going into ponds from ditch and the lines going out of ponds need to be checked for obstructions. The concrete ditch needs to be repaired were cracked and broken.

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.)

I arrived on site at 0730 to assess site for erosion damage. No erosion damage or sediment leaving site that I could see. Seems like site held up very well and the precautionary measures taken by contractor are working. Mr. Sessoms on site assessing erosion damage also. He asked if the contractor did or is going to clean out the sedimentation ponds. I explained that the contractor had stated that he will be coming in today to finish them. He looked over the site and stated that it looks good the erosion measures they had taken are working, but I want those ponds cleaned out and the silt at the bottom of sediment pond no. 1 taken care of. I stated that I had told the contractor the urgency of getting these items taken care of. He told me to keep on them and keep up the good work. When Mr. Sessoms left and the contractor had not shown up as of yet I called the Forman, Mr. Coward. He had stated that he would not be coming in today do to how wet it was, that he would cause more damage than fix. I reiterated the urgency of getting the sedimentation ponds cleaned up and getting the silt removed from bottom of sedimentation pond no.1. He stated again that I will not be coming in today due to the wet conditions, It will make more of a mess than I can clean up. I walked site and made some documentations and left site at 1130.

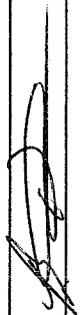
Attachments: Yes No Signed 

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 #: 116 Date: 7-18-04 Weather: 1.1rain low 68 high 82 </p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p>EQUIPMENT: None</p>	<p align="center">MATERIALS RECEIVED</p>
<p>WORK COMPLETED: I arrived on site at 0730 to assess site for erosion damage. No erosion damage or sediment leaving site that I could see. Seems like site held up very well and the precautionary measures taken by contractor are working. Mr. Sessoms on site assessing erosion damage also. He asked if the contractor did or is going to clean out the sedimentation ponds. I explained that the contractor had stated that he will be coming in today to finish them. He looked over the site and stated that it looks good the erosion measures they had taken are working, but I want those ponds cleaned out and the silt at the bottom of sediment pond no. 1 taken care of. I stated that I had told the contractor the urgency of getting these items taken care of. He told me to keep on them and keep up the good work. When Mr. Sessoms left and the contractor had not shown up as of yet I called the Forman, Mr. Coward. He had stated that he would not be coming in today do to how wet it was, that he would cause more damage than fix. I reiterated the urgency of getting the sedimentation ponds cleaned up and getting the silt removed from bottom of sedimentation pond no.1. He stated again that I will not be coming in today due to the wet conditions, It will make more of a mess than I can clean up. I walked site and made some documentations and left site at 1130.</p>	<p align="center">COMMENT</p>
<p>BY: </p>	<p align="center">CORRESPONDING DATA SHEETS</p>
<p>REVIEWED BY:</p>	<p align="center">CERTIFYING ENGINEER</p>
<p align="center">APPROVED BY: </p>	<p align="center">PROJECT ENGINEER</p>



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-19-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 86 Lo: 66 _____ 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. 4 OT Shift: 7:30 to 11:30

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: no work

Defective work noted today to be corrected later: Leachate ponds need to be cleaned out, they are full. The ser barrel grates need to be cleaned off. The drainage lines going into ponds from ditch and the lines going out of ponds need to be checked for obstructions. The concrete ditch needs to be repaired were cracked and broken.

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.)

I arrived on site at 0730 to assess site for erosion damage. No erosion damage or sediment leaving site that I could see. Seems like site held up very well and the precautionary measures taken by contractor are working. I walked site and made some documentations and left site at 1130.

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 #: 117 Date: 7-19-04 Weather: PC low 66 high 86 </p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p>EQUIPMENT: None</p>	<p align="center">MATERIALS RECEIVED</p>
<p>WORK COMPLETED: I arrived on site at 0730 to assess site for erosion damage. No erosion damage or sediment leaving site that I could see. Seems like site held up very well and the precautionary measures taken by contractor are working. I walked site and made some documentations and left site at 1130.</p>	<p align="center">COMMENT</p>
<p>BY: </p>	<p align="center">None</p>
<p align="center">CQA INSPECTOR</p>	<p align="center">CORRESPONDING DATA SHEETS</p>
<p>REVIEWED BY:</p>	<p> APPROVED BY:  CERTIFYING ENGINEER </p>
<p align="center">PROJECT ENGINEER</p>	

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-20-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 87 Lo: 66 _____ Clear x Partly _____ Cloudy 0.1 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

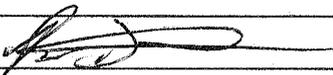
Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 4: Extensions to Existing Landfill Gas Extraction System Components.

Contractor continuing gas line extension.

Item No. 8: Furnish and Install Vegetative Cover.

Contractor screening top soil and mixing with leaves located on site and placed in Phases I and II.

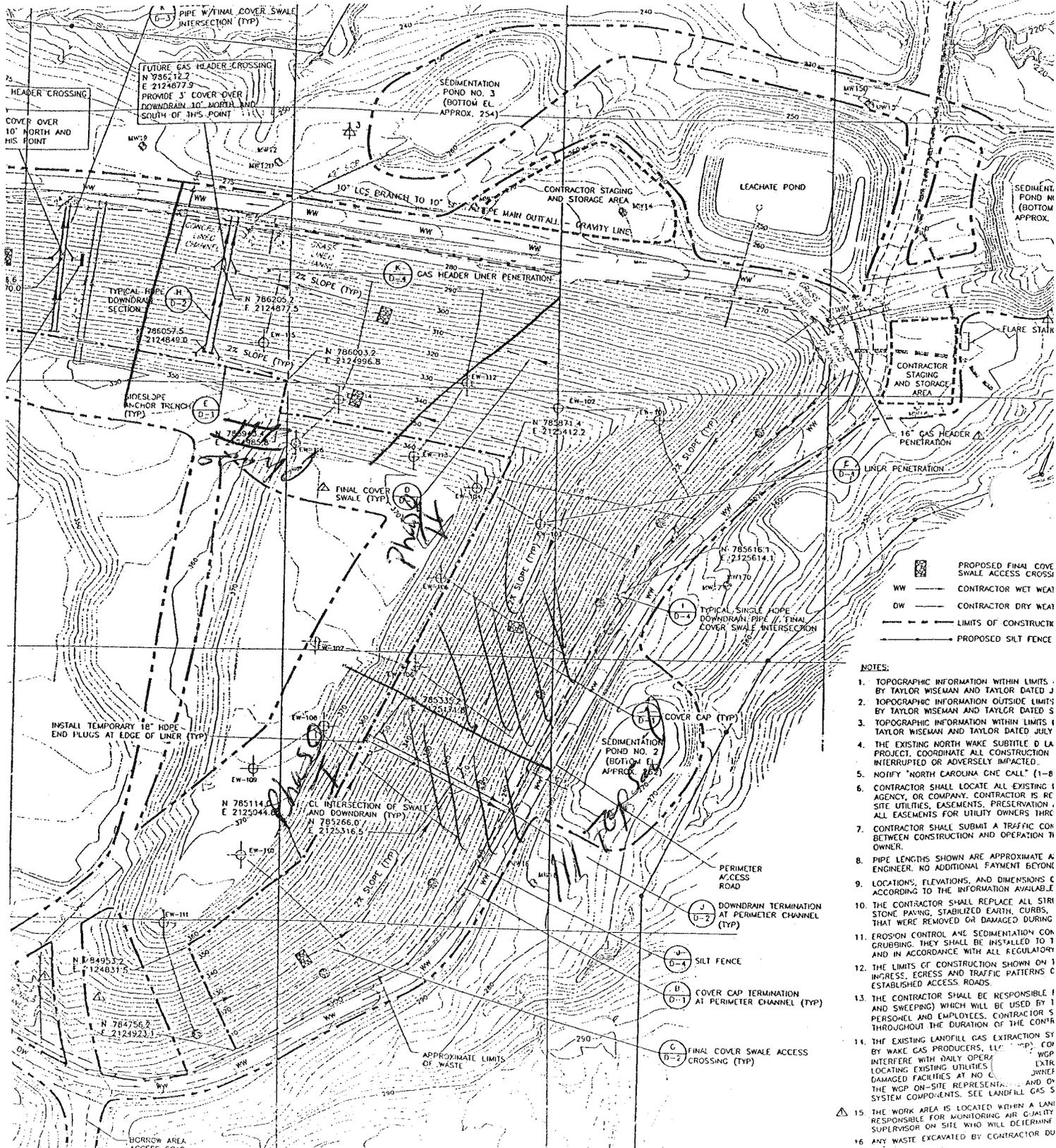
Attachments: Yes No Signed 

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

This report to be completed daily by each Project Representative

RF# 118
7-20-4

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 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 AVAILABE
 10. THE CONTRACTOR SHALL REPLACE ALL SRI STONE PAVING, STABILIZED EARTH, CURBS, THAT WERE REMOVED OR DAMAGED DURING
 11. EROSION CONTROL AND SEDIMENTATION CON GRUBBING. THEY SHALL BE INSTALLED TO 1 AND IN ACCORDANCE WITH ALL REGULATORY
 12. THE LIMITS OF CONSTRUCTION SHOWN ON I INFRESSE, EGRESS AND TRAFFIC PATTERNS C ESTABLISHED ACCESS ROADS.
 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 CONTR
 14. THE EXISTING LANDFILL GAS EXTRACTION SY BY WAKE GAS PRODUCERS, LLP (WGP) COP INTERFERE WITH DAILY OPERATIONS. WGP LOCATING EXISTING UTILITIES. EXISTING DAMAGED FACILITIES AT NO COST. JOINED THE WGP ON-SITE REPRESENTATIVE AND OF SYSTEM COMPONENTS. SEE LANDFILL GAS S
 15. THE WORK AREA IS LOCATED WITHIN A LANI RESPONSIBLE FOR MONITORING AIR QUALITY SUPERVISOR ON SITE WHO WILL DETERMINE
 16. ANY WASTE EXCAVATED BY CONTRACTOR DU



<p>Sheet No. : 1 of 2 Report #: 118 Date: 7-20-04 Weather: .01 low 66 high 87</p>	<p>CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>
<p>WORK AND EQUIPMENT</p>	<p>VISITORS</p>
<p><u>EQUIPMENT:</u> None</p>	<p>MATERIALS RECEIVED</p>
<p><u>WORK COMPLETED:</u> Item No. 4: Extensions to Existing Landfill Gas Extraction System Components. Contractor continuing gas line extension.</p>	<p>none</p>
<p>Item No. 8: Furnish and Install Vegetative Cover. Contractor screening top soil and mixing with leaves located on site and placed in Phases I and II.</p>	<p>COMMENT</p>
<p>None</p>	<p>CORRESPONDING DATA SHEETS</p>
<p>None</p>	<p>APPROVED BY: <i>R.E. B...</i></p>
<p>BY: <i>[Signature]</i></p>	<p>CERTIFYING ENGINEER</p>
<p>REVIEWED BY:</p>	<p>CQA INSPECTOR</p>
<p>PROJECT ENGINEER</p>	<p>PROJECT ENGINEER</p>

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-21-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 90 Lo: 66 _____ Clear Partly _____ Cloudy 0.1 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	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.

Item No. 8: Furnish and Install Vegetative Cover.

Contractor screening top soil and mixing with leaves located on site and placed 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



<p style="text-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 #: 119 Date: 7-21-04 Weather: .01 low 66 high 90
<p style="text-align: center;">WORK AND EQUIPMENT</p>		<p style="text-align: center;">VISITORS</p>
<p>EQUIPMENT: None</p>		<p style="text-align: center;">MATERIALS RECEIVED</p>
<p>WORK COMPLETED: Item No. 4: Extensions to Existing Landfill Gas Extraction System Components. Contractor continuing gas line extension.</p>		<p style="text-align: center;">none</p>
<p>Item No. 8: Furnish and Install Vegetative Cover. Contractor screening top soil and mixing with leaves located on site and placed in Phases I and II.</p>		<p style="text-align: center;">COMMENT</p>
<p>BY: </p>		<p style="text-align: center;">None</p>
<p style="text-align: center;">CQA INSPECTOR</p>		<p style="text-align: center;">CORRESPONDING DATA SHEETS</p>
<p>REVIEWED BY:</p>		<p style="text-align: center;">APPROVED BY: <i>R.E. Burnett</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: 07-22-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 91 Lo: 67 _____ 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 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.

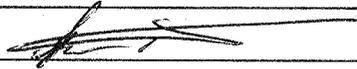
Contractor continuing gas line extension.

Item No. 8: Furnish and Install Vegetative Cover.

Contractor screening top soil and mixing with leaves located on site and placed in Phases I and II.

* Stopped early due to rain.

Attachments: Yes No

Signed 

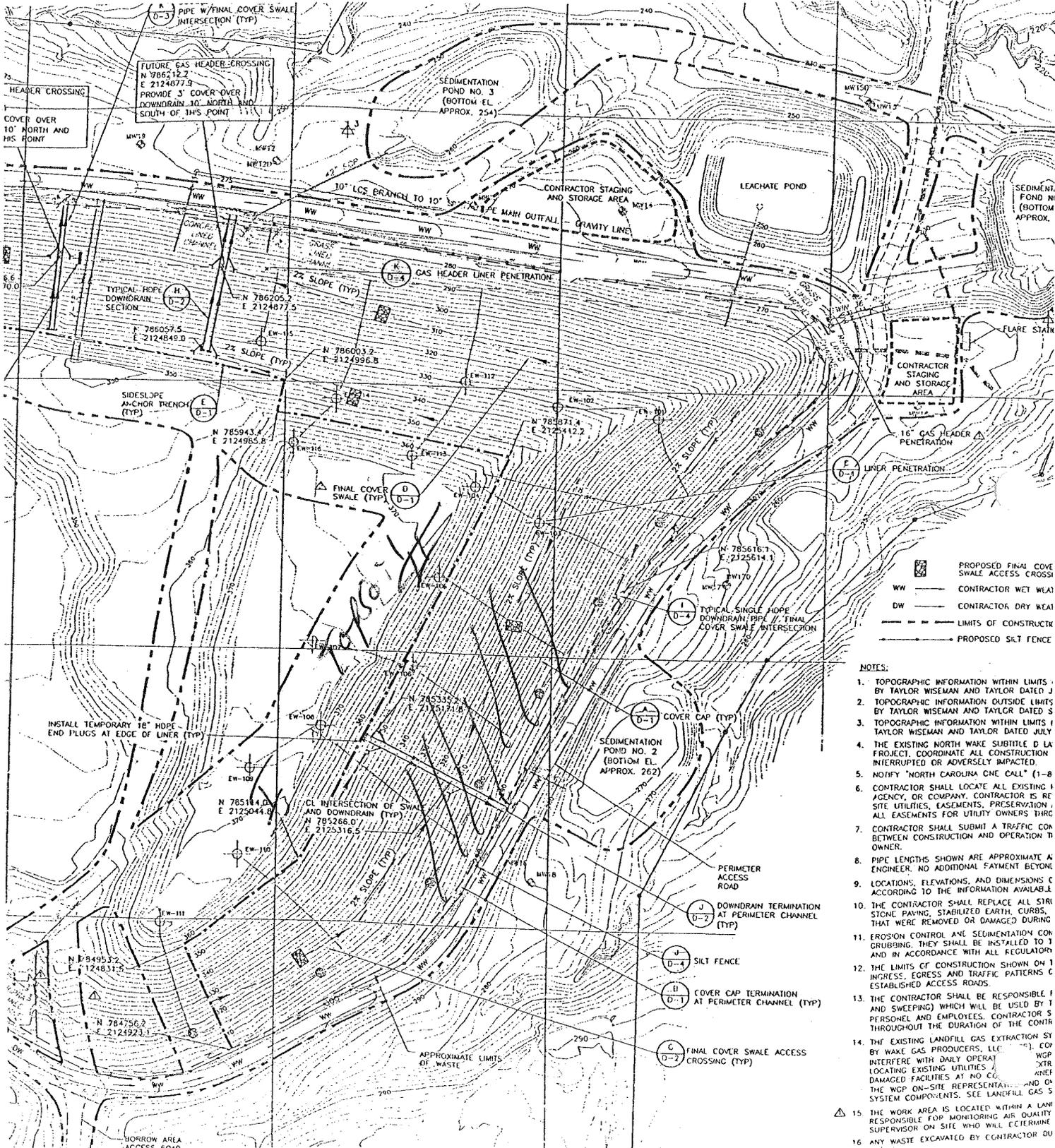
Description: _____

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

This report to be completed daily by each Project Representative

R94-120
7-22-04

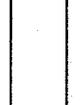
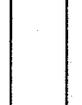
Site Sketch



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

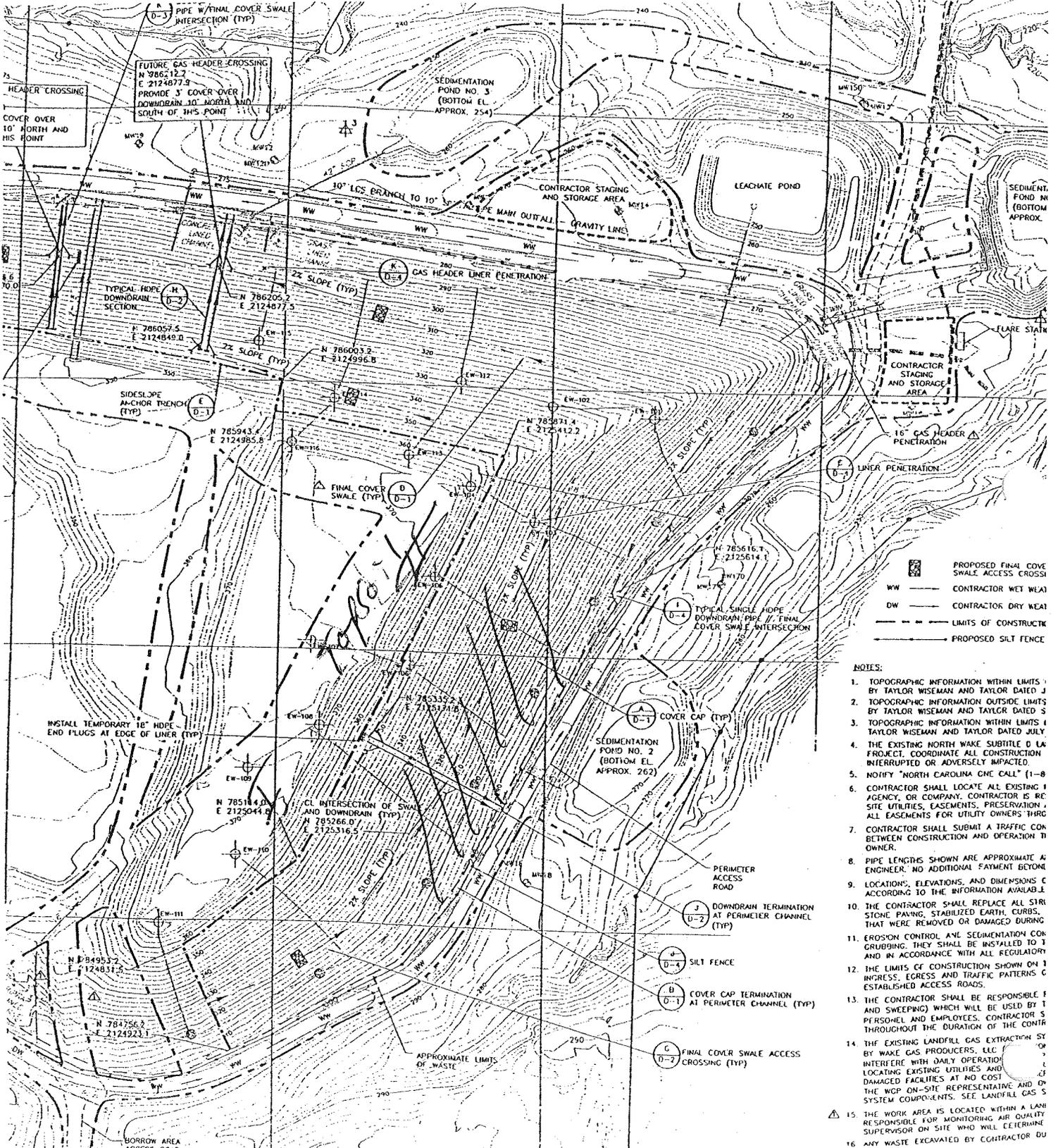
- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED J
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED S
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED JULY
 4. THE EXISTING NORTH WAKE SUBTITLE D LA PROJECT. COORDINATE ALL CONSTRUCTION INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-8
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY UTILITIES, EASEMENTS, PRESERVATION, ALL EASEMENTS FOR UTILITY OWNERS THRU
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN BETWEEN CONSTRUCTION AND OPERATION TO OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AND ENGINEER. NO ADDITIONAL PAYMENT BEYOND
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS COORDINATE WITH THE INFORMATION AVAILABLE
 10. THE CONTRACTOR SHALL REPLACE ALL SLOTTED CURBS, STABILIZED EARTH, CURBS, THAT WERE REMOVED OR DAMAGED DURING
 11. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO PREVENT EROSION AND SEDIMENTATION 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 VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES AND DAMAGED FACILITIES AT NO COST TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES AND DAMAGED FACILITIES AT NO COST TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND DEPTH OF ALL UTILITIES AND DAMAGED FACILITIES AT NO COST TO THE CONTRACTOR.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL PERSONNEL AND EMPLOYEES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL PERSONNEL AND EMPLOYEES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL PERSONNEL AND EMPLOYEES.
 14. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM BY WAKE GAS PRODUCERS, LLC (WGP) SHALL NOT BE INTERFERED WITH DAILY OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES AND DAMAGED FACILITIES AT NO COST TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES AND DAMAGED FACILITIES AT NO COST TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES AND DAMAGED FACILITIES AT NO COST TO THE CONTRACTOR.
 15. THE WORK AREA IS LOCATED WITHIN A LANDFILL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AIR QUALITY AND SUPERVISION ON SITE WHO WILL DETERMINE ANY WASTE EXCAVATED BY CONTRACTOR DURING CONSTRUCTION.
 16. ANY WASTE EXCAVATED BY CONTRACTOR DURING CONSTRUCTION SHALL BE PROPERLY HANDLED AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.



<p>Sheet No. : 1 of 2 Report #: 120 Date: 7-22-04 Weather: .78 low 67 high 91</p>	<p>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>VISITORS</p>
<p>EQUIPMENT: None</p>	<p>MATERIALS RECEIVED</p>
<p>WORK COMPLETED: Item No. 4: Extensions to Existing Landfill Gas Extraction System Components. Contractor continuing gas line extension.</p>	<p>none</p>
<p>Item No. 8: Furnish and Install Vegetative Cover. Contractor screening top soil and mixing with leaves located on site and placed in Phases I and II. * Stopped early due to rain</p>	<p>None</p>
<p>BY: </p>	<p>APPROVED BY: </p>
<p>REVIEWED BY:</p>	<p>CORRESPONDING DATA SHEETS</p>
<p>CQA INSPECTOR</p>	<p>None</p>
<p>PROJECT ENGINEER</p>	<p>CERTIFYING ENGINEER</p>

RPT-120
7-22-04

Site Sketch



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

- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED 7/1/04.
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED 5/1/04.
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED 7/1/04.
 4. THE EXISTING NORTH WAKE SUBSITE D LA PROJECT, COORDINATE ALL CONSTRUCTION INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-800-4-A-SAFE) PRIOR TO ANY UTILITY LOCATIONS.
 6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES, OR COMPANY, CONTRACTOR IS RESPONSIBLE FOR 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 CONTRACT.
 9. LOCATION, ELEVATIONS, AND DIMENSIONS TO BE ACCORDING TO THE INFORMATION AVAILABLE.
 10. THE CONTRACTOR SHALL REPLACE ALL STREETS, STONE PAVING, STABILIZED EARTH CURBS, THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
 11. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO PREVENT EROSION AND SEDIMENTATION IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING ARE TO BE USED BY THE CONTRACTOR TO ESTABLISH ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SWEEPING 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 SHALL NOT BE INTERFERED WITH DAILY OPERATIONS. LOCATING EXISTING UTILITIES AND DAMAGED FACILITIES AT NO COST TO THE WCP ON-SITE REPRESENTATIVE AND ON-SITE SYSTEM COMPONENTS. SEE LANDFILL GAS EXTRACTION SYSTEM DRAWING.
 15. THE WORK AREA IS LOCATED WITHIN A LANDFILL SUPERVISOR ON SITE WILL BE RESPONSIBLE FOR MONITORING AIR QUALITY AND ANY WASTE EXCAVATED BY CONTRACTOR DURING CONSTRUCTION.
 16. ANY WASTE EXCAVATED BY CONTRACTOR DURING CONSTRUCTION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE TREATMENT AND DISPOSAL FACILITY.

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-23-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 91 Lo: 67 _____ Clear Partly _____ Cloudy .78 Precipitation
 Contract Section or Division: _____
 Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

(Observation) Hours Worked: 8 Reg. _____ OT Shift: _____ to _____
 (Contractor) Hours Worked: 8 Reg. _____ OT Shift: 7 to 4:00

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	*		*

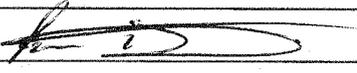
*Designates subcontractors

^Activity and Location: Rain, sent everyone home

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.)

NO work today 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 <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT	Sheet No.: 1 of 1 Report #: 121 Date: 7-23-04 Weather: .78 low 67 high 91
WORK AND EQUIPMENT	VISITORS
<u>EQUIPMENT:</u> None	MATERIALS RECEIVED
<u>WORK COMPLETED:</u> <u>NO work today due to rain</u>	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: 07-24-04

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				
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

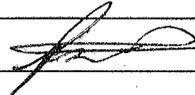
Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

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: 7-24-04 Weather: PC	Report #: 122 low 71 high 82
WORK AND EQUIPMENT		VISITORS	
EQUIPMENT:		MATERIALS RECEIVED	
WORK COMPLETED: Contractor not working today		none	
RESULTS: None		COMMENT	
BY: 		None	
REVIEWED BY:		CORRESPONDING DATA SHEETS	
CQA INSPECTOR		none	
PROJECT ENGINEER		APPROVED BY: 	
		CERTIFYING ENGINEER	

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-25-04

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				
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		*		*

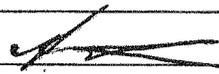
*Designates subcontractors

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 Report #: 123 Date: 7-25-04 Weather: PC low 73 high 87
WORK AND EQUIPMENT		VISITORS
EQUIPMENT:		MATERIALS RECEIVED
WORK COMPLETED:		none
Contractor not working today		COMMENT
		None
RESULTS:		CORRESPONDING DATA SHEETS
None		none
BY:		APPROVED BY: R.E. Currie
	CQA INSPECTOR	CERTIFYING ENGINEER
REVIEWED BY:		
	PROJECT ENGINEER	

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-26-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 82 Lo: 71 _____ Clear x Partly _____ Cloudy _____ Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

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

(Contractor) Hours Worked: 8 Reg. 2 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	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: _____

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 continued gas line and leachate header extensions.

Item No. 5: Furnish and Install 40-mil Textured LLDPE Geomembrane.

Gas bubbles are no longer an issue they are all gone.

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

Contractor continued on protective cover in phases II and III .

Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area.

Contractor screening top soil and mixing with leaves located on site. Contractor continued placement of Topsoil in Phase I through IV areas.

Item No. 10: Furnish and Install Final Cover Swale and Berms.

Contractor continued placing drainage rock and fabric and shaping Berms in Phase I through III

Item No. 14: Cleanout Existing Sedimentation Ponds:

Contractor continuing to keep on top of erosion control measures. No problems have occurred since measures have been taken.

Item No. 16: Furnish and install Permanent Seeding and Mulching.

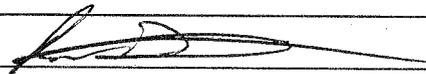
Contractors seeding and mulching sub on site seeding top portion of Phases I through Three. I have let the contractor know that there needs to be more straw in some areas were Birds, and rain have made it slender.

Attachments:

Yes

No

Signed



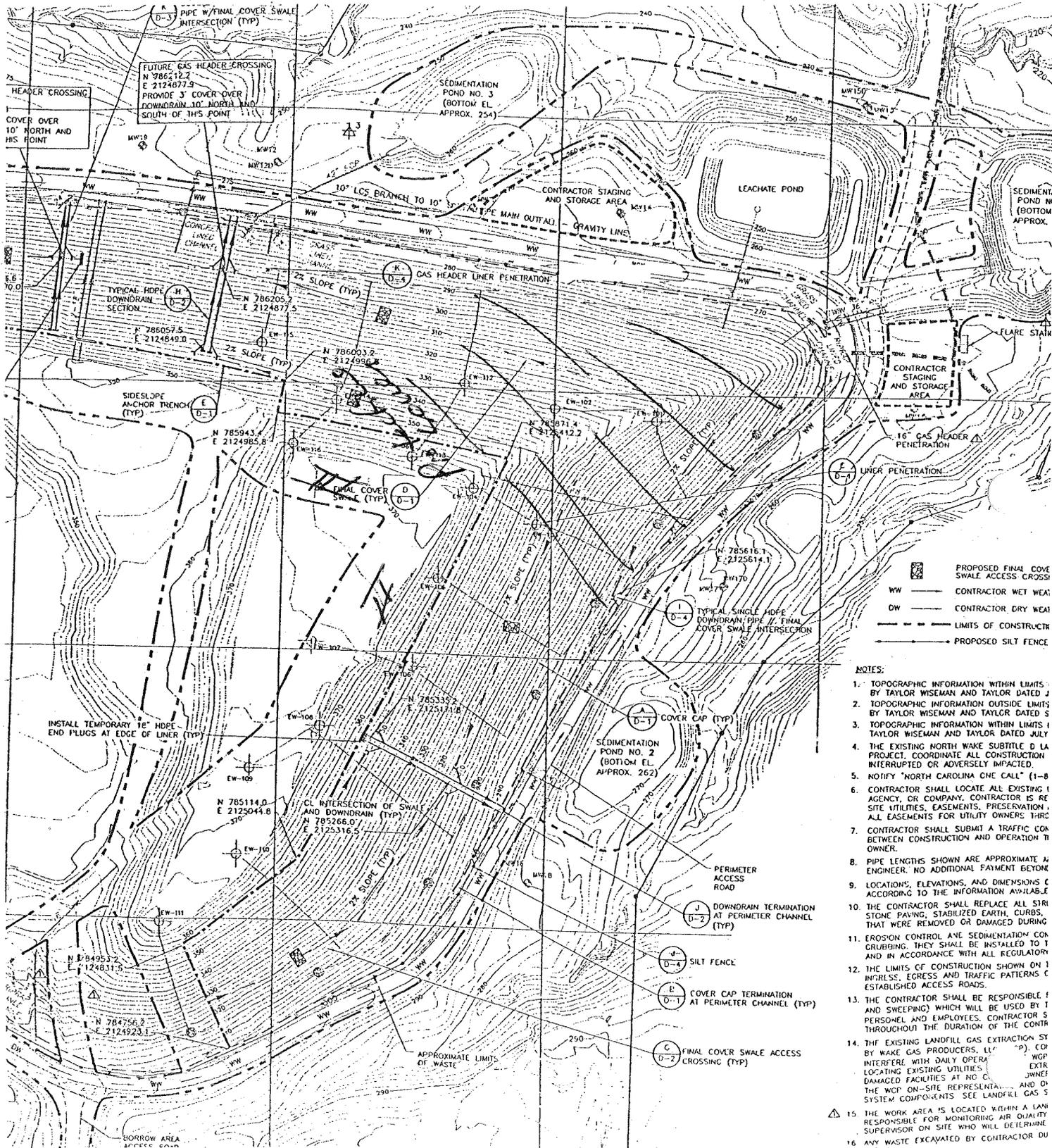
Description:

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

This report to be completed daily by each Project Representative

RPT-124
7-26-04

Site Sketch



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

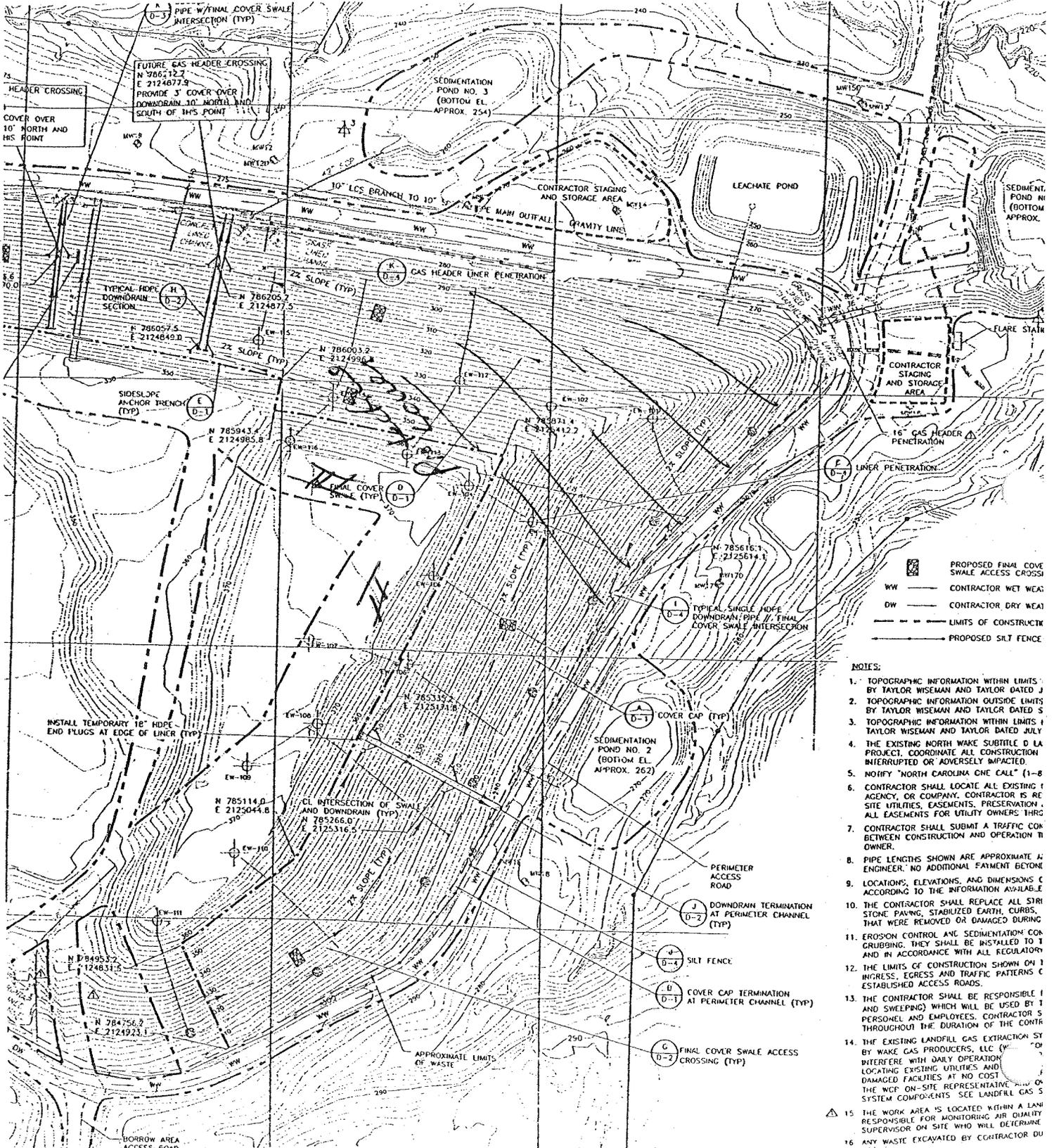
- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED J
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED S
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED J
 4. THE EXISTING NORTH WAKE SUBTILE D LA PROJECT. COORDINATE 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 TO OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE AN 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 COA CROSSING. 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 SWEEPING) WHICH WILL BE USED BY I PERSONNEL AND EMPLOYEES. CONTRACTOR S THROUGHOUT THE DURATION OF THE CONTR
 14. THE EXISTING LANDFILL GAS EXTRACTION SY BY WAKE GAS PRODUCERS, LLC (TYP.). COV INTERFERE WITH DAILY OPERATIONS (TYP.) LOCATING EXISTING UTILITIES. EXISTING DAMAGED FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND O SYSTEM COMPONENTS SEE LANDFILL GAS S
 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 DU



<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 #: 124 Date: 7-26-04 Weather: PC low 71 high 82</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. 4: Extensions to Existing Landfill gas Extraction System Components. Contractor continued gas line and leachate header extensions.</p> <p>Item No. 5: Furnish and Install 40-mil Textured LLDPE Geomembrane.</p> <p>Item No. 7: Excavate, Transport and Install Protective Soil Layer Material. Contractor continued on protective cover in phases II and III.</p> <p>Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area. Contractor screening top soil and mixing with leaves located on site. Contractor continued placement of Topsoil in Phase I through IV areas.</p> <p>Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor continued placing drainage rock and fabric and shaping Berms in Phase I through III</p> <p>Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor continuing to keep on top of erosion control measures. No problems have occurred since measures have been taken.</p> <p>Item No. 16: Furnish and install Permanent Seeding and Mulching. Contractors seeding and mulching sub on site seeding top portion of Phases I through Three. I have let the contractor know that there needs to be more straw in some areas were Birds, and rain have made it slender.</p>	<p>MATERIALS RECEIVED</p> <p>none</p> <p>COMMENT</p> <p>None</p> <p>CORRESPONDING DATA SHEETS</p> <p>Site sketch</p>
<p>RESULTS: none</p>	<p>APPROVED BY: <i>R.E. O'Connell</i></p>
<p>REVIEWED BY:</p>	<p>CERTIFYING ENGINEER</p>
<p align="center">PROJECT ENGINEER</p>	

Rft-124
7-26-04

Site Sketch



- PROPOSED FINAL COVE SWALE ACCESS CROSSING
- CONTRACTOR WET WEATHER
- CONTRACTOR DRY WEATHER
- 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 UTILITY AGENCY, OR COMPANY. CONTRACTOR IS RESPONSIBLE FOR SITE UTILITIES, EASEMENTS, PRESERVATION, AND ALL EASEMENTS FOR UTILITY OWNERS THROUGHOUT CONSTRUCTION AND OPERATION TO OWNER.
7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN BETWEEN CONSTRUCTION AND OPERATION TO OWNER.
8. PIPE LENGTHS SHOWN ARE APPROXIMATE AND ENGINEER. NO ADDITIONAL PAYMENT BEYOND.
9. LOCATIONS, ELEVATIONS, AND DIMENSIONS ARE ACCORDING TO THE INFORMATION AVAILABLE.
10. THE CONTRACTOR SHALL REPLACE ALL SPLIT STONE PAVING, STABILIZED EARTH, CURBS, THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
11. EROSION CONTROL AND SEDIMENTATION CONTROLS. THEY SHALL BE INSTALLED TO 100% AND IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING. EGRESS AND TRAFFIC PATTERNS ARE ESTABLISHED ACCESS ROADS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERSONNEL AND EMPLOYEES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DURATION OF THE CONSTRUCTION.
14. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM BY WAKE GAS PRODUCERS, LLC (WGP) SHALL BE OPERATED WITH DAILY OPERATION LOCATING EXISTING UTILITIES AND DAMAGED FACILITIES AT NO COST TO THE WGP ON-SITE REPRESENTATIVE AND SYSTEM COMPONENTS SEE LANDFILL GAS SYSTEM COMPONENTS.
15. THE WORK AREA IS LOCATED WITHIN A LANDFILL RESPONSIBLE FOR MONITORING AIR QUALITY SUPERVISOR ON-SITE WHO WILL DETERMINE ANY WASTE EXCAVATED BY CONTRACTOR DU

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-27-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 90 Lo: 72 _____ Clear x Partly _____ Cloudy .38 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

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

(Contractor) Hours Worked: 8 Reg. 2 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	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: _____

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 continued gas line and leachate header extensions.

Item No. 5: Furnish and Install 40-mil Textured LLDPE Geomembrane.

Gas bubbles are no longer an issue they are all gone.

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

Contractor continued on protective cover in phases II and III.

Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area.

Contractor screening top soil and mixing with leaves located on site. Contractor continued placement of Topsoil in Phase I through IV areas.

Item No. 10: Furnish and Install Final Cover Swale and Berms.

Contractor continued placing drainage rock and fabric and shaping Berms in Phase I through III

Item No. 14: Cleanout Existing Sedimentation Ponds:

Contractor continuing to keep on top of erosion control measures. No problems have occurred since measures have been taken.

Item No. 16: Furnish and install Permanent Seeding and Mulching.

Contractors seeding and mulching sub on site seeding top portion of Phases I through Three. I have let the contractor know that there needs to be more straw in some areas were Birds, and rain have made it slender.

* Rain slowed down work until finally it stopped them.

Attachments: Yes No Signed 

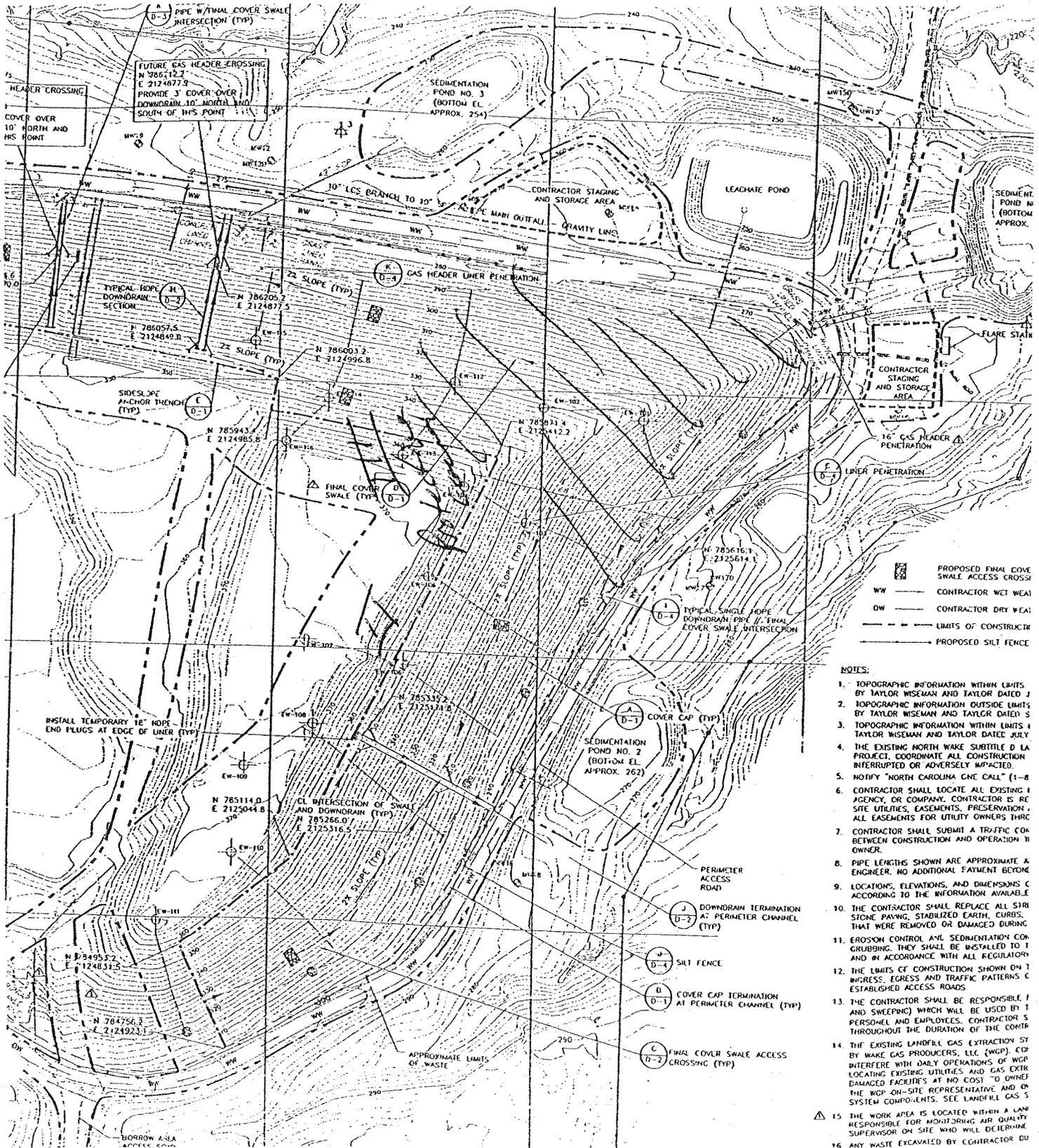
Description: _____

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

This report to be completed daily by each Project Representative

RPT 125
7-27-04

Site Sketch



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

NOTES:

1. TOPOGRAPHIC INFORMATION WITHIN LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED 1/03
2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED 5/03
3. TOPOGRAPHIC INFORMATION WITHIN LIMITS 4 TAYLOR WISEMAN AND TAYLOR DATED JULY 03
4. THE EXISTING NORTH WAKE SUBTITLE D LA PROJECT, COORDINATE ALL CONSTRUCTION INTERRUPTED OR ADVERSELY IMPACTED.
5. NOTIFY "NORTH CAROLINA GNE CALL" (1-800-447-7273)
6. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITY LINES, EASEMENTS, PRESERVATION, AND 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 & ENGINEER. NO ADDITIONAL PAYMENT BEYOND CONTRACT SHALL BE REQUIRED.
9. LOCATIONS, ELEVATIONS, AND DIMENSIONS (C) ACCORDING TO THE INFORMATION AVAILABLE.
10. THE CONTRACTOR SHALL REPLACE ALL SLOPE STABILIZATION, STABILIZED EARTH, CURBS, THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
11. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO PREVENT EROSION AND SEDIMENTATION AND IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING ARE TO BE MAINTAINED THROUGHOUT THE PROJECT. EGRESS AND TRAFFIC PATTERNS ON ESTABLISHED ACCESS ROADS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SWEEPING WHICH WILL BE USED BY THE CONTRACTOR AND EMPLOYEES. CONTRACTOR'S PERSONNEL SHALL BE RESPONSIBLE FOR THE CLEANUP OF THE SITE 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 FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND/OR SYSTEM COMPONENTS. SEE LANDFILL GAS SYSTEM DRAWING.
15. THE WORK AREA IS LOCATED WITHIN A LANDFILL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AIR QUALITY THROUGHOUT THE PROJECT. A QUALITY SUPERVISOR ON SITE WHO WILL DETERMINE THE AIR QUALITY MONITORING PLAN.
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 2 Report #: 125 Date: 7-27-04 Weather: .38rain low 71 high 82</p>
<p>WORK AND EQUIPMENT</p>	<p>VISITORS</p>
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p> <p>WORK COMPLETED: Item No. 4: Extensions to Existing Landfill gas Extraction System Components. Contractor continued gas line and Leachate header extensions. Item No. 5: Furnish and Install 40-mil Textured LLDPE Geomembrane. Item No. 7: Excavate, Transport and Install Protective Soil Layer Material. Contractor continued on protective cover in phases II and III. Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area. Contractor screening top soil and mixing with leaves located on site. Contractor continued placement of Topsoil in Phase I through IV areas. Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor continued placing drainage rock and fabric and shaping Berms in Phase I through III Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor continuing to keep on top of erosion control measures. No problems have occurred since measures have been taken. Item No. 16: Furnish and install Permanent Seeding and Mulching. Contractors seeding and mulching sub on site seeding top portion of Phases I through Three. I have let the contractor know that there needs to be more straw in some areas were Birds, and rain have made it slender.</p>	<p>MATERIALS RECEIVED</p> <p>none</p> <p>COMMENT</p> <p>None</p> <p>CORRESPONDING DATA SHEETS</p> <p>Site sketch</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: 07-28-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 87 Lo: 72 _____ 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

(Contractor) Hours Worked: 8 Reg. 2 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	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: _____

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 continued gas line and leachate header extensions.

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

Contractor continued on protective cover in phases II and III.

Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area.

Contractor screening top soil and mixing with leaves located on site. Contractor continued placement of Topsoil in Phase I through IV areas.

Item No. 10: Furnish and Install Final Cover Swale and Berms.

Contractor continued placing drainage rock and fabric and shaping Berms in Phase I through III

Item No. 14: Cleanout Existing Sedimentation Ponds:

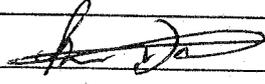
Contractor continuing to keep on top of erosion control measures. No problems have occurred since measures have been taken.

Item No. 16: Furnish and install Permanent Seeding and Mulching.

Contractors seeding and mulching sub on site seeding top portion of Phases I through Three. I have let the contractor know that there needs to be more straw in some areas were Birds, and rain have made it slender.

* still wet from yesterday, contractor got a slow start.

Attachments: Yes No

Signed 

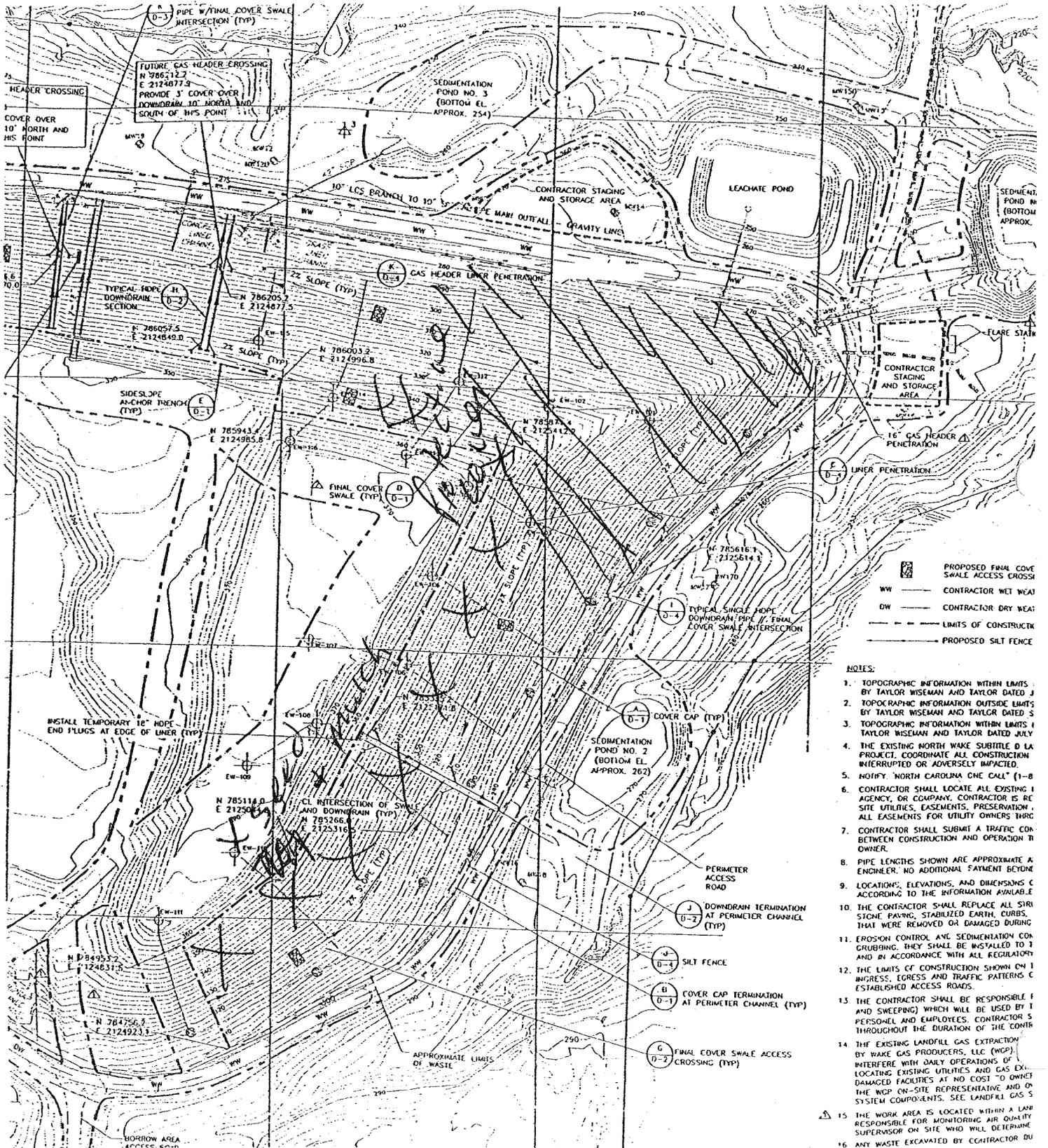
Description:

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

This report to be completed daily by each Project Representative

RPT. 126
7-28-04

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- WW CONTRACTOR WET WEIR
- DW CONTRACTOR DRY WEIR
- LIMITS OF CONSTRUCTION
- PROPOSED SALT 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 SRI 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 SWEEPING) WHICH WILL BE USED BY I PERSONNEL AND EMPLOYEES. CONTRACTOR S THROUGHOUT THE DURATION OF THE CONTR
 14. THE EXISTING LANDFILL GAS EXTRACTION BY WAKE GAS PRODUCERS, LLC (WGP) INTERFERE WITH DAILY OPERATIONS OF LOCATING EXISTING UTILITIES AND GAS EX- DAMAGED FACILITIES AT NO COST TO OWNER THE WGP ON-SITE REPRESENTATIVE AND O SYSTEM COMPONENTS. SEE LANDFILL GAS S
 15. THE WORK AREA IS LOCATED WITHIN A LAMP RESPONSIBLE FOR MONITORING AIR QUALITY SUPERVISOR ON SITE WHO WILL DETERMINE
 16. ANY WASTE EXCAVATED BY CONTRACTOR DU

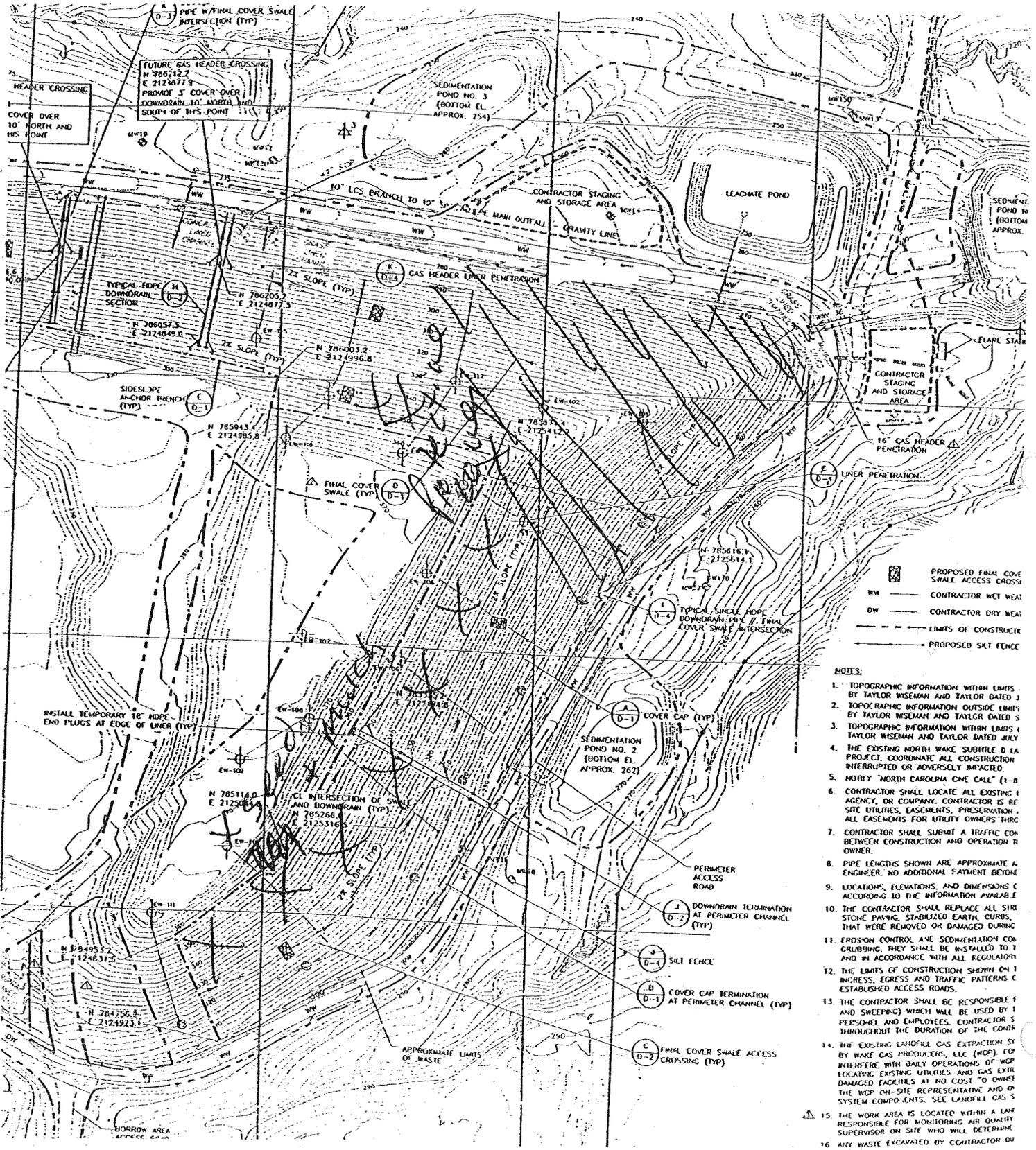


<p align="center">CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>		Sheet No.: 1 of 2 Report #: 126 Date: 7-28-04 Weather: trace low 72 high 87
<p align="center">WORK AND EQUIPMENT</p>		<p align="center">VISITORS</p>
<p>EQUIPMENT: CAT D6M, CAT D4C, Volvo end dumps, 563 smooth drum roller</p>		<p align="center">MATERIALS RECEIVED</p>
<p>WORK COMPLETED: Item No. 4: Extensions to Existing Landfill gas Extraction System Components. Contractor continued gas line and Leachate header extensions. Item No. 5: Furnish and Install 40-mil Textured LLDPE Geomembrane. Item No. 7: Excavate, Transport and Install Protective Soil Layer Material. Contractor continued on protective cover in phases II and III. Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area. Contractor screening top soil and mixing with leaves located on site. Contractor continued placement of Topsoil in Phase I through IV areas. Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor continued placing drainage rock and fabric and shaping Berms in Phase I through III Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor continuing to keep on top of erosion control measures. No problems have occurred since measures have been taken. Item No. 16: Furnish and install Permanent Seeding and Mulching. Contractors seeding and mulching sub on site seeding top portion of Phases I through Three. I have let the contractor know that there needs to be more straw in some areas were Birds, and rain have made it slender.</p>		<p align="center">COMMENT</p> <p align="center">None</p>
<p>RESULTS: none</p>		<p align="center">CORRESPONDING DATA SHEETS</p> <p align="center">Site sketch</p>
<p>BY: </p>		<p align="center">APPROVED BY: </p>
<p align="center">CGA INSPECTOR</p>		<p align="center">CERTIFYING ENGINEER</p>
<p align="center">PROJECT ENGINEER</p>		
<p>REVIEWED BY:</p>		

Rpt. 126

7-28-04

Site Sketch



- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED 3
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED 5
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED 1
 4. THE EXISTING NORTH WAKE SUBMILE 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 BE SITE UTILITIES, EASEMENTS, PRESERVATION, ALL EASEMENTS FOR UTILITY OWNERS THRU
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CON BETWEEN CONSTRUCTION AND OPERATION R OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE A ENGINEER, NO ADDITIONAL FATMENT BEYOND
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS C ACCORDING TO THE INFORMATION AVAILABLE
 10. THE CONTRACTOR SHALL REPLACE ALL SIRM STONE PAVING, STABILIZED EARTH, CURBS, THAT WERE REMOVED OR DAMAGED DURING
 11. EROSION CONTROL AND SEDIMENTATION CON CRUBBING, THEY SHALL BE INSTALLED TO 1 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 F AND SWEEPING) WHICH WILL BE USED BY 1 PERSONNEL AND EMPLOYEES. CONTRACTOR S THROUGHOUT THE DURATION OF THE CONTR
 14. THE EXISTING LANDFILL GAS EXTRACTION SY BY WAKE GAS PRODUCERS, LLC (WGP). COF INTERFERE WITH DAILY OPERATIONS OF WGP LOCATING EXISTING UTILITIES AND GAS EXTR DAMAGED FACILITIES AND COST TO OWNER THE WGP ONE-SITE REPRESENTATIVE AND O SYSTEM COMPONENTS. SEE LANDFILL GAS S
 15. THE WORK AREA IS LOCATED WITHIN A LAR RESPONSIBLE FOR MONITORING AIR QUALITY SUPERVISOR ON SITE WHO WILL DETERMINE
 16. ANY WASTE EXCAVATED BY CONTRACTOR DU

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-29-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 87 Lo: 70 _____ Clear x Partly _____ Cloudy 2.82 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

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

(Contractor) Hours Worked: 8 Reg. _____ OT Shift: 7 to 4

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	*		*

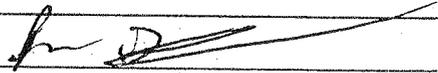
*Designates subcontractors

Activity and Location: went home due to rain

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.)

No work 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 (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>		Sheet No. : 1 of 1 Report #: 127 Date: 7-29-04 Weather: 2.82 rain low 70 high 87
<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: No work due to rain</p>		<p>none</p>
<p>RESULTS: none</p>		<p>COMMENT</p>
<p>BY: </p>		<p>None</p>
<p align="center">CQA INSPECTOR</p>		<p>CORRESPONDING DATA SHEETS</p>
<p>REVIEWED BY:</p>		<p>Site sketch</p>
<p align="center">PROJECT ENGINEER</p>		<p>APPROVED BY: <i>R.E. Bussie</i></p>
<p align="center">PROJECT ENGINEER</p>		<p>CERTIFYING ENGINEER</p>

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-30-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 89 Lo: 70 _____ Clear x Partly _____ Cloudy .12 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

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

(Contractor) Hours Worked: 8 Reg. _____ OT Shift: 7 to 4

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: went home due to rain

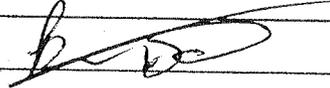
Defective work noted today to be corrected later: None

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.)

No work due to rain

Attachments: Yes No

Signed

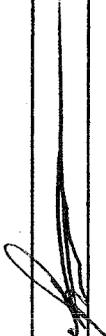
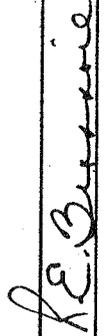


Description:

(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 1 Report #: 128 Date: 7-30-04 Weather: .12 rain low 70 high 89
WORK AND EQUIPMENT		VISITORS
EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller		MATERIALS RECEIVED
WORK COMPLETED: No work due to rain		none
RESULTS: none		COMMENT
		None
		CORRESPONDING DATA SHEETS
		Site sketch
BY: 	APPROVED BY: 	
	CQA INSPECTOR	CERTIFYING ENGINEER
REVIEWED BY:		
	PROJECT ENGINEER	

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 07-31-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi _____ Lo: _____ Clear x 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				
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

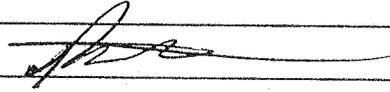
Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Not a scheduled work day

Attachments: Yes

No x

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 #: 129 Date: 7-31-04 Weather: rain .05 low 71 high 89
<p align="center">WORK AND EQUIPMENT</p>		<p>VISITORS</p>
<p>EQUIPMENT:</p>		<p>MATERIALS RECEIVED</p>
<p>WORK COMPLETED:</p> <p>Contractor not working today</p>		<p>none</p>
<p>RESULTS:</p> <p>None</p>		<p>None</p>
<p>BY: </p>		<p>COMMENT</p>
<p>REVIEWED BY:</p>		<p>CORRESPONDING DATA SHEETS</p>
<p>COA INSPECTOR</p>		<p>Site sketch</p>
<p>PROJECT ENGINEER</p>		<p>APPROVED BY: </p>
<p>PROJECT ENGINEER</p>		<p>CERTIFYING ENGINEER</p>



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-01-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 89 Lo: 70 _____ Clear x Partly _____ Cloudy .12 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				
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		*		*

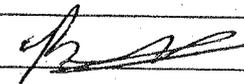
*Designates subcontractors

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 (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT		Sheet No. : 1 of 1 Report #: 130 Date: 8-01-04 Weather: rain .06 low 74 high 89
WORK AND EQUIPMENT		VISITORS
EQUIPMENT:		MATERIALS RECEIVED
WORK COMPLETED: Contractor not working today		none
RESULTS: None		COMMENT None
BY: 		CORRESPONDING DATA SHEETS Site sketch
	CQA INSPECTOR	APPROVED BY: 
REVIEWED BY:	PROJECT ENGINEER	CERTIFYING ENGINEER

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-02-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 85 Lo: 73 _____ Clear Partly _____ Cloudy 48 Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

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

(Contractor) Hours Worked: 8 Reg. _____ OT Shift: 7 to 4

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	*		*

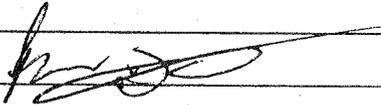
*Designates subcontractors

Activity and Location: went home due to rain

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.)

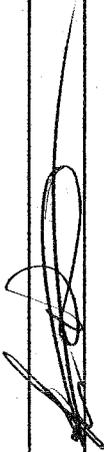
No work due to rain

Attachments: Yes No Signed 

Description: _____

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

This report to be completed daily by each Project Representative

<p 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>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p> <p>WORK COMPLETED: <u>No work due to rain</u></p> <p>RESULTS: none</p> <p>BY: </p> <p>REVIEWED BY:</p>	<p>Sheet No. : 1 of 1 Report #: 131 Date: 8-02-04 Weather: .48 rain low 73 high 85</p> <p style="text-align: center;">VISITORS</p> <p style="text-align: center;">MATERIALS RECEIVED</p> <p>none</p> <p style="text-align: center;">COMMENT</p> <p>None</p> <p style="text-align: center;">CORRESPONDING DATA SHEETS</p> <p>none</p> <p>APPROVED BY: </p> <p style="text-align: center;">CQA INSPECTOR</p> <p style="text-align: center;">PROJECT ENGINEER</p> <p style="text-align: center;">CERTIFYING ENGINEER</p>
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DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-03-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 85 Lo: 73 _____ Clear Partly _____ Cloudy 48 Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: Thalle Construction Co, Hallaton Inc.

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

(Contractor) Hours Worked: 8 Reg. _____ OT Shift: 7 to 4

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: _____

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 continued gas line and leachate header extensions and boots.

Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area.

Contractor screening top soil located on site.

*Site extremely wet.

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 1 Report #: 132 Date: 8-03-04 Weather: .48 rain low 73 high 85</p>
WORK AND EQUIPMENT	VISITORS
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	MATERIALS RECEIVED
<p>WORK COMPLETED: Item No. 4: Extensions to Existing Landfill gas Extraction System Components. Contractor continued gas line and leachate header extensions and boots.</p>	none
<p>Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area. Contractor screening top soil located on site. *Site extremely wet.</p>	COMMENT
<p>RESULTS: none</p>	CORRESPONDING DATA SHEETS
<p>BY: </p>	none
CQA INSPECTOR	APPROVED BY: R. E. Duvall
PROJECT ENGINEER	CERTIFYING ENGINEER
REVIEWED BY:	



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-04-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 91 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
 (Contractor) Hours Worked: 8 Reg. 2 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	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: _____

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 continued gas line and leachate header extensions and boots.

Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area.

Contractor screening top soil located on site. Screener down in AM.

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

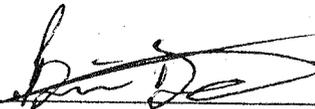
Contractor continued on protective cover in Phases V.

*Site extremely wet.

Attachments: Yes

No

Signed

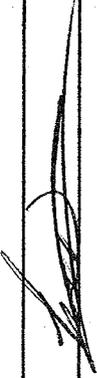


Description: _____

(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 1 Report #: 133 Date: 8-0404 Weather: PC low 70 high 91
WORK AND EQUIPMENT		VISITORS
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>		MATERIALS RECEIVED
<p>WORK COMPLETED: Item No. 4: Extensions to Existing Landfill gas Extraction System Components. Contractor continued gas line and leachate header extensions and boots. Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area. Contractor screening top soil located on site. Screener down in AM. Item No. 7: Excavate, Transport and Install Protective Soil Layer Material. Contractor continued on protective cover in Phases V. *Site extremely wet.</p>		none COMMENT None CORRESPONDING DATA SHEETS none
<p>RESULTS: none</p>		
<p>BY: </p>		<p>APPROVED BY: </p>
<p>REVIEWED BY:</p>		<p>CERTIFYING ENGINEER</p>
<p>PROJECT ENGINEER</p>		



DAILY CONSTRUCTION PROGRESS REPORT

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

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 89 Lo: 67 _____ Clear Partly _____ Cloudy .67 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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: _____

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.

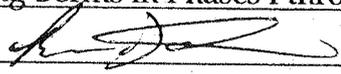
Contractor continued gas line and leachate header extensions and boots.

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

Contractor continued on protective cover in Phases IV.

Item No. 10: Furnish and Install Final Cover Swale and Berms.

Contractor continued placing drainage rock and fabric and shaping Berms in Phases I through III.

Attachments: Yes No Signed 

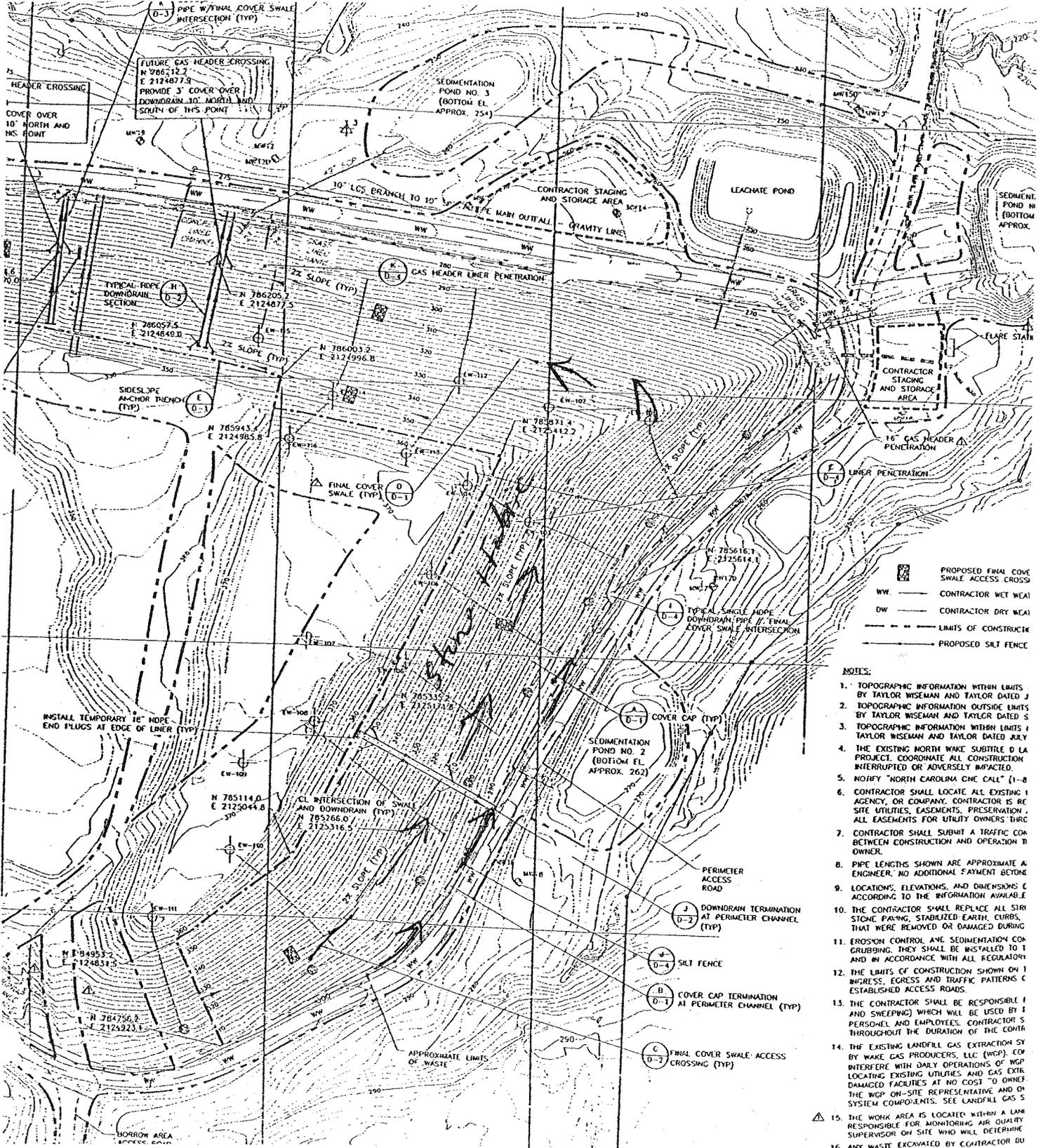
Description: _____

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

This report to be completed daily by each Project Representative

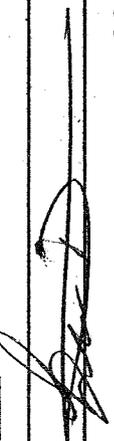
RPT-134
8-5-4

Site Sketch



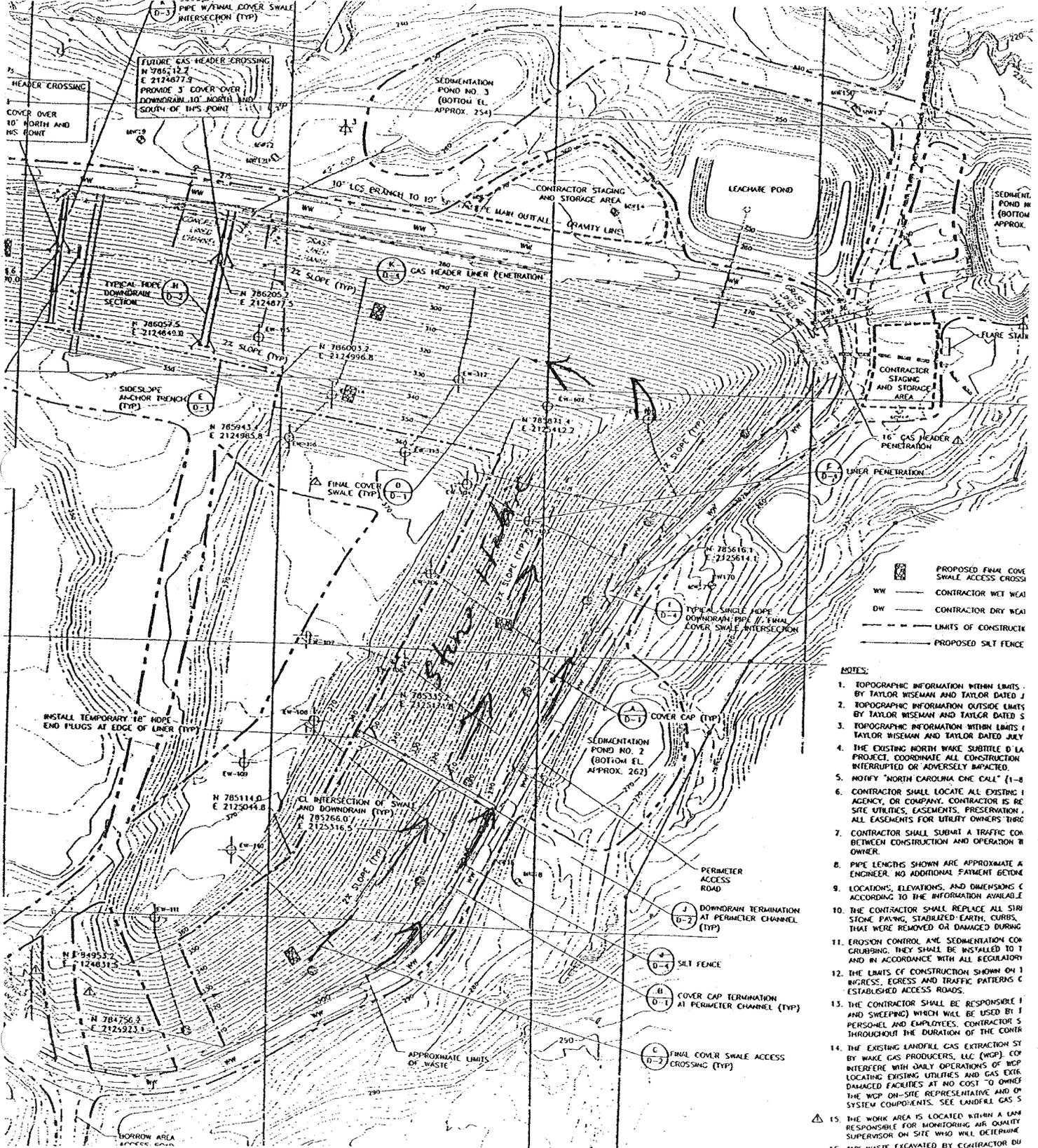
- PROPOSED FINAL COVER SWALE ACCESS CROSS
- CONTRACTOR WET WEIR
- CONTRACTOR DRY WEIR
- LIMITS OF CONSTRUCTION
- PROPOSED SILT FENCE

- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED 3
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED 5
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS 1 TAYLOR WISEMAN AND TAYLOR DATED 1971
 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 THRU
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC COA BETWEEN CONSTRUCTION AND OPERATION TO OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE A. LOCATION; NO ADDITIONAL PAYMENT BEFORE
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS C ACCORDING TO THE INFORMATION AVAILABLE
 10. THE CONTRACTOR SHALL REPLACE ALL SITI STONE PAVING, STABILIZED EARTH, CURBS, THAT WERE REMOVED OR DAMAGED DURING
 11. EROSION CONTROL AND SEDIMENTATION COORDINATION. THEY SHALL BE INSTALLED TO 1 AND IN ACCORDANCE WITH ALL REGULATORY
 12. THE LIMITS OF CONSTRUCTION SHOWN ON 1 INGRESS, EGRESS AND TRAFFIC PATTERNS C ESTABLISHED ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE I AND SWEEPING) WHICH WILL BE USED BY I PERSONNEL AND EMPLOYEES. CONTRACTOR S THROUGHOUT THE DURATION OF THE CONTR
 14. THE EXISTING LANDFILL GAS EXTRACTION BY WAKE GAS PRODUCERS, LLC (WGP). COO INTERFERE WITH DAILY OPERATIONS OF WGP LOCATING EXISTING UTILITIES AND GAS EXIT DAMAGED FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND O/S SYSTEM COMPONENTS. SEE LANDFILL GAS S
 15. THE WORK AREA IS LOCATED WITHIN A LAMB RESPONSIBLE FOR MONITORING AIR QUALITY SUPERVISOR ON SITE WHO WILL DETERMINE
 16. ANY WASTE EXCAVATED BY CONTRACTOR DU

<p style="text-align: center;">CAMP DRESSER & MCKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> 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, 563 smooth drum roller</p> <p>WORK COMPLETED: Item No. 4: Extensions to Existing Landfill gas Extraction System Components. Contractor continued gas line and leachate header extensions and boots.</p> <p>Item No. 7: Excavate, Transport and Install Protective Soil Layer Material. Contractor continued on protective cover in Phases IV.</p> <p>Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor continued placing drainage rock and fabric and shaping Berms in Phases I through III.</p> <p>RESULTS: none</p>	<p>Sheet No.: 1 of 3 Report #: 134 Date: 8-0504 Weather: .67 rain low 67 high 89</p> <hr/> <p style="text-align: center;">VISITORS</p> <hr/> <p style="text-align: center;">MATERIALS RECEIVED</p> <p>none</p> <hr/> <p style="text-align: center;">COMMENT</p> <p>None</p> <hr/> <p style="text-align: center;">CORRESPONDING DATA SHEETS</p> <p>none</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;">PROJECT ENGINEER</p>
<p style="text-align: center;">CQA INSPECTOR</p>	<p style="text-align: center;">CERTIFYING ENGINEER</p>

KPT-134
8-5-4

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- CONTRACTOR WET WEA
- CONTRACTOR DRY WEA
- 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 (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 CO BETWEEN CONSTRUCTION AND OPERATION B 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 SIBI STONE PAVING, STABILIZED EARTH, CURBS, THAT WERE REMOVED OR DAMAGED DURING
 11. EROSION CONTROL AND SEDIMENTATION CON GRUBBING, THEY SHALL BE INSTALLED TO T 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 SWEEPING) WHICH WILL BE USED BY I PERSONNEL AND EMPLOYEES, CONTRACTOR S THROUGHOUT THE DURATION OF THE CON
 14. THE EXISTING LANDFILL GAS EXTRACTION SY BY WAKE GAS PRODUCERS, LLC (WGP), CO 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 OP SYSTEM COMPONENTS. SEE LANDFILL GAS S
 15. THE WORK AREA IS LOCATED WITHIN A LPA RESPONSIBLE FOR MONITORING AIR QUALITY SUPERVISOR ON SITE WHO WILL DETERMINE
 16. ANY WASTE EXCAVATED BY CONTRACTOR DU

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-06-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 76 Lo: 56 _____ Clear x Partly _____ Cloudy 67 Precipitation _____
 Contract Section or Division: _____
 Contractor and Subcontractors: _____

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

*Indicates 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. 4: Extensions to Existing Landfill gas Extraction System Components.

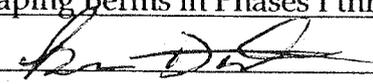
Contractor continued gas line and leachate header extensions and boots.

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

Contractor continued on protective cover in Phases IV.

Item No. 10: Furnish and Install Final Cover Swale and Berms.

Contractor continued placing drainage rock and fabric and shaping Berms in Phases I through III.

Attachments: Yes No Signed 

Description: _____

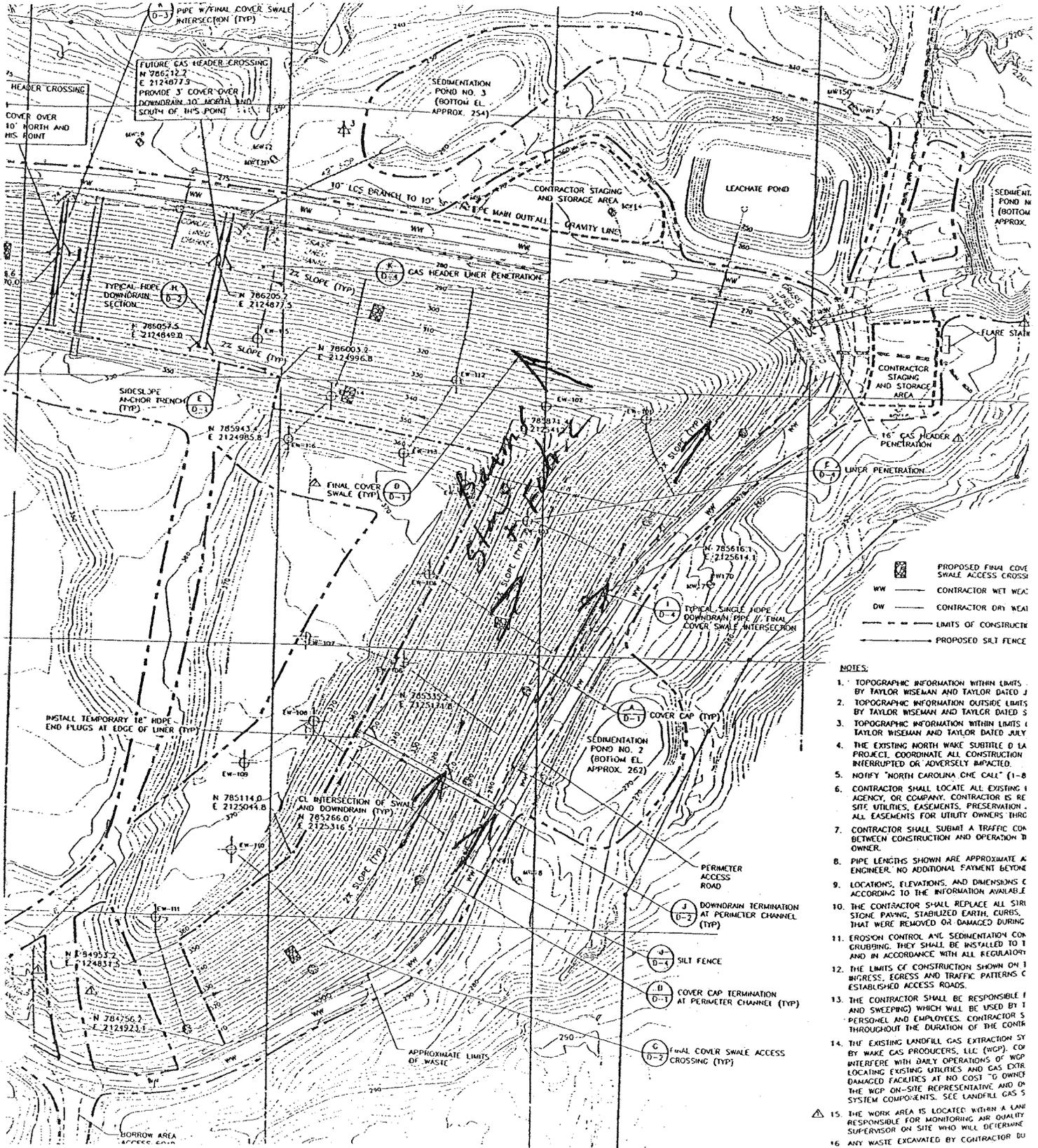
(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

RPL-135

7-6-4

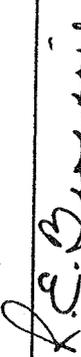
Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSS
- CONTRACTOR WET WEAL
- CONTRACTOR DRY WEAL
- LIMITS OF CONSTRUCTION
- PROPOSED SRT 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 J
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS J 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 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 STIR STONE PAVING, STABILIZED EARTH CURBS, THAT WERE REMOVED OR DAMAGED DURING
 11. EROSION CONTROL AND SEDIMENTATION CON GRUBBING. THEY SHALL BE INSTALLED TO T AND IN ACCORDANCE WITH ALL REGULATORY
 12. THE LIMITS OF CONSTRUCTION SHOWN ON T BUSINESS, EGRESS AND TRAFFIC PATTERNS C ESTABLISHED ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE I AND SWEEPING) WHICH WILL BE USED BY T PERSONNEL AND EMPLOYEES. CONTRACTOR S THROUGHOUT THE DURATION OF THE CONTA
 14. THE EXISTING LANDFILL GAS EXTRACTION BY WAKE GAS PRODUCERS, LLC (WGP). COP 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 O SYSTEM COMPONENTS. SEE LANDFILL GAS S
 15. THE WORK AREA IS LOCATED WITHIN A LAR RESPONSIBLE FOR MONITORING AIR QUALITY SUPERVISOR ON SITE WHO WILL DETERMINE
 16. ANY WASTE EXCAVATED BY CONTRACTOR BU

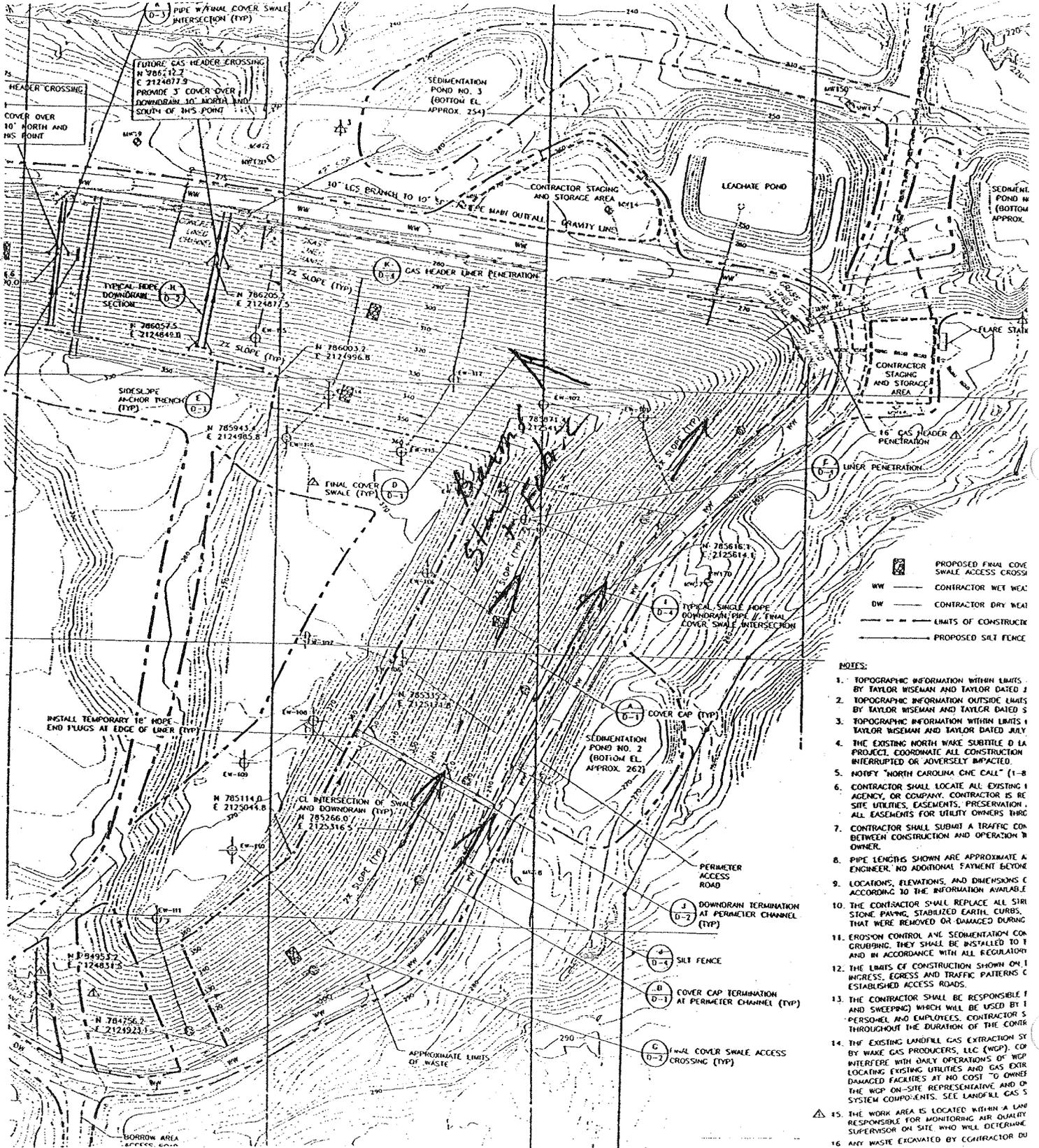


CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT		Sheet No. : 1 of 3 Report #: 135 Date: 8-0604 Weather: .67 rain low 56 high 76
WORK AND EQUIPMENT		VISITORS
EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller		MATERIALS RECEIVED
WORK COMPLETED: Item No. 4: Extensions to Existing Landfill gas Extraction System Components. Contractor continued gas line and leachate header extensions and boots.		none
Item No. 7: Excavate, Transport and Install Protective Soil Layer Material. Contractor continued on protective cover in Phases IV.		COMMENT
Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor continued placing drainage rock and fabric and shaping Berms in Phases I through III.		None
RESULTS: none		CORRESPONDING DATA SHEETS
BY: 		APPROVED BY: 
CQA INSPECTOR		CERTIFYING ENGINEER
REVIEWED BY:		
PROJECT ENGINEER		

RPT-135

9-6-4

Site Sketch





DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-07-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 89 Lo: 70 _____ Clear x Partly _____ Cloudy .12 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				
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		*		*

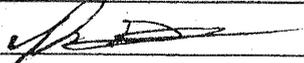
*Designates subcontractors

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 Report #: 136 Date: 8-07-04 Weather: PC low 53 high 80
WORK AND EQUIPMENT		VISITORS
EQUIPMENT:		MATERIALS RECEIVED
WORK COMPLETED: Contractor not working today		none
RESULTS: None		COMMENT None
BY: 		CORRESPONDING DATA SHEETS Site sketch
	CQA INSPECTOR	APPROVED BY: 
REVIEWED BY:	PROJECT ENGINEER	CERTIFYING ENGINEER



DAILY CONSTRUCTION PROGRESS REPORT

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

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 89 Lo: 70 _____ Clear Partly _____ Cloudy .12 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				
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		*		*

*Denotes subcontractors

Agency and Location: _____

Defective work noted today to be corrected later: None

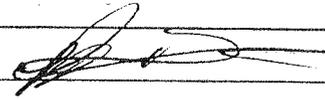
Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Not a scheduled work day _____

Attachments: Yes _____

No x

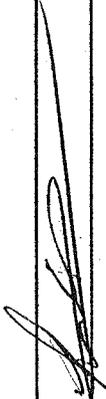
Signed _____



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 #: 137 Date: 8-08-04 Weather: PC low 57 high 83
WORK AND EQUIPMENT		VISITORS
EQUIPMENT:		MATERIALS RECEIVED
WORK COMPLETED: Contractor not working today		none
RESULTS: None		COMMENT None
BY: 		CORRESPONDING DATA SHEETS Site sketch
	CQA INSPECTOR	APPROVED BY: R.E. Brownie
REVIEWED BY:	PROJECT ENGINEER	CERTIFYING ENGINEER



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-09-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 85 Lo: 60 _____ Clear x Partly _____ Cloudy 0 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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: _____

Defective work noted today to be corrected later: None

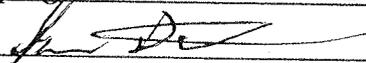
Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

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

Contractor continued on protective cover in Phases IV and V.

Item No. 10: Furnish and Install Final Cover Swale and Berms.

Contractor continued placing drainage rock and fabric and shaping Berms in Phases I through III.

Attachments: Yes No Signed 

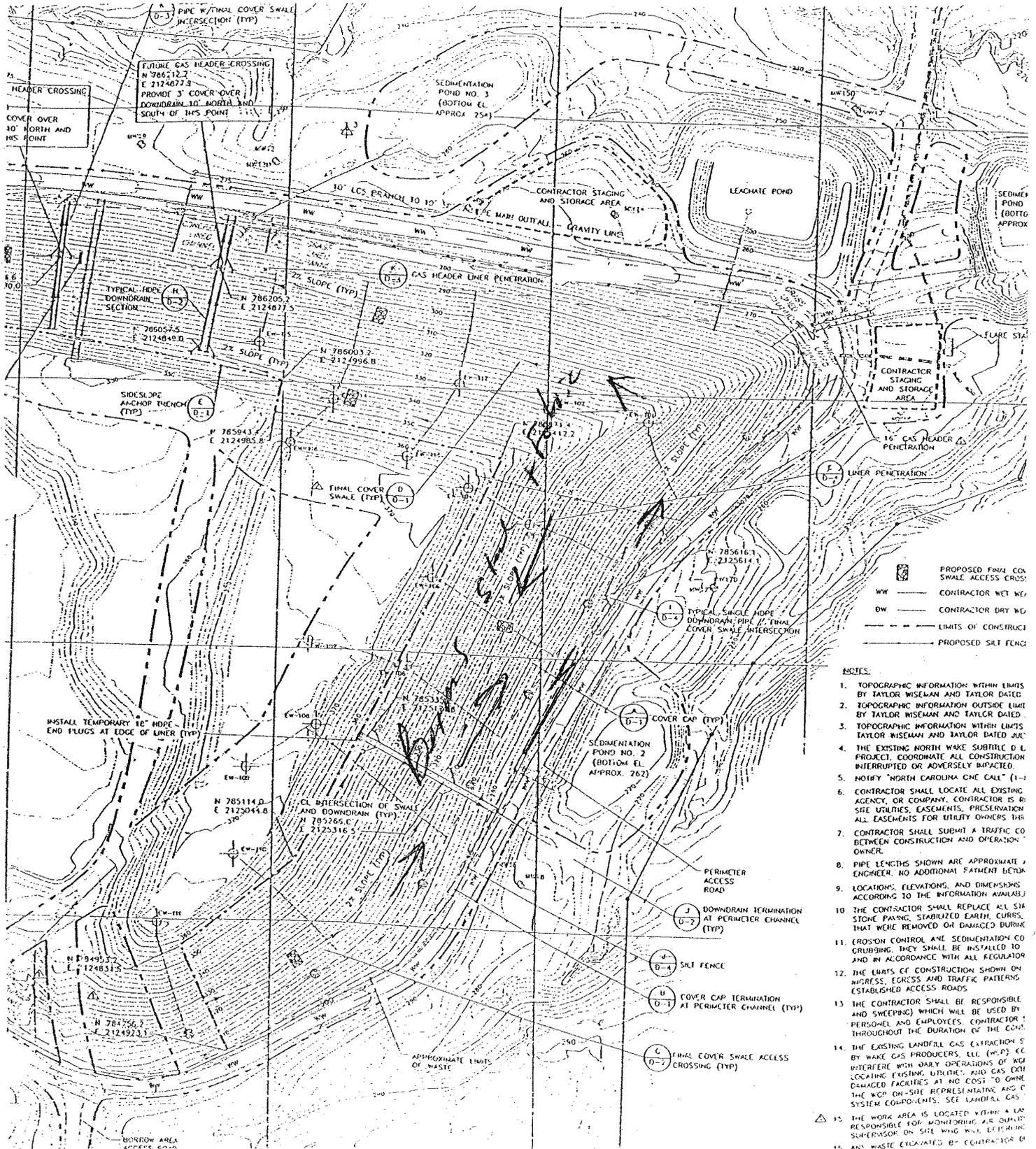
Description: _____

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

This report to be completed daily by each Project Representative

RPT-138
8-9-4

Site Sketch

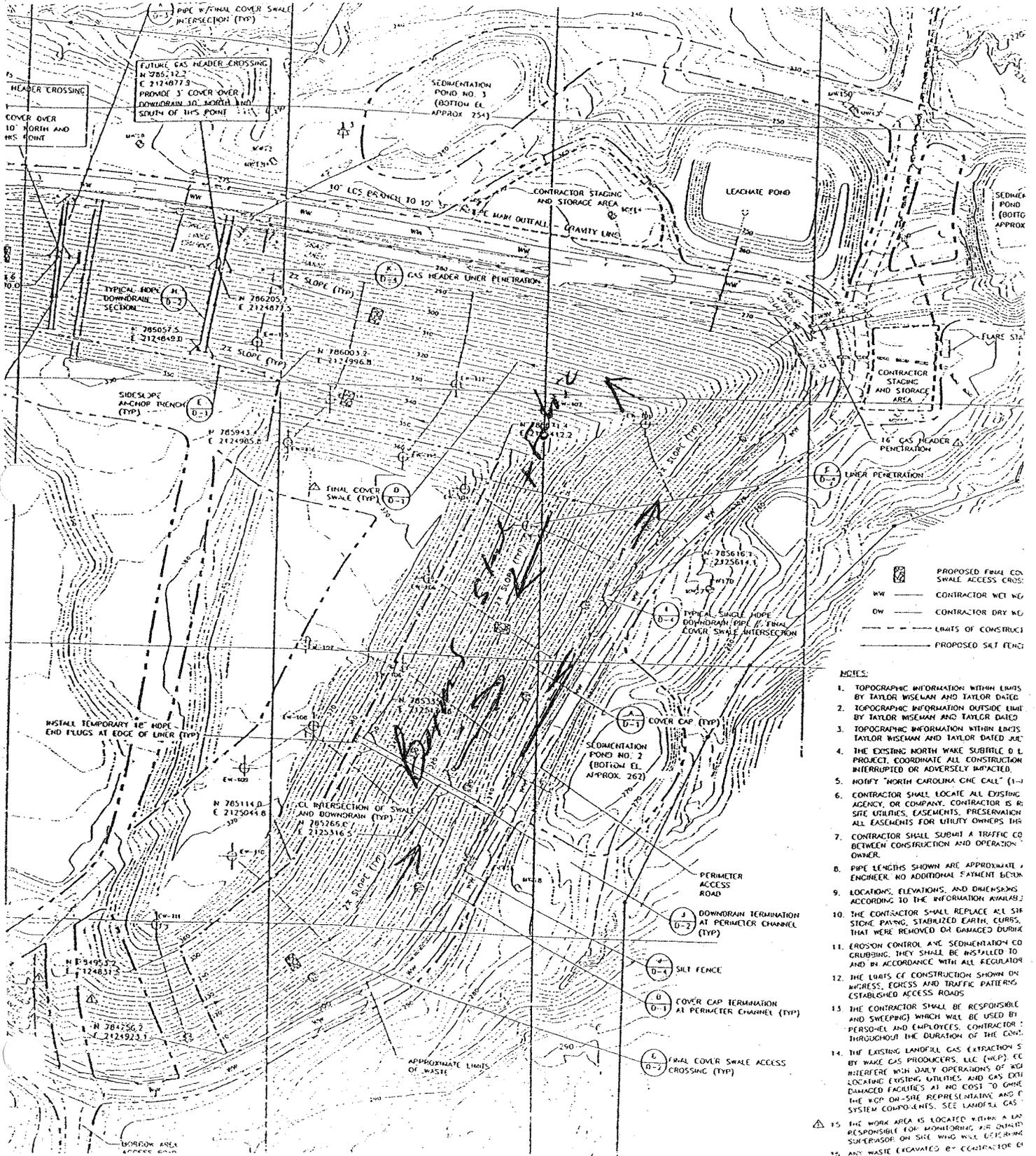


- PROPOSED FINAL COVER SWALE ACCESS CROSSING
- WW CONTRACTOR WET WELL
- DW CONTRACTOR DRY WELL
- LIMITS OF CONSTRUCTION
- PROPOSED SALT FENCE

- 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 JUL.
 4. THE EXISTING NORTH WAKE SUBTITLE D L PROJECT. COORDINATE ALL CONSTRUCTION INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-1).
 6. CONTRACTOR SHALL LOCATE ALL EXISTING AGENCY OR COMPANY. CONTRACTOR IS IN SITE UTILITIES, EASEMENTS, PRESERVATION ALL EASEMENTS FOR UTILITY OWNERS THE.
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CO BETWEEN CONSTRUCTION AND OPERATION OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE ENGINEER. NO ADDITIONAL PAYMENT BEING.
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS ACCORDING TO THE INFORMATION AVAILABLE.
 10. THE CONTRACTOR SHALL REPLACE ALL SIX STONE PAVING, STABILIZED EARTH, CURBS, THAT WERE REMOVED OR DAMAGED DURING.
 11. EROSION CONTROL AND SEDIMENTATION CONTROL SHALL BE INSTALLED TO AND IN ACCORDANCE WITH ALL REGULATION.
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING 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 CONSTRUCTION.
 14. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM OPERATED BY WAKE GAS PRODUCERS, LLC (WGP) CC INTERFERE WITH DAILY OPERATIONS OF WGP LOCATING EXISTING UTILITIES, AND GAS EXTRACTOR DAMAGED FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND WGP SYSTEM COMPONENTS. SEE LANDFILL GAS EXTRACTION SYSTEM DRAWING.
 15. THE WORK AREA IS LOCATED WITHIN A LAR RESPONSIBLE FOR MONITORING THE QUALITY SUPERVISOR ON-SITE WHO WILL BE RESPONSIBLE FOR ANY WASTE EXCAVATED BY CONTRACTOR OR

Rft-138
8-9-4

Site Sketch



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

- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED [REDACTED]
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED [REDACTED]
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS TAYLOR WISEMAN AND TAYLOR DATED JUL [REDACTED]
 4. THE EXISTING NORTH WAKE SUBTITLE D L 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 AGENCY, OR COMPANY. CONTRACTOR IS RESPONSIBLE FOR 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.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE. ENGINEER HAS NO ADDITIONAL PAYMENT BEYOND THIS.
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS ACCORDING TO THE INFORMATION AVAILABLE.
 10. THE CONTRACTOR SHALL REPLACE ALL SITE STONE PAVING, STABILIZED EARTH CURBS, THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
 11. EROSION CONTROL AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO AND IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING ARE SUBJECT TO CHANGE. CONTRACTOR SHALL MAINTAIN ACCESS ROADS ESTABLISHED ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE AND SWEEPING) WHICH WILL BE USED BY PERSONNEL AND EMPLOYEES. CONTRACTOR SHALL MAINTAIN ACCESS THROUGHOUT THE DURATION OF THE PROJECT.
 14. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM BY WAKE GAS PRODUCERS, LLC (WGP) SHALL BE MAINTAINED WITH DAILY OPERATIONS OF WGP. CONTRACTOR SHALL LOCATE EXISTING UTILITIES AND GAS EXTRACTION FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND WGP SYSTEM COMPONENTS. SEE LANDFILL GAS EXTRACTION SYSTEM DRAWING.
 15. THE WORK AREA IS LOCATED WITHIN A LAD RESPONSIBLE FOR MONITORING AIR QUALITY SUPERVISOR ON SITE WHO WILL DETERMINE WHEN TO STOP WORK.
 16. ANY WASTE EXCAVATED BY CONTRACTOR OR



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-10-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 86 Lo: 66 _____ Clear x Partly _____ Cloudy 0 Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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

City 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. 7: Excavate, Transport and Install Protective Soil Layer Material.

Contractor continued on protective cover in Phases V.

Item No. 10: Furnish and Install Final Cover Swale and Berms.

Contractor continued placing drainage rock and fabric and shaping Berms in Phases IV.

Breaking down screener to be moved to next job site.

Attachments: Yes No Signed 

Description: _____

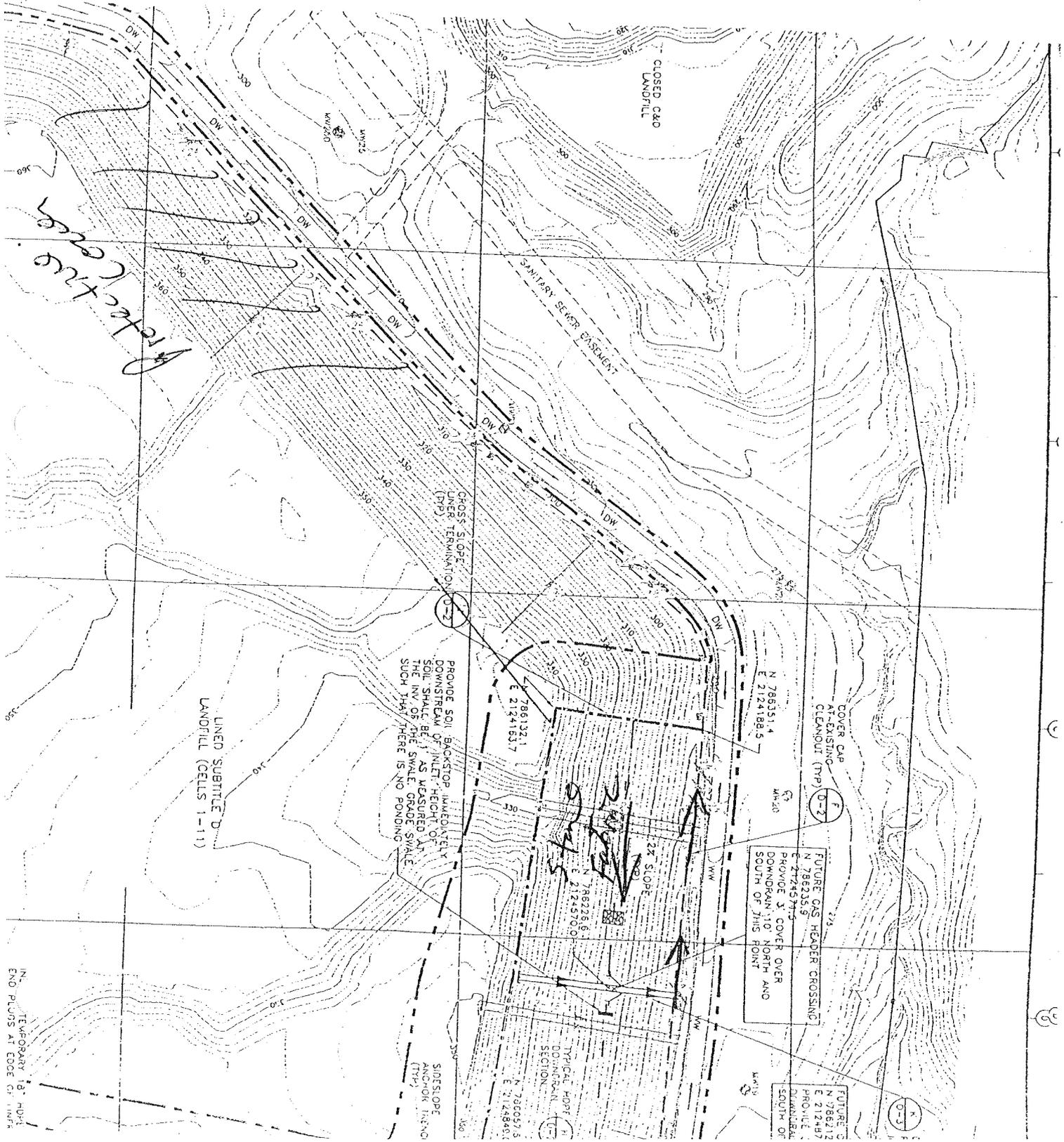
(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

RPT 139

8-10-4

Site Sketch



CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT		Sheet No. : 1 of 2 Report #: 139 Date: 8-10-04 Weather: PC low 66 high 86
WORK AND EQUIPMENT		VISITORS
EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller		MATERIALS RECEIVED
WORK COMPLETED: Item No. 7: Excavate, Transport and Install Protective Soil Layer Material. Contractor continued on protective cover in Phases IV and V. Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor continued placing drainage rock and fabric and shaping Berms in Phases I through III.		none COMMENT None CORRESPONDING DATA SHEETS
RESULTS: none		Site Sketch
BY: 	CQA INSPECTOR	APPROVED BY: 
REVIEWED BY:	PROJECT ENGINEER	CERTIFYING ENGINEER



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-11-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 88 Lo: 67 _____ Clear x Partly _____ Cloudy .0 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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: _____

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 Material.

Contractor continued on protective cover in Phases IV second lift.

Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area.

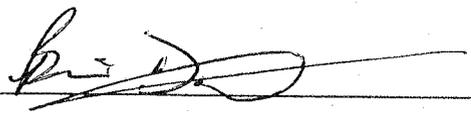
Contractor screening top soil located on site. Contractor continued placement of Topsoil in Phases III.

Item No. 10: Furnish and Install Final Cover Swale and Berms.

Contractor continued placing drainage rock and fabric and shaping Berms in Phases III.

Moved screener off site.

Attachments: Yes No

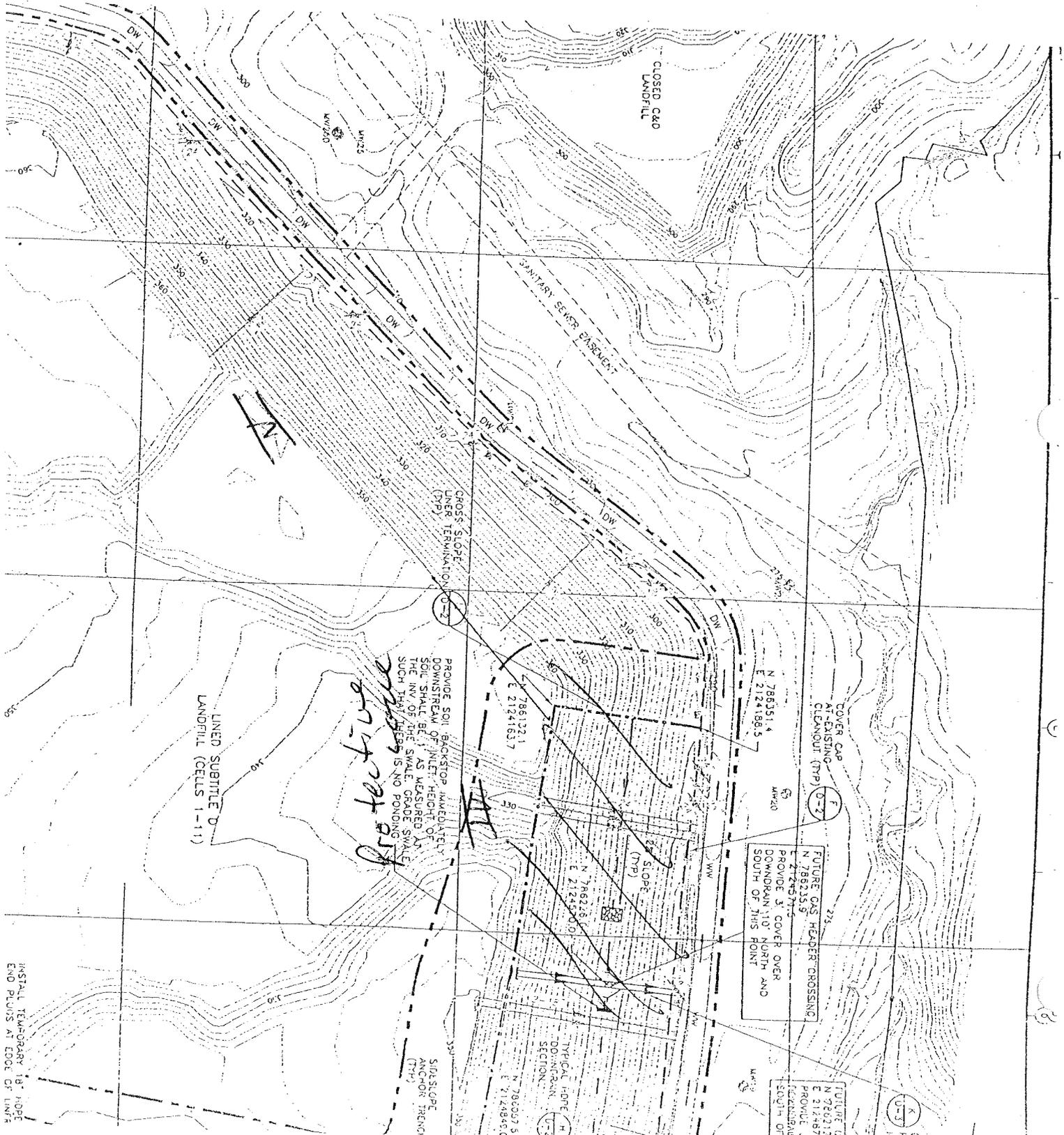
Signed 

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

This report to be completed daily by each Project Representative

RPT 140
8-11-4

Site Sketch



INSTALL TEMPORARY 18" HOPE
END PLUGS AT EDGE OF UNIT

LINED SUBTILE D
LANDFILL (CELLS 1-11)

Protective PROTECTIVE

GROSS SLOPE
LINE TERMINATION (TTP)

PROVIDE SOIL BACKSTOP IMMEDIATELY
DOWNSTREAM OF INLET. HEIGHT OF
SOIL SHALL BE 1' AS MEASURED IN
THE INV. OF THE SWALE. GRADE SWALE
SUCH THAT THERE IS NO PONDING

N 786132.1
E 2124163.7

N 786235.2
E 2124400.0

N 786351.4
E 2124186.5

FUTURE GAS HEADER CROSSING
PROVIDE 3' COVER OVER
DOWNDRAIN 10' NORTH AND
SOUTH OF THIS POINT

COVER CAP
AT EXISTING
CLEANOUT (TTP) 0-2

FUTURE T
N 786321.1
E 2124187
PROVIDE
TYPICAL SECTION
SOUTH OF

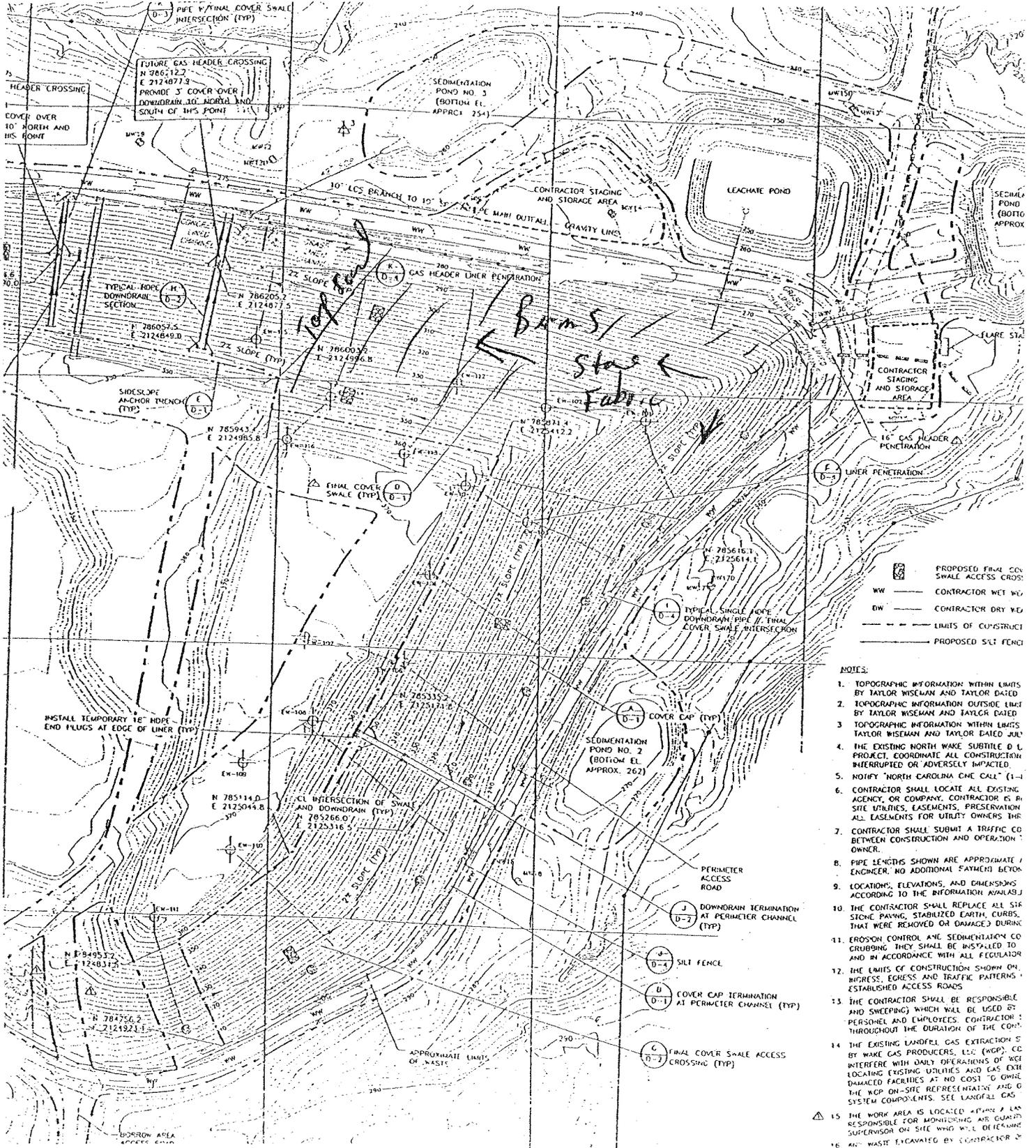
TYPICAL HOPE
DOWNDRAIN
SECTION

N 786357.5
E 2124845.0

087-140

8-11-4

Site Sketch

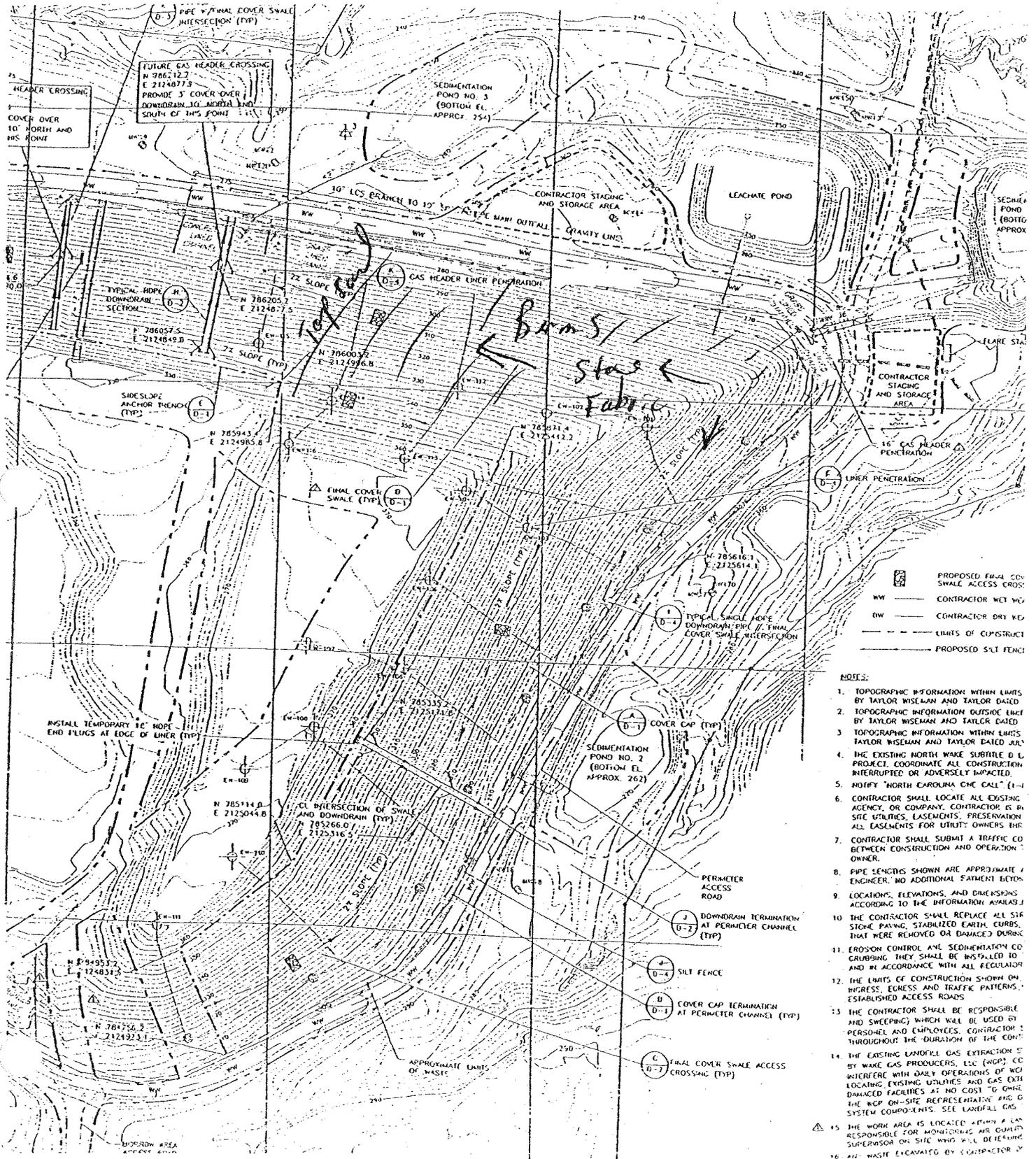




<p align="center">CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>	<p>Sheet No. : 1 of 3 Report #: 140 Date: 8-11-04 Weather: PC low 67 high 88</p>
<p align="center">WORK AND EQUIPMENT</p>	<p align="center">VISITORS</p>
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p> <p>WORK COMPLETED: Item No. 7: Excavate, Transport and Install Protective Soil Layer Material. Contractor continued on protective cover in Phases IV second lift. Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area. Contractor screening top soil located on site. Contractor continued placement of Topsoil in Phases III. Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor continued placing drainage rock and fabric and shaping Berms in Phases III. Moved screener off site.</p>	<p>MATERIALS RECEIVED</p> <p>none</p> <p>COMMENT</p> <p>None</p> <p>CORRESPONDING DATA SHEETS</p> <p>Site Sketch</p>
<p>RESULTS: none</p>	<p>APPROVED BY: <i>R.E. Burrows</i></p>
<p>BY: <i>[Signature]</i></p>	<p>CERTIFYING ENGINEER</p>
<p>REVIEWED BY:</p>	<p>CQA INSPECTOR</p>
<p>PROJECT ENGINEER</p>	

04-140
8-11-4

Site Sketch





DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-12-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 80 Lo: 68 _____ Clear x Partly _____ Cloudy 0 Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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: _____

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 Material.

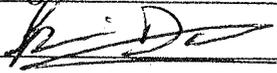
Contractor continued on protective cover in Phases IV second lift.

Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area.

Contractor screening top soil located on site. Contractor continued placement of Topsoil in Phases III.

Item No. 10: Furnish and Install Final Cover Swale and Berms.

Contractor continued placing drainage rock and fabric and shaping Berms in Phases III.

Attachments: Yes No Signed 

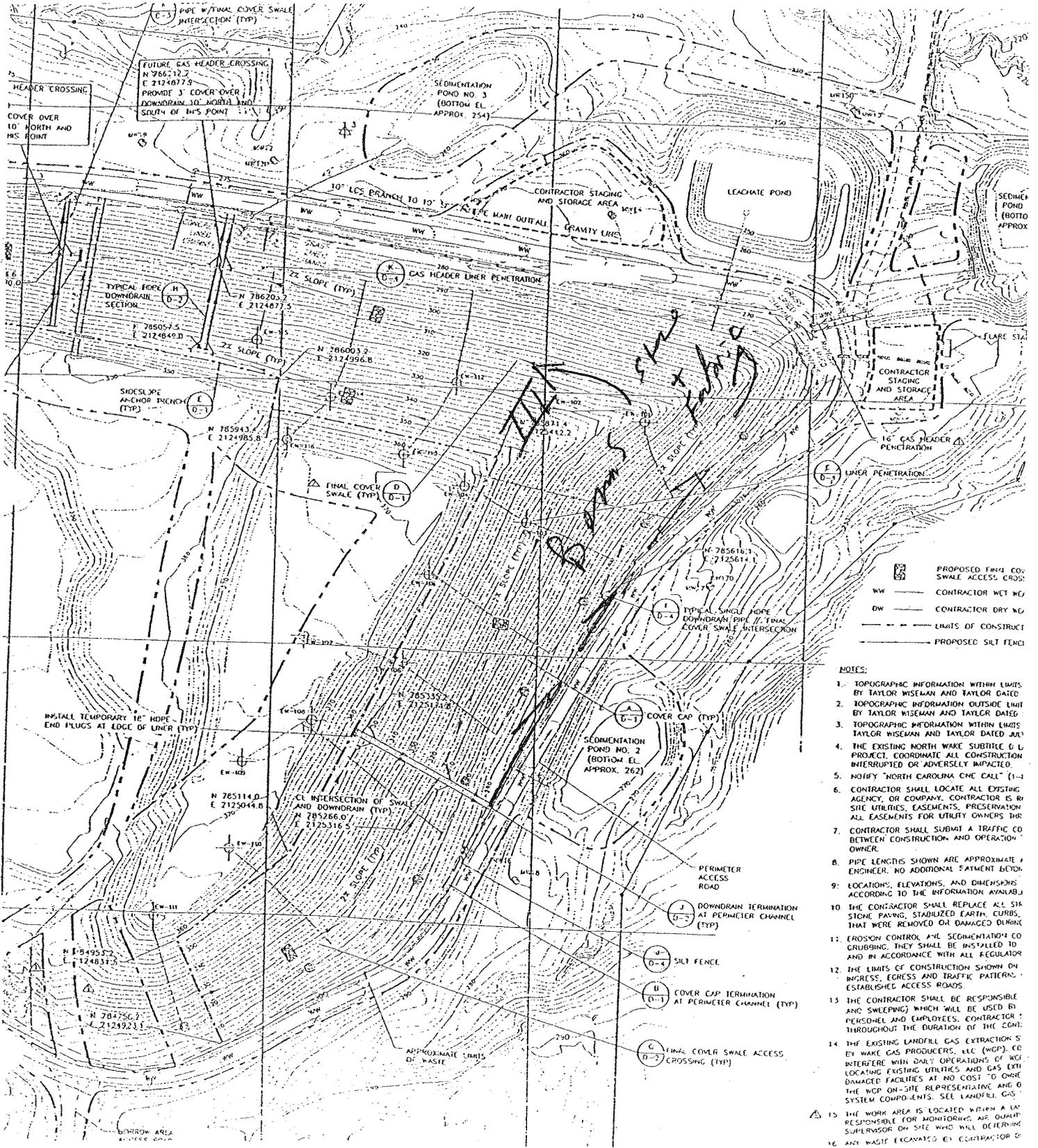
Description: _____

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

This report to be completed daily by each Project Representative

RPT-141
8-12-4

Site Sketch



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

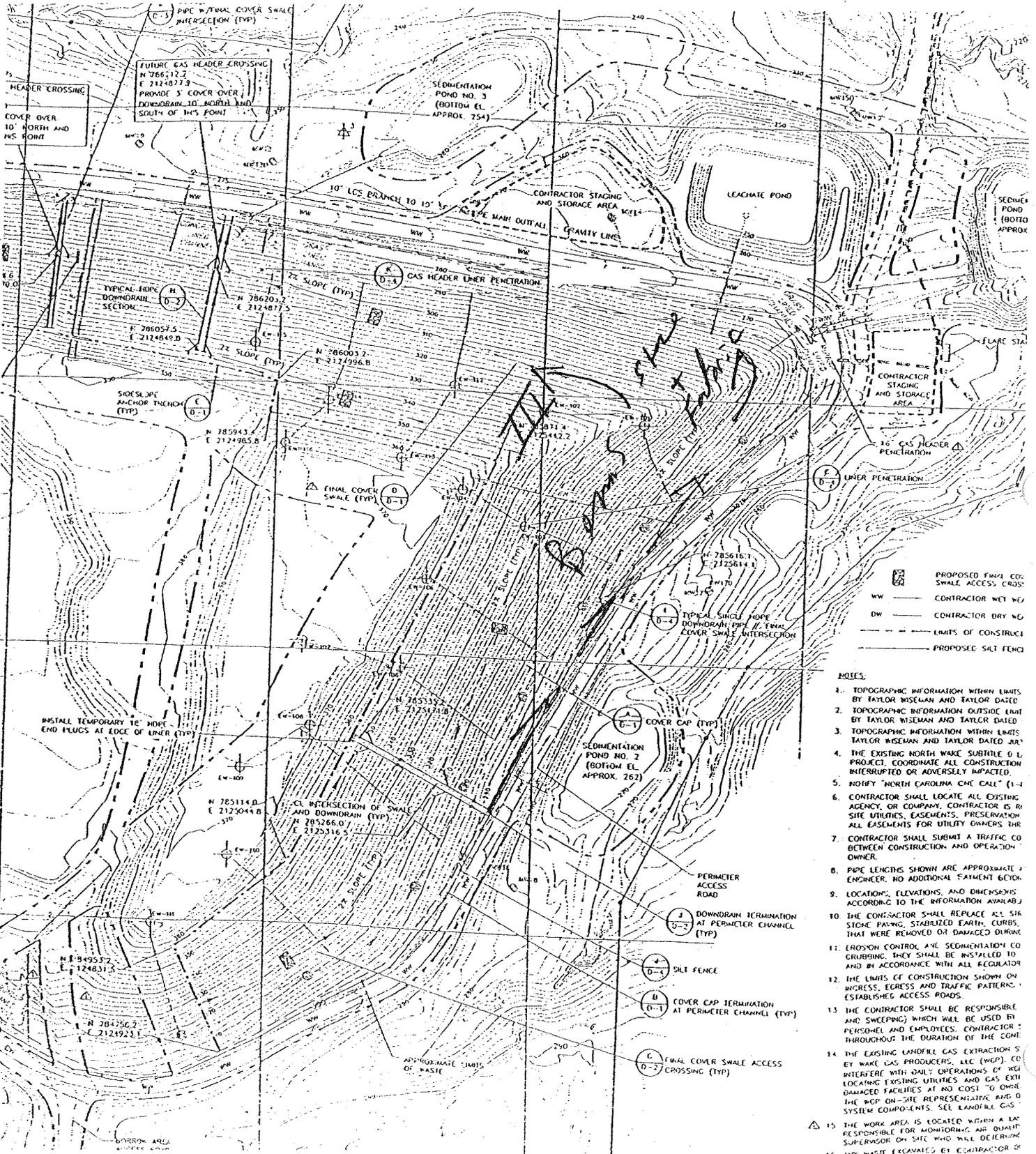
- NOTES:**
1. TOPOGRAPHIC INFORMATION WITHIN LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED [REDACTED]
 2. TOPOGRAPHIC INFORMATION OUTSIDE LIMIT BY TAYLOR WISEMAN AND TAYLOR DATED [REDACTED]
 3. TOPOGRAPHIC INFORMATION WITHIN LIMITS TAYLOR WISEMAN AND TAYLOR DATED [REDACTED]
 4. THE EXISTING NORTH WAKE SUBSTATION PROJECT, COORDINATE ALL CONSTRUCTION INTERRUPTED OR ADVERSELY IMPACTED.
 5. NOTIFY "NORTH CAROLINA ONE CALL" (1-1)
 6. CONTRACTOR SHALL LOCATE ALL EXISTING AGENCY, OR COMPANY. CONTRACTOR IS RESPONSIBLE FOR 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 OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE ENGINEER. NO ADDITIONAL PAYMENT BEYOND.
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS ACCORDING TO THE INFORMATION AVAILABLE.
 10. THE CONTRACTOR SHALL REPLACE ALL SIX INCH STONE PAVING, STABILIZED EARTH, CURBS, THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
 11. EROSION CONTROL AND SEDIMENTATION CONTROL SHALL BE INSTALLED TO AND IN ACCORDANCE WITH ALL REGULATORY AGENCIES.
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING ARE ESTABLISHED ACCESS ROADS.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERSONNEL AND EMPLOYEES. CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT.
 14. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM BY WAKE GAS PRODUCERS, LLC (WGP), CO. INTERFERE WITH DAILY OPERATIONS OF WGP. LOCATING EXISTING UTILITIES AND GAS EXTRACTION FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND WGP SYSTEM COMPONENTS. SEE LANDFILL GAS EXTRACTION SYSTEM DRAWING.
 15. THE WORK AREA IS LOCATED WITHIN A LANDFILL RESPONSIBLE FOR MONITORING AIR QUALITY SUPERVISOR ON SITE WHO WILL DETERMINE ANY WASTE EXCAVATED BY CONTRACTOR OR



<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 #: 141 Date: 8-12-04 Weather: PC low 68 high 80
<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. 7: Excavate, Transport and Install Protective Soil Layer Material. Contractor continued on protective cover in Phases IV second lift. Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area. Contractor screening top soil located on site. Contractor continued placement of Topsoil in Phases III. Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor continued placing drainage rock and fabric and shaping Berms in Phases III.</p>		<p>none</p>
<p>RESULTS: none</p>		<p>COMMENT</p>
<p>BY: </p>		<p>None</p>
<p>REVIEWED BY:</p>		<p>CORRESPONDING DATA SHEETS</p>
<p>PROJECT ENGINEER:</p>		<p>Site Sketch</p>
<p>QA INSPECTOR:</p>		<p>APPROVED BY: </p>
<p>PROJECT ENGINEER:</p>		<p>CERTIFYING ENGINEER</p>

RPT-141
8-12-4

Site Sketch

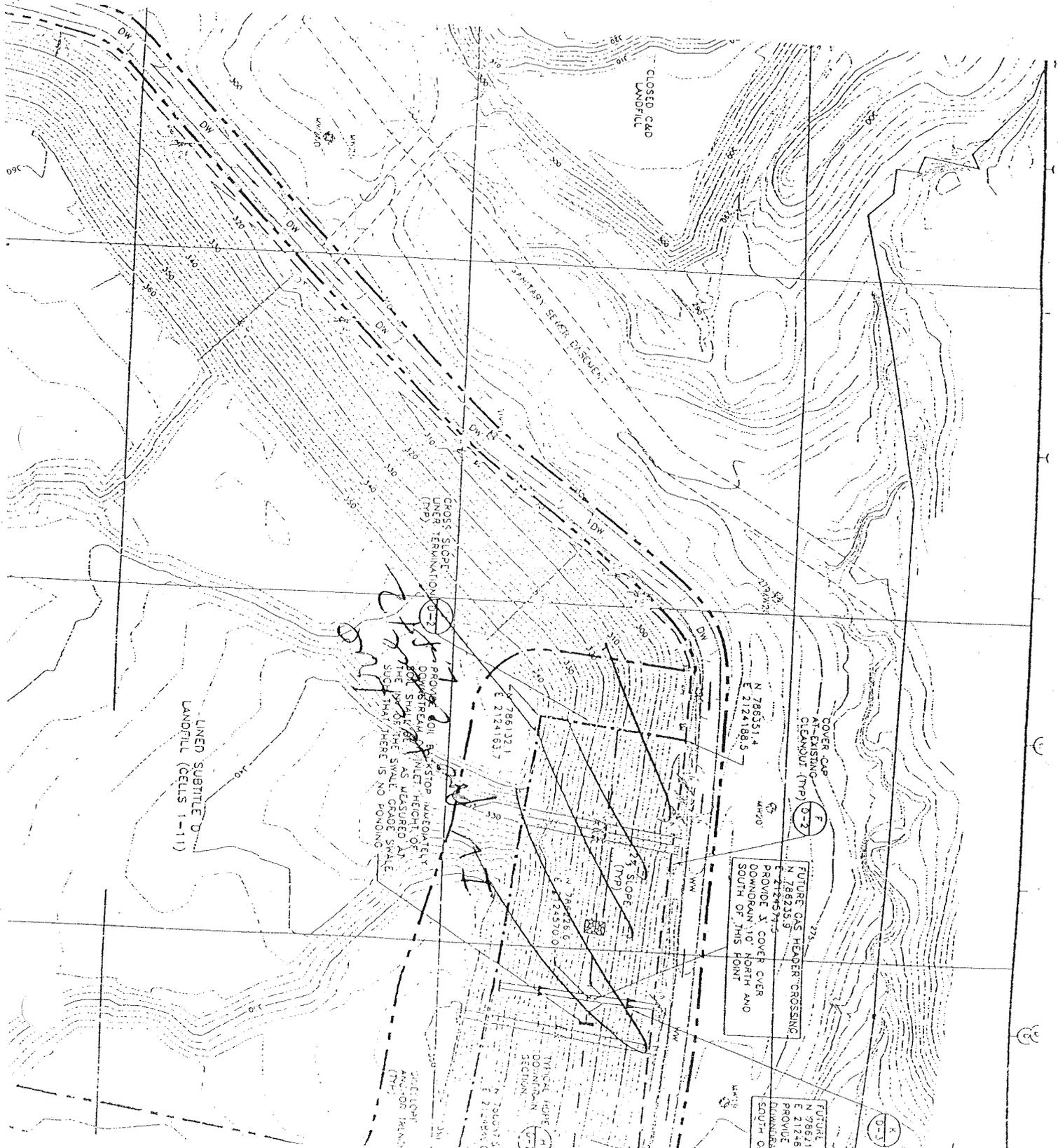


- PROPOSED FINAL COVER SWALE ACCESS CROSSING
 CONTRACTOR WET LINE
 CONTRACTOR DRY LINE
 LIMITS OF CONSTRUCTION
 PROPOSED SILT FENCE

- NOTES:
- TOPOGRAPHIC INFORMATION WITHIN LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED [DATE]
 - TOPOGRAPHIC INFORMATION OUTSIDE LIMITS BY TAYLOR WISEMAN AND TAYLOR DATED [DATE]
 - TOPOGRAPHIC INFORMATION WITHIN LIMITS TAYLOR WISEMAN AND TAYLOR DATED [DATE]
 - THE EXISTING NORTH WAKE SUBTILE 0 U. PROJECT COORDINATE ALL CONSTRUCTION INTERRUPTED OR ADVERSELY IMPACTED.
 - NOTIFY "NORTH CAROLINA CMC CALL" (1-1)
 - CONTRACTOR SHALL LOCATE ALL EXISTING AGENCY OR COMPANY. CONTRACTOR IS TO SITE UTILITIES, EASEMENTS, PRESERVATION ALL EASEMENTS FOR UTILITY OWNERS THRU CONTRACTOR SHALL SUBMIT A TRAFFIC CD BETWEEN CONSTRUCTION AND OPERATION OWNER.
 - PIPE LENGTHS SHOWN ARE APPROXIMATE ENGINEER. NO ADDITIONAL PAYMENT BEYOND.
 - LOCATIONS, ELEVATIONS, AND DIMENSIONS ACCORDING TO THE INFORMATION AVAILABLE.
 - THE CONTRACTOR SHALL REPLACE ALL SIX STONE PAVING, STABILIZED EARTH, CURBS, THAT WERE REMOVED OR DAMAGED DURING CONSTRUCTION.
 - EROSION CONTROL AND SEDIMENTATION CONTROL. THEY SHALL BE INSTALLED TO AND IN ACCORDANCE WITH ALL REGULATOR.
 - THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING. EGRESS AND TRAFFIC PATTERNS ESTABLISHED ACCESS ROADS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE AND SWEEPING WHICH WILL BE USED BY PERSONNEL AND EMPLOYEES. CONTRACTOR THROUGHOUT THE DURATION OF THE CONSTRUCTION.
 - THE EXISTING LANDFILL GAS EXTRACTION SYSTEM BY WASTE GAS PRODUCERS, LLC (WGP) CO. INTERFERE WITH DAILY OPERATIONS OF WGP LOCATING EXISTING UTILITIES AND GAS EXTRACTOR DAMAGED FACILITIES AT NO COST TO OWNER. THE WGP ON-SITE REPRESENTATIVE AND WGP SYSTEM COMPONENTS. SEE LANDFILL GAS EXTRACTION SYSTEM DRAWING.
 - THE WORK AREA IS LOCATED WITHIN A LAR RESPONSIBLE FOR MONITORING AND DAILY SUPERVISOR ON-SITE WHO WILL DETERMINE ANY WASTE EXCAVATED BY CONTRACTOR OR

RPT-141
8-12-4

Site Sketch



CROSS-SLOPE
LINE TERMINATION 0-2
(TYP)
PROVIDE SOIL STOP IMMEDIATELY
DOWNSTREAM OF WLET HEIGHT OF
SOIL STOP AS MEASURED ON
THE TOP OF THE SWALE CRACK SWALE
SOIL THAT THERE IS NO PONDING

COVER CAP
AT EXISTING
CLEANOUT (TYP) 0-2
N 7863314
E 21241885

FUTURE GAS HEADER CROSSING
N 7863359
E 21245715
PROVIDE A COVER OVER
DOWNRAN TO NORTH AND
SOUTH OF THIS POINT

FUTURE
N 78621
E 21246
PROVIDE
DOWNRAN
SOUTH O

N 7861321
E 21241637

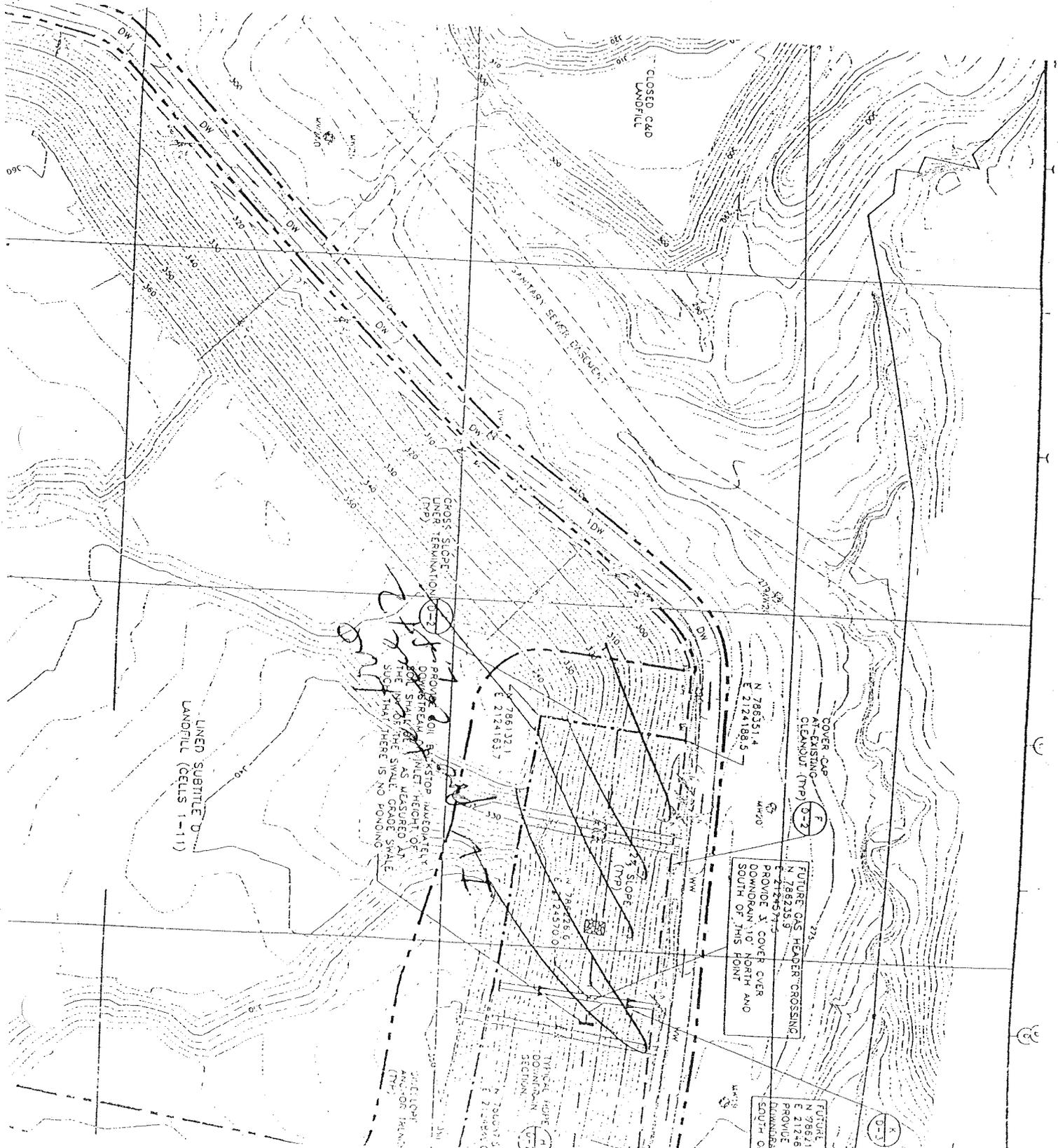
N 7862866
E 21245700

N 7860475
E 2124841

LINED SUBTILE D
LANDFILL (CELLS 1-11)

CLOSED CAP
LANDFILL

SANITARY SEWER DRAINAGE





DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-13-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 83 Lo: 68 _____ Clear x Partly _____ Cloudy .92 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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: _____

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.)

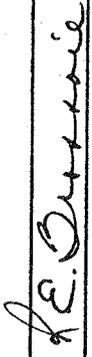
Contractor not working today due to rain.

Attachments: Yes SD No X Signed [Signature]

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 1 Report #: 142 Date: 8-13-04 Weather: .92 rain low 68 high 83</p>
<p>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: Contractor not working today due to rain.</p>		<p>none</p>
<p>RESULTS: none</p>		<p>COMMENT</p>
<p>BY: </p>		<p>CORRESPONDING DATA SHEETS</p>
<p>REVIEWED BY:</p>		<p>none</p>
<p>CQA INSPECTOR</p>		<p>APPROVED BY: </p>
<p>PROJECT ENGINEER</p>		<p>CERTIFYING ENGINEER</p>



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 x

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 #: 143 Date: 8-14-04 Weather: Rain 1.01 low 65 high 72
WORK AND EQUIPMENT		VISITORS
EQUIPMENT:		MATERIALS RECEIVED
WORK COMPLETED: Contractor not working today		none
RESULTS: None		COMMENT None
BY: 		CORRESPONDING DATA SHEETS Site sketch
	CQA INSPECTOR	APPROVED BY: <i>K.E. Burrows</i> CERTIFYING ENGINEER
	PROJECT ENGINEER	



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-15-04

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, 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				
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

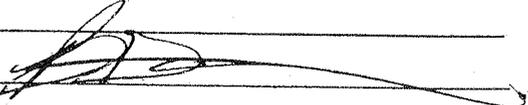
Activity and Location: _____

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 (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT		Sheet No. : 1 of 1 Report #: 144 Date: 8-15-04 Weather: Rain .94 low 64high 69
WORK AND EQUIPMENT		VISITORS
EQUIPMENT:		MATERIALS RECEIVED
WORK COMPLETED: Contractor not working today		none
RESULTS: None		COMMENT
BY: 		CORRESPONDING DATA SHEETS
	CQA INSPECTOR	Site sketch
REVIEWED BY:	PROJECT ENGINEER	APPROVED BY: 
		CERTIFYING ENGINEER



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-16-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 82 Lo: 67 _____ Clear x Partly _____ Cloudy 4.5 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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	*		*

*P denotes subcontractors

Activity and Location: _____

Defective work noted today to be corrected later: None

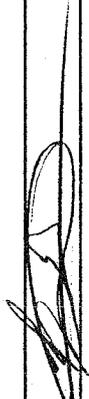
Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Contractor not working today on critical path due to rain over weekend (4.5"). Miscellaneous work and maintenance.

Attachments: Yes No Signed [Signature]

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 #: 145 Date: 8-16-04 Weather: 4.5 rain low 67 high 82 </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: Contractor not working today on critical path due to rain over weekend (4.5"). Miscellaneous work and maintenance.</p>	<p>MATERIALS RECEIVED</p> <p>none</p> <p>COMMENT</p> <p>None</p> <p>CORRESPONDING DATA SHEETS</p> <p>none</p>
<p>RESULTS: none</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>	



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-17-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 84 Lo: 64 _____ Clear x Partly _____ Cloudy 0 Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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: _____

Defective work noted today to be corrected later: None

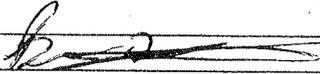
Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

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

Contractor continued on protective cover in Phases IV.

Item No. 10: Furnish and Install Final Cover Swale and Berms.

Contractor continued placing stone at toe.

Attachments: Yes No Signed 

Description: _____

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

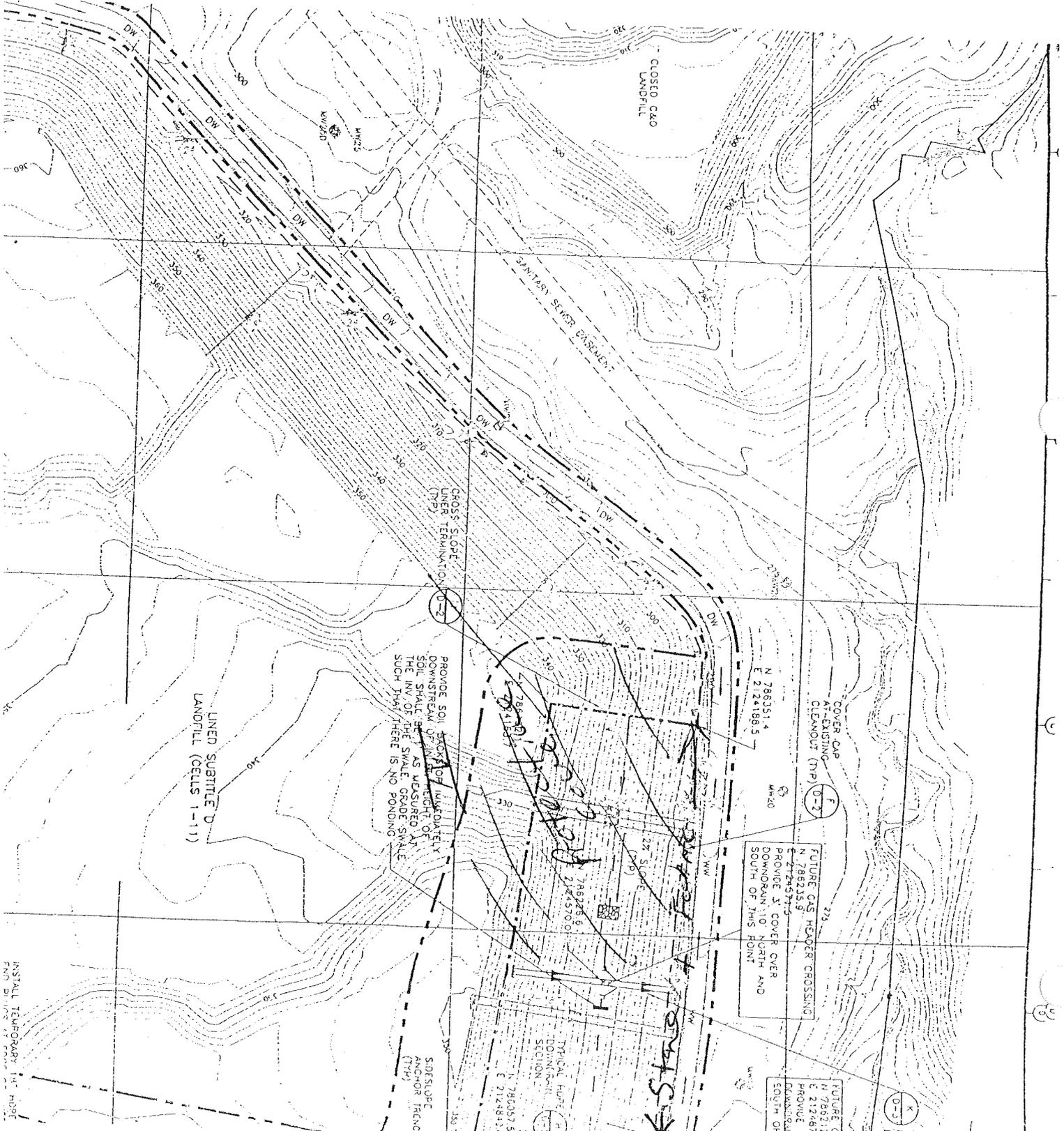
This report to be completed daily by each Project Representative

CDM

Ref # 146

8-17-04

Site Sketch



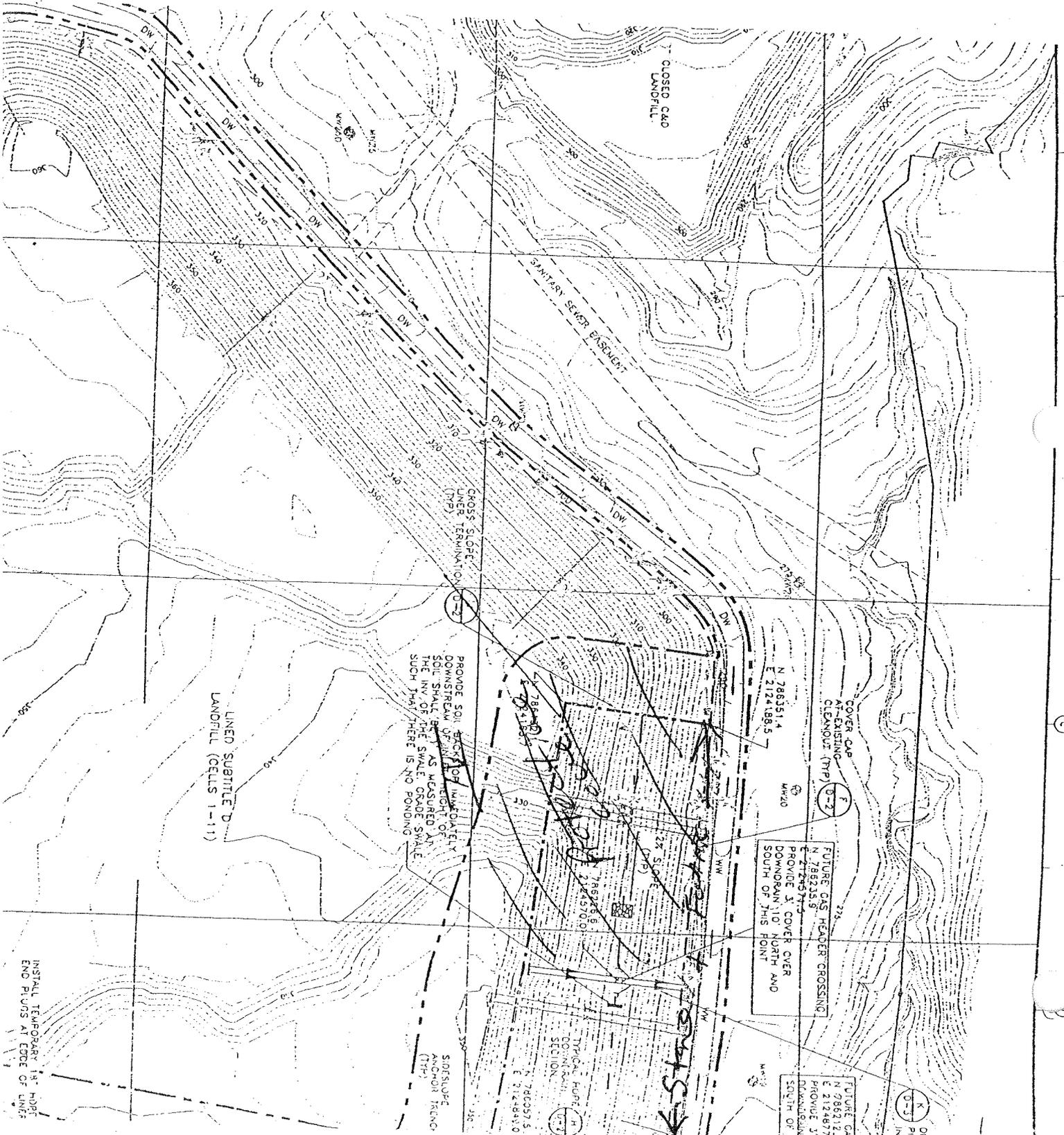
<p>Sheet No. : 1 of 2 Report #: 146 Date: 8-17-04 Weather: PC low 64 high 84</p>	<p>CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>
<p>VISITORS</p>	<p>WORK AND EQUIPMENT</p>
<p>MATERIALS RECEIVED</p>	<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>
<p>none</p>	<p>WORK COMPLETED: Item No. 7: Excavate, Transport and Install Protective Soil Layer Material. Contractor continued on protective cover in Phases IV.</p>
<p>COMMENT</p>	<p>Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor continued placing stone at toe.</p>
<p>None</p>	<p>RESULTS: 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>

CDM

Report # 146

8-17-04

Site Sketch





DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-18-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 86 Lo: 71 _____ Clear x Partly _____ Cloudy 0 Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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	*		*

*Denotes 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. 7: Excavate, Transport and Install Protective Soil Layer Material.

Contractor continued on protective cover in Phases IV.

Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area.

Contractor screening top soil located on site. Contractor continued placement of Topsoil in Phases III through IV.

Item No. 10: Furnish and Install Final Cover Swale and Berms.

Contractor continued placing stone at toe.

Item No. 14: Cleanout Existing Sedimentation Ponds:

Contractor continuing to keep on top of erosion control measures. They started to clean out around riser barrel in sediment pond no. three and there was no stone. Contractor cleaned out around barrel and washed out barrel and placed new stone. They also cleaned out perimeter ditch from half way on east side to north corner.

Attachments: Yes No Signed 

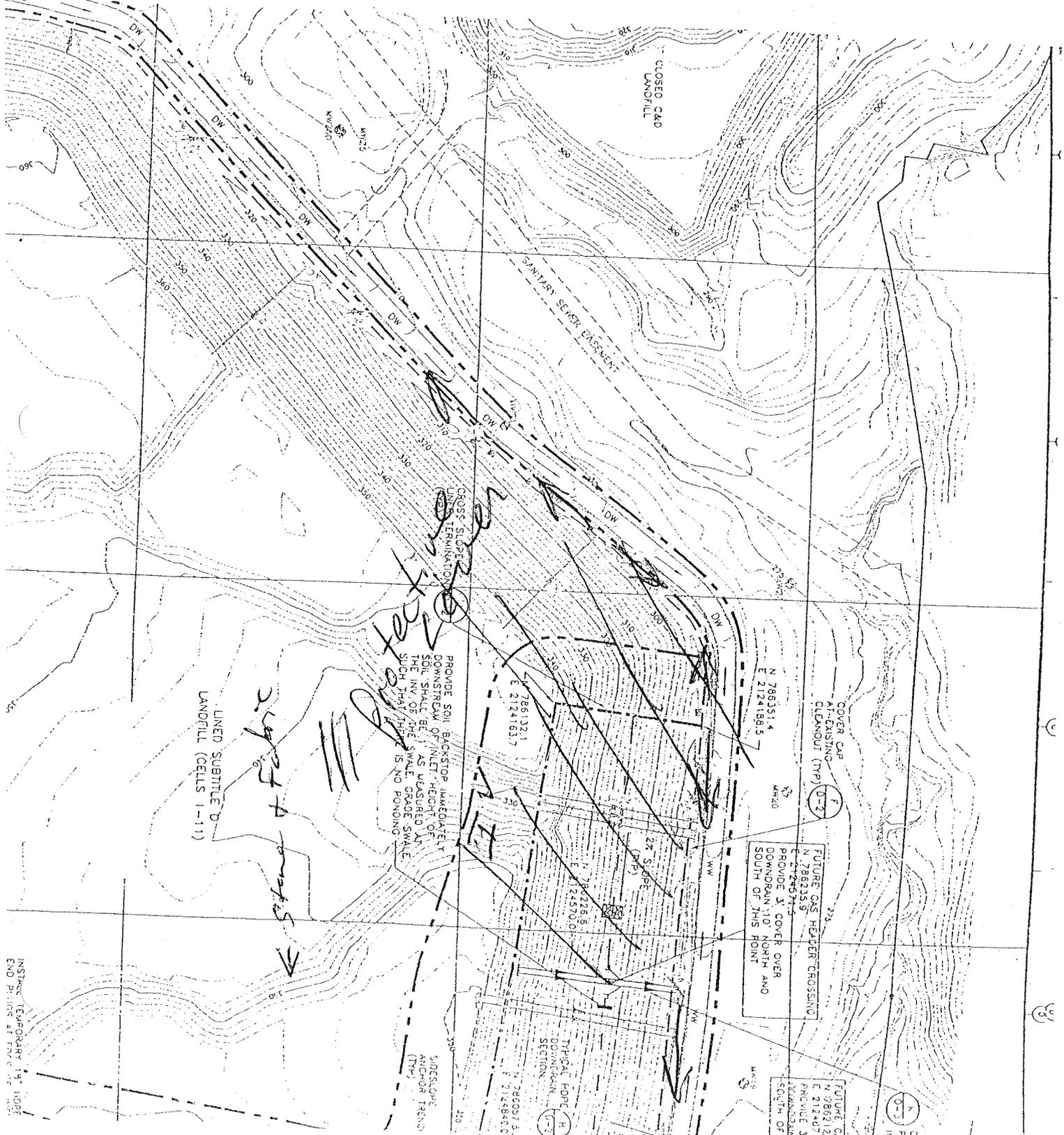
Description: _____

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

This report to be completed daily by each Project Representative

RPT-147
9-18-04

Site Sketch



LINED SUBTITLE 'D' LANDFILL (CELLS 1-11)

Sand & Fabric

Protect

PROVIDE SOIL BACKSTOP IMMEDIATELY DOWNSTREAM OF INLET HEIGHT OF SOIL SHALL BE AS MEASURED AT THE INV. OF THE SHALE CRACK SWALE SUCH THAT THERE IS NO PONDING

N 7861321
E 21241837

27 Slope (M.P.)

N 7862268
E 21245700

TYPICAL HOPE DOWNDRAIN SECTION

N 7860375
E 21248490

COVER CAP AT-EXISTING CLEANOUT (M.P.) D-2

N 7863514
E 21241895

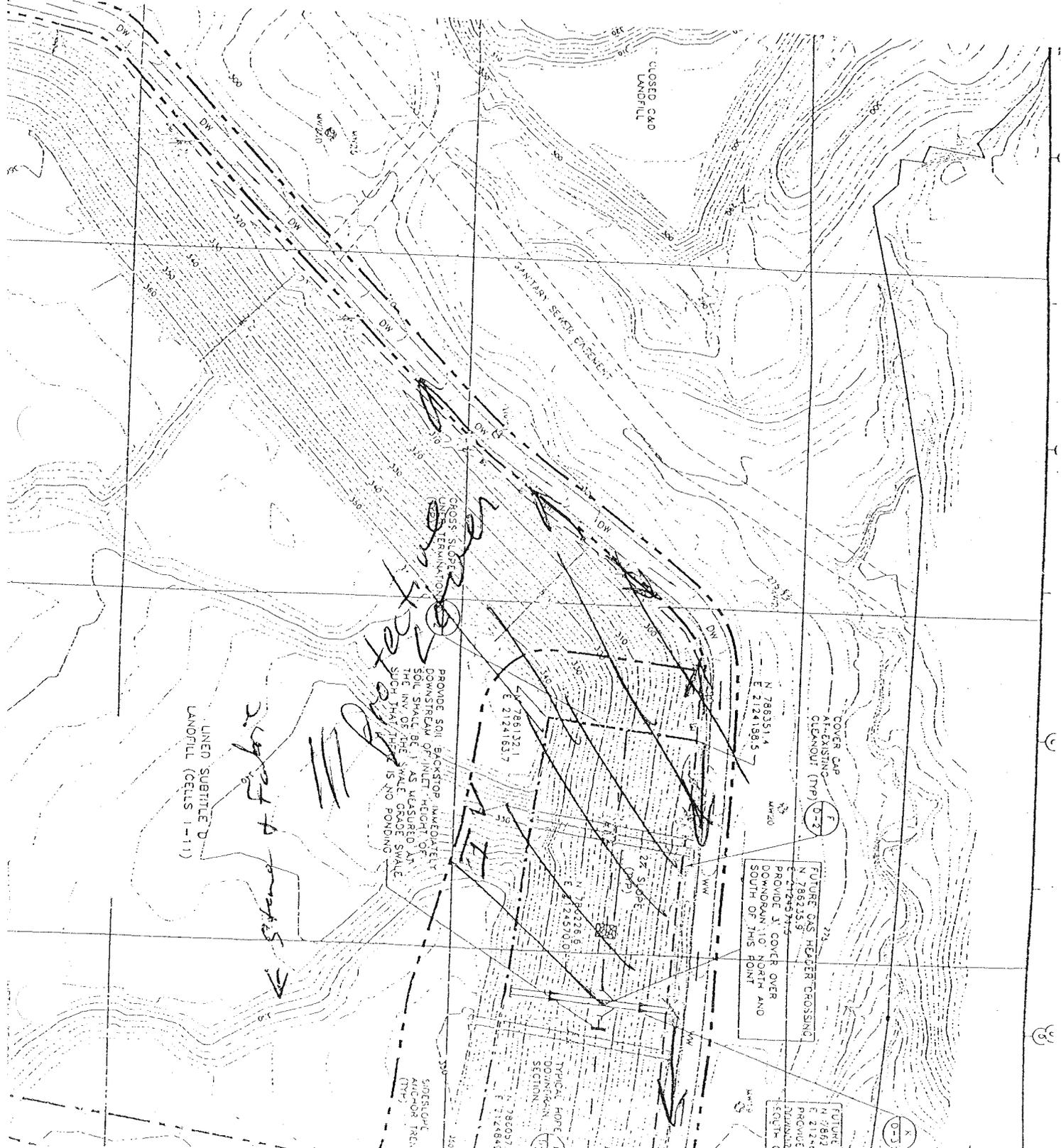
FUTURE GAS HEADER CROSSING
N 7862359
E 21245700
PROVIDE 3' COVER OVER DOWNDRAIN 10' NORTH AND SOUTH OF THIS POINT

FUTURE C
N 786212
E 212487
PROVIDE 3' COVER OVER DOWNDRAIN SOUTH OF

<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 2 Report #: 147 Date: 8-18-04 Weather: PC low 71 high 86</p>
<p>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. 7: Excavate, Transport and Install Protective Soil Layer Material. Contractor continued on protective cover in Phases IV. Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area. Contractor screening top soil located on site. Contractor continued placement of Topsoil in Phases III through IV. Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor continued placing stone at toe. Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor continuing to keep on top of erosion control measures. They started to clean out around riser barrel in sediment pond no. three and there was no stone. Contractor cleaned out around barrel and washed out barrel and placed new stone. They also cleaned out perimeter ditch from half way on east side to north corner.</p>	<p>COMMENT</p> <p>None</p>
<p>RESULTS: none</p>	<p>CORRESPONDING DATA SHEETS</p> <p>Site sketch</p>
<p>BY: </p>	<p>APPROVED BY: </p>
<p>REVIEWED BY:</p>	<p>CERTIFYING ENGINEER</p>
<p>PROJECT ENGINEER</p>	

RP-147
3-18-04

Site Sketch





DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-19-04

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: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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: _____

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 Material.

Contractor continued on protective cover in Phases IV.

Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area.

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Item No. 10: Furnish and Install Final Cover Swale and Berms.

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Item No. 14: Cleanout Existing Sedimentation Ponds:

Contractor continuing to keep on top of erosion control measures. They started to clean out around riser barrel in sediment pond no. three and there was no stone. Contractor cleaned out around barrel and washed out barrel and placed new stone. They also cleaned out perimeter ditch from half way on east side to north corner. Contractor spent all of Thurs. building extra berms and tightening up site in preparation of up coming storm events (Bonnie and Charley).

Attachments: Yes No

Signed 

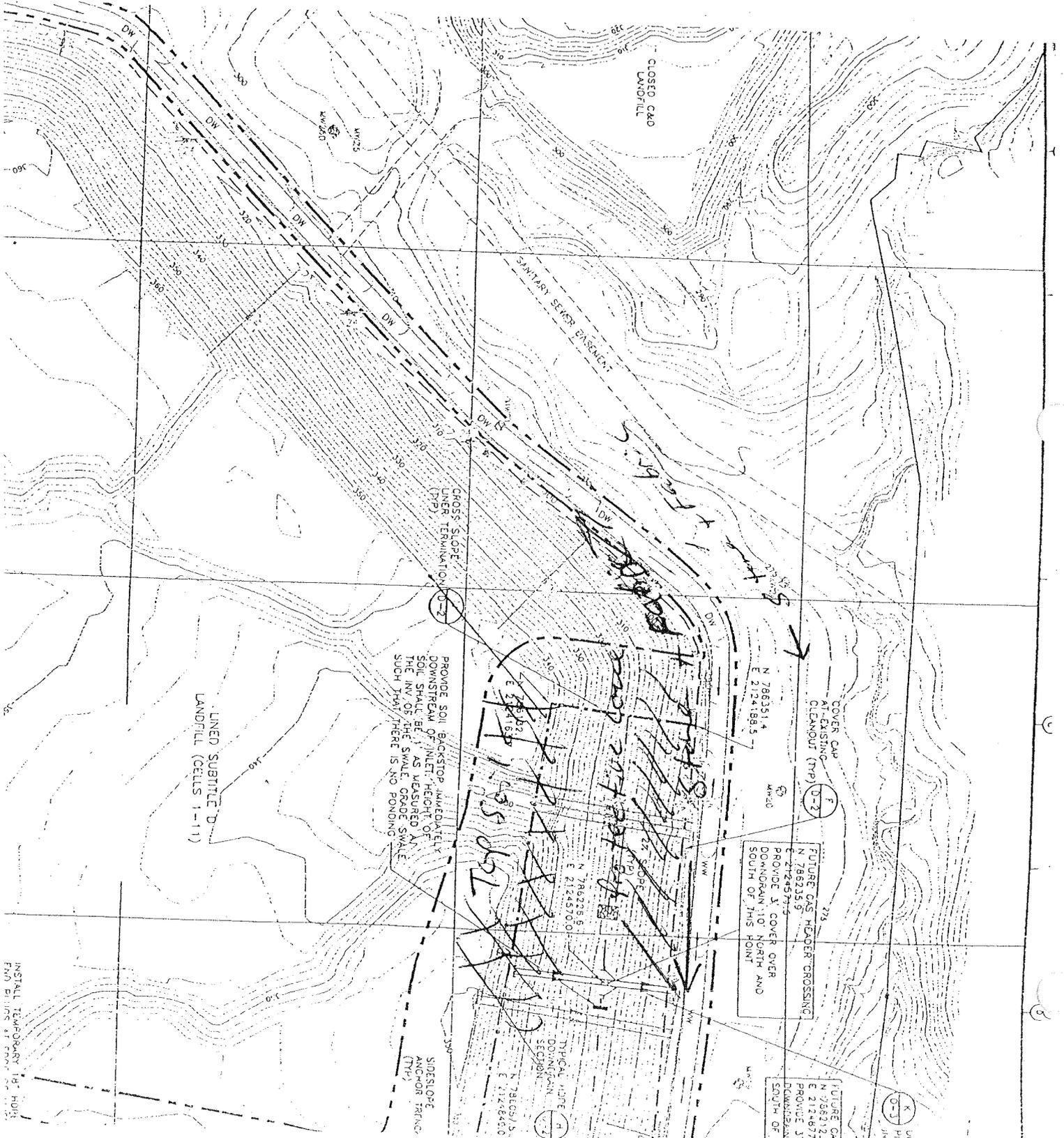
Description: _____

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

This report to be completed daily by each Project Representative

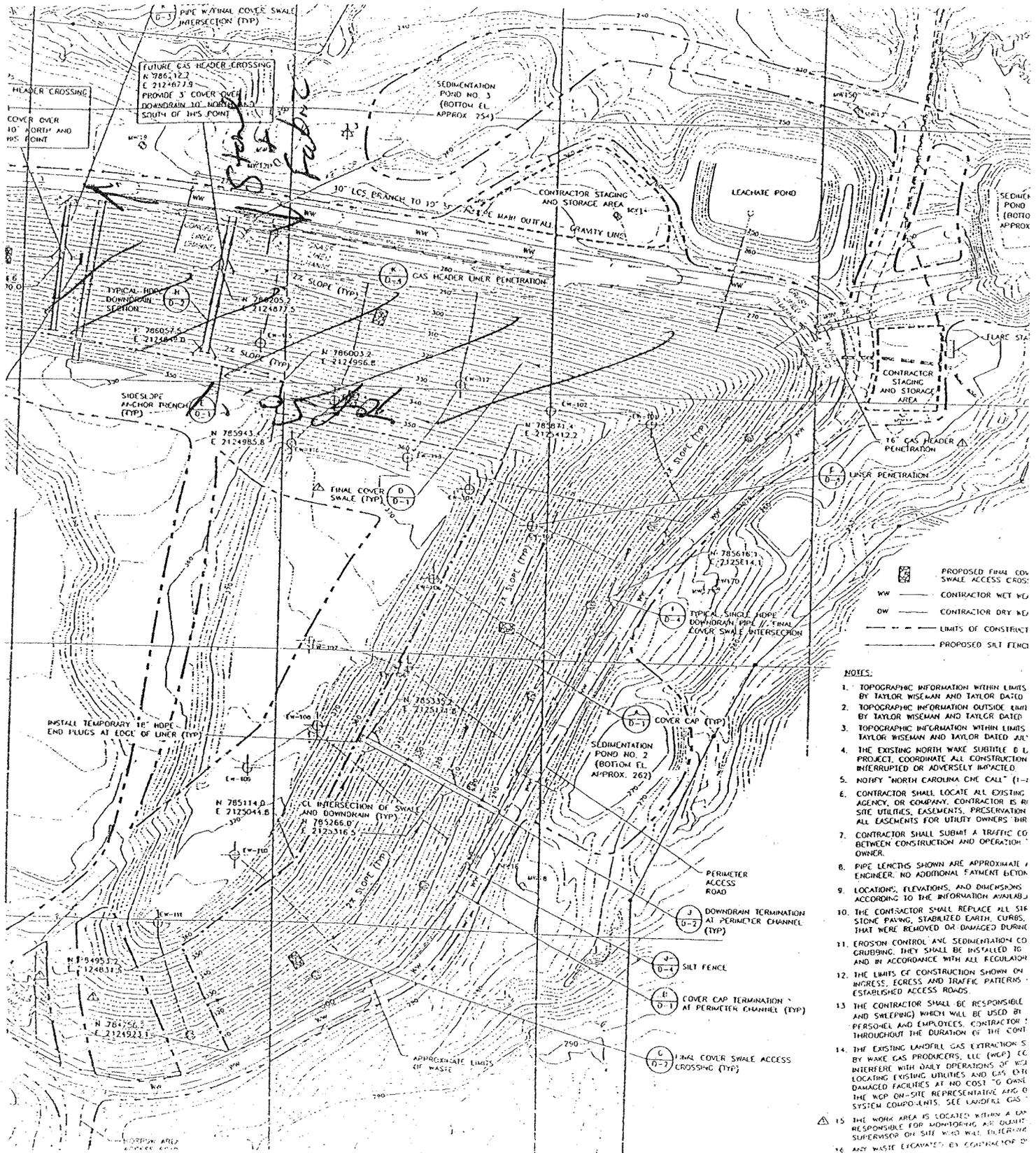
RPT-148
8-19-04

Site Sketch



RPT-148
8-19-04

Site Sketch



- PROPOSED FINAL COVER SWALE ACCESS CROSS
- WW CONTRACTOR WET WELL
- DW CONTRACTOR DRY WELL
- LIMITS OF CONSTRUCT
- 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 JUL
 4. THE EXISTING NORTH WAKE SUBTITLE E.L. 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 RESPONSIBLE FOR SITE UTILITIES, EASEMENTS, PRESERVATION ALL EASEMENTS FOR UTILITY OWNERS' USE
 7. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN BETWEEN CONSTRUCTION AND OPERATION TO OWNER.
 8. PIPE LENGTHS SHOWN ARE APPROXIMATE. ENGINEER. NO ADDITIONAL PAYMENT BEYOND
 9. LOCATIONS, ELEVATIONS, AND DIMENSIONS ACCORDING TO THE INFORMATION AVAILABLE
 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 REGULATORY
 12. THE LIMITS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL BE USED BY PERSONNEL AND EMPLOYEES. CONTRACTOR SHALL MAINTAIN THESE LIMITS THROUGHOUT THE DURATION OF THE CONSTRUCTION.
 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONNEL AND EMPLOYEES. CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AIR QUALITY THROUGHOUT THE DURATION OF THE CONSTRUCTION.
 14. THE EXISTING LANDFILL GAS EXTRACTION SYSTEM SHALL BE MAINTAINED AND NOT INTERFERED WITH DAILY OPERATIONS OF THE LANDFILL. THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES AND GAS EXTRACTION FACILITIES AT NO COST TO OWNER. THE CONTRACTOR SHALL REPRESENTATIVE AND GAS EXTRACTION SYSTEM COMPONENTS. SEE LANDFILL GAS EXTRACTION SYSTEM DRAWING.
 15. THE WORK AREA IS LOCATED WITHIN A CAP. CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AIR QUALITY THROUGHOUT THE DURATION OF THE CONSTRUCTION.
 16. ANY WASTE EXTRACTED BY CONTRACTOR OF

<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>EQUIPMENT: CAT D6M, CAT D4C, Volvo end dumps, 563 smooth drum roller</p> <p>WORK COMPLETED: Item No. 7: Excavate, Transport and Install Protective Soil Layer Material. Contractor continued on protective cover in Phases IV. Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area. Contractor screening top soil located on site. Contractor continued placement of Topsoil in Phases III through IV. Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor continued placing stone at toe. Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor continuing to keep on top of erosion control measures. They started to clean out around riser barrel in sediment pond no. three and there was no stone. Contractor cleaned out around barrel and washed out barrel and placed new stone. They also cleaned out perimeter ditch from half way on east side to north corner. Contractor spent all of Thurs. building extra berms and tightening up site in preparation of up coming storm events (Bonnie and Charley).</p>	<p>Sheet No. : 1 of 3 Report #: 148 Date: 8-19-04 Weather: PC low 71 high 90</p> <p style="text-align: center;">VISITORS</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;">Site sketch</p>
<p>RESULTS: none</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>	



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-20-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 90 Lo: 70 Clear x Partly Cloudy 0 Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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	*		*

*ignates 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. 7: Excavate, Transport and Install Protective Soil Layer Material.

Contractor continued on protective cover in Phases IV.

Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area.

Contractor screening top soil located on site. Contractor continued placement of Topsoil in Phases III through IV.

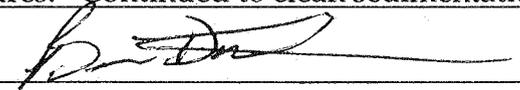
Item No. 10: Furnish and Install Final Cover Swale and Berms.

Contractor continued placing stone at toe.

Item No. 14: Cleanout Existing Sedimentation Ponds:

Contractor continuing to keep on top of erosion control measures. Continued to clean sedimentation ponds.

Attachments: Yes x No

Signed 

Description: _____

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

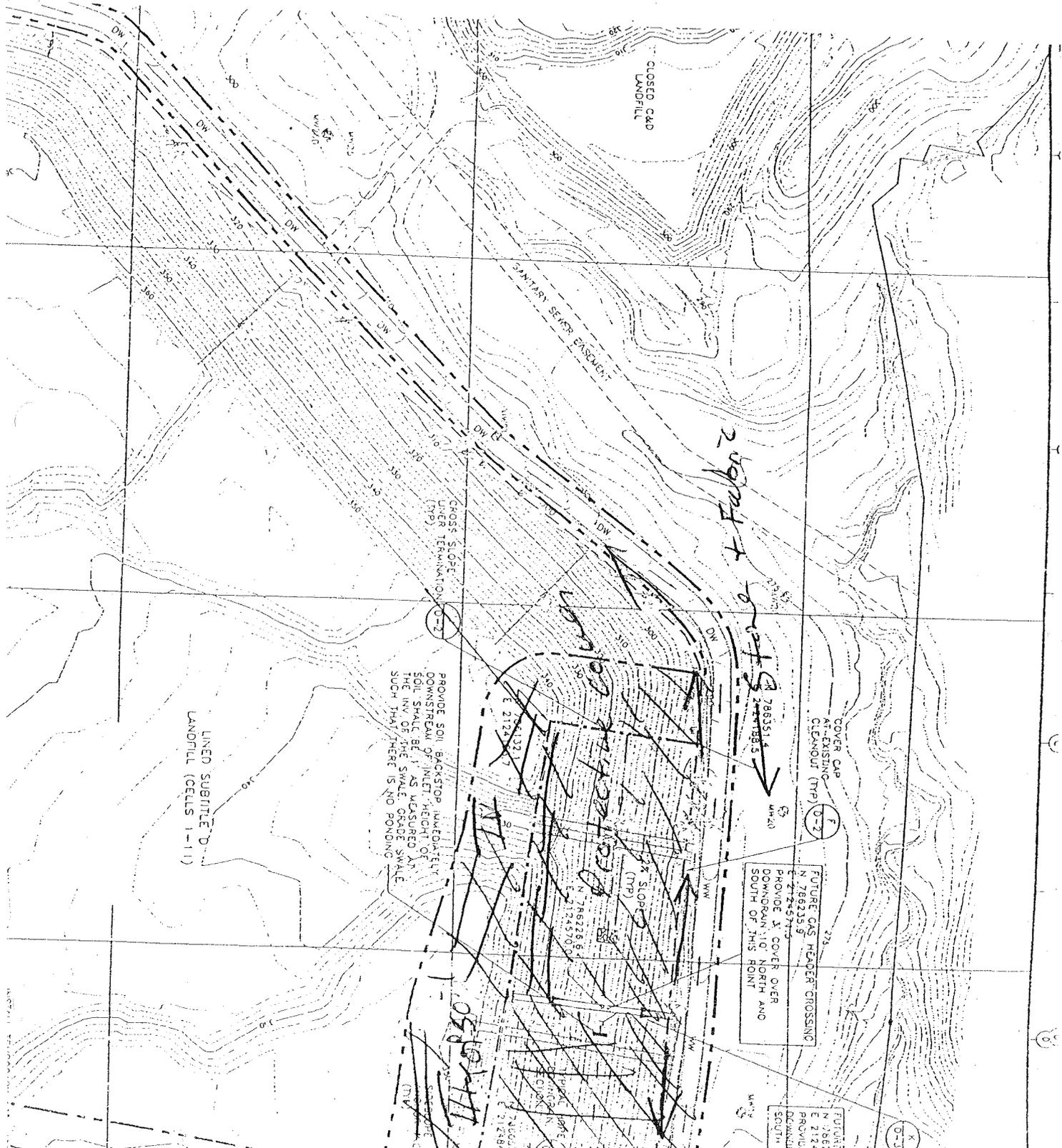
This report to be completed daily by each Project Representative

<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 2 Report #: 149 Date: 8-20-04 Weather: PC low 70 high 90</p>
WORK AND EQUIPMENT	VISITORS
<p>EQUIPMENT: CAT D6M, CAT D4C, Volvo end dumps, 563 smooth drum roller</p> <p>WORK COMPLETED: Item No. 7: Excavate, Transport and Install Protective Soil Layer Material. Contractor continued on protective cover in Phases IV. Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area. Contractor screening top soil located on site. Contractor continued placement of Topsoil in Phases III through IV. Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor continued placing stone at toe. Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor continuing to keep on top of erosion control measures. Continued to clean sedimentation ponds.</p>	<p>MATERIALS RECEIVED</p> <p>none</p> <p>COMMENT</p> <p>None</p> <p>CORRESPONDING DATA SHEETS</p> <p>Site sketch</p>
<p>RESULTS: none</p> <p>BY: </p>	<p>APPROVED BY: </p>
CQA INSPECTOR	CERTIFYING ENGINEER
REVIEWED BY:	PROJECT ENGINEER

RPT - 149

B-20-4

Site Sketch





DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-21-04
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				
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		*		*

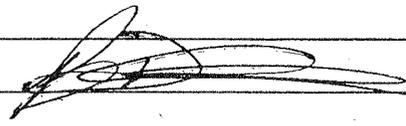
*Designates subcontractors

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 Report #: 150 Date: 8-21-04 Weather: Rain .76 low 70 high 88
WORK AND EQUIPMENT		VISITORS
EQUIPMENT:		MATERIALS RECEIVED
WORK COMPLETED: Contractor not working today		none
RESULTS: None		COMMENT None
BY: 		CORRESPONDING DATA SHEETS Site sketch
	CQA INSPECTOR	APPROVED BY: 
REVIEWED BY:	PROJECT ENGINEER	CERTIFYING ENGINEER



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-22-04

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				
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

Address 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 Report #: 151 Date: 8-22-04 Weather: PC low 67 high 81
WORK AND EQUIPMENT		VISITORS
EQUIPMENT:		MATERIALS RECEIVED
WORK COMPLETED: Contractor not working today		none
RESULTS: None		COMMENT
BY: 		CORRESPONDING DATA SHEETS
REVIEWED BY:	CQA INSPECTOR	None
	PROJECT ENGINEER	APPROVED BY: 
		CERTIFYING ENGINEER



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-23-04

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: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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: _____

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: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area.

Contractor continued placement of Topsoil in Phases IV and seeded in phase III.

Item No. 10: Furnish and Install Final Cover Swale and Berms.

Contractor continued shaping Berms in Phases III through IV.

Item No. 16: Furnish and install Permanent Seeding and Mulching.

Grass is growing well, there are some areas that need attention. The seeding sub should be on site full force this up coming week.

Attachments: Yes No

Signed 

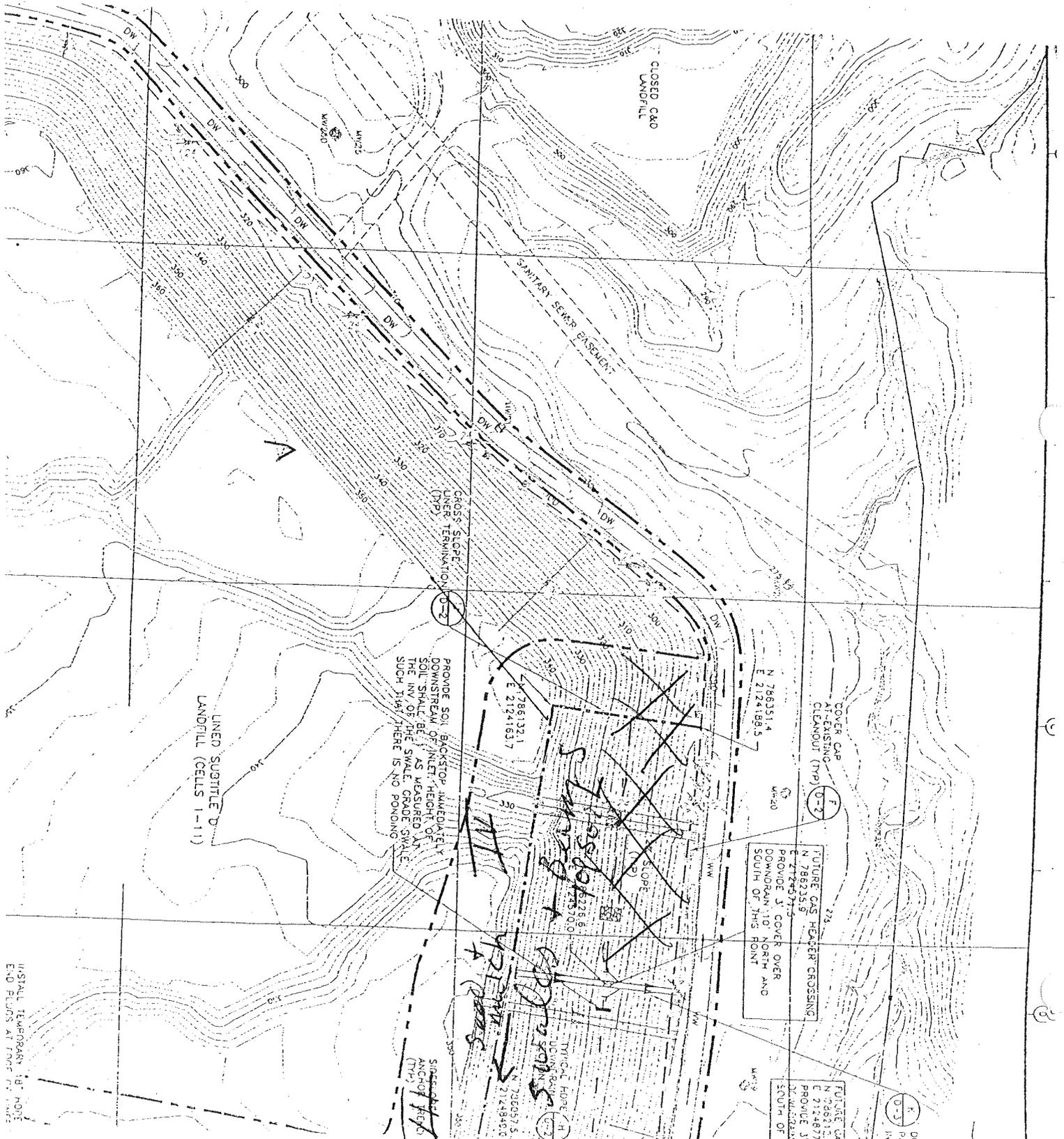
Description: _____

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

This report to be completed daily by each Project Representative

RP-152
8-23-4

Site Sketch



<p>Sheet No. : 1 of 2 Report #: 152 Date: 8-23-04 Weather: PC low 65 high 84</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: Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area. Contractor continued placement of Topsoil in Phases IV and seeded in phase III. Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor continued shaping Berms in Phases III through IV. Item No. 16: Furnish and install Permanent Seeding and Mulching. Grass is growing well, there are some areas that need attention. The seeding sub should be on site full force this up coming week.</p>
<p>COMMENT</p>	<p>RESULTS: none</p>
<p>None</p>	<p>BY: </p>
<p>CORRESPONDING DATA SHEETS</p>	<p>APPROVED BY: </p>
<p>Site sketch</p>	<p>CQA INSPECTOR</p>
<p></p>	<p>PROJECT ENGINEER</p>
<p></p>	<p>REVIEWED BY:</p>
<p></p>	<p>CERTIFYING ENGINEER</p>

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-24-04

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: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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	*						*

* indicates 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. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area.

Contractor continued placement of Topsoil in Phases IV and seeded in phase III.

Item No. 10: Furnish and Install Final Cover Swale and Berms.

Contractor continued shaping Berms in Phases V.

Item No. 16: Furnish and install Permanent Seeding and Mulching.

Grass is growing well, there are some areas that need attention. The seeding sub should be on site full force this up coming week. Contractor placing topsoil in phase IV.

Attachments: Yes No Signed *[Signature]*

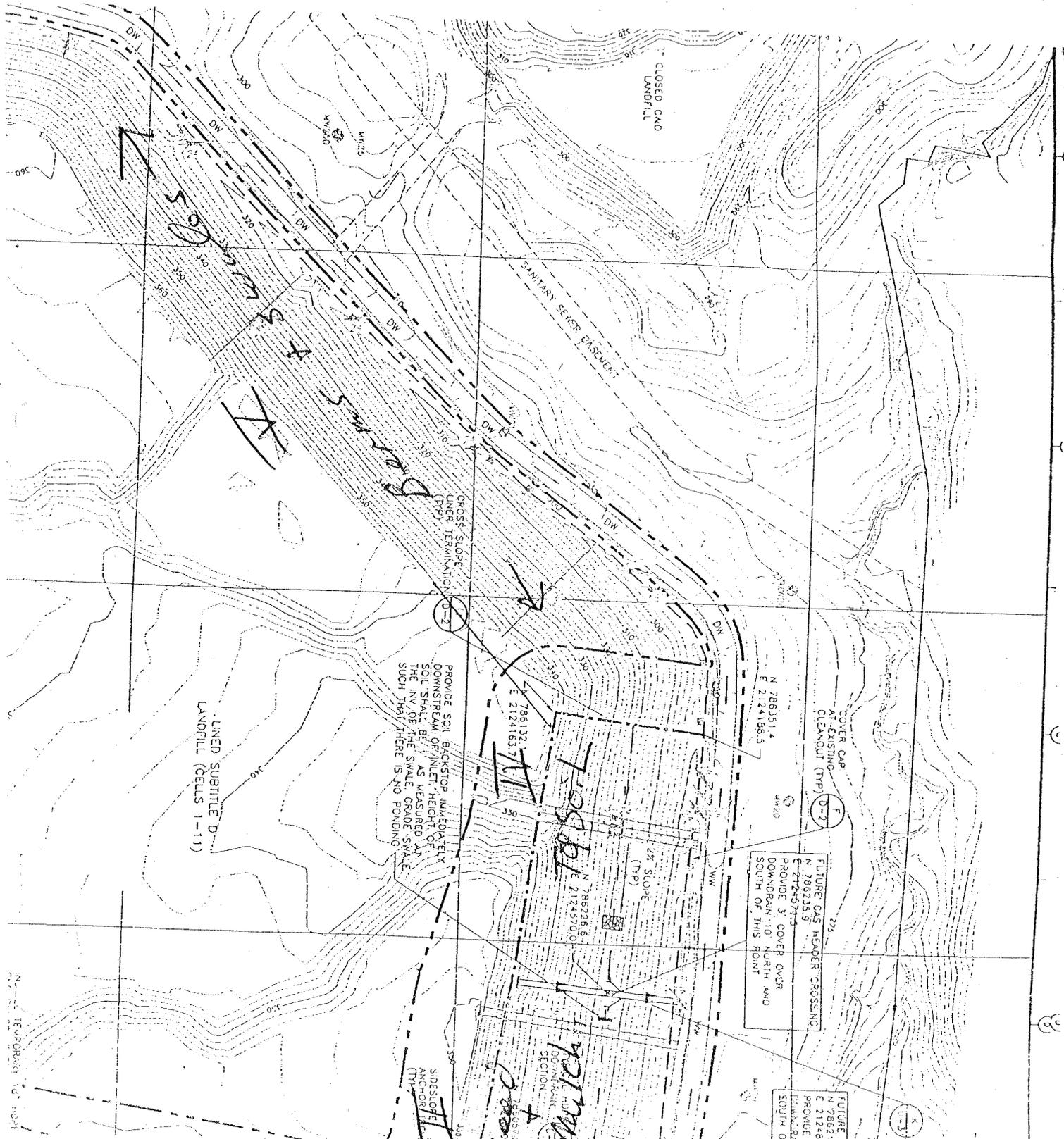
Description: _____

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

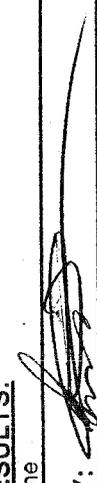
This report to be completed daily by each Project Representative

Rpt-153
8-24-4

Site Sketch



TEMPORARY 10' HOPE

<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 2 Report #: 153 Date: 8-24-04 Weather: PC low 63 high 85</p>
WORK AND EQUIPMENT	VISITORS
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p> <p>WORK COMPLETED: Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area. Contractor continued placement of Topsoil in Phases IV and seeded in phase III. Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor continued shaping Berms in Phases V. Item No. 16: Furnish and install Permanent Seeding and Mulching. Grass is growing well, there are some areas that need attention. The seeding sub should be on site full force this up coming week. Contractor placing topsoil in phase IV.</p>	<p>MATERIALS RECEIVED</p> <p>none</p> <p>COMMENT</p> <p>None</p> <p>CORRESPONDING DATA SHEETS</p> <p>Site sketch</p>
<p>RESULTS: none</p> <p>BY: </p>	<p>APPROVED BY: </p>
CQA INSPECTOR	CERTIFYING ENGINEER
<p>REVIEWED BY:</p>	<p>PROJECT ENGINEER</p>

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-25-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 83 Lo: 63 _____ Clear x Partly _____ Cloudy 0 Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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: _____

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 Material.

Contractor continued on protective cover in Phases V.

Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area.

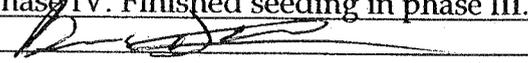
Contractor continued placement of Topsoil in Phases IV and seeded in phase III.

Item No. 10: Furnish and Install Final Cover Swale and Berms.

Contractor continued shaping Berms in Phases IV.

Item No. 16: Furnish and install Permanent Seeding and Mulching.

Grass is growing well, there are some areas that need attention. The seeding sub should be on site full force this up coming week. Contractor placing topsoil in phase IV. Finished seeding in phase III.

Attachments: Yes No Signed 

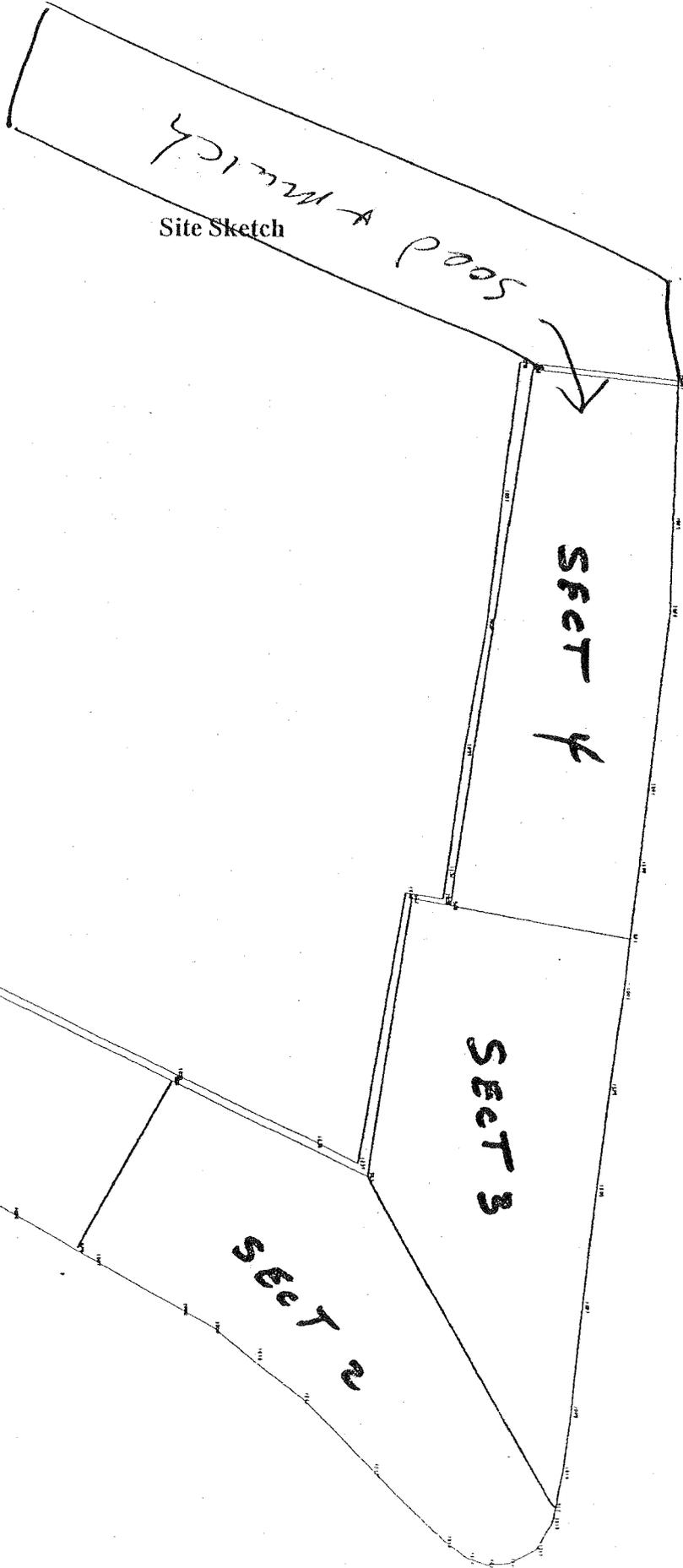
Description: _____

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

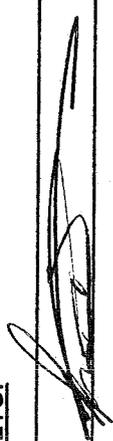
This report to be completed daily by each Project Representative

CDM

8-25-4
184-154



Site Sketch

<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 2 Report #: 154 Date: 8-25-04 Weather: PC low 63 high 83</p>
<p>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. 7: Excavate, Transport and Install Protective Soil Layer Material. Contractor continued on protective cover in Phases V. Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area. Contractor continued placement of Topsoil in Phases IV and seeded in phase III. Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor continued shaping Berms in Phases IV. Item No. 16: Furnish and install Permanent Seeding and Mulching. Grass is growing well, there are some areas that need attention. The seeding sub should be on site full force this up coming week. Contractor placing topsoil in phase IV. Finished seeding in phase III.</p>	<p>none</p> <p>None</p> <p>COMMENT</p>
<p>RESULTS: none</p>	<p>CORRESPONDING DATA SHEETS Site sketch</p>
<p>BY: </p>	<p>APPROVED BY: </p>
<p>REVIEWED BY:</p>	<p>CERTIFYING ENGINEER</p>
<p>PROJECT ENGINEER</p>	<p>CQA INSPECTOR</p>

CDM

3-25-4
14-154





DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-26-04
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: _____

(Observation) Hours Worked: 8 Reg. 2 OT Shift: 7 to 6
 (Contractor) Hours Worked: 8 Reg. 2 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	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
 City 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. 7: Excavate, Transport and Install Protective Soil Layer Material.

Contractor continued on protective cover in Phases V.

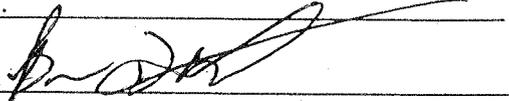
Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area.

Contractor continued placement of Topsoil in Phases IV and seeded in phase III.

Item No. 10: Furnish and Install Final Cover Swale and Berms.

Contractor continued shaping Berms in Phases IV.

Attachments: Yes No

Signed 

Description: _____

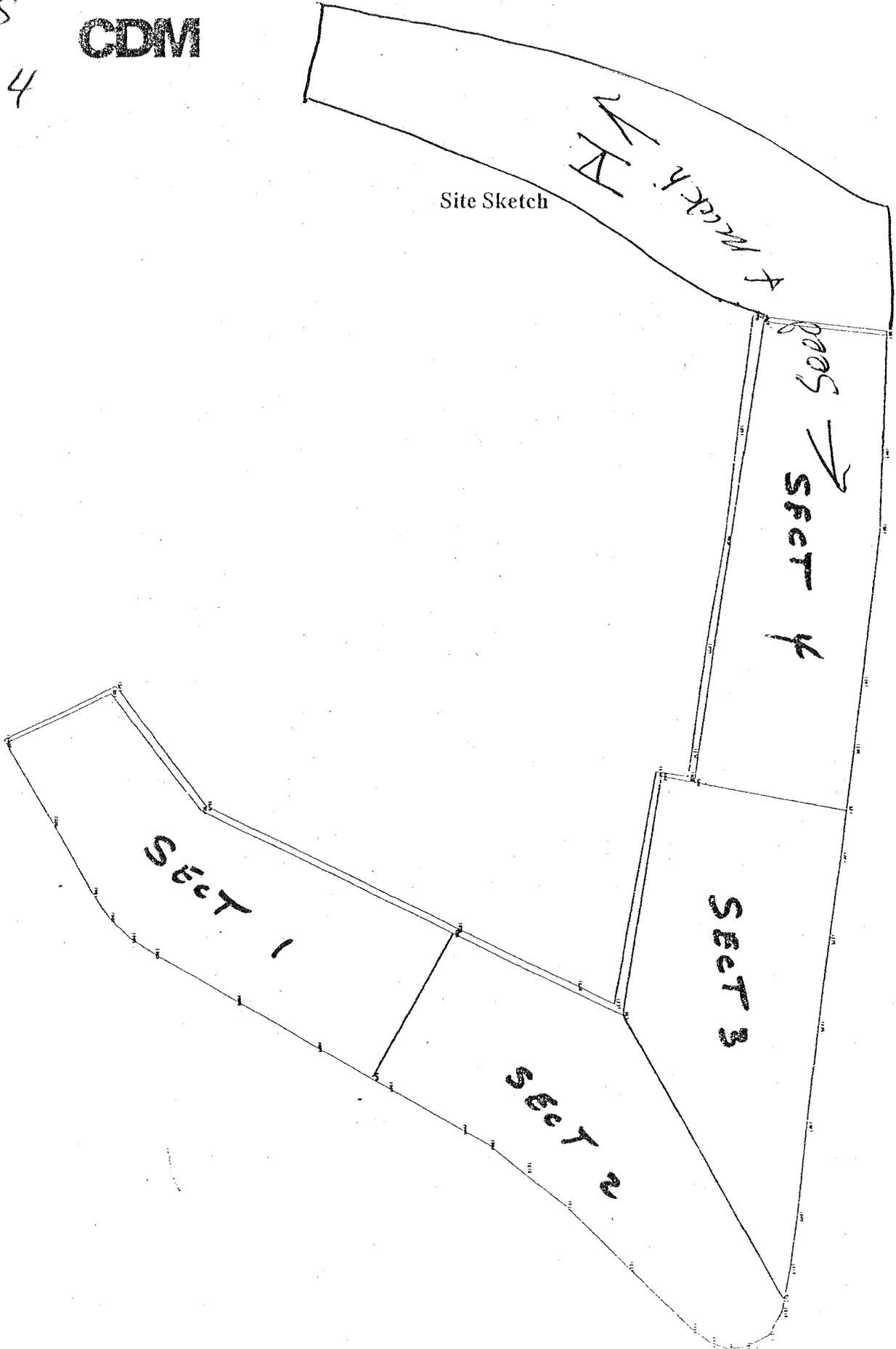
(Pipe Test Reports, Concrete Placement Reports, etc.)

This report to be completed daily by each Project Representative

455
26-4

CDM

Site Sketch

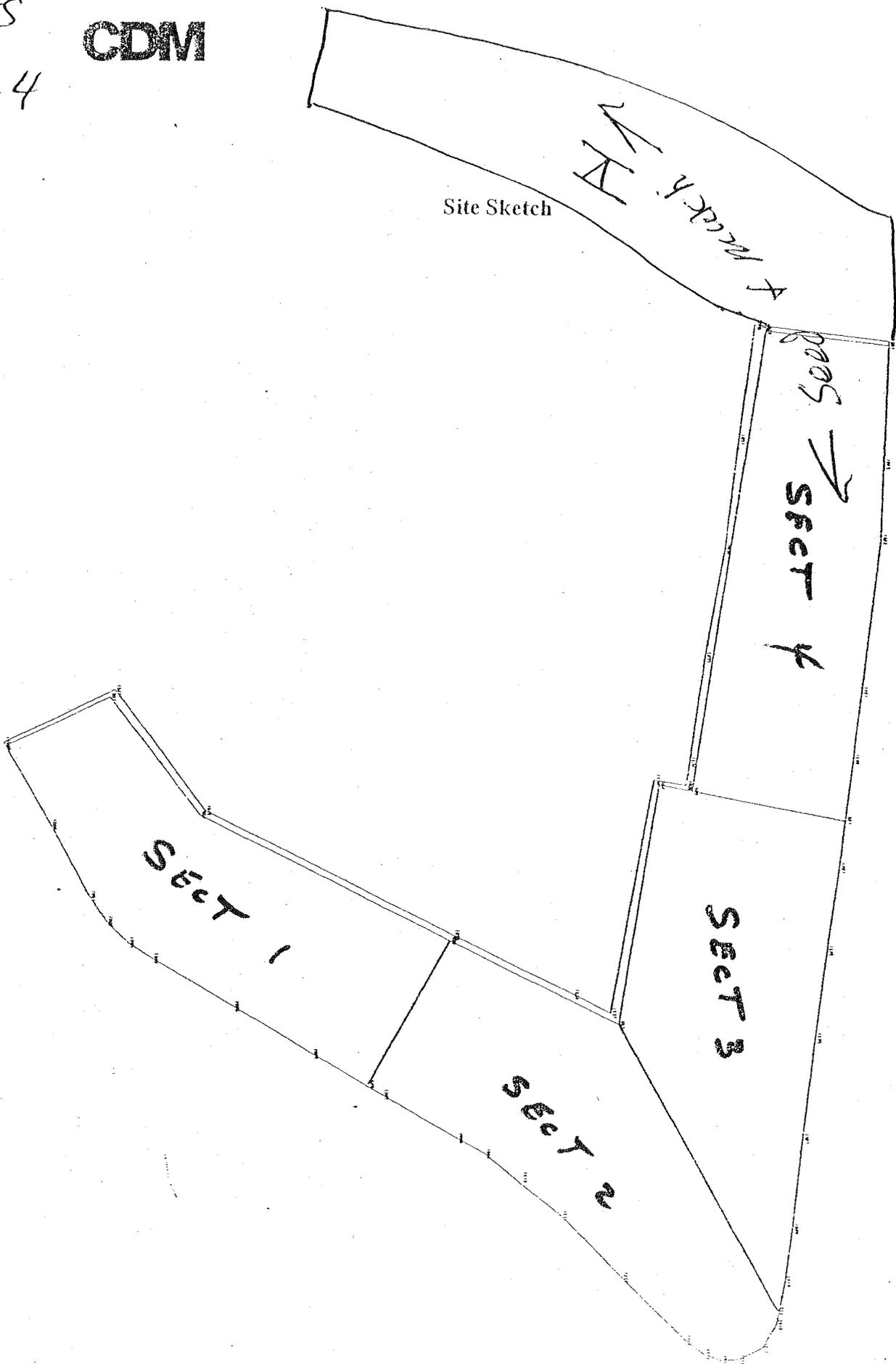


<p style="text-align: center;">CAMP DRESSER & McKEE <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>	<p>Sheet No. : 1 of 2 Report #: 155 Date: 8-26-04 Weather: PC low 65 high 84</p>
<p style="text-align: center;">WORK AND EQUIPMENT</p>	<p style="text-align: center;">VISITORS</p>
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>	<p style="text-align: center;">MATERIALS RECEIVED</p>
<p>WORK COMPLETED: Item No. 7: Excavate, Transport and Install Protective Soil Layer Material. Contractor continued on protective cover in Phases V. Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area. Contractor continued placement of Topsoil in Phases IV and seeded in phase III. Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor continued shaping Berms in Phases IV.</p>	<p style="text-align: center;">COMMENT</p>
<p>RESULTS: none</p>	<p style="text-align: center;">CORRESPONDING DATA SHEETS</p>
<p>BY: </p>	<p style="text-align: center;">Site sketch</p>
<p style="text-align: center;">REVIEWED BY:</p>	<p style="text-align: center;">APPROVED BY: </p>
<p style="text-align: center;">PROJECT ENGINEER</p>	<p style="text-align: center;">CERTIFYING ENGINEER</p>

LOSS
26-4

CDM

Site Sketch





DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-27-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 87 Lo: 70 _____ Clear x Partly _____ Cloudy 0 Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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: _____

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 Material.

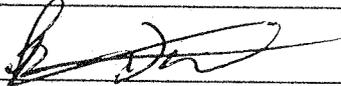
Contractor continued on protective cover in Phases V.

Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area.

Contractor continued placement of Topsoil in Phases IV and seeded in phase III.

Item No. 10: Furnish and Install Final Cover Swale and Berms.

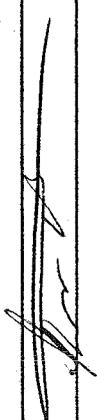
Contractor continued shaping Berms in Phases IV.

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 1 Report #: 156 Date: 8-27-04 Weather: PC low 70 high 87</p>
WORK AND EQUIPMENT	VISITORS
<p>EQUIPMENT: CAT D6M, CAT D4C, Volvo end dumps, 563 smooth drum roller</p> <p>WORK COMPLETED: Item No. 7: Excavate, Transport and Install Protective Soil Layer Material. Contractor continued on protective cover in Phases V. Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area. Contractor continued placement of Topsoil in Phases IV and seeded in phase III. Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor continued shaping Berms in Phases IV.</p>	<p>MATERIALS RECEIVED</p> <p>none</p> <p>COMMENT</p> <p>None</p> <p>CORRESPONDING DATA SHEETS</p> <p>Site sketch</p>
<p>RESULTS: none</p> <p>BY: </p>	<p>APPROVED BY: </p>
CQA INSPECTOR	CERTIFYING ENGINEER
REVIEWED BY:	PROJECT ENGINEER



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-28-04
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				
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 x

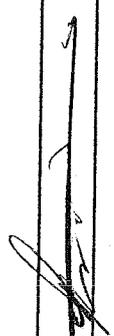
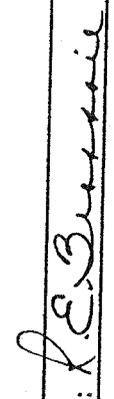
Signed 

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 1 Report #: 157 Date: 8-28-04 Weather: PC low 66 high 89
<p align="center">WORK AND EQUIPMENT</p>		<p>VISITORS</p>
<p>EQUIPMENT:</p>		<p>MATERIALS RECEIVED</p>
<p>WORK COMPLETED:</p> <p>Contractor not working today</p>		<p>none</p>
<p>RESULTS:</p> <p>None</p>		<p>COMMENT</p>
<p>BY: </p>		<p>CORRESPONDING DATA SHEETS</p>
<p align="center">CQA INSPECTOR</p>		<p>None</p>
<p>REVIEWED BY:</p>		<p>APPROVED BY: </p>
<p align="center">PROJECT ENGINEER</p>		<p>CERTIFYING ENGINEER</p>



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-29-04

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				
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		*		*

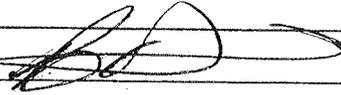
*Designates subcontractors

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 x 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 #: 158 Date: 8-29-04 Weather: Rain .12 low 70 high 81 </p>
<p align="center">WORK AND EQUIPMENT</p>		<p align="center">VISITORS</p>
<p>EQUIPMENT:</p>		<p align="center">MATERIALS RECEIVED</p>
<p>WORK COMPLETED: Contractor not working today</p>		<p align="center">none</p>
<p>RESULTS: None</p>		<p align="center">COMMENT</p>
<p>BY: </p>		<p align="center">CORRESPONDING DATA SHEETS</p>
<p align="center">CQA INSPECTOR</p>		<p align="center">None</p>
<p>REVIEWED BY:</p>		<p align="center">APPROVED BY: <i>R.E. Buxton</i></p>
<p align="center">PROJECT ENGINEER</p>		<p align="center">CERTIFYING ENGINEER</p>

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-30-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 81 Lo: 70 _____ Clear Partly _____ Cloudy 2.57 Precipitation
 Contract Section or Division: _____
 Contractor and Subcontractors: _____

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

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.)

No work today 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 1 Report #: 159 Date: 8-30-04 Weather: 2.57 rain low 70 high 81</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: <u>No work today due to rain</u></p>		<p>none</p>
<p>RESULTS: none</p>		<p>COMMENT</p>
<p>BY: </p>		<p>CORRESPONDING DATA SHEETS</p>
<p align="center">CQA INSPECTOR</p>		<p>APPROVED BY: </p>
<p>REVIEWED BY:</p>		<p>CERTIFYING ENGINEER</p>
<p align="center">PROJECT ENGINEER</p>		



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 08-31-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 86 Lo: 71 _____ Clear x Partly _____ Cloudy Trace Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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: _____

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.)

No work today due to rain from yesterday, site still very wet.

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 #: 160 Date: 8-31-04 Weather: trace low 71 high 86
<p>WORK AND EQUIPMENT</p>		VISITORS
<p><u>EQUIPMENT:</u> CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>		MATERIALS RECEIVED
<p><u>WORK COMPLETED:</u> No work today due to rain from yesterday, site still very wet.</p>		none
<p><u>RESULTS:</u> none</p>		COMMENT
<p>BY: </p>		None
<p>REVIEWED BY:</p>		CORRESPONDING DATA SHEETS
<p>CQA INSPECTOR</p>		none
<p>PROJECT ENGINEER</p>		APPROVED BY: 
<p>CERTIFYING ENGINEER</p>		



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 09-01-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 86 Lo: 71 _____ Clear x Partly _____ Cloudy Trace Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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	*		*

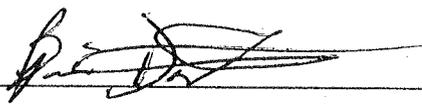
* indicates subcontractors
Activity and Location: _____

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. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area.
Contractor continued placement of Topsoil in Phases V.

Item No. 14: Cleanout Existing Sedimentation Ponds: contractor cleaning out sedimentation ponds.
*site still very wet.

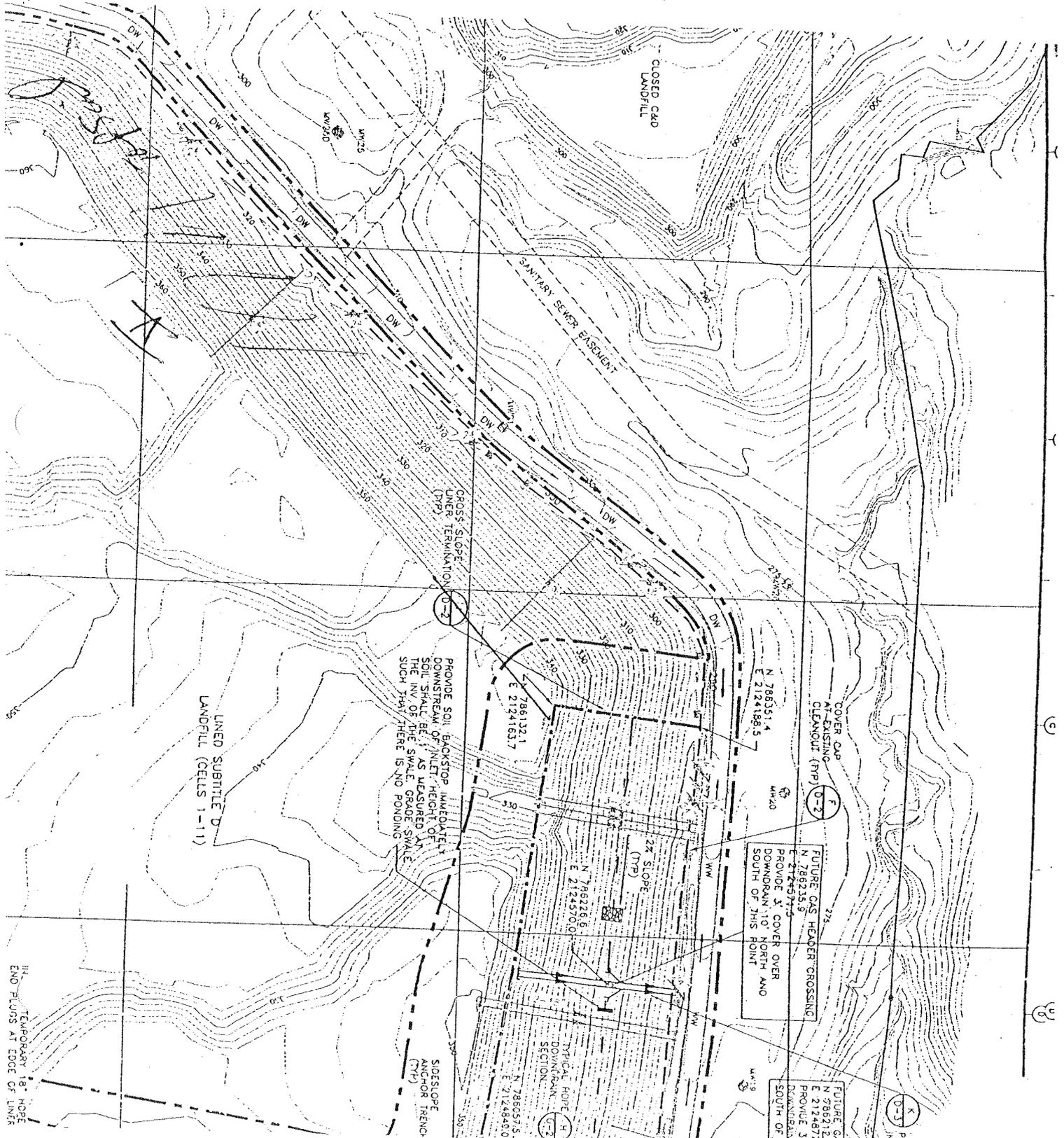
Attachments: Yes No Signed 

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

This report to be completed daily by each Project Representative

AH-161
9-1-4

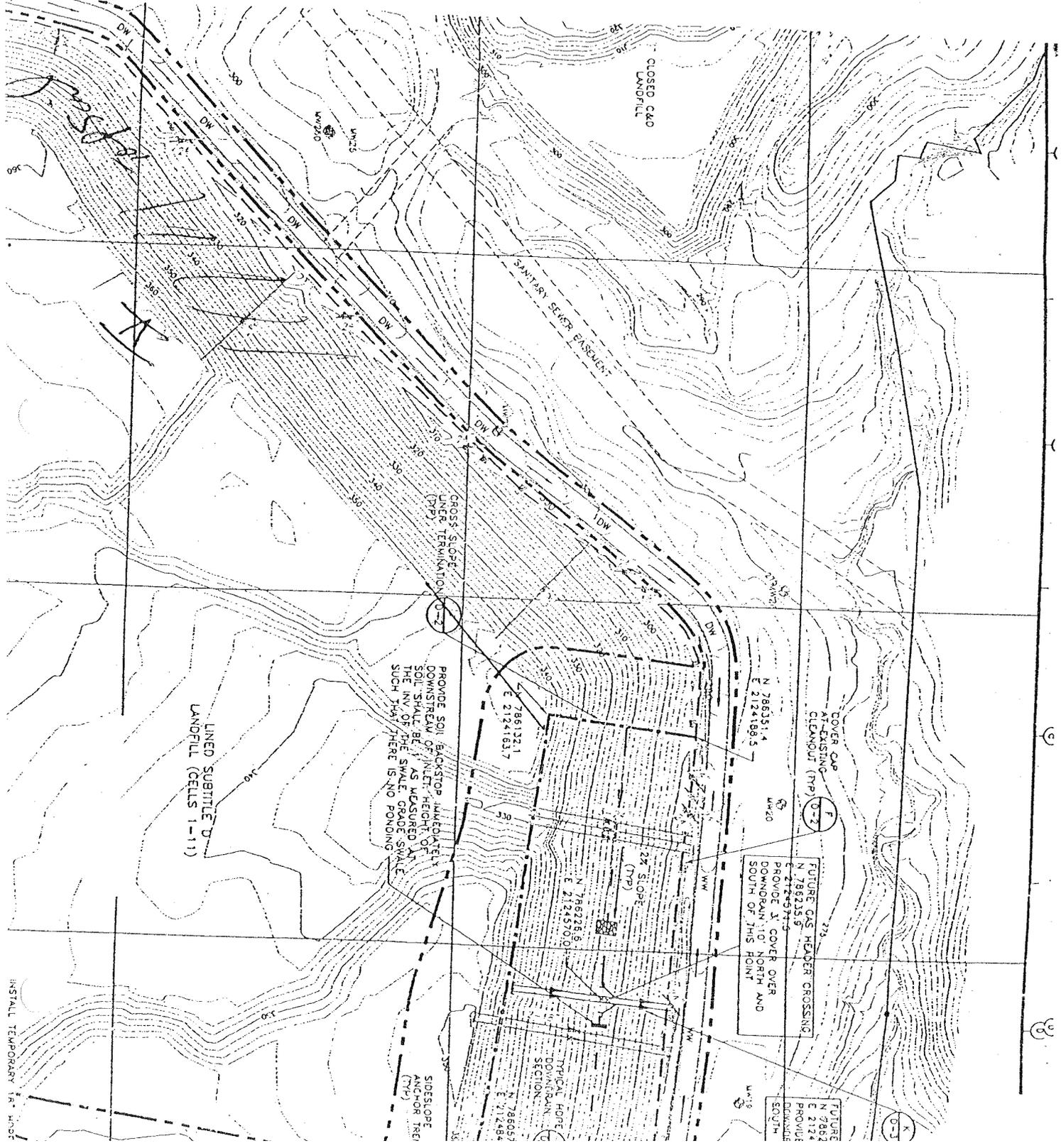
Site Sketch



<p align="center">CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>		Sheet No. : 1 of 2 Report #: 161 Date: 9-01-04 Weather: trace low 71 high 86
<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: Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area. Contractor continued placement of Topsoil in Phases V. Item No. 14: Cleanout Existing Sedimentation Ponds: contractor cleaning out sedimentation ponds. *site still very wet.</p>		<p align="center">none</p>
<p>RESULTS: none</p>		<p align="center">COMMENT</p>
<p>BY: </p>		<p align="center">CORRESPONDING DATA SHEETS</p>
<p align="center">CQA INSPECTOR</p>		<p align="center">Site sketch</p>
<p>REVIEWED BY:</p>		<p align="center">APPROVED BY: R.E. Bunnick</p>
<p align="center">PROJECT ENGINEER</p>		<p align="center">CERTIFYING ENGINEER</p>

RF-161
9-1-4

Site Sketch





DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 09-02-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 83 Lo: 64 _____ Clear x Partly _____ Cloudy .19 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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: _____

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: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area.
Contractor continued placement of Topsoil in Phases V.

Item No. 14: Cleanout Existing Sedimentation Ponds: contractor cleaning out sedimentation ponds.
*site still very wet.

Item No. 10: Furnish and Install Final Cover Swale and Berms.

Contractor continued shaping Berms in Phases IV and V.

Item No. 16: Furnish and install Permanent Seeding and Mulching.

Grass is growing well, there are some areas that need attention. Completed Phase III.

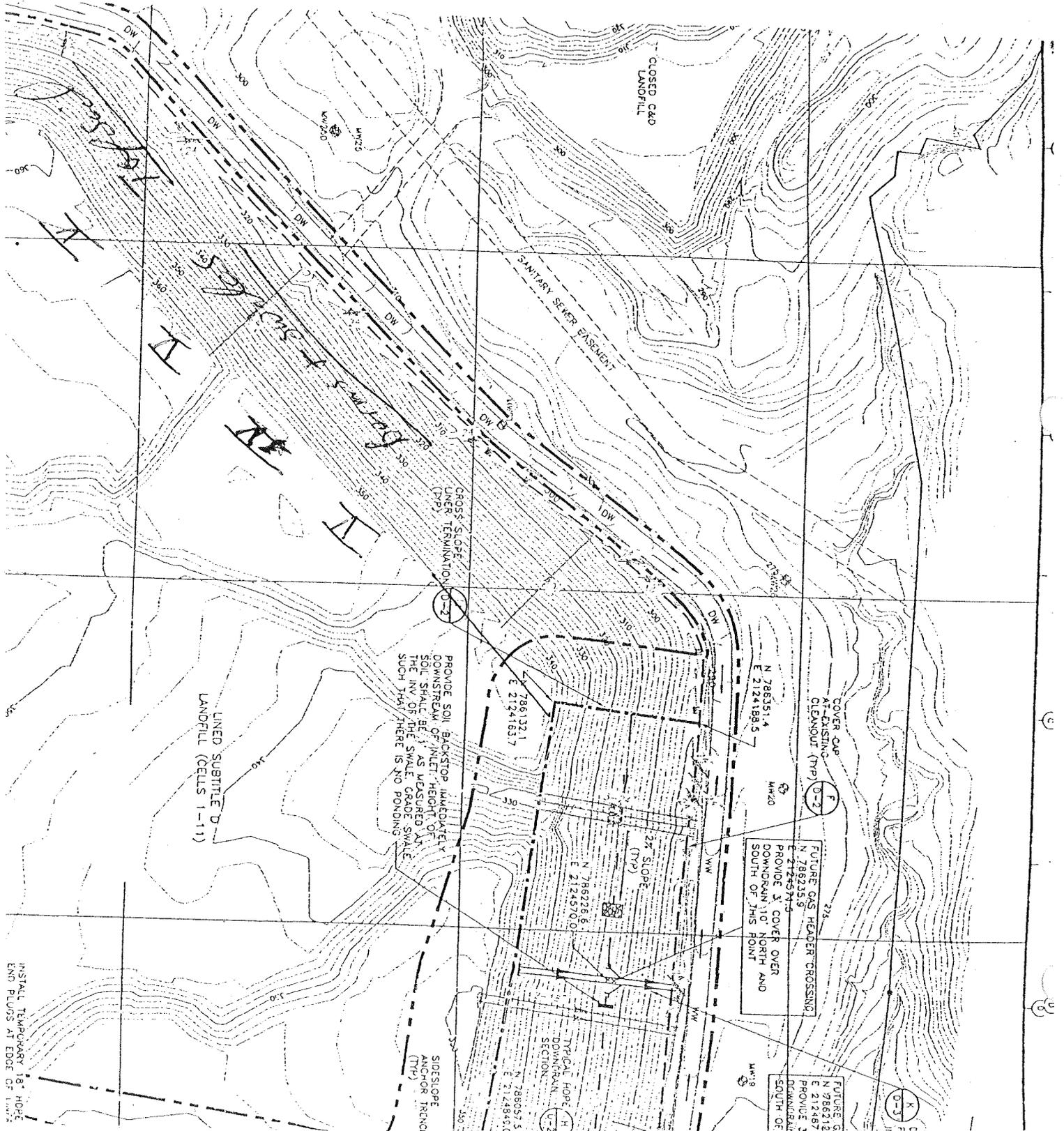
Attachments: Yes No Signed 

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

This report to be completed daily by each Project Representative

RPT-162
9-2-4

Site Sketch





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

Sheet No.: 1 of 2 Report #: 162
 Date: 9-02-04
 Weather: .19rain low 63 high 84

WORK AND EQUIPMENT

VISITORS

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

MATERIALS RECEIVED

none

WORK COMPLETED:

- Item No. 8: Excavate, Transport and Install Vegetative Layer Material From Onsite Borrow Area. Contractor continued placement of Topsoil in Phases V.
- Item No. 14: Cleanout Existing Sedimentation Ponds: contractor cleaning out sedimentation ponds. *site still very wet.
- Item No. 10: Furnish and Install Final Cover Swale and Berms. Contractor continued shaping Berms in Phases IV and V.
- Item No. 16: Furnish and install Permanent Seeding and Mulching. Grass is growing well, there are some areas that need attention. Completed Phase III.

COMMENT

None

CORRESPONDING DATA SHEETS

Site sketch

RESULTS:

none

BY:



APPROVED BY:



CQA INSPECTOR

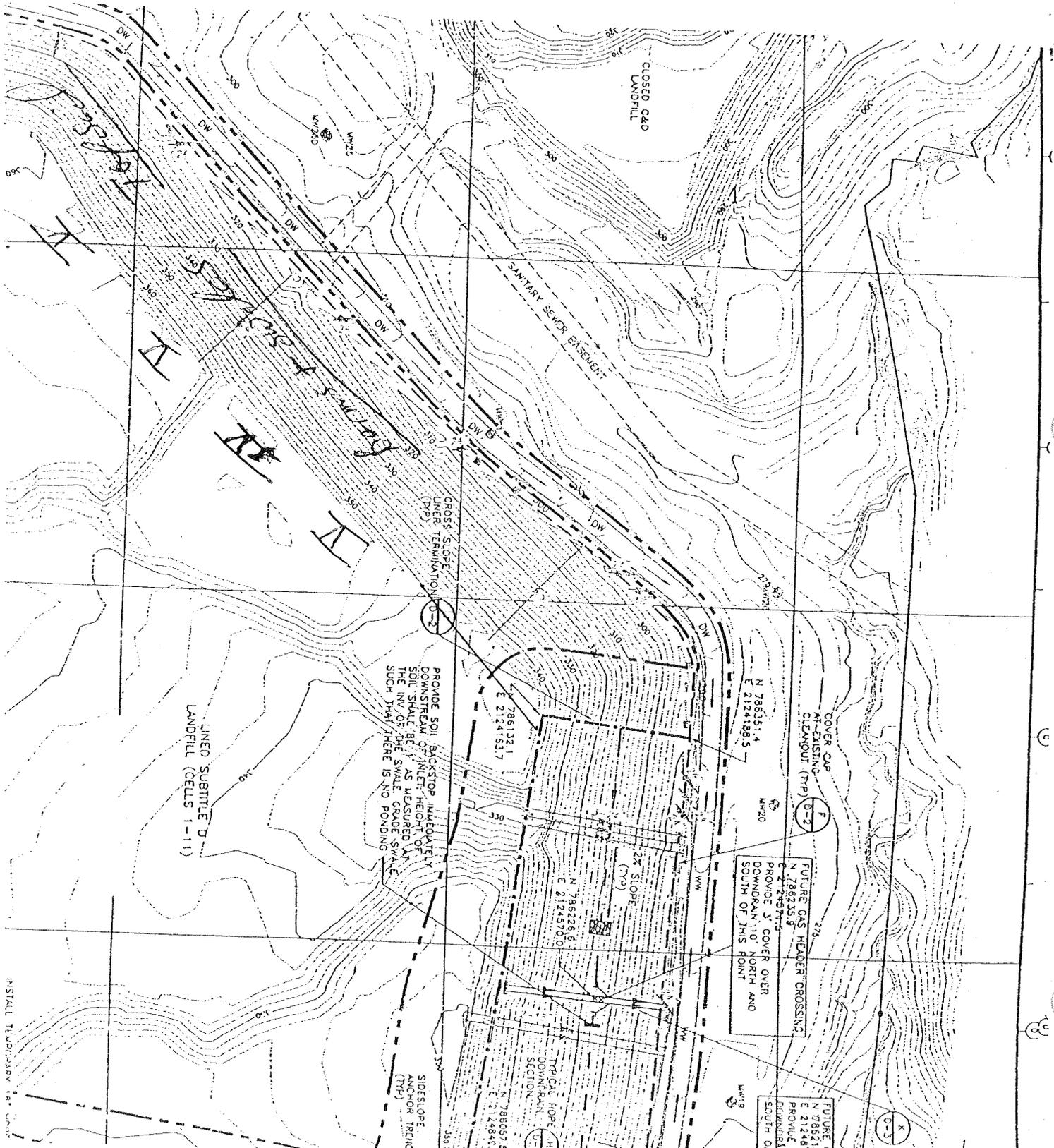
CERTIFYING ENGINEER

REVIEWED BY:

PROJECT ENGINEER

RPT-162
9-2-4

Site Sketch



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 09-03-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 78 Lo: 59 _____ Clear Partly _____ Cloudy .89 Precipitation
 Contract Section or Division: _____
 Contractor and Subcontractors: _____

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

* Signates subcontractors
 City 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.)

No work today 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>Sheet No. : 1 of 1 Report #: 163 Date: 9-03-04 Weather: .89rain low 59 high 78</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>MATERIALS RECEIVED</p> <p>none</p>	<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>
<p>COMMENT</p>	<p>WORK COMPLETED: <u>No work today due to rain.</u></p>
<p>None</p>	<p>RESULTS: none</p>
<p>CORRESPONDING DATA SHEETS</p> <p>none</p>	<p>APPROVED BY: <i>R.E. Brown</i></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: 09-04-04

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				
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		*		*

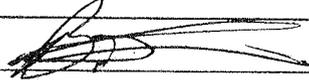
*Designates subcontractors

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 x 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 #: 164 Date: 9-04-04 Weather: Rain low 58 high 78
WORK AND EQUIPMENT		VISITORS
EQUIPMENT:		MATERIALS RECEIVED
WORK COMPLETED: Contractor not working today		none
RESULTS: None		COMMENT
BY: 		CORRESPONDING DATA SHEETS
REVIEWED BY:	CQA INSPECTOR	None
	PROJECT ENGINEER	APPROVED BY: 
		CERTIFYING ENGINEER



DAILY CONSTRUCTION PROGRESS REPORT

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

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				
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		*		*

* Denotes subcontractors

Agency 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 Report #: 165 Date: 9-05-04 Weather: PC low 55 high 71
WORK AND EQUIPMENT	VISITORS
EQUIPMENT:	MATERIALS RECEIVED
WORK COMPLETED: Contractor not working today	none
RESULTS: None	COMMENT
BY: 	CORRESPONDING DATA SHEETS
CQA INSPECTOR	APPROVED BY: 
PROJECT ENGINEER	CERTIFYING ENGINEER
REVIEWED BY:	



DAILY CONSTRUCTION PROGRESS REPORT

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

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 78 Lo: 59 _____ Clear x Partly _____ Cloudy .89 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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

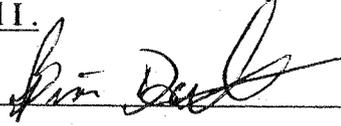
Activity and Location: _____

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. 14: Cleanout Existing Sedimentation Ponds: Contractor could not work on major items due to wet weather. Contractor cleaning out sedimentation pond I.

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 #: 166 Date: 9-06-04 Weather: .89rain low 59 high 78
<p>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. 14: Cleanout Existing Sedimentation Ponds: Contractor could not work on major items due to wet weather. Contractor cleaning out sedimentation pond I.</p>		<p>COMMENT</p>
<p>RESULTS: none</p>		<p>CORRESPONDING DATA SHEETS</p>
<p>BY: </p>		<p>APPROVED BY: </p>
<p>COA 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: 09-07-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 74 Lo: 46 _____ Clear x Partly _____ Cloudy 0 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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	*		*

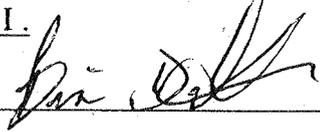
* indicates subcontractors

Activity and Location: _____

Defective work noted today to be corrected later: None

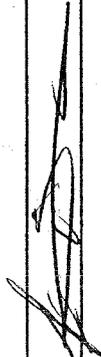
Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor could not work on major items due to wet weather. Contractor cleaning out sedimentation pond I.

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 #: 167 Date: 9-07-04 Weather: PC low 56 high 74
<p align="center">WORK AND EQUIPMENT</p>		VISITORS
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>		MATERIALS RECEIVED
<p>WORK COMPLETED: Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor could not work on major items due to wet weather. Contractor cleaning out sedimentation pond I.</p>		none
<p>RESULTS: none</p>		COMMENT
		None
		CORRESPONDING DATA SHEETS
		none
<p>BY: </p>		APPROVED BY: <i>R.E. Bunnick</i> CERTIFYING ENGINEER
<p align="center">CQA INSPECTOR</p>		
<p align="center">PROJECT ENGINEER</p>		
<p>REVIEWED BY:</p>		



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 09-08-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 77 Lo: 47 _____ Clear x Partly _____ Cloudy 68 Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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: _____

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. 14: Cleanout Existing Sedimentation Ponds: Contractor could not work on major items due to wet weather. Contractor cleaning out sedimentation pond III.

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 1 Report #: 168 Date: 9-08-04 Weather: .68 rain low 47 high 77</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>none</p>	<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>
<p>COMMENT</p> <p>None</p>	<p>WORK COMPLETED: Item No. 14: Cleanup Existing Sedimentation Ponds: Contractor could not work on major items due to wet weather. Contractor cleaning out sedimentation pond I.</p>
<p>CORRESPONDING DATA SHEETS</p> <p>none</p>	<p>RESULTS: none</p>
<p>APPROVED BY: <i>R.E. [Signature]</i></p>	<p>BY: <i>[Signature]</i></p>
<p>CERTIFYING ENGINEER</p>	<p>CQA INSPECTOR</p>
<p></p>	<p>REVIEWED BY:</p> <p>PROJECT ENGINEER</p>



DAILY CONSTRUCTION PROGRESS REPORT

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

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 85 Lo: 68 _____ Clear x Partly _____ Cloudy Trace Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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	*		*

*F designates subcontractors

City 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.)

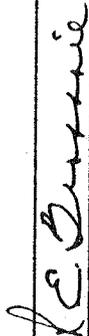
Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor could not work on major items due to wet weather. Contractor cleaning out sedimentation pond III.

Attachments: Yes No Signed *Brian D. [Signature]*

Description: _____

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

This report to be completed daily by each Project Representative

<p>Sheet No. : 1 of 1 Report #: 169 Date: 9-09-04 Weather: .68 rain low68 high 85</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>none</p>	<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>
<p>COMMENT</p>	<p>WORK COMPLETED: Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor could not work on major items due to wet weather. Contractor cleaning out sedimentation pond I.</p>
<p>None</p>	<p>RESULTS: none</p>
<p>CORRESPONDING DATA SHEETS</p> <p>none</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>REVIEWED BY:</p>



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 09-10-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 83 Lo: 63 _____ Clear Partly _____ Cloudy Trace Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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: _____

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. 14: Cleanout Existing Sedimentation Ponds: Contractor could not work on major items due to wet weather. Contractor cleaning out sedimentation pond III.

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 #: 170 Date: 9-10-04 Weather: trace low63 high 83
<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: Item No. 14: Cleanup Existing Sedimentation Ponds: Contractor could not work on major items due to wet weather. Contractor cleaning out sedimentation pond III.</p>		none
<p>RESULTS: none</p>		<p align="center">COMMENT</p>
<p>BY: </p>		None
<p align="center">CQA INSPECTOR</p>		<p align="center">CORRESPONDING DATA SHEETS</p>
<p>REVIEWED BY:</p>		none
<p align="center">PROJECT ENGINEER</p>		<p align="center">APPROVED BY: R.E. Sullivan</p>
<p align="center">PROJECT ENGINEER</p>		<p align="center">CERTIFYING ENGINEER</p>



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 09-11-04

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				
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		*		*

*Denotes subcontractors

Agency 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

<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 #: 171 Date: 9-11-04 Weather: PC low 48 high 70 </p>
<p>WORK AND EQUIPMENT</p>	<p>VISITORS</p>
<p>EQUIPMENT:</p>	<p>MATERIALS RECEIVED</p>
<p>WORK COMPLETED:</p>	<p>none</p>
<p>Contractor not working today</p>	<p>COMMENT</p>
<p>RESULTS:</p>	<p>None</p>
<p>None</p>	<p>CORRESPONDING DATA SHEETS</p>
<p>None</p>	<p>None</p>
<p>BY:</p>	<p>APPROVED BY: <i>R.E. Quatro</i></p>
<p>CQA INSPECTOR</p>	<p>CERTIFYING ENGINEER</p>
<p>REVIEWED BY:</p>	<p></p>
<p>PROJECT ENGINEER</p>	<p></p>



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 09-12-04

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				
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		*		*

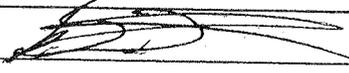
*Designates subcontractors

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

<p>CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT.</p>		<p>Sheet No.: 1 of 1 Report #: 172 Date: 9-12-04 Weather: PC low 45 high 76</p>	
<p>WORK AND EQUIPMENT</p>		<p>VISITORS</p>	
<p><u>EQUIPMENT:</u></p>		<p>MATERIALS RECEIVED</p>	
<p><u>WORK COMPLETED:</u> Contractor not working today</p>		<p>none</p>	
<p><u>RESULTS:</u> None</p>		<p>COMMENT</p>	
<p><u>BY:</u> </p>		<p>None</p>	
<p>CQA INSPECTOR</p>		<p>CORRESPONDING DATA SHEETS</p>	
<p>REVIEWED BY:</p>		<p>APPROVED BY: <i>R.E. Quinlan</i></p>	
<p>PROJECT ENGINEER</p>		<p>CERTIFYING ENGINEER</p>	



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 09-13-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 78 Lo: 60 _____ Clear x Partly _____ Cloudy 1.19 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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	*		*

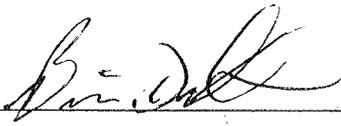
*Designates subcontractors

City 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.)

No work due to rain.

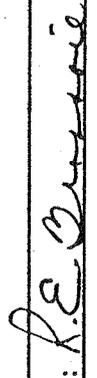
Attachments: Yes No Signed 

Description: _____

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

This report to be completed daily by each Project Representative



<p align="center">CAMP DRESSER & McKEE (North Wake Subtitle D Landfill Phase I Closure) DAILY CONSTRUCTION QUALITY ASSURANCE REPORT</p>		Sheet No. : 1 of 1 Report #: 173 Date: 9-13-04 Weather: 1.19rain low60 high 78
<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: No work due to rain.</p>		<p>none</p>
<p>RESULTS: none</p>		<p>COMMENT</p>
<p>BY: </p>		<p>CORRESPONDING DATA SHEETS</p>
<p align="center">CQA INSPECTOR</p>		<p>none</p>
<p>REVIEWED BY:</p>		<p>APPROVED BY: </p>
<p align="center">PROJECT ENGINEER</p>		<p>CERTIFYING ENGINEER</p>

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 09-14-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 72 Lo: 56 _____ Clear x Partly _____ Cloudy 0 Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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

Agency 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. 16: Furnish and install Permanent Seeding and Mulching.

Contractor seeded and mulched approximately 40% of Phase IV starting at the SW end. Some wash-outs from rain will need to be corrected.

Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III approximately 85% complete. Contractor also reshaping rip-rap perimeter ditch, approximately 95% complete.

Attachments: Yes No Signed 

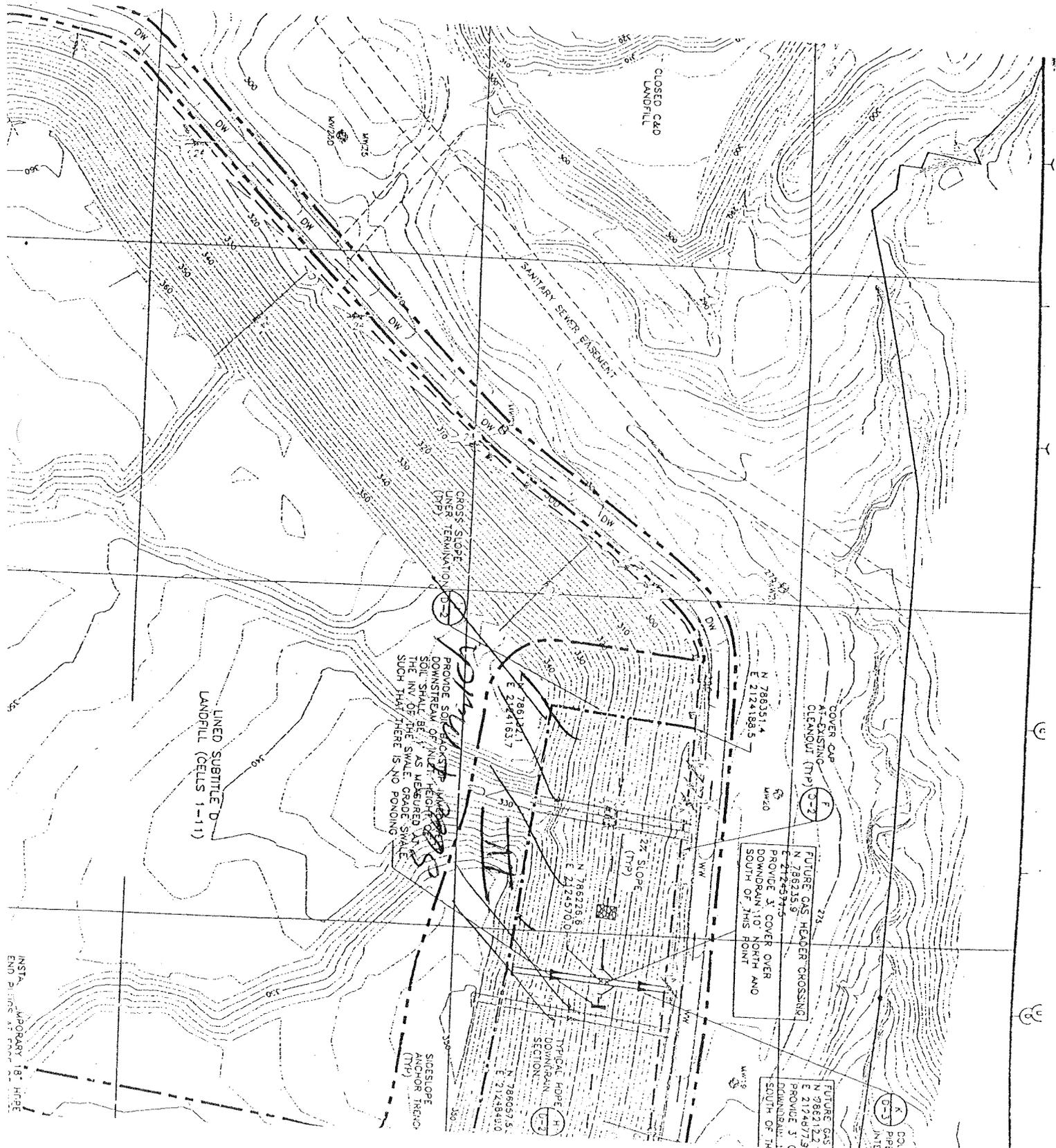
Description: _____

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

This report to be completed daily by each Project Representative

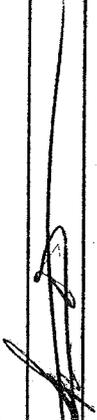
9-14-4
RPT-174

Site Sketch



INSTA. TEMPORARY 18" H.P.E. END POINTS AT POINT 2

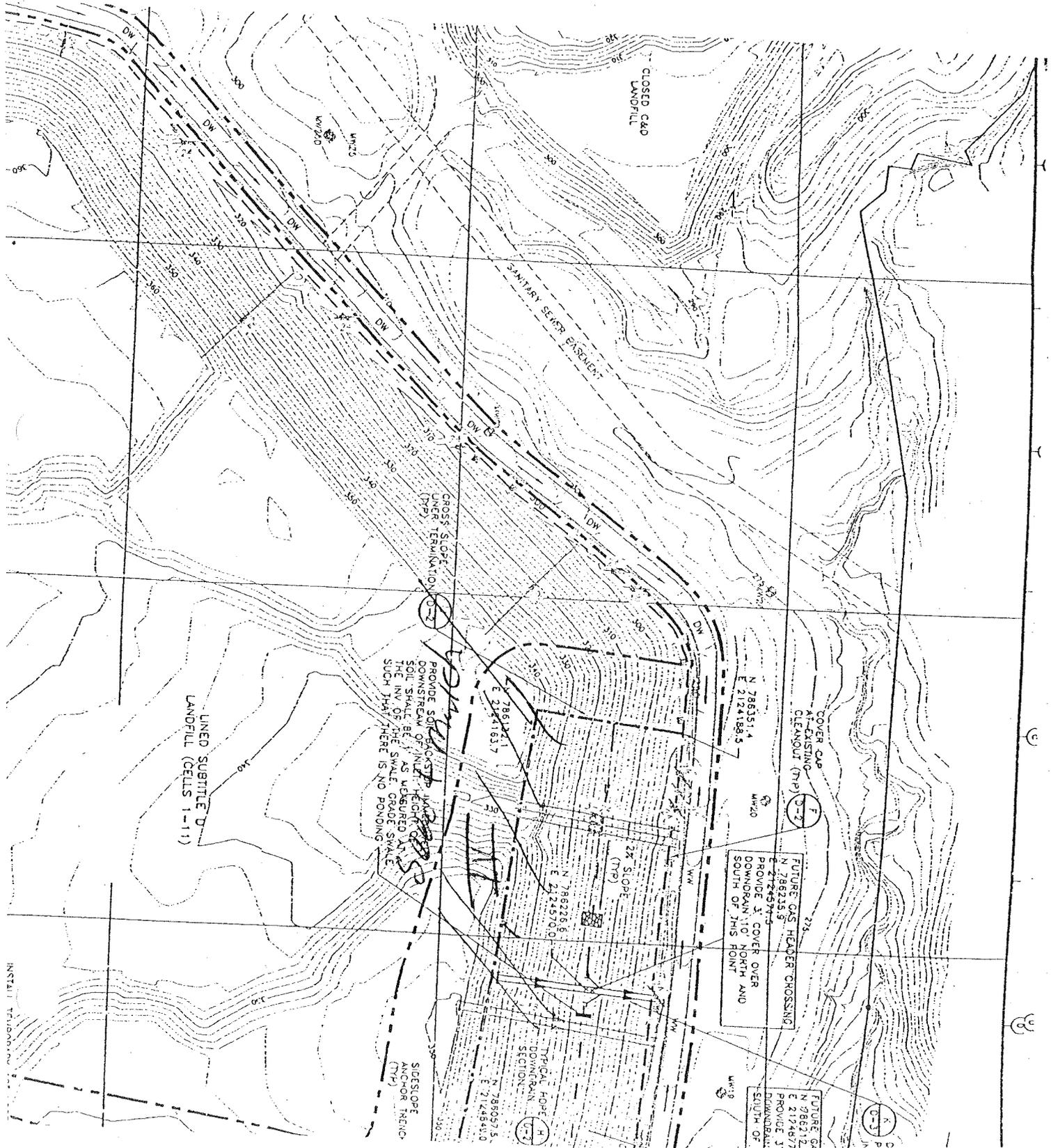
3
3

<p>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 #: 174 Date: 9-14-04 Weather: PC low56 high 72</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>MATERIALS RECEIVED</p>
<p><u>WORK COMPLETED:</u> Item No. 16: Furnish and install Permanent Seeding and Mulching. Contractor seeded and mulched approximately 40% of Phase IV starting at the SW end. Some wash-outs from rain will need to be corrected.</p>		<p>COMMENT</p>
<p>Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III approximately 85% complete. Contractor also reshaping rip-rap perimeter ditch, approximately 95% complete.</p>		<p>CORRESPONDING DATA SHEETS</p>
<p><u>RESULTS:</u> none</p>		<p>none</p>
<p>BY: </p>		<p>APPROVED BY: <i>R.E. Sullivan</i></p>
<p>CQA INSPECTOR</p>		<p>CERTIFYING ENGINEER</p>
<p>PROJECT ENGINEER</p>		
<p>REVIEWED BY:</p>		

9-14-4

387-174

Site Sketch



LINED SUBTILE 'D' LANDFILL (CELLS 1-11)

CLOSED C&O LANDFILL

SANITARY SEWER EASTMENT

GROSS SLOPE UNDER TERMINATION (TYP)

PROVIDE SOIL BACKFILL UNDER TYPICAL DOWNSTREAM OF INLET HEIGHT OF SOIL SHALL BE AS MEASURED IN THE INV OF THE SWALE GRADE SWALE SUCH THAT THERE IS NO PONDING

COVER CAP AT CASINO CLEANOUT (TYP)

FUTURE GAS HEADER CROSSING PROVIDE 3' COVER OVER DOWNDRAIN 10' NORTH AND SOUTH OF THIS POINT

FUTURE GAS DOWNDRAIN SOUTH OF

TYPICAL FUTURE DOWNDRAIN SECTION

INSTALL TYPICAL

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 09-15-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 72 Lo: 56 _____ Clear x Partly _____ Cloudy .09 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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: _____

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.)

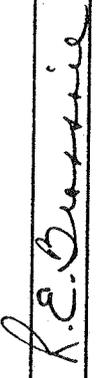
Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III approximately 85% complete. Contractor also reshaping rip-rap perimeter ditch, approximately 95% complete.

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 1 Report #: 175 Date: 9-15-04 Weather: .09rain low 56 high 72
<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. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III approximately 85% complete. Contractor also reshaping rip-rap perimeter ditch, approximately 95% complete.</p>		<p>none</p>
<p>RESULTS: none</p>		<p>COMMENT</p>
<p>BY: </p>		<p>None</p>
<p align="center">CQA INSPECTOR</p>		<p>CORRESPONDING DATA SHEETS</p>
<p>REVIEWED BY:</p>		<p>none</p>
<p align="center">PROJECT ENGINEER</p>		<p>APPROVED BY: </p>
		<p>CERTIFYING ENGINEER</p>

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 09-16-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 71 Lo: 42 _____ Clear x Partly _____ Cloudy .09 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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	*		*

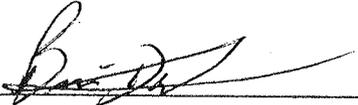
*Designates subcontractors

Address 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. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III approximately 85% complete. Contractor also reshaping rip-rap perimeter ditch, approximately 95% complete.

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 #: 176 Date: 9-16-04 Weather: .09rain low42 high 71
<p align="center">WORK AND EQUIPMENT</p>		VISITORS
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>		MATERIALS RECEIVED
<p>WORK COMPLETED: Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III approximately 85% complete. Contractor also reshaping rip-rap perimeter ditch, approximately 95% complete.</p>		none
<p>RESULTS: none</p>		COMMENT
<p>BY: </p>		None
<p>REVIEWED BY:</p>		CORRESPONDING DATA SHEETS
<p align="center">CQA INSPECTOR</p>		none
<p align="center">PROJECT ENGINEER</p>		APPROVED BY: 
		CERTIFYING ENGINEER

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 09-17-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 70 Lo: 38 _____ Clear x Partly _____ Cloudy .96 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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	*		*

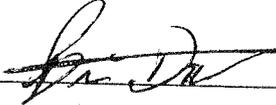
*Designates subcontractors

Activity and Location: _____

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.)

No work 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 <i>(North Wake Subtitle D Landfill Phase I Closure)</i> DAILY CONSTRUCTION QUALITY ASSURANCE REPORT		Sheet No.: 1 of 1 Report #: 177 Date: 9-17-04 Weather: .96rain low38 high 70
WORK AND EQUIPMENT		VISITORS
EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller		MATERIALS RECEIVED
WORK COMPLETED: <u>No work due to rain.</u>		none
RESULTS: none		COMMENT
		None
		CORRESPONDING DATA SHEETS
		none
BY: 	APPROVED BY: 	
REVIEWED BY:	CQA INSPECTOR	CERTIFYING ENGINEER
	PROJECT ENGINEER	



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 09-18-04

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				
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

by 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



<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: 9-18-04 Weather: PC	Report #: 178 low 46 high 78
<p>WORK AND EQUIPMENT</p>		<p align="center">VISITORS</p>	
<p>EQUIPMENT:</p>		<p align="center">MATERIALS RECEIVED</p>	
<p>WORK COMPLETED:</p> <p>Contractor not working today</p>		<p align="center">none</p>	
<p>RESULTS:</p> <p>None</p>		<p align="center">COMMENT</p>	
<p>BY: </p>		<p align="center">CORRESPONDING DATA SHEETS</p>	
<p align="center">CQA INSPECTOR</p>		<p align="center">None</p>	
<p>REVIEWED BY:</p>		<p align="center">APPROVED BY: K.E. Butts</p>	
<p align="center">PROJECT ENGINEER</p>		<p align="center">CERTIFYING ENGINEER</p>	



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 09-19-04

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				
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		*		*

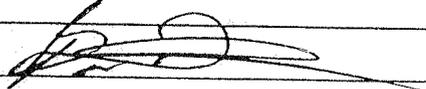
*Designates subcontractors

Activity and Location: _____

Defective work noted today to be corrected later: None

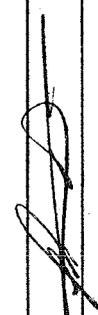
Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

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 Report #: 179 Date: 9-19-04 Weather: PC low 66 high 79
WORK AND EQUIPMENT		VISITORS
EQUIPMENT:		MATERIALS RECEIVED
WORK COMPLETED: Contractor not working today		none
RESULTS: None		COMMENT None
BY: 		CORRESPONDING DATA SHEETS None
	CQA INSPECTOR	APPROVED BY: 
REVIEWED BY:	PROJECT ENGINEER	CERTIFYING ENGINEER

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 09-20-04
Phase I Closure Project No.: 0617-42378
 Location: North Wake Landfill Contract No.: _____
 Weather: Hi 67 Lo: 58 _____ Clear x Partly _____ Cloudy .0 Precipitation _____
 Contract Section or Division: _____
 Contractor and Subcontractors: _____

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

Agency 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. 16: Furnish and install Permanent Seeding and Mulching.

Contractor seeded and mulched Phase IV and V. Some wash-outs from rain will need to be corrected.

Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III . Contractor also reshaping rip-rap perimeter ditch, approximately 98% complete.

Concrete ditch is also completed and contractor working on grass lined ditch.

Attachments: Yes No Signed 

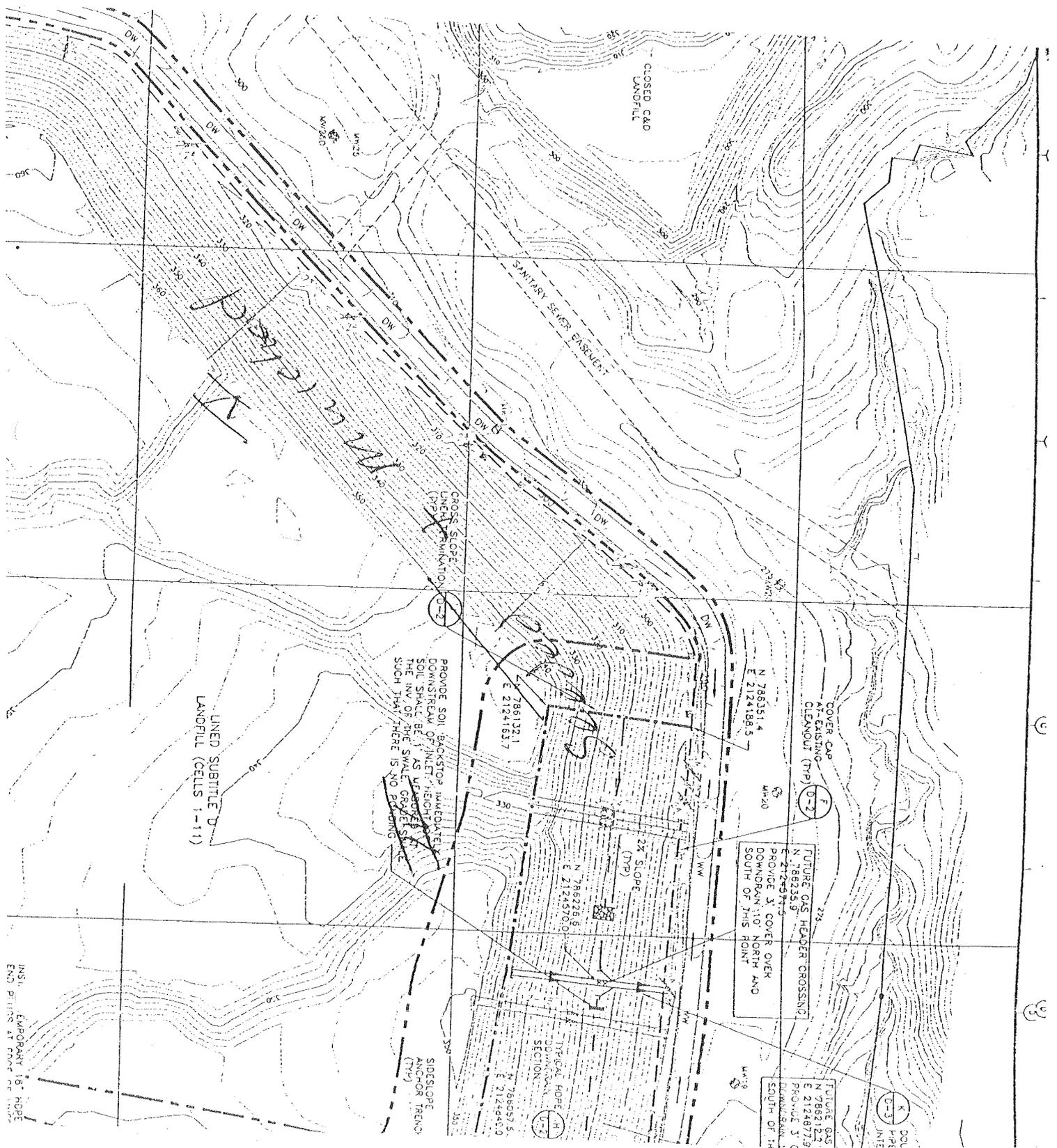
Description: _____

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

This report to be completed daily by each Project Representative

Art-18C
9-20-4

Site Sketch



INSI - EMERGENCY 18" HOPE
END PRINTS AT FRONT OF...

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

Sheet No. : 1 of 2 Report #: 180
 Date: 9-20-04
 Weather: PC low58 high 67

WORK AND EQUIPMENT

VISITORS

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

MATERIALS RECEIVED

none

WORK COMPLETED:

Item No. 16: Furnish and install Permanent Seeding and Mulching.
 Contractor seeded and mulched Phase IV and V. Some wash-outs from rain will need to be corrected.
 Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III. Contractor also reshaping rip-rap perimeter ditch, approximately 98% complete.
 Concrete ditch is also completed and contractor working on grass lined ditch.

COMMENT

None

CORRESPONDING DATA SHEETS

Site sketch

RESULTS:

none

BY:



APPROVED BY:



CQA INSPECTOR

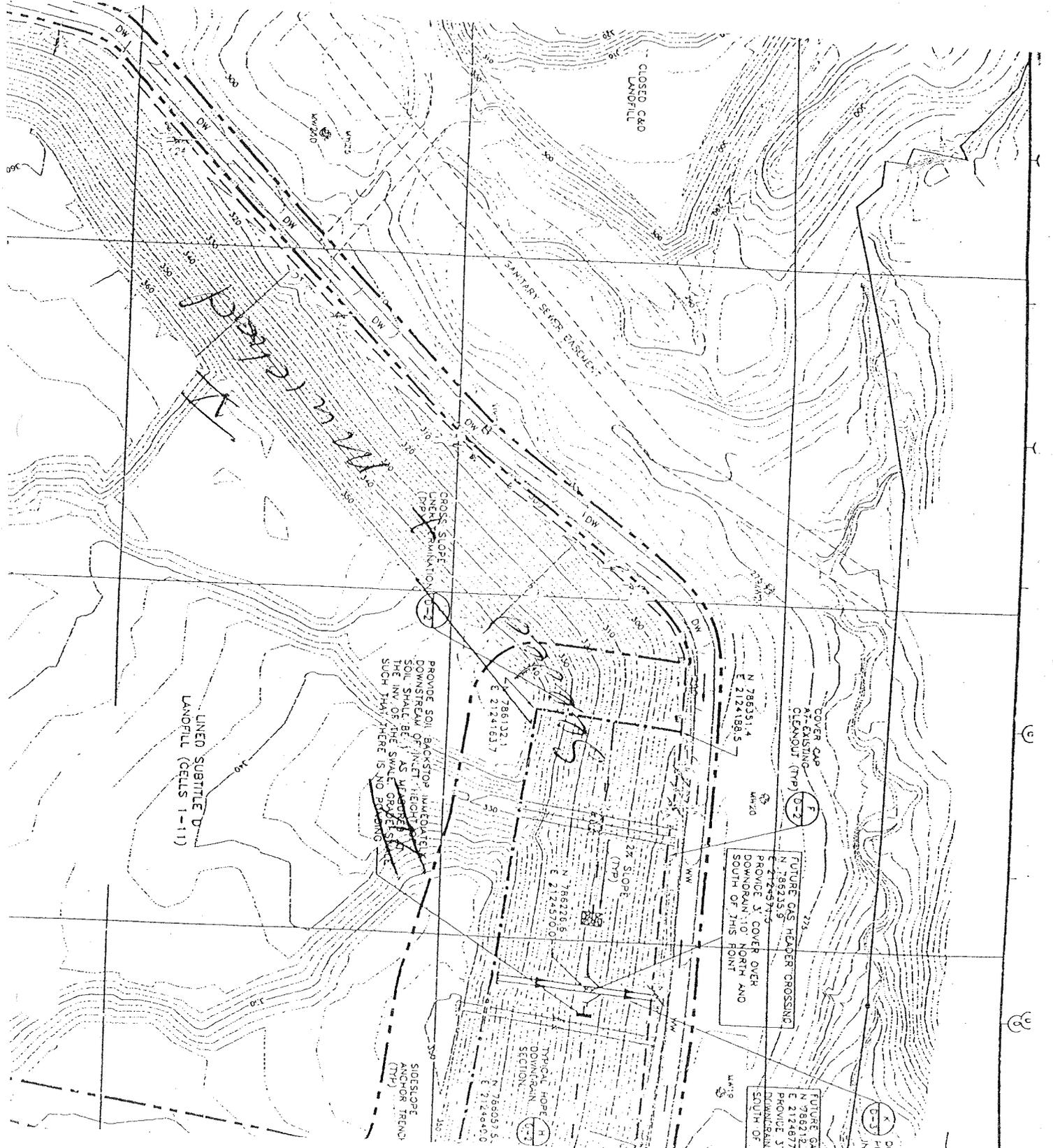
CERTIFYING ENGINEER

REVIEWED BY:

PROJECT ENGINEER

RPT-18C
9-20-4

Site Sketch





DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 09-21-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 71 Lo: 50 Clear x Partly Cloudy .0 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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: _____

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. 16: Furnish and install Permanent Seeding and Mulching.

Contractor seeded and mulched Phase IV and V. Some wash-outs from rain will need to be corrected.

Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III . Contractor also reshaping rip-rap perimeter ditch, approximately 98% complete.

Concrete ditch is also completed and contractor working on grass lined ditch.

Attachments: Yes No

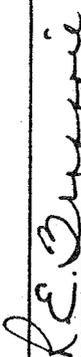
Signed 

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>		Sheet No. : 1 of 1 Report #: 181 Date: 9-21-04 Weather: PC low50 high 71
<p align="center">WORK AND EQUIPMENT</p>		VISITORS
<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>		MATERIALS RECEIVED
<p>WORK COMPLETED: Item No. 16: Furnish and install Permanent Seeding and Mulching. Contractor seeded and mulched Phase IV and V. Some wash-outs from rain will need to be corrected.</p>		none
<p>Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III. Contractor also reshaping rip-rap perimeter ditch, approximately 98% complete. Concrete ditch is also completed and contractor working on grass lined ditch.</p>		COMMENT
<p>RESULTS: none</p>		None
<p>BY: </p>		CORRESPONDING DATA SHEETS
<p align="center">CQA INSPECTOR</p>		Site sketch
<p>REVIEWED BY:</p>		APPROVED BY:  CERTIFYING ENGINEER
<p align="center">PROJECT ENGINEER</p>		

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 09-22-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 71 Lo: 50 _____ Clear Partly _____ Cloudy 0 Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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: _____

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.)

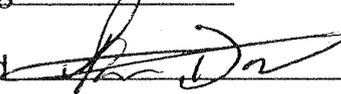
Item No. 16: Furnish and install Permanent Seeding and Mulching.

Contractor seeded and mulched Phase IV and V. Some wash-outs from rain will need to be corrected.

Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III . Contractor also reshaping rip-rap perimeter ditch, approximately 98% complete.

Concrete ditch is also completed and contractor working on grass lined ditch.

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 #: 182
 Date: 9-22-04
 Weather: PC low50 high 71

WORK AND EQUIPMENT

VISITORS

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

MATERIALS RECEIVED

WORK COMPLETED:

Item No. 16: Furnish and install Permanent Seeding and Mulching.
 Contractor seeded and mulched Phase IV and V. Some wash-outs from rain will need to be corrected.

COMMENT

None

Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III . Contractor also reshaping rip-rap perimeter ditch, approximately 98% complete.

CORRESPONDING DATA SHEETS

Site sketch

Concrete ditch is also completed and contractor working on grass lined ditch.

RESULTS:

none

BY: 

APPROVED BY: 

CQA INSPECTOR

CERTIFYING ENGINEER

REVIEWED BY:

PROJECT ENGINEER

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 09-23-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 85 Lo: 53 _____ Clear x Partly _____ Cloudy 0 Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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: _____

Defective work noted today to be corrected later: None

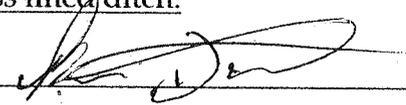
Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 16: Furnish and install Permanent Seeding and Mulching.

Contractor seeded and mulched Phase IV and V. Some wash-outs from rain will need to be corrected.

Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III . Contractor also reshaping rip-rap perimeter ditch, approximately 98% complete.

Concrete ditch is also completed and contractor working on grass lined ditch.

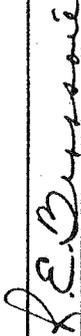
Attachments: Yes No Signed 

Description: _____

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

This report to be completed daily by each Project Representative



<p>Sheet No. : 1 of 1 Report #: 183 Date: 9-23-04 Weather: PC low 53 high 85</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>MATERIALS RECEIVED</p>	<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>
<p>none</p>	<p>WORK COMPLETED: Item No. 16: Furnish and install Permanent Seeding and Mulching. Contractor seeded and mulched Phase IV and V. Some wash-outs from rain will need to be corrected.</p>
<p>COMMENT</p>	<p>Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III . Contractor also reshaping rip-rap perimeter ditch, approximately 98% complete.</p>
<p>None</p>	<p>Concrete ditch is also completed and contractor working on grass lined ditch.</p>
<p>CORRESPONDING DATA SHEETS</p>	<p>RESULTS: none</p>
<p>Site sketch</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>REVIEWED BY:</p>

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 09-24-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 84 Lo: 57 _____ Clear x Partly _____ Cloudy .0 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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

City and Location: _____

Defective work noted today to be corrected later: None

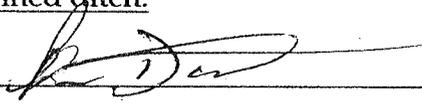
Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 16: Furnish and install Permanent Seeding and Mulching.

Contractor seeded and mulched Phase IV and V. Some wash-outs from rain will need to be corrected.

Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III . Contractor also reshaping rip-rap perimeter ditch, approximately 98% complete.

Concrete ditch is also completed and contractor working on grass lined ditch.

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 1 Report #: 184 Date: 9-24-04 Weather: PC low57 high 84</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: Item No. 16: Furnish and install Permanent Seeding and Mulching. Contractor seeded and mulched Phase IV and V. Some wash-outs from rain will need to be corrected.</p>
<p>COMMENT</p>	<p>Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III . Contractor also reshaping rip-rap perimeter ditch, approximately 98% complete. Concrete ditch is also completed and contractor working on grass lined ditch.</p>
<p>None</p>	<p>RESULTS: none</p>
<p>CORRESPONDING DATA SHEETS</p>	<p>Site sketch</p>
<p>APPROVED BY: <i>R.E. Carpenter</i></p>	<p>BY: <i>[Signature]</i></p>
<p>CERTIFYING ENGINEER</p>	<p>CQA INSPECTOR</p>
<p>REVIEWED BY:</p>	<p>PROJECT ENGINEER</p>

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 09-25-04

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				
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 x

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 #: 185
Date: 9-25-04
Weather: PC low 68 high 79

WORK AND EQUIPMENT

VISITORS

EQUIPMENT:

MATERIALS RECEIVED

WORK COMPLETED:

none

Contractor not working today

COMMENT

None

CORRESPONDING DATA SHEETS

None

RESULTS:

None

BY:

APPROVED BY:

CQA INSPECTOR

CERTIFYING ENGINEER

REVIEWED BY:

PROJECT ENGINEER



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 09-26-04

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				
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		*		*

* indicates subcontractors

City 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
 (North Wake Subtitle D Landfill Phase I Closure)
DAILY CONSTRUCTION QUALITY ASSURANCE REPORT

Sheet No. : 1 of 1 Report #: 186
 Date: 9-26-04
 Weather: PC low 60 high 78

WORK AND EQUIPMENT

VISITORS

EQUIPMENT:

MATERIALS RECEIVED

WORK COMPLETED:

Contractor not working today

COMMENT

RESULTS:

None

CORRESPONDING DATA SHEETS

None

BY:

APPROVED BY:



COA INSPECTOR

CERTIFYING ENGINEER

REVIEWED BY:

PROJECT ENGINEER

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 09-27-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 76 Lo: 67 _____ Clear x Partly _____ Cloudy 0 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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: _____

Defective work noted today to be corrected later: None

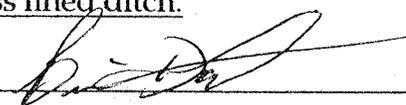
Description: (List work in progress, item no., quantity installed, location, comments, problems, visitors, delays and causes, accidents, special instructions received or given tests made, etc.)

Item No. 16: Furnish and install Permanent Seeding and Mulching.

Contractor seeded and mulched Phase IV and V. Some wash-outs from rain will need to be corrected.

Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III . Contractor also reshaping rip-rap perimeter ditch.

Concrete ditch is also completed and contractor working on grass lined ditch.

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 1 Report #: 187 Date: 9-27-04 Weather: PC low 67 high 87</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>none</p>	<p>EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller</p>
<p>COMMENT</p> <p>None</p>	<p>WORK COMPLETED: Item No. 16: Furnish and install Permanent Seeding and Mulching. Contractor seeded and mulched Phase IV and V. Some wash-outs from rain will need to be corrected.</p>
<p>CORRESPONDING DATA SHEETS</p> <p>Site sketch</p>	<p>Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III . Contractor also reshaping rip-rap perimeter ditch. Concrete ditch is also completed and contractor working on grass lined ditch.</p>
<p>APPROVED BY: <i>K.E. Duran</i></p> <p>CERTIFYING ENGINEER</p>	<p>BY: <i>[Signature]</i></p> <p>COA INSPECTOR</p>
<p>REVIEWED BY:</p>	<p>PROJECT ENGINEER</p>

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 09-28-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 76 Lo: 66 _____ Clear Partly _____ Cloudy .0 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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

City 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. 16: Furnish and install Permanent Seeding and Mulching.

Contractor seeded and mulched Phase IV and V. Some wash-outs from rain will need to be corrected.

Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III . Contractor also reshaping rip-rap perimeter ditch.

Concrete ditch is also completed and contractor working on grass lined ditch.

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 #: 188
 Date: 9-28-04
 Weather: PC low66 high 76

WORK AND EQUIPMENT

VISITORS

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

MATERIALS RECEIVED

WORK COMPLETED:

Item No. 16: Furnish and install Permanent Seeding and Mulching.
 Contractor seeded and mulched Phase IV and V. Some wash-outs from rain will need to be corrected.

COMMENT

None

Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III . Contractor also reshaping rip-rap perimeter ditch.

CORRESPONDING DATA SHEETS

Site sketch

Concrete ditch is also completed and contractor working on grass lined ditch.

RESULTS:

none

BY: 

APPROVED BY: 

CQA INSPECTOR

CERTIFYING ENGINEER

REVIEWED BY:

PROJECT ENGINEER



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 09-29-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 81 Lo: 59 _____ Clear x Partly _____ Cloudy 0 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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: _____

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. 16: Furnish and install Permanent Seeding and Mulching.

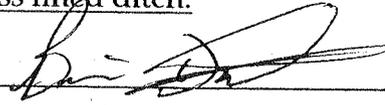
Contractor seeded and mulched Phase IV and V. Some wash-outs from rain will need to be corrected.

Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III . Contractor also reshaping rip-rap perimeter ditch.

Concrete ditch is also completed and contractor working on grass lined ditch.

Attachments: Yes No

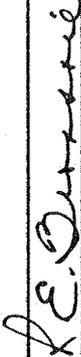
Signed



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 #: 189 Date: 9-29-04 Weather: PC low59 high 81
WORK AND EQUIPMENT		VISITORS
EQUIPMENT: CAT D6M,CAT D4C, Volvo end dumps, 563 smooth drum roller		MATERIALS RECEIVED
WORK COMPLETED: Item No. 16: Furnish and install Permanent Seeding and Mulching. Contractor seeded and mulched Phase IV and V. Some wash-outs from rain will need to be corrected.		none
Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III. Contractor also reshaping rip-rap perimeter ditch. Concrete ditch is also completed and contractor working on grass lined ditch.		COMMENT None
RESULTS: none		CORRESPONDING DATA SHEETS Site sketch
BY: 		APPROVED BY: 
REVIEWED BY:		CERTIFYING ENGINEER
PROJECT ENGINEER		

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 09-30-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 79 Lo: 63 _____ Clear x Partly _____ Cloudy 0 Precipitation _____

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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

Agency 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. 16: Furnish and install Permanent Seeding and Mulching.

Contractor seeded and mulched Phase IV and V. Some wash-outs from rain will need to be corrected.

Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III . Contractor also reshaping rip-rap perimeter ditch.

Concrete ditch is also completed and contractor working on grass lined 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 1 Report #: 190 Date: 9-30-04 Weather: PC low 63 high 79</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. 16: Furnish and install Permanent Seeding and Mulching. Contractor seeded and mulched Phase IV and V. Some wash-outs from rain will need to be corrected.</p>		<p>none</p>
<p>Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III . Contractor also reshaping rip-rap perimeter ditch. Concrete ditch is also completed and contractor working on grass lined ditch.</p>		<p>COMMENT</p>
<p>RESULTS: none</p>		<p>None</p>
<p>BY: </p>		<p>CORRESPONDING DATA SHEETS</p>
<p>REVIEWED BY:</p>		<p>Site sketch</p>
<p>CQA INSPECTOR</p>		<p>APPROVED BY: </p>
<p>PROJECT ENGINEER</p>		<p>CERTIFYING ENGINEER</p>

DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 10-01-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.: _____

Weather: Hi 76 Lo: 67 _____ Clear x Partly _____ Cloudy .0 Precipitation

Contract Section or Division: _____

Contractor and Subcontractors: _____

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

(Contractor) Hours Worked: 8 Reg. 2 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	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: _____

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. 16: Furnish and install Permanent Seeding and Mulching.

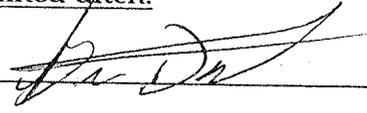
Contractor seeded and mulched Phase IV and V. Some wash-outs from rain will need to be corrected.

Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III . Contractor also reshaping rip-rap perimeter ditch.

Concrete ditch is also completed and contractor working on grass lined ditch.

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 1 Report #: 191 Date: 10-01-04 Weather: PC low 67 high 76</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>none</p>	<p>EQUIPMENT: CAT D6M, CAT D4C, Volvo end dumps, 563 smooth drum roller</p>
<p>COMMENT</p> <p>None</p>	<p>WORK COMPLETED: Item No. 16: Furnish and install Permanent Seeding and Mulching. Contractor seeded and mulched Phase IV and V. Some wash-outs from rain will need to be corrected.</p>
<p>CORRESPONDING DATA SHEETS</p> <p>Site sketch</p>	<p>Item No. 14: Cleanout Existing Sedimentation Ponds: Contractor cleaning out sedimentation ponds I and III. Contractor also reshaping rip-rap perimeter ditch. Concrete ditch is also completed and contractor working on grass lined ditch.</p>
<p>APPROVED BY: <i>R.E. O'neill</i></p> <p>CERTIFYING ENGINEER</p>	<p>RESULTS: none</p> <p>BY: <i>[Signature]</i></p> <p>CQA INSPECTOR</p>
<p>REVIEWED BY:</p>	<p>PROJECT ENGINEER</p>



DAILY CONSTRUCTION PROGRESS REPORT

Project: North Wake Subtitle D Landfill Date: 10-02-04- 11-20-04

Phase I Closure Project No.: 0617-42378

Location: North Wake Landfill Contract No.:

Weather: Hi Lo: Clear x Partly Cloudy .0 Precipitation

Contract Section or Division:

Contractor and Subcontractors:

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

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

Table with columns: Labor Classification (I, II*), Equipment Classifications (Type, Type*, Size, Size*). Rows include Project Manager, Superintendent, Engineer, Foreman, Asst. Foreman, Equip. Operators, Masons, Pipe layers, Laborers, Truck Drivers, Carpenters, Flag people, Surveyors, Painters, Plumbers, Pavers, Electricians, and Total.

Designates subcontractors

Address 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.)

Contractor completing warranty items and miscellaneous items.

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 1 Report #: 192-240 Date: 10-02-04—11-20-04 Weather: low high </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> Contractor met final completion and is working on warranty items and miscellaneous work. </p>	<p align="center">none</p>
<p> <u>RESULTS:</u> none </p>	<p align="center">None</p>
<p> <u>BY:</u>  </p>	<p align="center">COMMENT</p>
<p> <u>REVIEWED BY:</u> </p>	<p align="center">CORRESPONDING DATA SHEETS</p>
<p align="center">CQA INSPECTOR</p>	<p align="center">none</p>
<p> <u>REVIEWED BY:</u> </p>	<p align="center">APPROVED BY: </p>
<p align="center">PROJECT ENGINEER</p>	<p align="center">CERTIFYING ENGINEER</p>

Appendix A-2

Intermediate Cover Conformance Testing



MOISTURE - DENSITY RELATIONSHIP
ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION INC.	Boring No.	INTERMEDIATE COV.
Client Reference	N. WAKE SBTL. D PHS 1 CLOS.	Depth (ft)	NA
Project No.	2004-547-01	Sample No.	1
Lab ID	2004-547-01-01		

Visual Description BROWN SILT W/ SOME ROCKS

Total Weight of the Sample (gm)	15587
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	1
Percent Retained on 3/8"	3
Percent Retained on #4	NA
Oversize Material	Not included
Procedure Used	A

TestType	STANDARD
Rammer Weight (lbs)	5.5
Rammer Drop (in)	12
Rammer Type	MECHANICAL
Machine ID	R174
Mold ID	R172
Mold diameter	4"
Weight of the Mold	4223
Volume of the Mold(cc)	940

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	5880	5985	6110	6167	6121
Wt. of Mold (gm)	4223	4223	4223	4223	4223
Wt. of WS	1657	1762	1887	1944	1898
Mold Volume (cc)	940	940	940	940	940

Moisture Content / Density

Tare Number	F-4	SS-7	Z-12	Z-14	B-3
Wt. of Tare & WS (gm)	447.30	495.80	457.40	510.00	456.40
Wt. of Tare & DS (gm)	424.20	459.60	414.20	452.30	396.04
Wt. of Tare (gm)	100.55	98.98	99.92	100.77	97.91
Wt. of Water (gm)	23.10	36.20	43.20	57.70	60.36
Wt. of DS (gm)	323.65	360.62	314.28	351.53	298.13

Wet Density (gm/cc)	1.76	1.87	2.01	2.07	2.02
Wet Density (pcf)	110.0	116.9	125.2	129.0	125.9
Moisture Content (%)	7.1	10.0	13.7	16.4	20.2
Dry Density (pcf)	102.6	106.2	110.1	110.8	104.7

Zero Air Voids

Moisture Content (%)	13.7	16.4	20.2
Dry Unit Weight (pcf)	122.9	116.7	108.9

Tested By ETS Date 5/7/2004 Checked By *[Signature]* Date 5-10-04



ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client	THALLE CONSTRUCTION INC.	Boring No.	ON SITE BORROW
Client Reference	N. WAKE SBT. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-01	Sample No.	1
Lab ID	2004-547-01-01	Soil Description	BROWN SILT

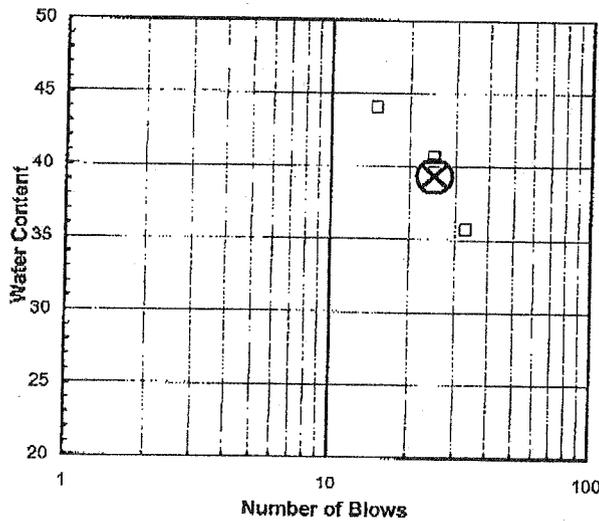
Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description.

Liquid Limit Test	1	2	3	
Tare Number	A-F	Q	J	M
Wt. of Tare & WS (gm)	38.11	39.66	42.18	U
Wt. of Tare & DS (gm)	32.18	32.58	33.93	L
Wt. of Tare (gm)	15.57	15.18	15.19	T
Wt. of Water (gm)	5.9	7.1	8.3	P
Wt. of DS (gm)	16.6	17.4	18.7	O
Moisture Content (%)	35.7	40.7	44.0	I
Number of Blows	33	25	15	N
				T

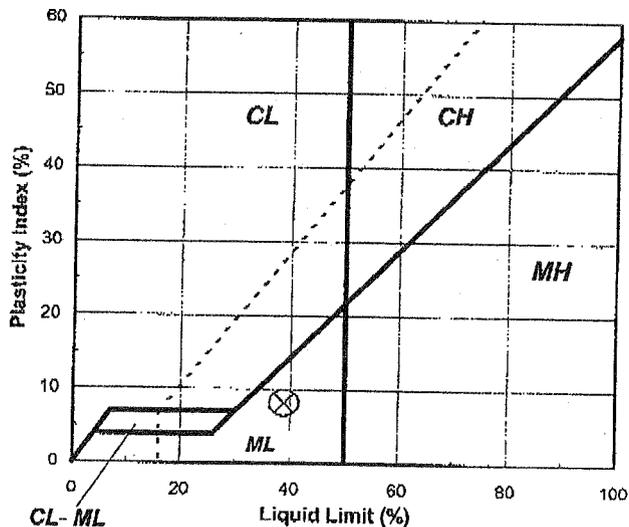
Plastic Limit Test	1	2	Range	Test Results
Tare Number	A-G	A-O		Liquid Limit (%) 39
Wt. of Tare & WS (gm)	21.62	22.69		Plastic Limit (%) 31
Wt. of Tare & DS (gm)	20.22	20.96		Plasticity Index (%) 8
Wt. of Tare (gm)	15.56	15.49		USCS Symbol ML
Wt. of Water (gm)	1.4	1.7		
Wt. of DS (gm)	4.7	5.5		
Moisture Content (%)	30.0	31.6	-1.6	

Note: The acceptable range of the two Moisture contents is ± 2.6

Flow Curve



Plasticity Chart



Tested By ETS Date 5/7/2004 Checked By *gem* Date 5-10-04

page 1 of 1 DCN: CT-S4B DATE: 10/8/2001 REVISION: 2

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WASH SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO, INC.	Boring No.	INTERMEDIATE COVE
Client Reference	N.WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-01	Sample No.	1
Lab ID	2004-547-01-01	Soil Color	BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	K-8	Tare No.	B-1
Wgt. Tare + Wet Specimen (gm)	630.60	Wgt. Tare + Wet Specimen (gm)	302.37
Wgt. Tare + Dry Specimen (gm)	555.10	Wgt. Tare + Dry Specimen (gm)	260.67
Weight of Tare (gm)	151.84	Weight of Tare (gm)	100.68
Weight of Water (gm)	75.50	Weight of Water (gm)	41.70
Weight of Dry Soil (gm)	403.26	Weight of Dry Soil (gm)	159.99
Moisture Content (%)	18.7	Moisture Content (%)	26.1

Wet Weight -3/4" Sample (gm)	21761	Weight of the Dry Specimen (gm)	403.26
Dry Weight - 3/4" Sample (gm)	18329.3	Weight of minus #200 material (gm)	125.14
Wet Weight +3/4" Sample (gm)	160.02	Weight of plus #200 material (gm)	278.12
Dry Weight + 3/4" Sample (gm)	126.94		
Total Dry Weight Sample (gm)	18456.2	J - Factor (Percent Finer than 3/4")	0.9931

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00 (*)	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25	50.18	0.2	0.2	99.8	99.8
3/4"	19	109.84	0.5	0.7	99.3	99.3
1/2"	12.5	4.35	1.1	1.1	98.9	98.2
3/8"	9.5	8.79	2.2	3.3	96.7	96.1
#4	4.75	15.81	3.9	7.2	92.8	92.2
#10	2	23.61	5.9	13.0	87.0	86.4
#20	0.85	36.30 (**)	9.0	22.0	78.0	77.4
#40	0.425	43.78	10.9	32.9	67.1	66.6
#60	0.25	51.58	12.8	45.7	54.3	53.9
#140	0.106	74.93	18.6	64.3	35.7	35.5
#200	0.075	18.97	4.7	69.0	31.0	30.8
Pan	-	125.14	31.0	100.0	-	-

Notes : (*) The + 3/4" sieve analysis is based on the Total Dry Weight of the Sample
 (**) The - 3/4" sieve analysis is based on the Weight of the Dry Specimen

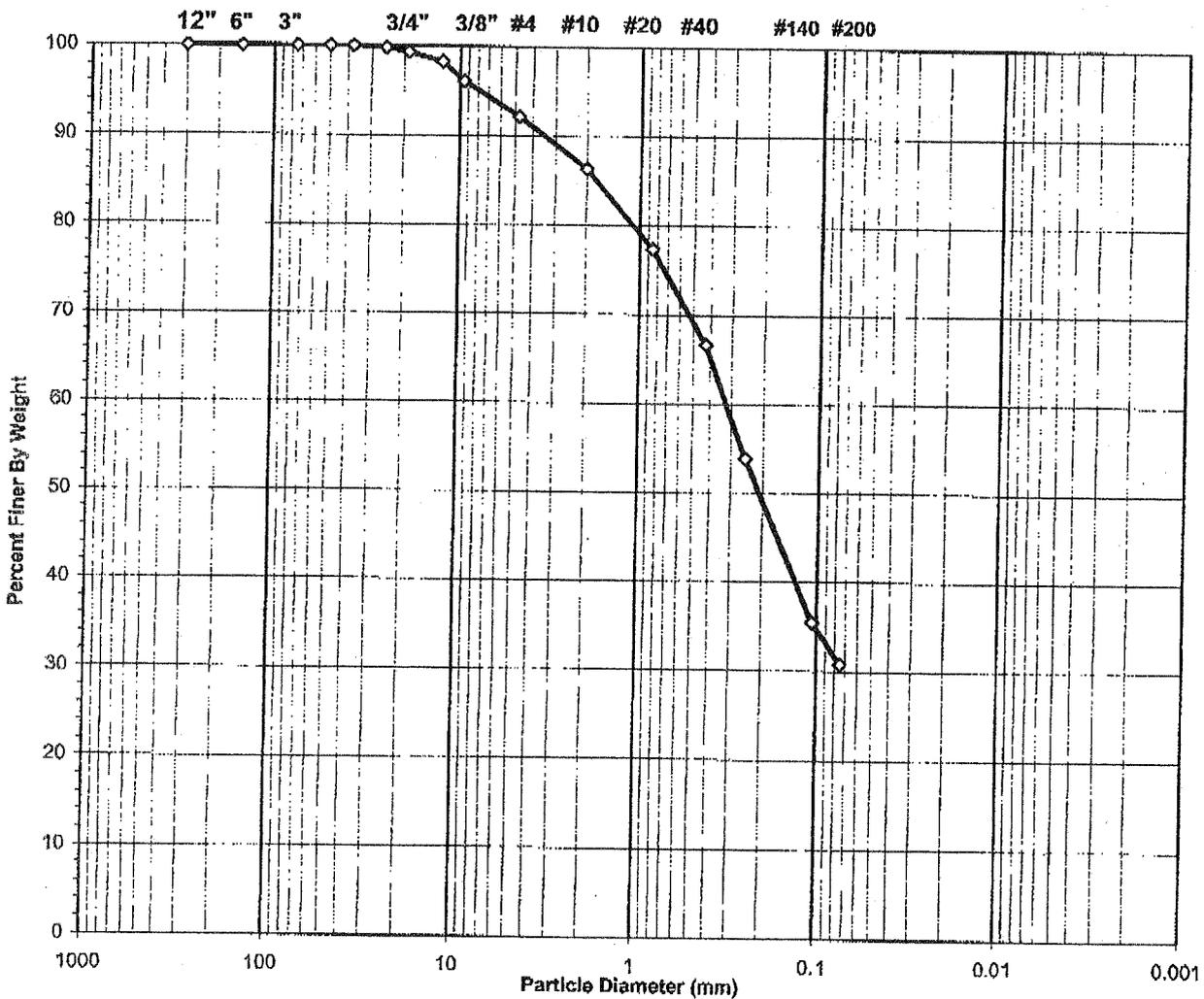
Tested By ETS Date 5/8/2004 Checked By *MMB* Date 5-10-04



SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO, INC.	Boring No.	INTERMEDIATE COVE
Client Reference	N.WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-01	Sample No.	1
Lab ID	2004-547-01-01	Soil Color	BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol **SM, TESTED**

USCS Classification **SILTY SAND**

Tested By **ETS** Date **5/8/2004** Checked By **MBS** Date **5-10-04**



MOISTURE CONTENT
ASTM D 2216 (SOP-51)

Client THALLE CONSTRUCTION
Client Reference N. WAKE SUBTITLE D PHS. 1 CLSR.
Project No. 2004-547-01

Lab ID	.01
Boring No.	INTERMEDIATE COVER
Depth (ft)	NA
Sample No.	1
Tare Number	A-2
Wt. of Tare & WS (gm)	336.03
Wt. of Tare & DS (gm)	298.49
Wt. of Tare (gm)	99.40
Wt. of Water (gm)	37.54
Wt. of DS (gm)	199.09
Water Content (%)	18.9

Notes: NA

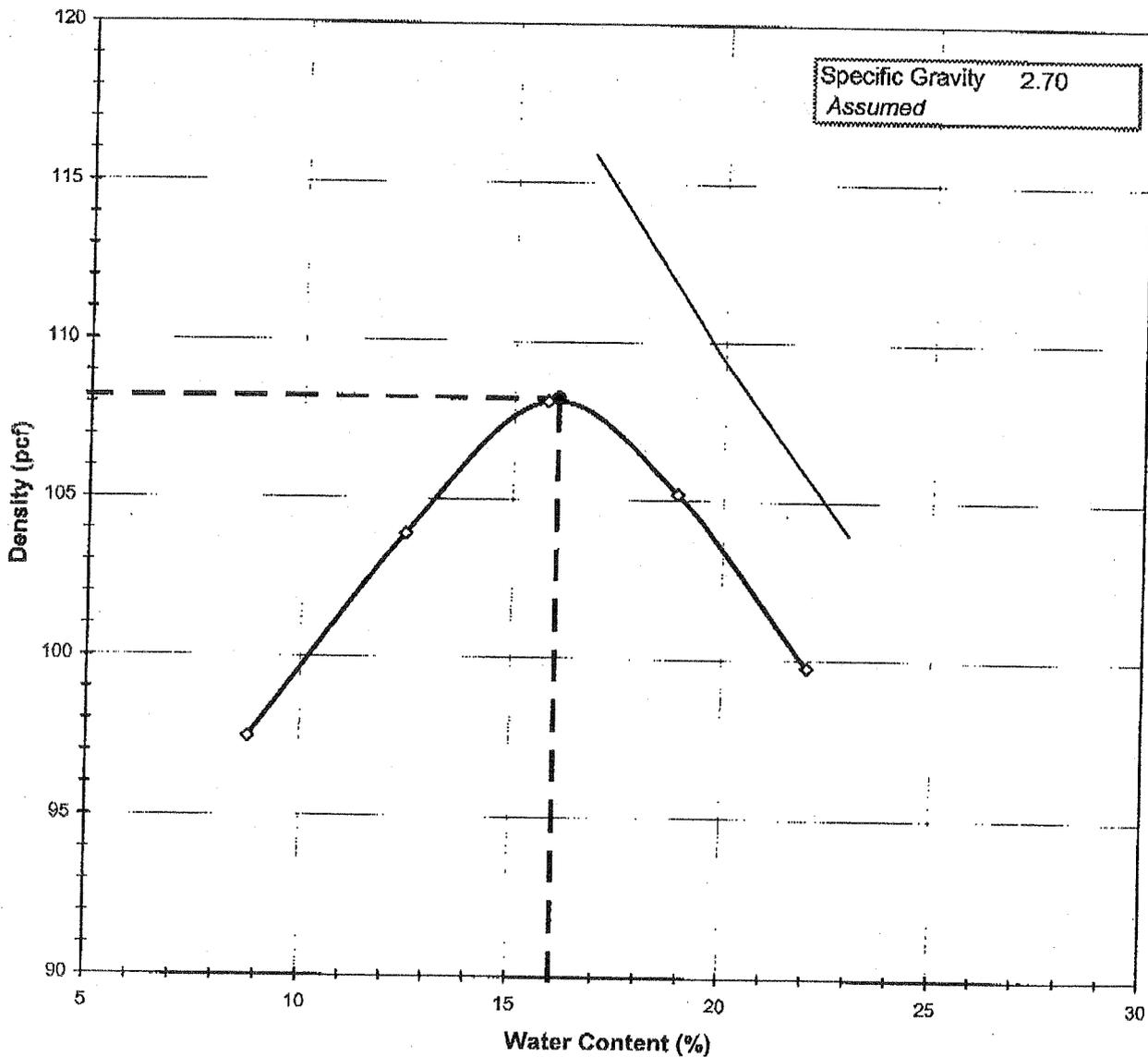
Tested By ETS Date 05/05/04 Checked By DAJ Date 5-7-04
 page 1 of 1 DCN: CT-S1 DATE 8-30-88 REVISION: 2 C:\Data Sheets\WATCONT.XLS\Sheet1



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 MMS Date 5-10-04



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		

Visual Description BROWN SILT

Total Weight of the Sample (gm)	18636
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	NA
Percent Retained on 3/8"	NA
Percent Retained on #4	NA
Oversize Material	NA
Procedure Used	B

TestType	STANDARD
Rammer Weight (lbs)	5.5
Rammer Drop (in)	12
Rammer Type	MECHANICAL
Machine ID	R174
Mold ID	R172
Mold diameter	4"
Weight of the Mold	4223
Volume of the Mold(cc)	940

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	5821	5984	6109	6108	6058
Wt. of Mold (gm)	4223	4223	4223	4223	4223
Wt. of WS	1598	1761	1886	1885	1835
Mold Volume (cc)	940	940	940	940	940

Moisture Content / Density

Tare Number	SS-8	F-2	P-8	SS-1	Y-11
Wt. of Tare & WS (gm)	451.70	423.70	455.40	483.50	447.00
Wt. of Tare & DS (gm)	423.20	387.90	406.80	422.70	384.30
Wt. of Tare (gm)	98.60	100.74	98.70	100.65	99.82
Wt. of Water (gm)	28.50	35.80	48.60	60.80	62.70
Wt. of DS (gm)	324.60	287.16	308.10	322.05	284.48

Wet Density (gm/cc)	1.70	1.87	2.01	2.00	1.95
Wet Density (pcf)	106.0	116.8	125.2	125.1	121.8
Moisture Content (%)	8.8	12.5	15.8	18.9	22.0
Dry Density (pcf)	97.5	103.9	108.1	105.2	99.8

Zero Air Voids

Moisture Content (%)	16.8	19.9	23.0
Dry Unit Weight (pcf)	115.9	109.6	103.9

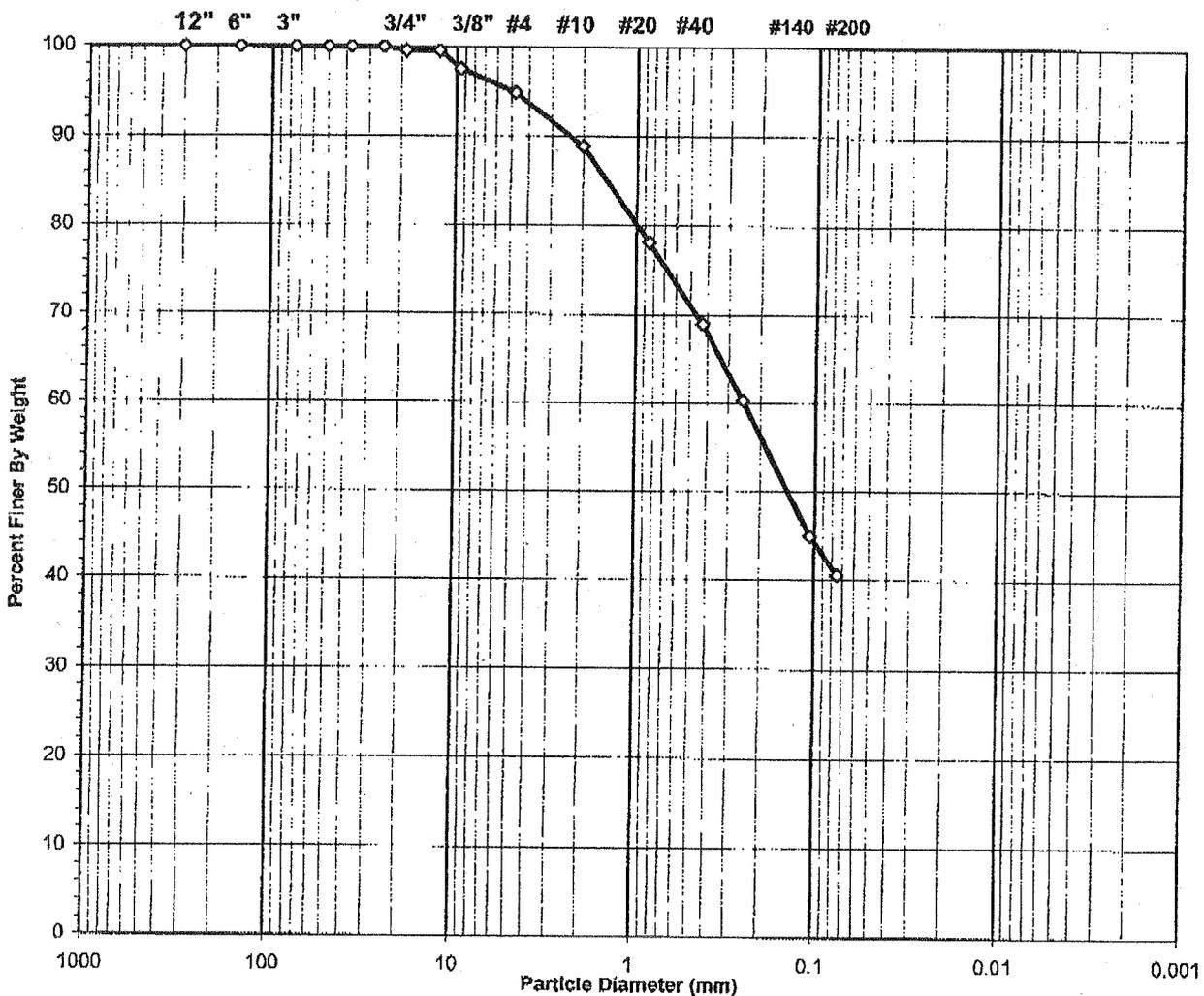
Tested By ETS Date 5/8/2004 Checked By MMS Date 5-10-04



SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC	Boring No.	EXISTING COV.
Client Reference	N.WAKE SBTLD PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2994-547-02	Sample No.	2
Lab ID	2004-547-02-01	Soil Color	BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol **SM, TESTED**

USCS Classification **SILTY SAND**

Tested By ETS Date 5/8/2004 Checked By MMB Date 5-10-04



WASH SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC	Boring No.	EXISTING COV.
Client Reference	N.WAKE SBTL.D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2994-547-02	Sample No.	2
Lab ID	2004-547-02-01	Soil Color	BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	K-7	Tare No.	A-Z
Wgt. Tare + Wet Specimen (gm)	725.00	Wgt. Tare + Wet Specimen (gm)	199.94
Wgt. Tare + Dry Specimen (gm)	649.30	Wgt. Tare + Dry Specimen (gm)	193.58
Weight of Tare (gm)	152.76	Weight of Tare (gm)	99.43
Weight of Water (gm)	75.70	Weight of Water (gm)	6.36
Weight of Dry Soil (gm)	496.54	Weight of Dry Soil (gm)	94.15
Moisture Content (%)	15.2	Moisture Content (%)	6.8

Wet Weight -3/4" Sample (gm)	21761	Weight of the Dry Specimen (gm)	496.54
Dry Weight - 3/4" Sample (gm)	18882.3	Weight of minus #200 material (gm)	202.55
Wet Weight +3/4" Sample (gm)	94.06	Weight of plus #200 material (gm)	293.99
Dry Weight + 3/4" Sample (gm)	88.11		
Total Dry Weight Sample (gm)	18970.4	J - Factor (Percent Finer than 3/4")	0.9954

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	(*)	0.0	100.0	100.0
1 1/2"	37.5	0.00		0.0	100.0	100.0
1"	25	0.00		0.0	100.0	100.0
3/4"	19	94.06		0.5	99.5	99.5
1/2"	12.5	0.00		0.0	100.0	99.5
3/8"	9.5	10.11		2.0	98.0	97.5
#4	4.75	13.06		2.6	95.3	94.9
#10	2	29.64		6.0	89.4	88.9
#20	0.85	53.78	(**)	10.8	78.5	78.2
#40	0.425	46.09		9.3	69.3	68.9
#60	0.25	42.93		8.6	60.6	60.3
#140	0.106	76.49		15.4	45.2	45.0
#200	0.075	21.89		4.4	40.8	40.6
Pan	-	202.55		40.8	-	-

Notes : (*) The + 3/4" sieve analysis is based on the Total Dry Weight of the Sample
 (**) The - 3/4" sieve analysis is based on the Weight of the Dry Specimen

Tested By **ETS** Date **5/8/2004** Checked By **MMB** Date **5-10-04**



ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

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

Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description.

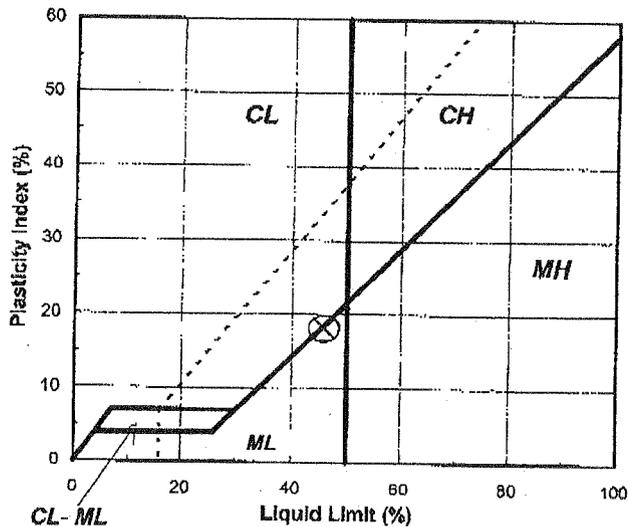
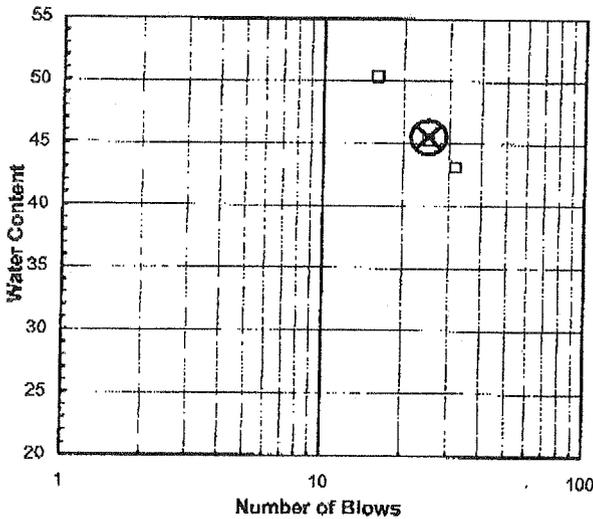
Liquid Limit Test	1	2	3	
Tare Number	T	X	D	M U L T I P O I N T
Wt. of Tare & WS (gm)	40.85	38.09	36.76	
Wt. of Tare & DS (gm)	33.14	30.97	29.53	
Wt. of Tare (gm)	15.26	15.26	15.17	
Wt. of Water (gm)	7.7	7.1	7.2	
Wt. of DS (gm)	17.9	15.7	14.4	
Moisture Content (%)	43.1	45.3	50.3	
Number of Blows	32	25	16	

Plastic Limit Test	1	2	Range	Test Results
Tare Number	L	V		Liquid Limit (%) 46
Wt. of Tare & WS (gm)	21.82	22.78		Plastic Limit (%) 28
Wt. of Tare & DS (gm)	20.24	21.17		Plasticity Index (%) 18
Wt. of Tare (gm)	15.24	15.30		USCS Symbol ML
Wt. of Water (gm)	1.4	1.6		
Wt. of DS (gm)	5.0	5.9		
Moisture Content (%)	27.6	27.4	0.2	

Note: The acceptable range of the two Moisture contents is ± 2.6

Flow Curve

Plasticity Chart



Tested By ETS Date 5/8/2004 Checked By MMJ Date 5-10-04
 page 1 of 1 DCN: CT-S4B DATE: 10/8/2001 REVISION: 2

\\Davej\jks1\CI\2004 Projects\2004-547 Thalls\2004-547-02-01 Atterberg.xls\Sheet1



MOISTURE CONTENT

ASTM D 2216 (SOP-S1)

Client	THALLE CONSTRUCTION CO., INC
Client Reference	N. WAKE SBTL. D PHAS 1 CLOS.
Project No.	2004-547-02-01

Lab ID	-01
Boring No.	EXISTING COY
Depth (ft)	NA
Sample No.	2

Tare Number	Y-11
Wt. of Tare & WS (gm)	341.55
Wt. of Tare & DS (gm)	311.00
Wt. of Tare (gm)	99.86
Wt. of Water (gm)	30.55
Wt. of DS (gm)	211.14

Water Content (%)	14.5
--------------------------	-------------

Notes : NA

Tested By ETS Date 5/6/2004 Checked By GSM Date 5-11-04
 page 1 of 1 DCN: CT-S1 DATE 6-30-98 REVISION: 2 \\Davejenks1\c\DATA\ASH-1\WATCONT.XLS\Sheet1

MOISTURE CONTENT

ASTM D 2216 (SOP-S1)

Client THALLE CONSTRUCTION CO., INC.
 Client Reference N.WAKE SBTL. D PHASE 1 CLOSURE
 Project No. 2004-547-07

Lab ID	.001	.002	.003	.004	.005
Boring No.	VEGIT.COV.	VEGIT.COV.	VEGIT.COV.	PROT.COV.	PROT.COV.
Depth (ft)	NA	NA	NA	NA	NA
Sample No.	8-12K	12-16K	16-20K	16-20K	20-24K
Tare Number	H-5	A-A	K-3	K-2	G-13
Wt. of Tare & WS (gm)	943.90	934.52	729.34	745.22	764.43
Wt. of Tare & DS (gm)	869.24	858.72	660.92	607.95	622.52
Wt. of Tare (gm)	152.10	152.60	152.20	152.27	153.15
Wt. of Water (gm)	74.66	75.8	68.42	137.27	141.91
Wt. of DS (gm)	717.14	706.12	508.72	455.68	469.37
Water Content (%)	10.4	10.7	13.4	30.1	30.2

Lab ID	.006	.007	.008	.009	.010
Boring No.	PROT.COV.	PROT.COV.	PROT.COV.	INTERM.COV.	INTERM.COV.
Depth (ft)	NA	NA	NA	NA	NA
Sample No.	24-28K	28-32K	32-36K	4-8K	20-24K
Tare Number	H-3	A-A	G-5	H-4	H-3
Wt. of Tare & WS (gm)	728.60	776.40	792.15	711.30	788.25
Wt. of Tare & DS (gm)	594.20	633.40	725.07	625.21	670.26
Wt. of Tare (gm)	151.15	152.57	148.73	152.07	151.29
Wt. of Water (gm)	134.4	143	67.08	86.09	117.99
Wt. of DS (gm)	443.05	480.83	576.34	473.14	518.97
Water Content (%)	30.3	29.7	11.6	18.2	22.7

Notes : NA

Tested By MW Date 9/24/2004 Checked By *MMS* Date 10-4-04

page 1 of 1 DCN: CT-S1 DATE 6-30-98 REVISION: 2 \\Lab1\CI\2004 Projects\2004-547 Thalle\2004-547-07 PG1 WATCONT.XLS\Sheet1

MOISTURE CONTENT

ASTM D 2216 (SOP-S1)

Client THALLE CONSTRUCTION CO., INC.
 Client Reference N.WAKE SBTL. D PHASE 1 CLOSURE
 Project No. 2004-547-07

Lab ID	.011	.012	.013
Boring No.	INTERM.COV.	INTERM.COV.	INTERM.COV.
Depth (ft)	NA	NA	NA
Sample No.	24-28K	28-32K	32-36
Tare Number	K-3	G-5	H-3
Wt. of Tare & WS (gm)	740.70	721.60	785.86
Wt. of Tare & DS (gm)	602.00	584.70	725.80
Wt. of Tare (gm)	152.35	148.76	151.09
Wt. of Water (gm)	138.7	136.9	60.06
Wt. of DS (gm)	449.65	435.94	574.71
Water Content (%)	30.8	31.4	10.5

Notes : NA

Tested By MW Date 9/24/2004 Checked By *MPS* Date 10-1-04
 page 1 of 1 DCN: CT-S1 DATE 6-30-98 REVISION: 2 \\Lab1\CI\2004 Projects\2004-547 Thalle\2004-547-07 PG1 WATCONT.XLS\Sheet1

ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client	THALLE CONSTRUCTION CO., INC	Boring No.	INTERM. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	4-8K
Lab ID	2004-547-07-09	Soil Description	RED LEAN CLAY

Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description. (Minus No. 40 sieve material, Airdried)

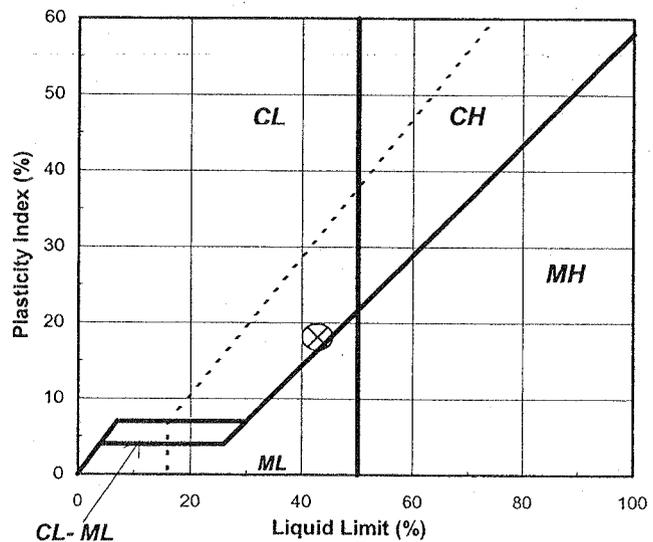
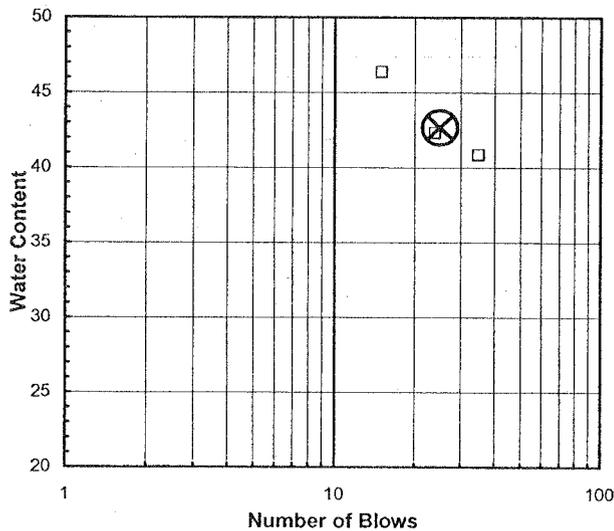
Liquid Limit Test	1	2	3	
Tare Number	G	A-C	F	M
Wt. of Tare & WS (gm)	34.43	33.79	33.36	U
Wt. of Tare & DS (gm)	28.30	28.38	28.11	L
Wt. of Tare (gm)	15.07	15.59	15.25	T
Wt. of Water (gm)	6.1	5.4	5.3	I
Wt. of DS (gm)	13.2	12.8	12.9	P
Moisture Content (%)	46.3	42.3	40.8	O
Number of Blows	15	24	35	I
				N
				T

Plastic Limit Test	1	2	Range	Test Results	
Tare Number	U	AL		Liquid Limit (%)	43
Wt. of Tare & WS (gm)	22.47	22.32		Plastic Limit (%)	25
Wt. of Tare & DS (gm)	21.01	20.94		Plasticity Index (%)	18
Wt. of Tare (gm)	15.26	15.50		USCS Symbol	CL
Wt. of Water (gm)	1.5	1.4			
Wt. of DS (gm)	5.8	5.4			
Moisture Content (%)	25.4	25.4	0.0		

Note: The acceptable range of the two Moisture contents is ± 2.6

Flow Curve

Plasticity Chart



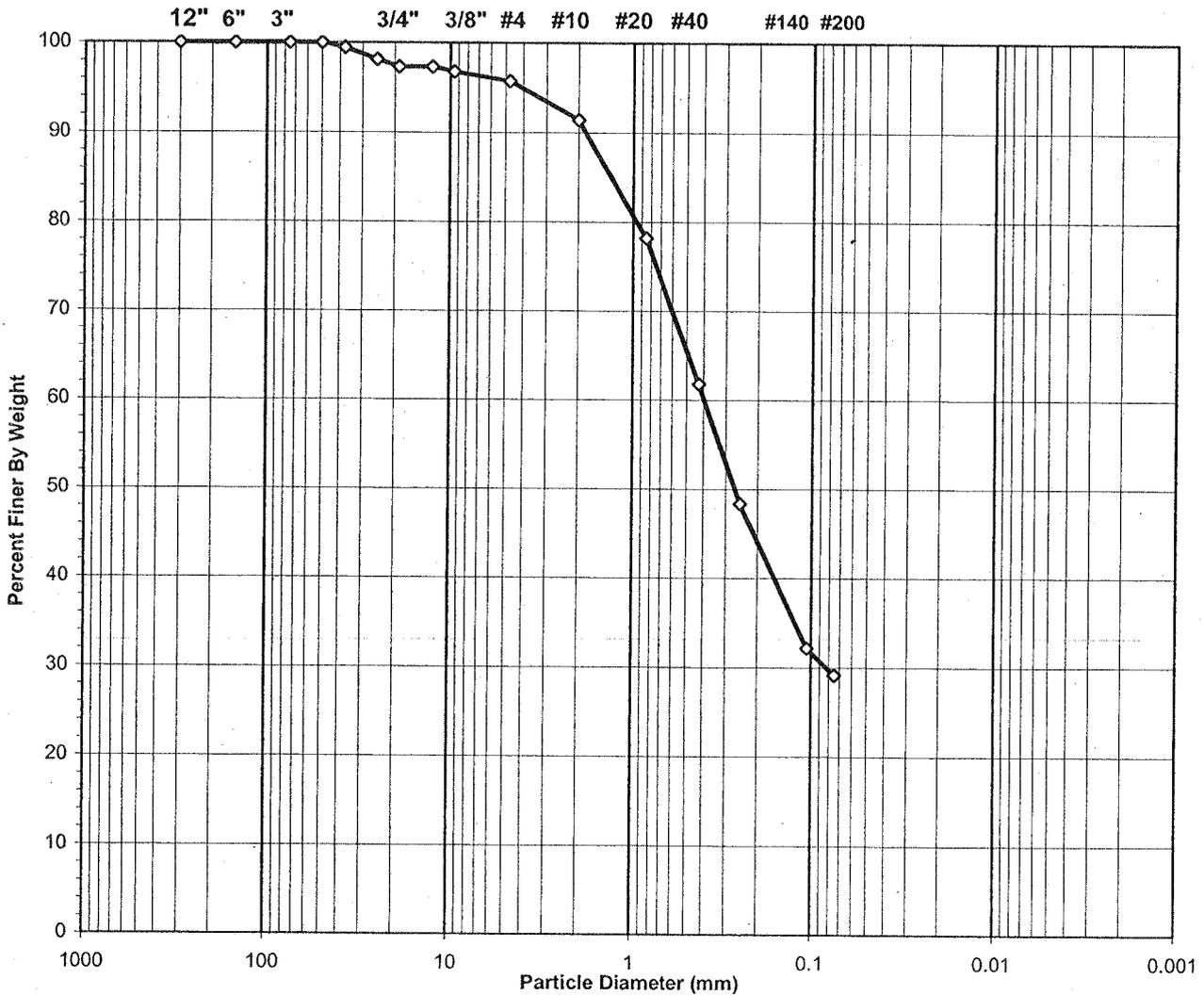
Tested By MW Date 9/21/2004 Checked By *com* Date 9-30-04

page 1 of 1 DCN: CT-S4B DATE: 10/8/2001 REVISION: 2

SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	INTERM. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	4-8K
Lab ID	2004-547-07-09	Soil Color	REDDISH BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol **SC-SM, TESTED**

USCS Classification **SILTY, CLAYEY SAND**

Tested By MW Date 09/16/04 Checked By *MMS* Date 9-30-04



WASH SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	INTERM. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	4-8K
Lab ID	2004-547-07-09	Soil Color	REDDISH BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	H-4	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	711.30	Wgt. Tare + Wet Specimen (gm)	100.00
Wgt. Tare + Dry Specimen (gm)	625.21	Wgt. Tare + Dry Specimen (gm)	100.00
Weight of Tare (gm)	152.07	Weight of Tare (gm)	0.00
Weight of Water (gm)	86.09	Weight of Water (gm)	0.00
Weight of Dry Soil (gm)	473.14	Weight of Dry Soil (gm)	100.00
Moisture Content (%)	18.2	Moisture Content (%)	0.0

Wet Weight -3/4" Sample (gm)	17585	Weight of the Dry Specimen (gm)	473.14
Dry Weight - 3/4" Sample (gm)	14877.9	Weight of minus #200 material (gm)	141.64
Wet Weight +3/4" Sample (gm)	411.10	Weight of plus #200 material (gm)	331.50
Dry Weight + 3/4" Sample (gm)	411.10		
Total Dry Weight Sample (gm)	15289.0	J - Factor (Percent Finer than 3/4")	0.9731

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00 (*)	0.0	0.0	100.0	100.0
1 1/2"	37.5	88.00	0.6	0.6	99.4	99.4
1"	25	198.50	1.3	1.9	98.1	98.1
3/4"	19	124.60	0.8	2.7	97.3	97.3
1/2"	12.5	0.00	0.0	0.0	100.0	97.3
3/8"	9.5	2.64	0.6	0.6	99.4	96.8
#4	4.75	5.07	1.1	1.6	98.4	95.7
#10	2	21.02	4.4	6.1	93.9	91.4
#20	0.85	64.31 (**)	13.6	19.7	80.3	78.2
#40	0.425	79.72	16.8	36.5	63.5	61.8
#60	0.25	65.37	13.8	50.3	49.7	48.3
#140	0.106	78.54	16.6	66.9	33.1	32.2
#200	0.075	14.83	3.1	70.1	29.9	29.1
Pan	-	141.64	29.9	100.0	-	-

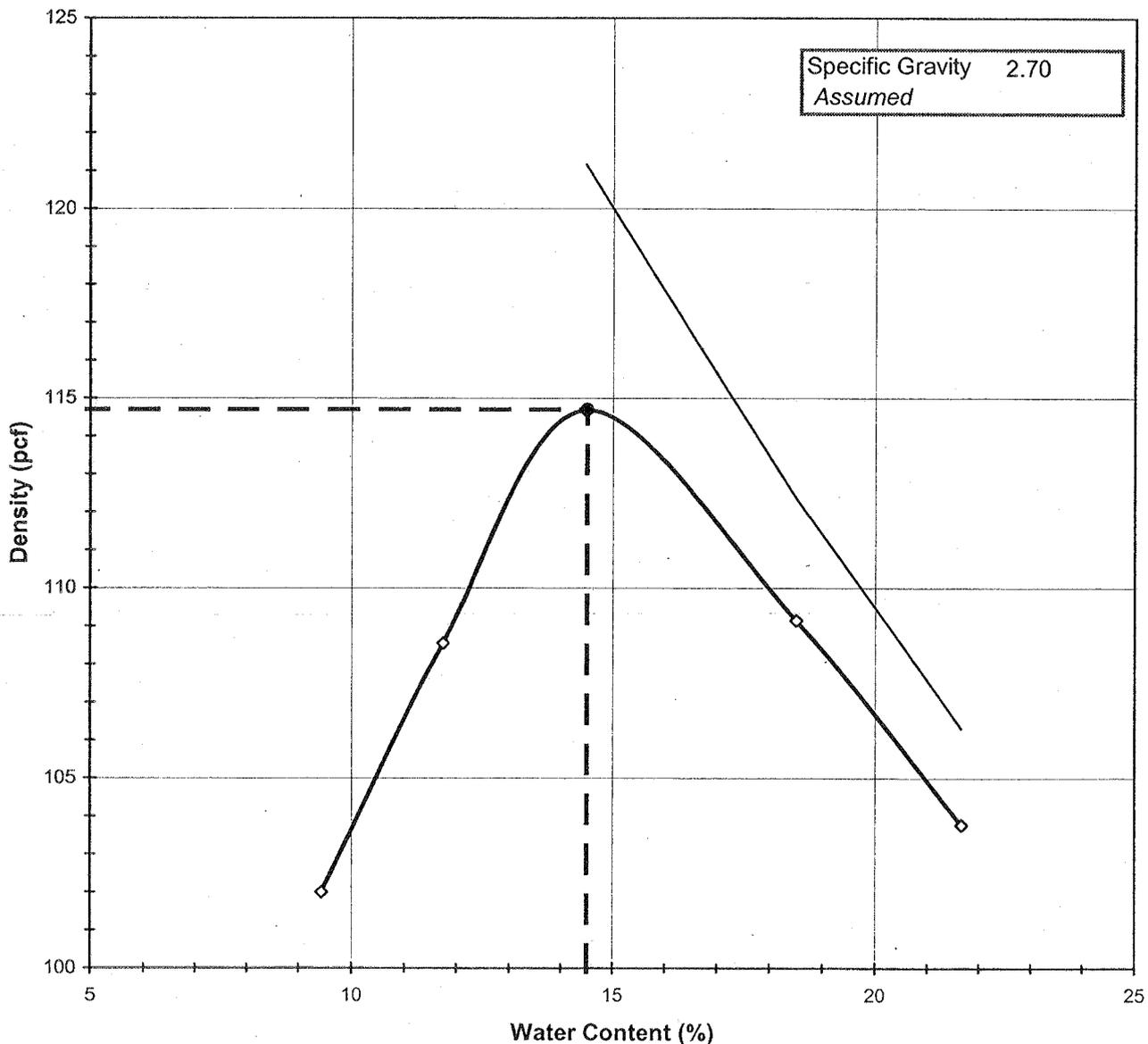
Notes : (*) The + 3/4" sieve analysis is based on the Total Dry Weight of the Sample
(**) The - 3/4" sieve analysis is based on the Weight of the Dry Specimen

Tested By MW Date 09/16/04 Checked By *MMS* Date *9-30-04*

MOISTURE DENSITY RELATIONSHIP
ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	INTERM. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	4-8K
Lab ID	2004-547-07-09	Test Method	STANDARD
Visual Description	RED SANDY CLAY		

Optimum Water Content 14.5
Maximum Dry Density 114.7



Tested By MW Date 9/16/2004 Checked By GEM Date 9-30-04

MOISTURE - DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	INTERM. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	4-8K
Lab ID	2004-547-07-09		

Visual Description RED SANDY CLAY

Total Weight of the Sample (gm)	20273
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	NA
Percent Retained on 3/8"	529
Percent Retained on #4	NA
Oversize Material	Not included
Procedure Used	B

TestType	STANDARD
Rammer Weight (lbs)	5.5
Rammer Drop (in)	12
Rammer Type	MECHANICAL
Machine ID	R174
Mold ID	R172
Mold diameter	4"
Weight of the Mold	4220
Volume of the Mold(cc)	940

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	5902	6048	6198	6169	6123
Wt. of Mold (gm)	4220	4220	4220	4220	4220
Wt. of WS	1682	1828	1978	1949	1902
Mold Volume (cc)	940	940	940	940	940

Moisture Content / Density

Tare Number	P-8	B-5	F-3	Y-13	SS-5
Wt. of Tare & WS (gm)	517.57	643.17	670.16	653.49	690.70
Wt. of Tare & DS (gm)	481.46	585.94	598.18	566.96	585.67
Wt. of Tare (gm)	98.81	98.12	100.59	99.24	100.83
Wt. of Water (gm)	36.11	57.23	71.98	86.53	105.03
Wt. of DS (gm)	382.65	487.82	497.59	467.72	484.84

Wet Density (gm/cc)	1.79	1.94	2.10	2.07	2.02
Wet Density (pcf)	111.6	121.3	131.3	129.3	126.3
Moisture Content (%)	9.4	11.7	14.5	18.5	21.7
Dry Density (pcf)	102.0	108.6	114.7	109.2	103.8

Zero Air Voids

Moisture Content (%)	14.5	18.5	21.7
Dry Unit Weight (pcf)	121.2	112.4	106.3

Tested By MW Date 9/16/2004 Checked By *EM* Date 9-20-04

ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	INTERM. COV.
Client Reference	N.WAKE SBTL. D PHS.1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	20-24K
Lab ID	2004-547-07-10	Soil Description	REDDISH BROWN LEAN CLAY

Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description. (Minus No. 40 sieve material, Wet method)

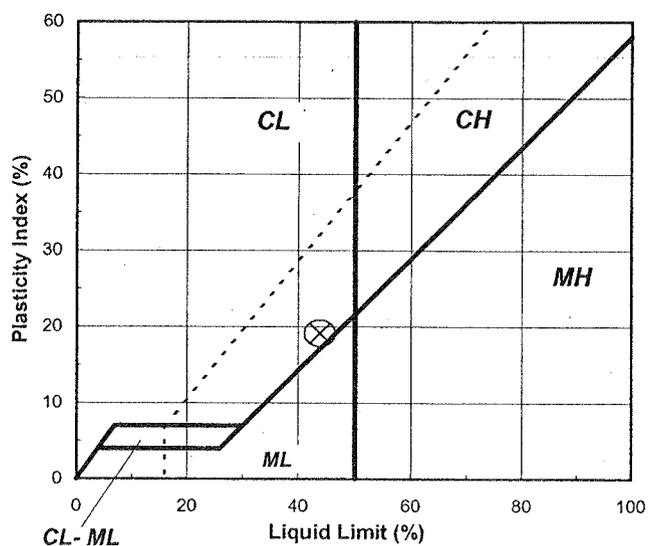
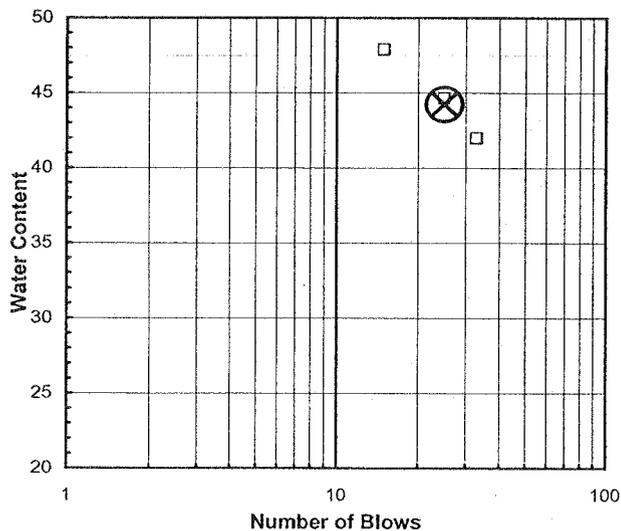
Liquid Limit Test	1	2	3	
Tare Number	A-S	C	A-R	M U L T I P O I N T
Wt. of Tare & WS (gm)	29.03	29.35	28.33	
Wt. of Tare & DS (gm)	24.66	25.00	24.58	
Wt. of Tare (gm)	15.53	15.25	15.64	
Wt. of Water (gm)	4.4	4.4	3.8	
Wt. of DS (gm)	9.1	9.8	8.9	
Moisture Content (%)	47.9	44.6	41.9	
Number of Blows	15	25	33	

Plastic Limit Test	1	2	Range	Test Results
Tare Number	A-G	J		Liquid Limit (%) 44 Plastic Limit (%) 25 Plasticity Index (%) 19 USCS Symbol CL
Wt. of Tare & WS (gm)	23.06	22.68		
Wt. of Tare & DS (gm)	21.53	21.20		
Wt. of Tare (gm)	15.57	15.19		
Wt. of Water (gm)	1.5	1.5		
Wt. of DS (gm)	6.0	6.0		
Moisture Content (%)	25.7	24.6	1.0	

Note: The acceptable range of the two Moisture contents is ± 2.6

Flow Curve

Plasticity Chart



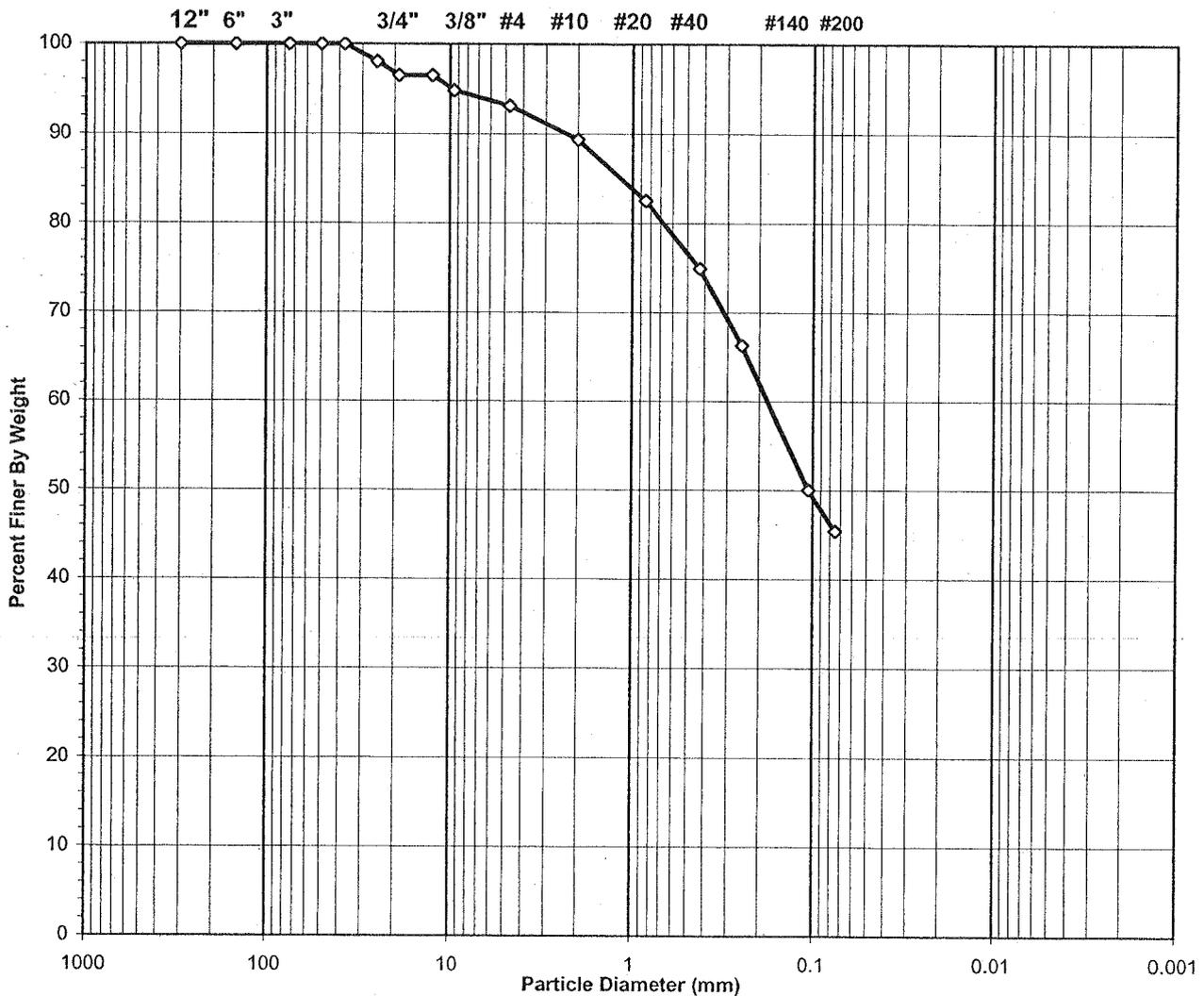
Tested By **KAW** Date **09/16/04** Checked By **CEM** Date **9-30-04**

page 1 of 1 DCN: CT-S4B DATE: 10/08/01 REVISION: 2

SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	INTERM. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	20-24K
Lab ID	2004-547-07-10	Soil Color	REDDISH BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol **SC, TESTED**

USCS Classification **CLAYEY SAND**

Tested By MW Date 9/15/2004 Checked By *[Signature]* Date 10-4-04

WASH SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	INTERM. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	20-24K
Lab ID	2004-547-07-10	Soil Color	REDDISH BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	H-3	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	788.25	Wgt. Tare + Wet Specimen (gm)	145.21
Wgt. Tare + Dry Specimen (gm)	670.26	Wgt. Tare + Dry Specimen (gm)	145.21
Weight of Tare (gm)	151.29	Weight of Tare (gm)	0.00
Weight of Water (gm)	117.99	Weight of Water (gm)	0.00
Weight of Dry Soil (gm)	518.97	Weight of Dry Soil (gm)	145.21
Moisture Content (%)	22.7	Moisture Content (%)	0.0

Wet Weight -3/4" Sample (gm)	17315.6	Weight of the Dry Specimen (gm)	518.97
Dry Weight - 3/4" Sample (gm)	14108.1	Weight of minus #200 material (gm)	244.07
Wet Weight +3/4" Sample (gm)	510.00	Weight of plus #200 material (gm)	274.90
Dry Weight + 3/4" Sample (gm)	510.00		
Total Dry Weight Sample (gm)	14618.1	J - Factor (Percent Finer than 3/4")	0.9651

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00 (*)	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25	285.00	1.9	1.9	98.1	98.1
3/4"	19	225.00	1.5	3.5	96.5	96.5
1/2"	12.5	0.00	0.0	0.0	100.0	96.5
3/8"	9.5	9.04	1.7	1.7	98.3	94.8
#4	4.75	9.19	1.8	3.5	96.5	93.1
#10	2	20.32	3.9	7.4	92.6	89.3
#20	0.85	36.72 (**)	7.1	14.5	85.5	82.5
#40	0.425	40.73	7.8	22.4	77.6	74.9
#60	0.25	46.55	9.0	31.3	68.7	66.3
#140	0.106	87.42	16.8	48.2	51.8	50.0
#200	0.075	24.93	4.8	53.0	47.0	45.4
Pan	-	244.07	47.0	100.0	-	-

Notes : (*) The + 3/4" sieve analysis is based on the Total Dry Weight of the Sample
(**) The - 3/4" sieve analysis is based on the Weight of the Dry Specimen

Tested By MW Date 9/15/2004 Checked By MBT Date 10-4-04

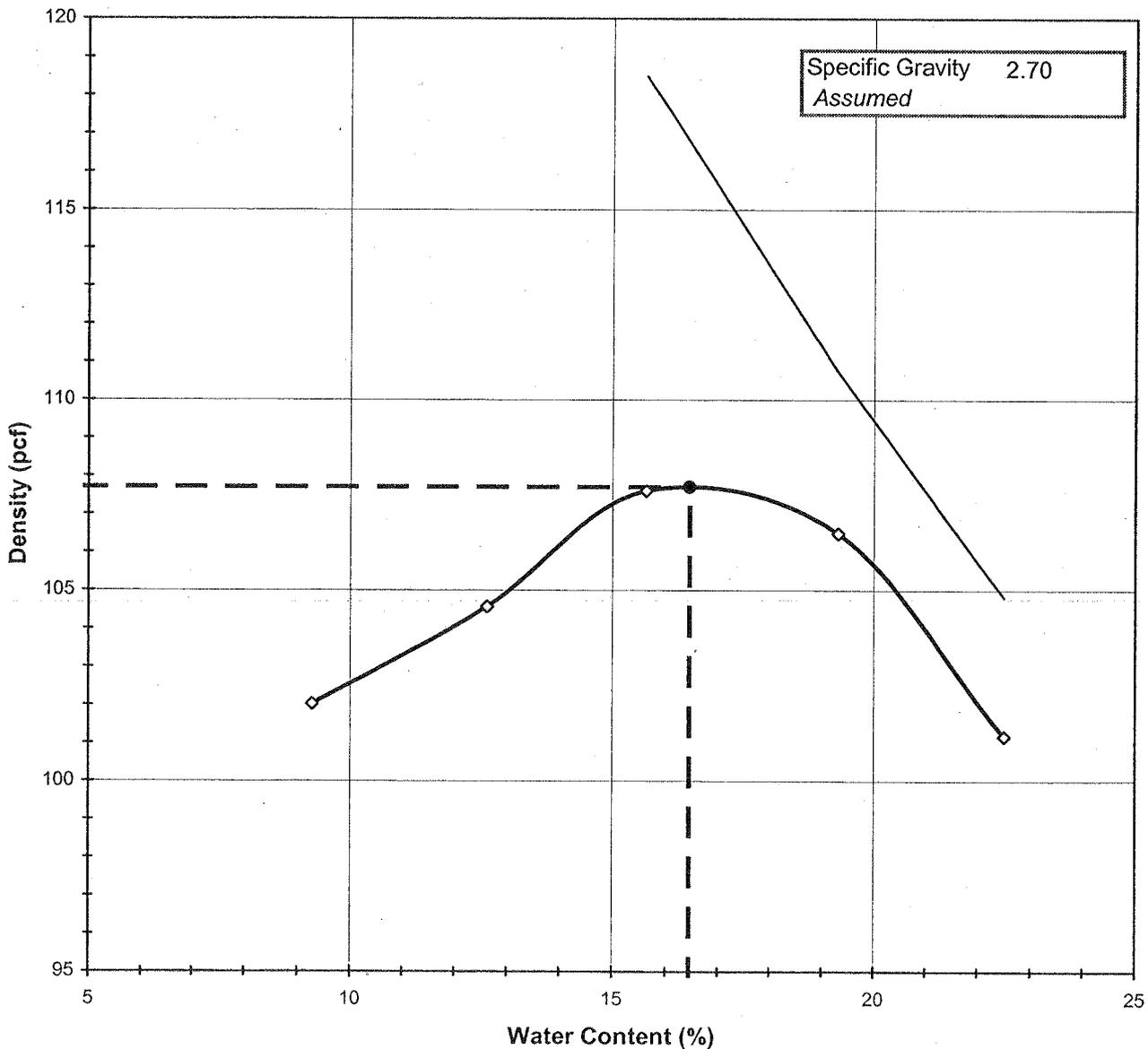


MOISTURE DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	INTERM. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	20-24K
Lab ID	2004-547-07-10	Test Method	STANDARD
Visual Description	RED SANDY CLAY		

Optimum Water Content 16.5
Maximum Dry Density 107.7



Tested By MW Date 9/17/2004 Checked By *GM* Date 9-30-04

MOISTURE - DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	INTERM. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	20-24K
Lab ID	2004-547-07-10		

Visual Description RED SANDY CLAY

Total Weight of the Sample (gm)	17316
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	NA
Percent Retained on 3/8"	577
Percent Retained on #4	NA
Oversize Material	Not included
Procedure Used	B

TestType	STANDARD
Rammer Weight (lbs)	5.5
Rammer Drop (in)	12
Rammer Type	MECHANICAL
Machine ID	R174
Mold ID	R172
Mold diameter.	4"
Weight of the Mold	4220
Volume of the Mold(cc)	940

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	5900	5995	6095	6135	6088
Wt. of Mold (gm)	4220	4220	4220	4220	4220
Wt. of WS	1680	1774	1875	1914	1868
Mold Volume (cc)	940	940	940	940	940

Moisture Content / Density

Tare Number	Y-3	F-2	B-1	S-9	ZZ-1
Wt. of Tare & WS (gm)	517.13	766.15	743.15	570.30	601.86
Wt. of Tare & DS (gm)	481.80	691.60	656.30	494.30	509.80
Wt. of Tare (gm)	101.36	101.04	100.47	100.91	100.68
Wt. of Water (gm)	35.33	74.55	86.85	76.00	92.06
Wt. of DS (gm)	380.44	590.56	555.83	393.39	409.12

Wet Density (gm/cc)	1.79	1.89	1.99	2.04	1.99
Wet Density (pcf)	111.5	117.8	124.4	127.1	123.9
Moisture Content (%)	9.3	12.6	15.6	19.3	22.5
Dry Density (pcf)	102.0	104.6	107.6	106.5	101.2

Zero Air Voids

Moisture Content (%)	15.6	19.3	22.5
Dry Unit Weight (pcf)	118.5	110.7	104.8

Tested By MW Date 9/17/2004 Checked By Gem Date 9-20-04

ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client:	THALLE CONSTRUCTION CO., INC.	Boring No.:	INTERM. COV.
Client Reference:	N.WAKE SBTL. D PHS.1 CLOSURE	Depth (ft):	NA
Project No.:	2004-547-07	Sample No.:	24-28K
Lab ID:	2004-547-07-11	Soil Description:	REDDISH BROWN LEAN CLAY

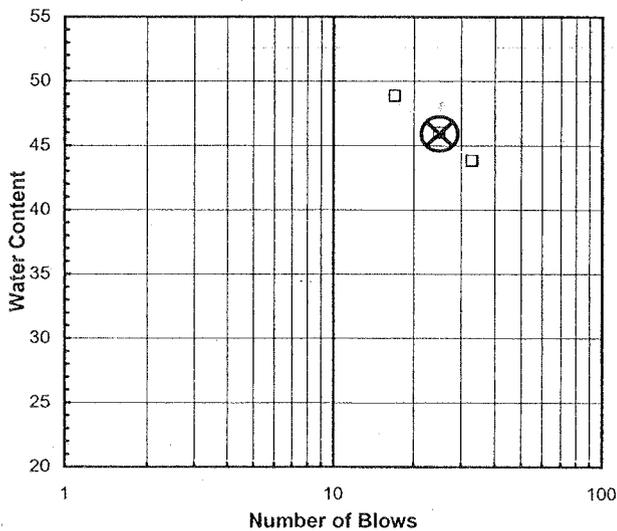
Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description.

Liquid Limit Test	1	2	3	M U L T I P O I N T
Tare Number	B	L	A-I	
Wt. of Tare & WS (gm)	32.77	29.12	31.69	
Wt. of Tare & DS (gm)	27.02	24.76	26.77	
Wt. of Tare (gm)	15.24	15.27	15.53	
Wt. of Water (gm)	5.8	4.4	4.9	
Wt. of DS (gm)	11.8	9.5	11.2	
Moisture Content (%)	48.8	45.9	43.8	
Number of Blows	17	25	33	

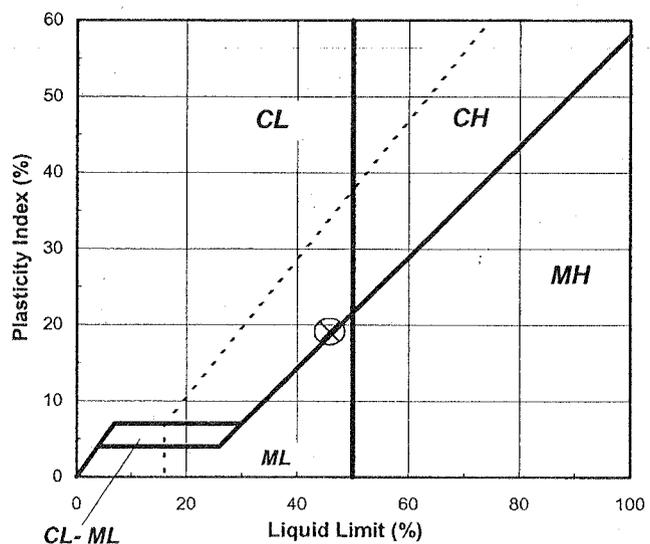
Plastic Limit Test	1	2	Range	Test Results	
Tare Number	A-G	A-N		Liquid Limit (%)	46
Wt. of Tare & WS (gm)	23.66	23.61		Plastic Limit (%)	27
Wt. of Tare & DS (gm)	21.92	21.88		Plasticity Index (%)	19
Wt. of Tare (gm)	15.58	15.47		USCS Symbol	CL
Wt. of Water (gm)	1.7	1.7			
Wt. of DS (gm)	6.3	6.4			
Moisture Content (%)	27.4	27.0	0.5		

Note: The acceptable range of the two Moisture contents is ± 2.6 .

Flow Curve



Plasticity Chart

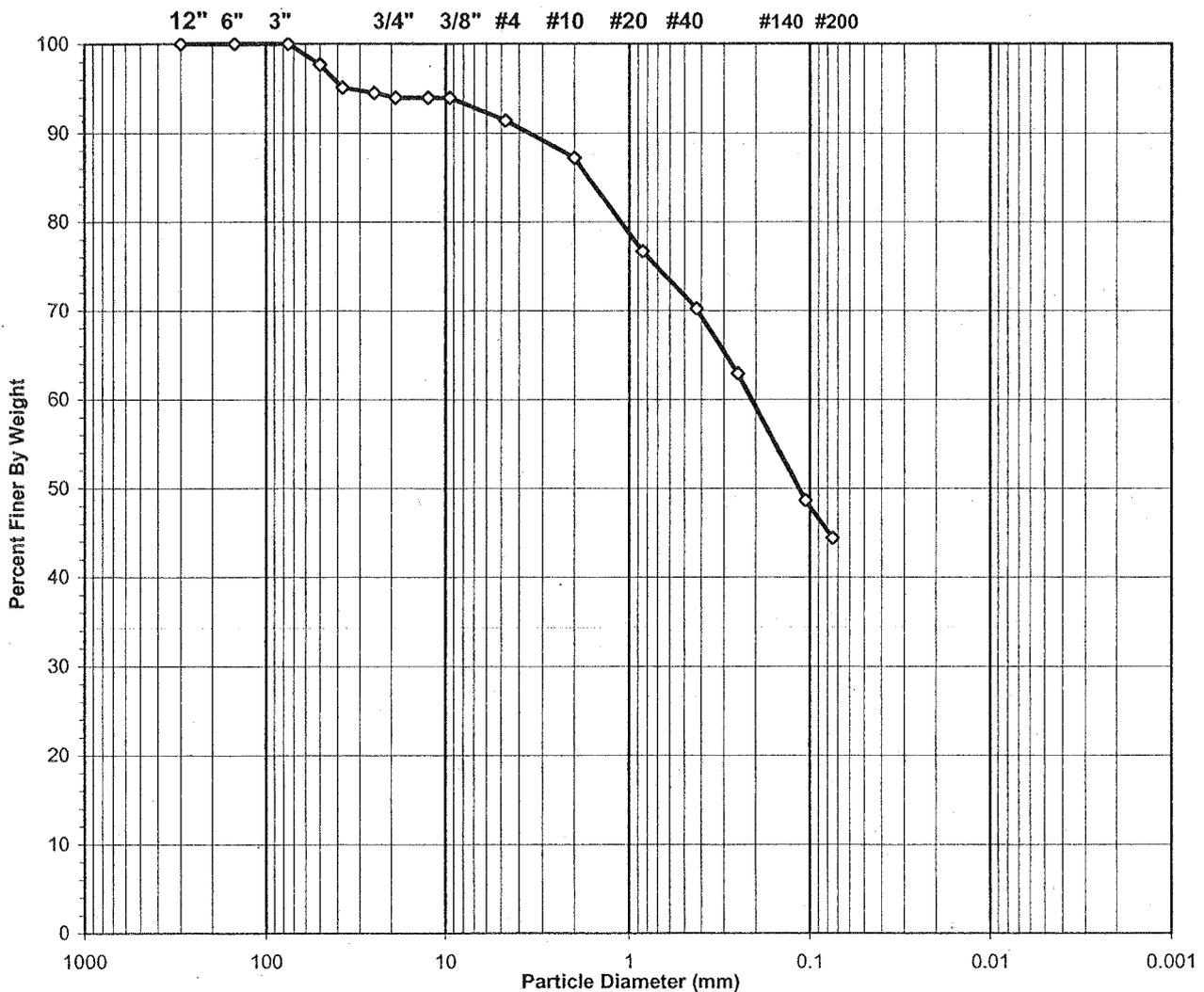


Tested By KAW Date 9/21/2004 Checked By ASN Date 9-30-04

SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	INTERM. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	24-28K
Lab ID	2004-547-07-11	Soil Color	REDDISH BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol SC, TESTED

USCS Classification CLAYEY SAND

Tested By MW Date 9/22/2004 Checked By *SGM* Date 9-30-04



WASH SIEVE ANALYSIS

ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	INTERM. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	24-28K
Lab ID	2004-547-07-11	Soil Color	REDDISH BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	K-3	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	740.70	Wgt. Tare + Wet Specimen (gm)	959.20
Wgt. Tare + Dry Specimen (gm)	602.00	Wgt. Tare + Dry Specimen (gm)	959.20
Weight of Tare (gm)	152.35	Weight of Tare (gm)	0.00
Weight of Water (gm)	138.70	Weight of Water (gm)	0.00
Weight of Dry Soil (gm)	449.65	Weight of Dry Soil (gm)	959.20
Moisture Content (%)	30.8	Moisture Content (%)	0.0

Wet Weight -3/4" Sample (gm)	19437.25	Weight of the Dry Specimen (gm)	449.65
Dry Weight - 3/4" Sample (gm)	14855.0	Weight of minus #200 material (gm)	212.51
Wet Weight +3/4" Sample (gm)	959.20	Weight of plus #200 material (gm)	237.14
Dry Weight + 3/4" Sample (gm)	959.20		
Total Dry Weight Sample (gm)	15814.2	J - Factor (Percent Finer than 3/4")	0.9393

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	366.34 (*)	2.3	2.3	97.7	97.7
1 1/2"	37.5	411.88	2.6	4.9	95.1	95.1
1"	25	91.36	0.6	5.5	94.5	94.5
3/4"	19	89.62	0.6	6.1	93.9	93.9
1/2"	12.5	0.00	0.0	0.0	100.0	93.9
3/8"	9.5	0.00	0.0	0.0	100.0	93.9
#4	4.75	12.12	2.7	2.7	97.3	91.4
#10	2	20.17	4.5	7.2	92.8	87.2
#20	0.85	50.29 (**)	11.2	18.4	81.6	76.7
#40	0.425	30.93	6.9	25.2	74.8	70.2
#60	0.25	34.99	7.8	33.0	67.0	62.9
#140	0.106	68.29	15.2	48.2	51.8	48.6
#200	0.075	20.35	4.5	52.7	47.3	44.4
Pan	-	212.51	47.3	100.0	-	-

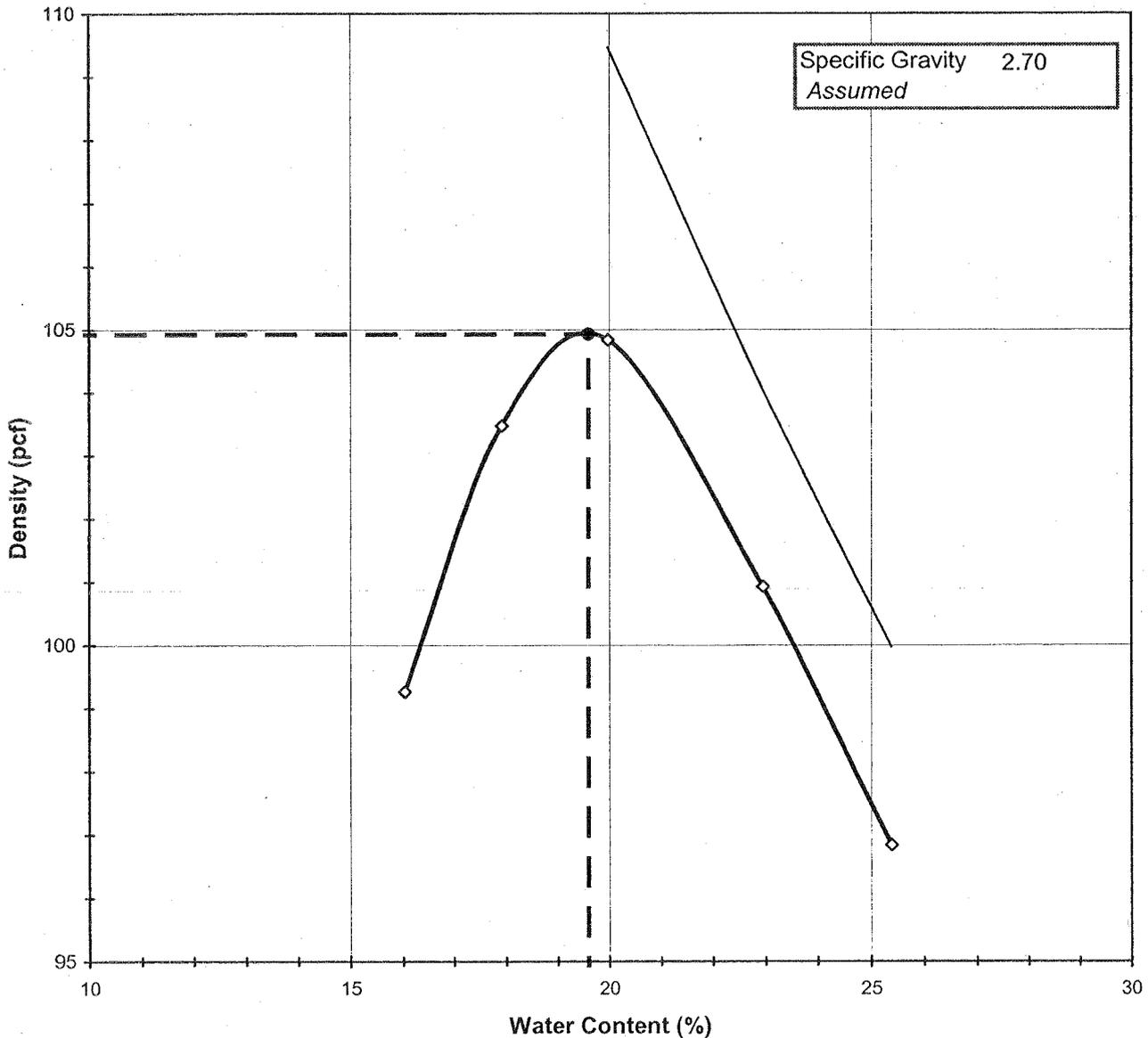
Notes : (*) The + 3/4" sieve analysis is based on the Total Dry Weight of the Sample
 (**) The - 3/4" sieve analysis is based on the Weight of the Dry Specimen

Tested By MW Date 9/22/2004 Checked By *com* Date 9-30-04

MOISTURE DENSITY RELATIONSHIP
ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	INTERM. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	20-24K-20K
Lab ID	2004-547-07-11	Test Method	STANDARD
Visual Description	RED SANDY CLAY		

Optimum Water Content 19.6
Maximum Dry Density 104.9



Tested By KAW Date 9/20/2004 Checked By com Date 9-30-04



MOISTURE - DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	INTERM. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	20-24K
Lab ID	2004-547-07-11		

Visual Description RED SANDY CLAY

Total Weight of the Sample (gm)	16860
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	959
Percent Retained on 3/8"	1273
Percent Retained on #4	NA
Oversize Material	Not included
Procedure Used	C

TestType	STANDARD
Rammer Weight (lbs)	5.5
Rammer Drop (in)	12
Rammer Type	MECHANICAL
Machine ID	R174
Mold ID	R173
Mold diameter	6"
Weight of the Mold	5567
Volume of the Mold(cc)	2124

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	9488	9721	9849	9791	9700
Wt. of Mold (gm)	5567	5567	5567	5567	5567
Wt. of WS	3921	4154	4281	4224	4133
Mold Volume (cc)	2124	2124	2124	2124	2124

Moisture Content / Density

Tare Number	Y-13	SS-5	B-5	P-8	A-3
Wt. of Tare & WS (gm)	732.99	697.33	772.43	645.62	727.24
Wt. of Tare & DS (gm)	645.43	606.69	660.20	543.58	599.96
Wt. of Tare (gm)	99.22	100.80	98.12	98.83	98.51
Wt. of Water (gm)	87.56	90.64	112.23	102.04	127.28
Wt. of DS (gm)	546.21	505.89	562.08	444.75	501.45

Wet Density (gm/cc)	1.85	1.96	2.02	1.99	1.95
Wet Density (pcf)	115.2	122.0	125.8	124.1	121.4
Moisture Content (%)	16.0	17.9	20.0	22.9	25.4
Dry Density (pcf)	99.3	103.5	104.8	100.9	96.8

Zero Air Voids

Moisture Content (%)	20.0	22.9	25.4
Dry Unit Weight (pcf)	109.5	104.0	100.0

Tested By KAW Date 9/20/2004 Checked By GEM Date 9-30-04

ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	INTERM. COV.
Client Reference	N.WAKE SBTL. D PHS.1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	24-28K-32K
Lab ID	2004-547-07-12	Soil Description	REDDISH BROWN LEAN CLAY

Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description.

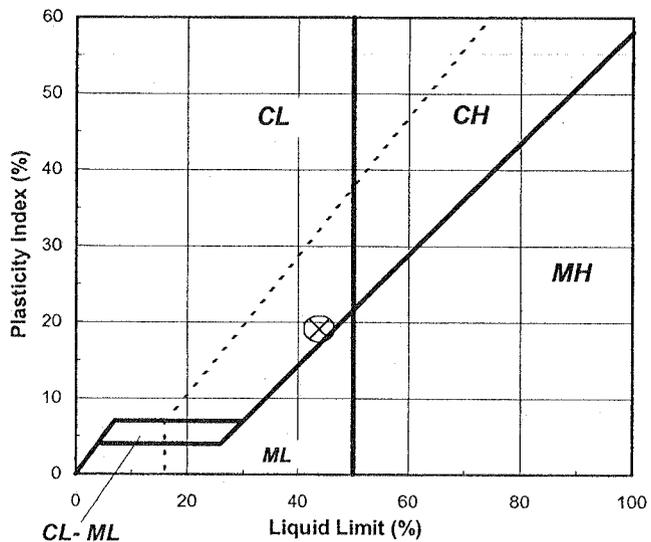
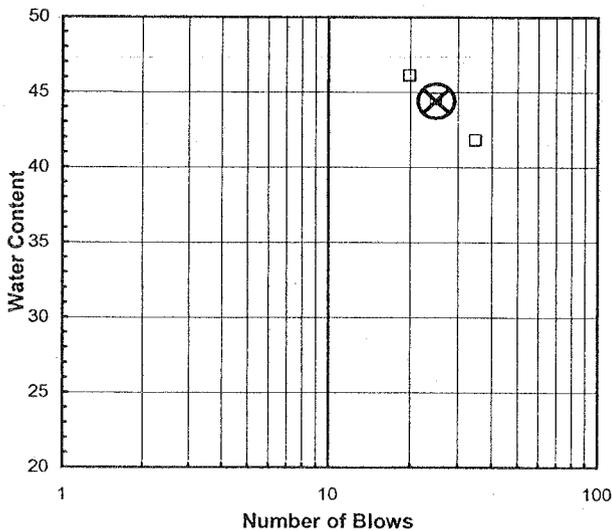
Liquid Limit Test	1	2	3	
Tare Number	H	A-Q	A-K	M
Wt. of Tare & WS (gm)	31.91	31.73	31.41	U
Wt. of Tare & DS (gm)	26.62	26.74	26.74	L
Wt. of Tare (gm)	15.14	15.53	15.56	T
Wt. of Water (gm)	5.3	5.0	4.7	I
Wt. of DS (gm)	11.5	11.2	11.2	P
Moisture Content (%)	46.1	44.5	41.8	O
Number of Blows	20	25	35	I
				N
				T

Plastic Limit Test	1	2	Range	Test Results	
Tare Number	A-H	A-P		Liquid Limit (%)	44
Wt. of Tare & WS (gm)	22.57	21.96		Plastic Limit (%)	25
Wt. of Tare & DS (gm)	21.15	20.69		Plasticity Index (%)	19
Wt. of Tare (gm)	15.57	15.63		USCS Symbol	CL
Wt. of Water (gm)	1.4	1.3			
Wt. of DS (gm)	5.6	5.1			
Moisture Content (%)	25.4	25.1	0.3		

Note: The acceptable range of the two Moisture contents is ± 2.6

Flow Curve

Plasticity Chart



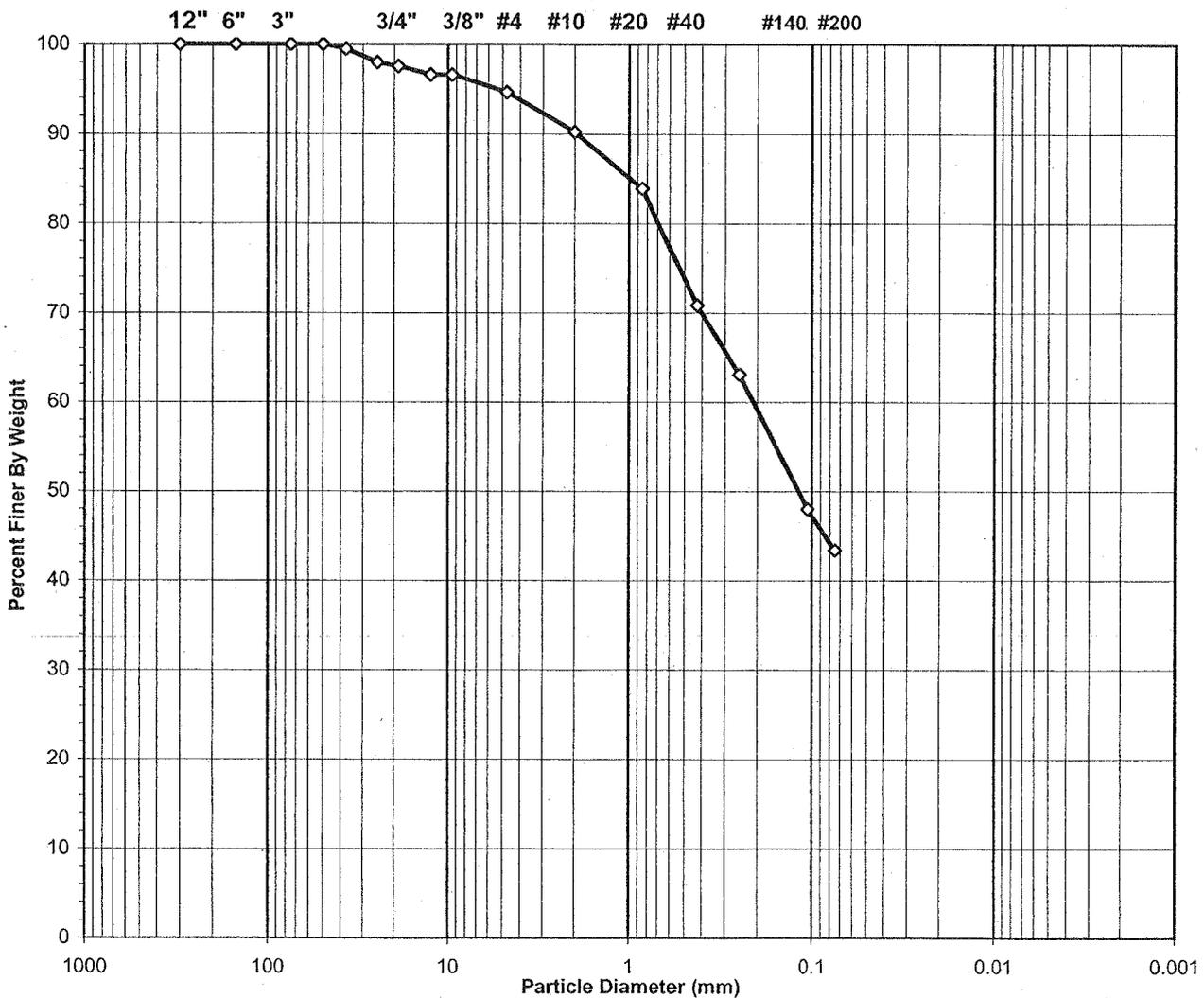
Tested By JDR Date 09/20/04 Checked By gem Date 9-30-04

page 1 of 1 DCN: CT-S4B DATE: 10/08/01 REVISION: 2

SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	INTERM. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	28-32K
Lab ID	2004-547-07-12	Soil Color	REDDISH BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol **SC, TESTED**

USCS Classification **CLAYEY SAND**

Tested By MW Date 09/20/04 Checked By *Cam* Date *9-30-04*

WASH SIEVE ANALYSIS

ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	INTERM. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	28-32K
Lab ID	2004-547-07-12	Soil Color	REDDISH BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	G-5	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	721.60	Wgt. Tare + Wet Specimen (gm)	395.72
Wgt. Tare + Dry Specimen (gm)	584.70	Wgt. Tare + Dry Specimen (gm)	395.72
Weight of Tare (gm)	148.76	Weight of Tare (gm)	0.00
Weight of Water (gm)	136.90	Weight of Water (gm)	0.00
Weight of Dry Soil (gm)	435.94	Weight of Dry Soil (gm)	395.72
Moisture Content (%)	31.4	Moisture Content (%)	0.0

Wet Weight - 3/4" Sample (gm)	20693	Weight of the Dry Specimen (gm)	435.94
Dry Weight - 3/4" Sample (gm)	15747.7	Weight of minus #200 material (gm)	193.91
Wet Weight + 3/4" Sample (gm)	395.72	Weight of plus #200 material (gm)	242.03
Dry Weight + 3/4" Sample (gm)	395.72		
Total Dry Weight Sample (gm)	16143.4	J - Factor (Percent Finer than 3/4")	0.9755

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	(*)	0.0	100.0	100.0
1 1/2"	37.5	88.22	0.5	0.5	99.5	99.5
1"	25	237.89	1.5	2.0	98.0	98.0
3/4"	19	69.61	0.4	2.5	97.5	97.5
1/2"	12.5	4.26	1.0	1.0	99.0	96.6
3/8"	9.5	0.00	0.0	1.0	99.0	96.6
#4	4.75	8.61	2.0	3.0	97.0	94.7
#10	2	19.85	4.6	7.5	92.5	90.2
#20	0.85	28.30	(**)	14.0	86.0	83.9
#40	0.425	58.26	13.4	27.4	72.6	70.9
#60	0.25	34.70	8.0	35.3	64.7	63.1
#140	0.106	67.44	15.5	50.8	49.2	48.0
#200	0.075	20.61	4.7	55.5	44.5	43.4
Pan	-	193.91	44.5	100.0	-	-

Notes : (*) The + 3/4" sieve analysis is based on the Total Dry Weight of the Sample
(**) The - 3/4" sieve analysis is based on the Weight of the Dry Specimen

Tested By MW Date 09/20/04 Checked By *Gen* Date *9-30-04*

MOISTURE - DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	INTERM. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	28-32K
Lab ID	2004-547-07-12		

Visual Description RED SANDY CLAY

Total Weight of the Sample (gm)	16850
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	NA
Percent Retained on 3/8"	557
Percent Retained on #4	NA
Oversize Material	Not included
Procedure Used	A

TestType	STANDARD
Rammer Weight (lbs)	5.5
Rammer Drop (in)	12
Rammer Type	MECHANICAL
Machine ID	R174
Mold ID	R172
Mold diameter	4"
Weight of the Mold	4220
Volume of the Mold(cc)	940

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	5817	5932	6050	6072	6057
Wt. of Mold (gm)	4220	4220	4220	4220	4220
Wt. of WS	1596	1712	1829	1852	1837
Mold Volume (cc)	940	940	940	940	940

Moisture Content / Density

Tare Number	A-1	Z-14	Y-5	F-4	Y-6
Wt. of Tare & WS (gm)	582.35	642.42	734.93	642.54	674.81
Wt. of Tare & DS (gm)	528.52	569.20	633.64	544.73	560.20
Wt. of Tare (gm)	99.61	100.79	100.66	100.47	100.63
Wt. of Water (gm)	53.83	73.22	101.29	97.81	114.61
Wt. of DS (gm)	428.91	468.41	532.98	444.26	459.57

Wet Density (gm/cc)	1.70	1.82	1.95	1.97	1.95
Wet Density (pcf)	105.9	113.6	121.4	122.9	121.9
Moisture Content (%)	12.6	15.6	19.0	22.0	24.9
Dry Density (pcf)	94.1	98.3	102.0	100.7	97.6

Zero Air Voids

Moisture Content (%)	19.0	22.0	24.9
Dry Unit Weight (pcf)	111.3	105.7	100.7

Tested By KAW Date 09/22/04 Checked By *GEM* Date 9-30-04

ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	INTERM. COV.
Client Reference	N. WAKE SBTL. D PHASE1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	32-36K
Lab ID	2004-547-07-13	Soil Description	REDDISH BROWN LEAN CLAY (Minus No. 40 sieve material, Wet method)

Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description.

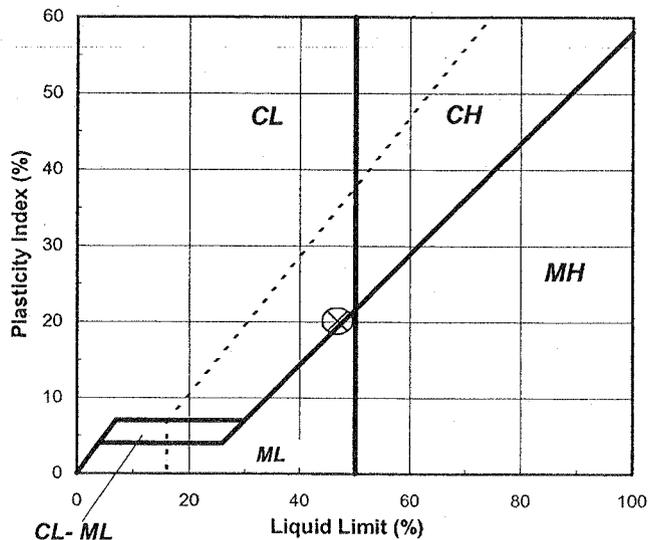
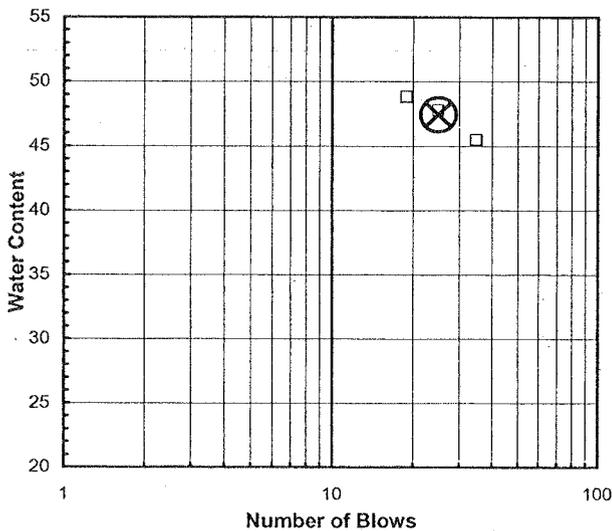
Liquid Limit Test	1	2	3	
Tare Number	A	A-P	A-H	M
Wt. of Tare & WS (gm)	28.79	30.32	32.92	U
Wt. of Tare & DS (gm)	24.35	25.57	27.50	L
Wt. of Tare (gm)	15.25	15.62	15.57	T
Wt. of Water (gm)	4.4	4.8	5.4	I
Wt. of DS (gm)	9.1	10.0	11.9	P
Moisture Content (%)	48.8	47.7	45.4	O
Number of Blows	19	25	35	I
				N
				T

Plastic Limit Test	1	2	Range	Test Results
Tare Number	P	X		Liquid Limit (%) 47
Wt. of Tare & WS (gm)	22.99	22.83		Plastic Limit (%) 27
Wt. of Tare & DS (gm)	21.34	21.22		Plasticity Index (%) 20
Wt. of Tare (gm)	15.27	15.24		USCS Symbol CL
Wt. of Water (gm)	1.7	1.6		
Wt. of DS (gm)	6.1	6.0		
Moisture Content (%)	27.2	26.9	0.3	

Note: The acceptable range of the two Moisture contents is ± 2.6

Flow Curve

Plasticity Chart

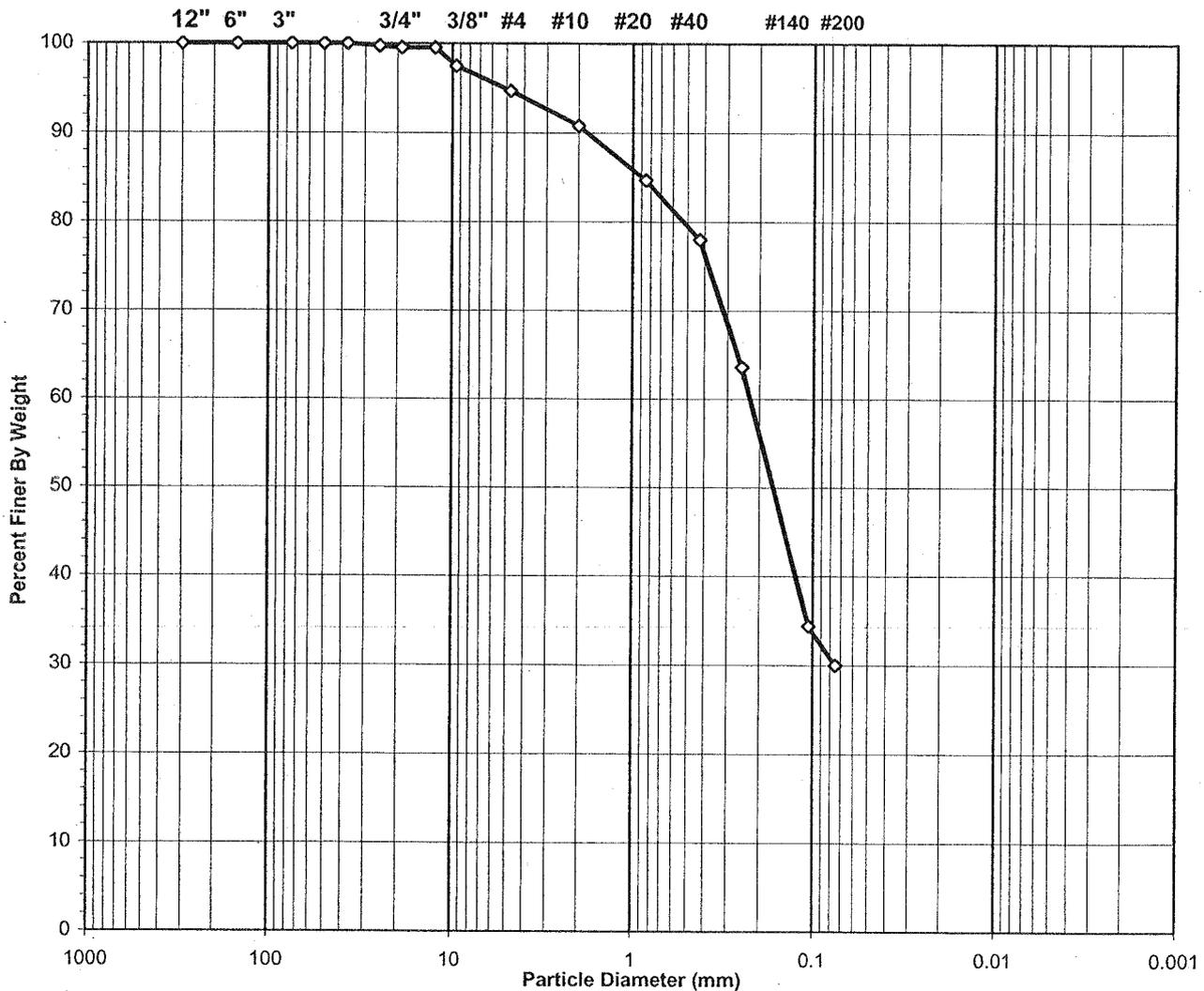


Tested By **KAW** Date **9/27/2004** Checked By **GEM** Date **9-30-04**

SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	INTERM. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	32-36K
Lab ID	2004-547-07-13	Soil Color	REDDISH BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol **SC, TESTED**

USCS Classification **CLAYEY SAND**

Tested By MW Date 09/24/04 Checked By *GSM* Date *9-30-04*



WASH SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	INTERM. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	32-36K
Lab ID	2004-547-07-13	Soil Color	REDDISH BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	H-3	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	785.86	Wgt. Tare + Wet Specimen (gm)	89.40
Wgt. Tare + Dry Specimen (gm)	725.80	Wgt. Tare + Dry Specimen (gm)	89.40
Weight of Tare (gm)	151.09	Weight of Tare (gm)	0.00
Weight of Water (gm)	60.06	Weight of Water (gm)	0.00
Weight of Dry Soil (gm)	574.71	Weight of Dry Soil (gm)	89.40
Moisture Content (%)	10.5	Moisture Content (%)	0.0

Wet Weight - 3/4" Sample (gm)	20693	Weight of the Dry Specimen (gm)	574.71
Dry Weight - 3/4" Sample (gm)	18735.1	Weight of minus #200 material (gm)	173.19
Wet Weight + 3/4" Sample (gm)	89.20	Weight of plus #200 material (gm)	401.52
Dry Weight + 3/4" Sample (gm)	89.20		
Total Dry Weight Sample (gm)	18824.3	J - Factor (Percent Finer than 3/4")	0.9953

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	(*)	0.0	100.0	100.0
1 1/2"	37.5	0.00		0.0	100.0	100.0
1"	25	48.16		0.3	99.7	99.7
3/4"	19	41.04		0.2	99.5	99.5
1/2"	12.5	0.00		0.0	100.0	99.5
3/8"	9.5	11.76		2.0	98.0	97.5
#4	4.75	16.21		2.8	95.1	94.7
#10	2	22.52		3.9	91.2	90.8
#20	0.85	35.30	(**)	6.1	85.1	84.7
#40	0.425	38.57		6.7	78.4	78.0
#60	0.25	83.11		14.5	63.9	63.6
#140	0.106	168.74		29.4	34.5	34.4
#200	0.075	25.31		4.4	30.1	30.0
Pan	-	173.19		30.1	-	-

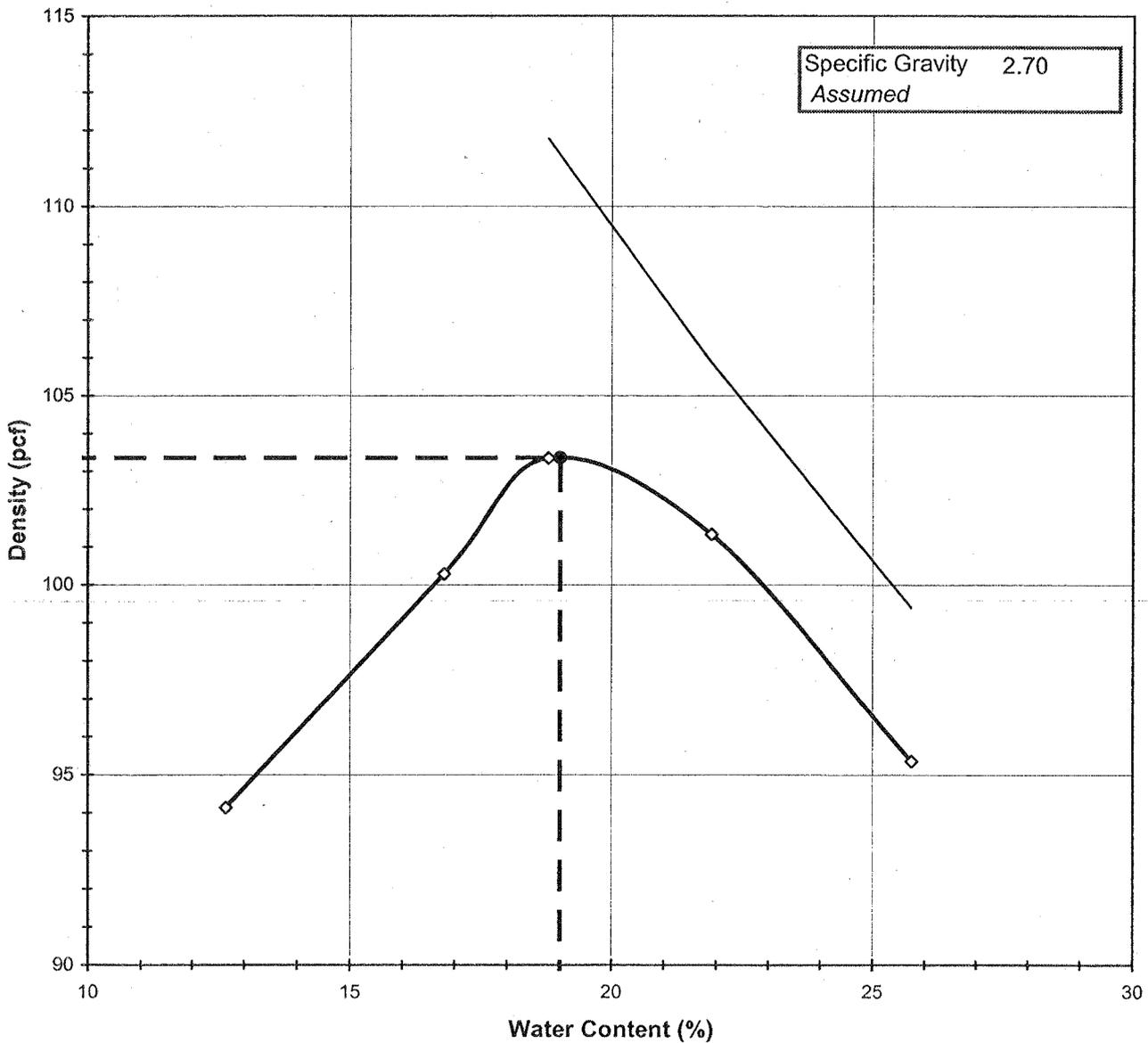
Notes : (*) The + 3/4" sieve analysis is based on the Total Dry Weight of the Sample
 (**) The - 3/4" sieve analysis is based on the Weight of the Dry Specimen

Tested By MW Date 09/24/04 Checked By *GAM* Date *9-30-04*

MOISTURE DENSITY RELATIONSHIP
ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	INTERM. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	32-36K
Lab ID	2004-547-07-13	Test Method	STANDARD
Visual Description	RED SANDY CLAY		

Optimum Water Content 19.0
Maximum Dry Density 103.4



Tested By MW Date 9/27/2004 Checked By GEM Date 9-30-04

MOISTURE - DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	INTERM. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	32-36K
Lab ID	2004-547-07-13		

Visual Description RED SANDY CLAY

Total Weight of the Sample (gm)	18779
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	NA
Percent Retained on 3/8"	NA
Percent Retained on #4	NA
Oversize Material	Not included
Procedure Used	B

TestType	STANDARD
Rammer Weight (lbs)	5.5
Rammer Drop (in)	12
Rammer Type	MECHANICAL
Machine ID	R174
Mold ID	R172
Mold diameter	4"
Weight of the Mold	4220
Volume of the Mold(cc)	940

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	5818	5985	6070	6082	6027
Wt. of Mold (gm)	4220	4220	4220	4220	4220
Wt. of WS	1598	1765	1850	1861	1807
Mold Volume (cc)	940	940	940	940	940

Moisture Content / Density

Tare Number	SS-7	SS-8	F-1	Z-12	ZZ-1
Wt. of Tare & WS (gm)	490.32	531.98	443.02	604.63	545.33
Wt. of Tare & DS (gm)	446.37	469.66	388.48	513.96	454.23
Wt. of Tare (gm)	98.91	98.58	98.23	100.01	100.44
Wt. of Water (gm)	43.95	62.32	54.54	90.67	91.10
Wt. of DS (gm)	347.46	371.08	290.25	413.95	353.79

Wet Density (gm/cc)	1.70	1.88	1.97	1.98	1.92
Wet Density (pcf)	106.0	117.1	122.8	123.5	119.9
Moisture Content (%)	12.6	16.8	18.8	21.9	25.7
Dry Density (pcf)	94.1	100.3	103.4	101.3	95.4

Zero Air Voids

Moisture Content (%)	18.8	21.9	25.7
Dry Unit Weight (pcf)	111.8	105.9	99.4

Tested By MW Date 9/27/2004 Checked By Gem Date 9-30-04

Appendix A-3

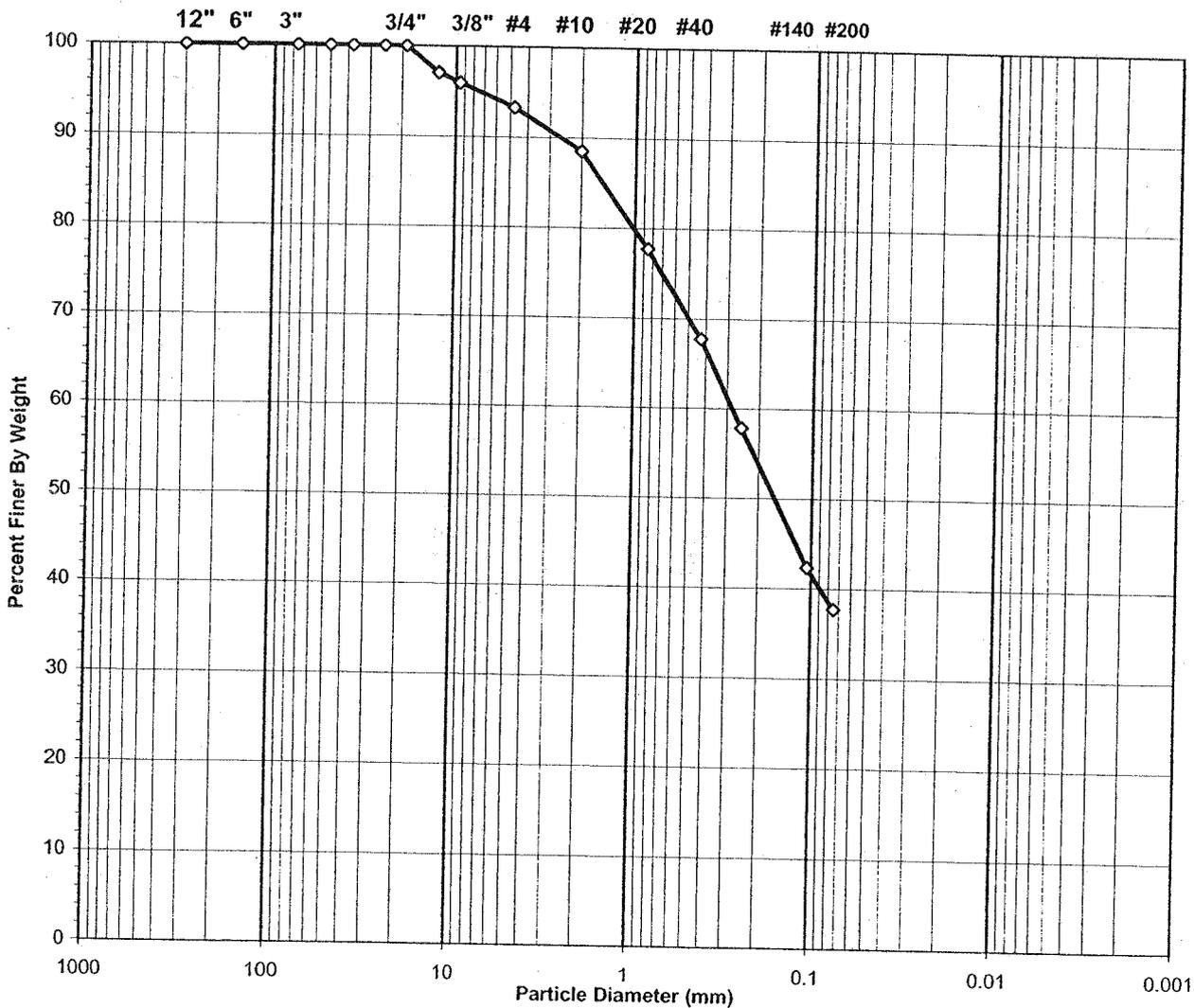
Final Cover Conformance Testing

SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client Thalle Construction Co. Inc.
 Client Reference N Wake Sbtl. D Phase 1 Closure
 Project No. 2004-547-06
 Lab ID 2004-547-06-03

Boring No. PROT. CO.
 Depth (ft) NA
 Sample No. 12-16 K
 Soil Color BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol SM, TESTED

USCS Classification SILTY SAND

Tested By BA Date 07/23/04 Checked By *GAM* Date 7-27-04

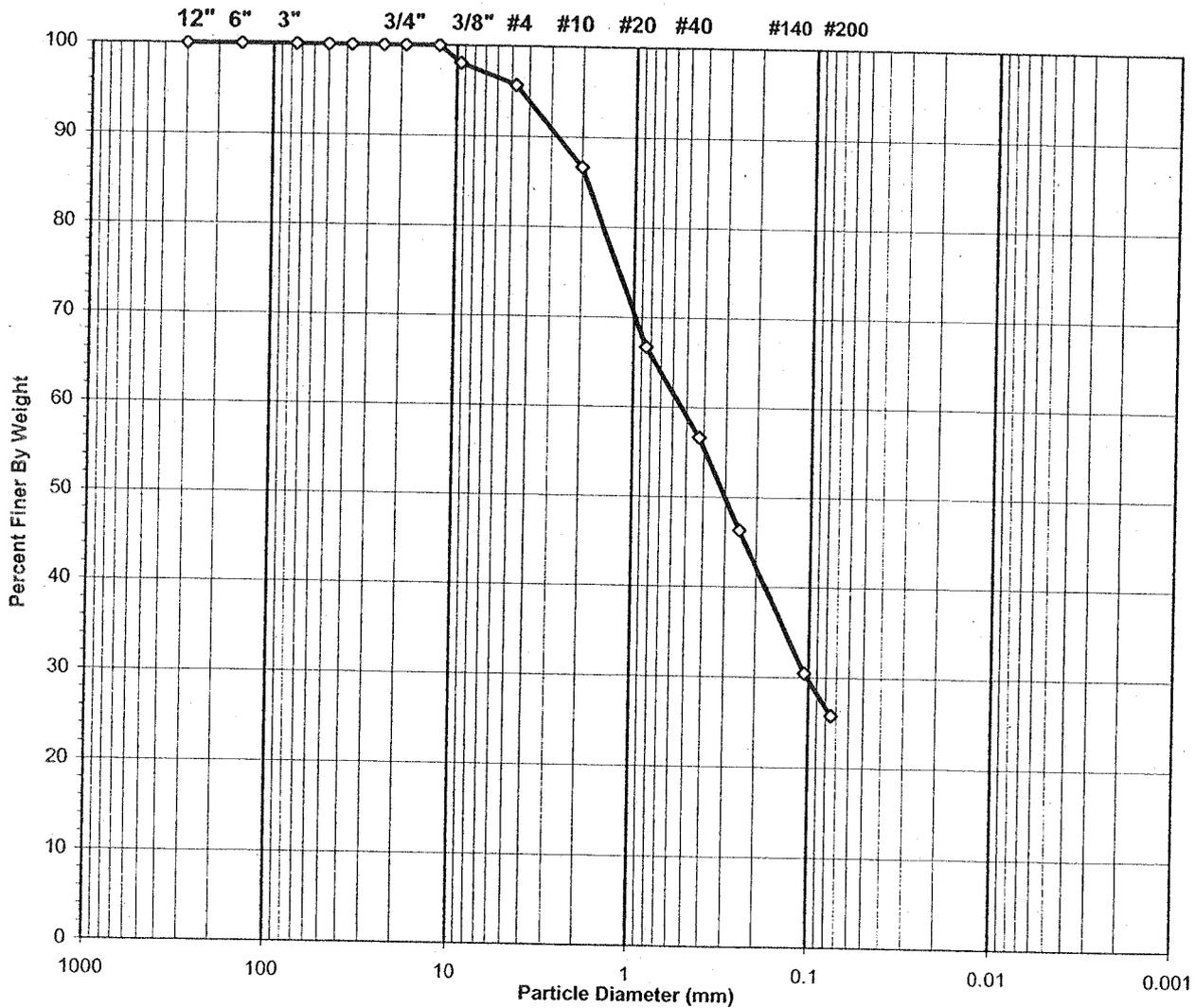


SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client: Thalle Construction Co. Inc.
 Client Reference: N Wake Sbtl. D Phase 1 Closure
 Project No.: 2004-547-06
 Lab ID: 2004-547-06-01

Boring No.:
 Depth (ft):
 Sample No.:
 Soil Color: BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol **SM, TESTED**

USCS Classification **SILTY SAND**

Tested By BA Date 07/23/04 Checked By *GAM* Date 7-27-04

WASH SIEVE ANALYSIS

ASTM D 422-63 (SOP-S3)

Client	Thalle Construction Co. Inc.	Boring No.	PROT. CO.
Client Reference	N Wake Sbtl. D Phase 1 Closure	Depth (ft)	NA
Project No.	2004-547-06	Sample No.	4-8 K
Lab ID	2004-547-06-01	Soil Color	BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	G-14	Tare No.	Y-1
Wgt. Tare + Wet Specimen (gm)	692.95	Wgt. Tare + Wet Specimen (gm)	186.91
Wgt. Tare + Dry Specimen (gm)	621.36	Wgt. Tare + Dry Specimen (gm)	183.79
Weight of Tare (gm)	152.76	Weight of Tare (gm)	99.70
Weight of Water (gm)	71.59	Weight of Water (gm)	3.12
Weight of Dry Soil (gm)	468.60	Weight of Dry Soil (gm)	84.09
Moisture Content (%)	15.3	Moisture Content (%)	3.7

Wet Weight - 3/4" Sample (gm)	21761	Weight of the Dry Specimen (gm)	468.60
Dry Weight - 3/4" Sample (gm)	18877.1	Weight of minus #200 material (gm)	120.83
Wet Weight + 3/4" Sample (gm)	0.00	Weight of plus #200 material (gm)	347.77
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	18877.1	J - Factor (Percent Finer than 3/4")	1.0000

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25	0.00	0.0	0.0	100.0	100.0
3/4"	19	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.5	9.21	2.0	2.0	98.0	98.0
#4	4.75	11.12	2.4	4.3	95.7	95.7
#10	2	42.19	9.0	13.3	86.7	86.7
#20	0.85	93.53	20.0	33.3	66.7	66.7
#40	0.425	47.20	10.1	43.4	56.6	56.6
#60	0.25	48.38	10.3	53.7	46.3	46.3
#140	0.106	74.25	15.8	69.5	30.5	30.5
#200	0.075	21.89	4.7	74.2	25.8	25.8
Pan	-	120.83	25.8	100.0	-	-

Notes : (*) The + 3/4" sieve analysis is based on the Total Dry Weight of the Sample
 (**) The - 3/4" sieve analysis is based on the Weight of the Dry Specimen

Tested By BA Date 07/23/04 Checked By *GEM* Date 7-27-04



ATTERBERG LIMIT
ASTM D 4318-00 (SOP - S4)

Client	Thalle Construction Co.	Boring No.	PROT COV.
Client Reference	N. Wake Sbtl. D. Phase 1 Closure	Depth (ft)	NA
Project No.	2004-547-06	Sample No.	12-16K
Lab ID	2004-547-06-03	Visual Description	ORANGISH BROWN SILT (Minus No. 40 sieve material, Airdried)

**NON - PLASTIC
MATERIAL**

Tested By BA Date 7/22/2004 Checked By *cem* Date 7-26-04



ATTERBERG LIMIT
ASTM D 4318-00 (SOP - S4)

Client	Thalle Construction Co.	Boring No.	PROT COV.
Client Reference	N. Wake Sbtl. D. Phase 1 Closure	Depth (ft)	NA
Project No.	2004-547-06	Sample No.	4-8K
Lab ID	2004-547-06-01	Visual Description	ORANGISH BROWN SILT (Minus No. 40 sieve material, Airdried)

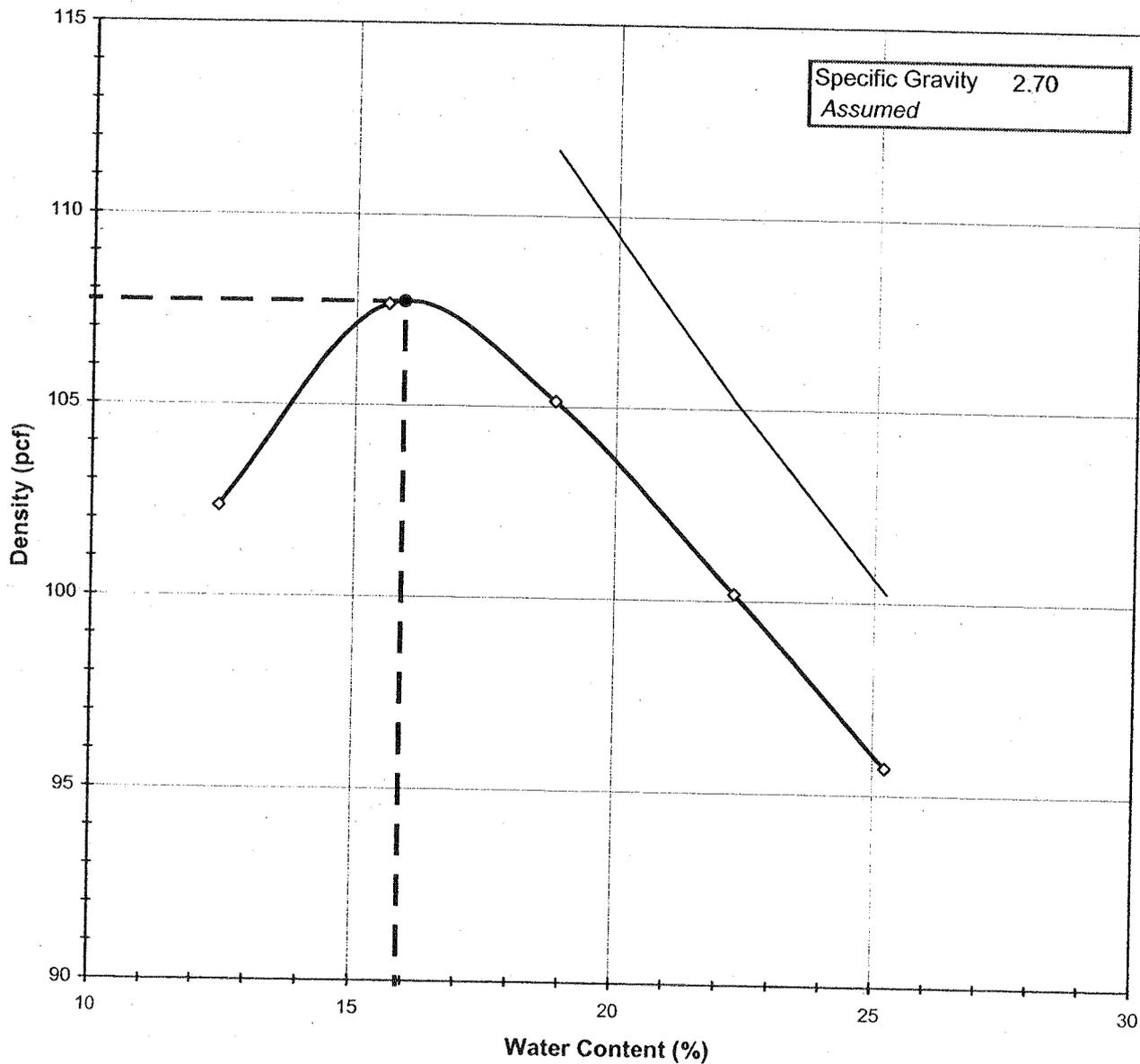
**NON - PLASTIC
MATERIAL**

Tested By BA Date 7/22/2004 Checked By Gem Date 7-26-04

MOISTURE DENSITY RELATIONSHIP
ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC. Boring No.	PROT. CO.
Client Reference	N. WAKE SBTL. D PAHSE 1 CLOSUI Depth (ft)	NA
Project No.	2004-547-06	Sample No.
Lab ID	2004-547-06-01	Test Method
Visual Description	BROWN SANDY SILT	4-8K
		STANDARD

Optimum Water Content 15.9
Maximum Dry Density 107.7



Tested By KAW Date 07/28/04 Checked By RAMS Date 8-2-04

MOISTURE - DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. CO.
Client Reference	N. WAKE SBTL. D PAHSE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-06	Sample No.	4-8K
Lab ID	2004-547-06-01		

Visual Description BROWN SANDY SILT

Total Weight of the Sample (gm)	NA
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	NA
Percent Retained on 3/8"	NA
Percent Retained on #4	NA
Oversize Material	Not included
Procedure Used	A

TestType	STANDARD
Rammer Weight (lbs)	5.5
Rammer Drop (in)	12
Rammer Type	MECHANICAL
Machine ID	R174
Mold ID	R172
Mold diameter	4"
Weight of the Mold	4221
Volume of the Mold(cc)	940

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	5955	6096	6103	6066	6027
Wt. of Mold (gm)	4221	4221	4221	4221	4221
Wt. of WS	1734	1875	1883	1846	1806
Mold Volume (cc)	940	940	940	940	940

Moisture Content / Density

Tare Number	Y-6	SS-6	Z-12	F-2	SS-4
Wt. of Tare & WS (gm)	517.11	411.29	624.01	461.87	493.48
Wt. of Tare & DS (gm)	471.02	369.40	541.00	396.04	414.30
Wt. of Tare (gm)	100.56	101.01	99.95	100.73	100.48
Wt. of Water (gm)	46.09	41.89	83.01	65.83	79.18
Wt. of DS (gm)	370.46	268.39	441.05	295.31	313.82

Wet Density (gm/cc)	1.84	1.99	2.00	1.96	1.92
Wet Density (pcf)	115.1	124.5	124.9	122.5	119.9
Moisture Content (%)	12.4	15.6	18.8	22.3	25.2
Dry Density (pcf)	102.3	107.7	105.1	100.2	95.7

Zero Air Voids

Moisture Content (%)	18.8	22.3	25.2
Dry Unit Weight (pcf)	111.7	105.2	100.2

Tested By KAW Date 07/28/04 Checked By MMW Date 8-2-04

MOISTURE CONTENT
ASTM D 2216 (SOP-S1)

Client THALLE CONSTRUCTION CO., INC.
Client Reference N.WAKE SBTL. D PHASE 1 CLOSURE
Project No. 2004-547-07

Lab ID	.001	.002	.003	.004	.005
Boring No.	VEGIT.COV.	VEGIT.COV.	VEGIT.COV.	PROT.COV.	PROT.COV.
Depth (ft)	NA	NA	NA	NA	NA
Sample No.	8-12K	12-16K	16-20K	16-20K	20-24K
Tare Number	H-5	A-A	K-3	K-2	G-13
Wt. of Tare & WS (gm)	943.90	934.52	729.34	745.22	764.43
Wt. of Tare & DS (gm)	869.24	858.72	660.92	607.95	622.52
Wt. of Tare (gm)	152.10	152.60	152.20	152.27	153.15
Wt. of Water (gm)	74.66	75.8	68.42	137.27	141.91
Wt. of DS (gm)	717.14	706.12	508.72	455.68	469.37
Water Content (%)	10.4	10.7	13.4	30.1	30.2

Lab ID	.006	.007	.008	.009	.010
Boring No.	PROT.COV.	PROT.COV.	PROT.COV.	INTERM.COV.	INTERM.COV.
Depth (ft)	NA	NA	NA	NA	NA
Sample No.	24-28K	28-32K	32-36K	4-8K	20-24K
Tare Number	H-3	A-A	G-5	H-4	H-3
Wt. of Tare & WS (gm)	728.60	776.40	792.15	711.30	788.25
Wt. of Tare & DS (gm)	594.20	633.40	725.07	625.21	670.26
Wt. of Tare (gm)	151.15	152.57	148.73	152.07	151.29
Wt. of Water (gm)	134.4	143	67.08	86.09	117.99
Wt. of DS (gm)	443.05	480.83	576.34	473.14	518.97
Water Content (%)	30.3	29.7	11.6	18.2	22.7

Notes : NA

MOISTURE CONTENT

ASTM D 2216 (SOP-S1)

Client THALLE CONST. CO.
Client Reference N. WAKE SBTL D PHS 1 CLOSURE
Project No. 2004-547-06

Lab ID	01	02	03
Boring No.	PROT. COV.	PROT. COV.	PROT. COV.
Depth (ft)	NA	NA	NA
Sample No.	4-8K	8-12K	12-16K
Tare Number	SS-5	Y-4	Y-13
Wt. of Tare & WS (gm)	300.64	358.69	306.97
Wt. of Tare & DS (gm)	273.04	324.7	280.38
Wt. of Tare (gm)	100.92	100.05	99.18
Wt. of Water (gm)	27.6	33.99	26.59
Wt. of DS (gm)	172.12	224.65	181.2
Water Content (%)	16.0	15.1	14.7

Notes: NA

Tested By BA Date 7/21/2004 Checked By *cam* Date 7-22-04

**NORTH WAKE LANFILL
PHASE I CLOSURE**

**GEOTECHNIC CONFORMANCE TESTING
SECTION 02200**

**D422- Grain Size Analysis
D4318- Atterberg Limits
D698- Moisture Density
D2216- Natural Moisture**

**SAMPLE: Protective cover
FREQUENCY: 8,000 to 12,000 CY**

Certification Statement: By this submittal, I hereby represent that I have determined and verified all field measurements, field construction criteria, materials, dimensions, catalog numbers and similar data and I have checked and coordinated each item with other applicable approved shop drawings and all Contract requirements.

Curt *8/1/04*
Thalle Construction Company, Inc.

D-02200-007-A

MOISTURE CONTENT
ASTM D 2216 (SOP-S1)

Client THALLE CONST. CO.
Client Reference N. WAKE SBTL D PHS 1 CLOSURE
Project No. 2004-547-06

Lab ID	01	02	03
Boring No.	PROT. COV.	PROT. COV.	PROT. COV.
Depth (ft)	NA	NA	NA
Sample No.	4-8K	8-12K	12-16K
Tare Number	SS-5	Y-4	Y-13
Wt. of Tare & WS (gm)	300.64	358.69	306.97
Wt. of Tare & DS (gm)	273.04	324.7	280.38
Wt. of Tare (gm)	100.92	100.05	99.18
Wt. of Water (gm)	27.6	33.99	26.59
Wt. of DS (gm)	172.12	224.65	181.2
Water Content (%)	16.0	15.1	14.7

Notes : NA

Tested By BA Date 7/21/2004 Checked By *com* Date 7-22-04

page 1 of 1 DCN: CT-S1 DATE 6-30-98 REVISION: 2 \\Davejenks1\c\2004PR-1\20B27C--1\2004-547-06 Water Content.xls\Sheet1



ATTERBERG LIMIT
ASTM D 4318-00 (SOP - S4)

Client	Thalle Construction Co.	Boring No.	PROT COV.
Client Reference	N. Wake Sbtl. D. Phase 1 Closure	Depth (ft)	NA
Project No.	2004-547-06	Sample No.	8-12K
Lab ID	2004-547-06-02	Visual Description	ORANGISH BROWN SILT (Minus No. 40 sieve material, Airdried)

**NON - PLASTIC
MATERIAL**

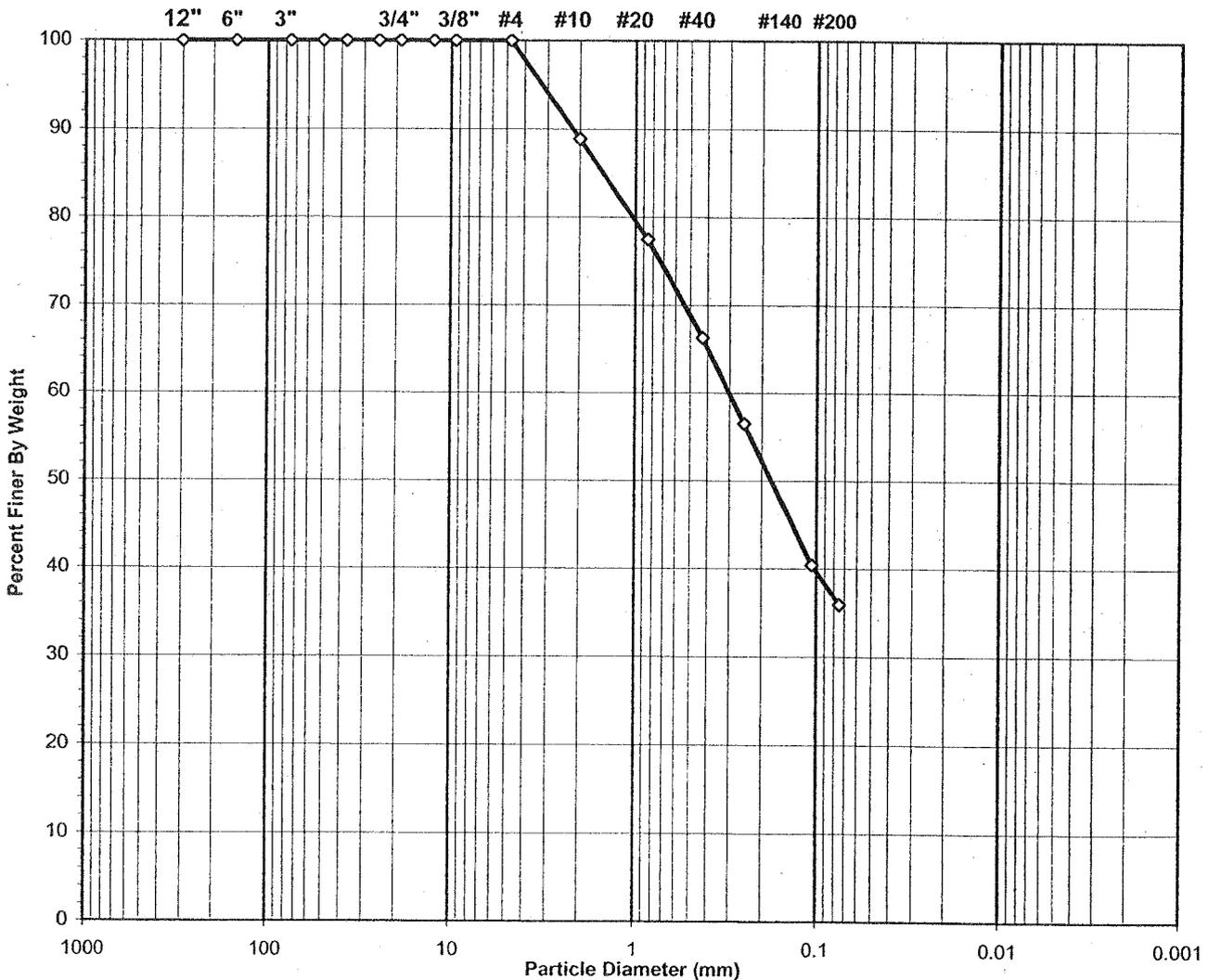
Tested By BA Date 7/22/2004 Checked By *Gem* Date 7-26-04



SIEVE ANALYSIS
ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	Thalle Construction Co.	Boring No.	PROT. COV.
Client Reference	N. Wake Sbtl. D. Phase 1 Closure	Depth (ft)	NA
Project No.	2004-547-06	Sample No.	8-12K
Lab ID	2004-547-06-02	Soil Color	ORANGISH BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol SM, TESTED
(NON-PLASTIC FINES)
USCS Classification SILTY SAND

Tested By BA Date 07/23/04 Checked By *GAN* Date 7-26-04



WASH SIEVE ANALYSIS

ASTM D 422-63/AASHTO T88-00 (SOP-S3)

Client	Thalle Construction Co.	Boring No.	PROT. COV.
Client Reference	N. Wake Sbtl. D. Phase 1 Closure	Depth (ft)	NA
Project No.	2004-547-06	Sample No.	8-12K
Lab ID	2004-547-06-02	Soil Color	ORANGISH BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	G-13	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	683.90	Wgt. Tare + Wet Specimen (gm)	NA
Wgt. Tare + Dry Specimen (gm)	612.25	Wgt. Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	153.77	Weight of Tare (gm)	NA
Weight of Water (gm)	71.65	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	458.48	Weight of Dry Soil (gm)	NA
Moisture Content (%)	15.6	Moisture Content (%)	NA

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	458.48
Dry Weight - 3/4" Sample (gm)	293.8	Weight of minus #200 material (gm)	164.64
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	293.84
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.00	0.00	100.00	100.00
6"	150	0.00	0.00	0.00	100.00	100.00
3"	75	0.00	0.00	0.00	100.00	100.00
2"	50	0.00	0.00	0.00	100.00	100.00
1 1/2"	37.5	0.00	0.00	0.00	100.00	100.00
1"	25.0	0.00	0.00	0.00	100.00	100.00
3/4"	19.0	0.00	0.00	0.00	100.00	100.00
1/2"	12.50	0.00	0.00	0.00	100.00	100.00
3/8"	9.50	0.00	0.00	0.00	100.00	100.00
#4	4.75	0.00	0.00	0.00	100.00	100.00
#10	2.00	50.96	11.11	11.11	88.89	88.89
#20	0.850	52.33	11.41	22.53	77.47	77.47
#40	0.425	51.27	11.18	33.71	66.29	66.29
#60	0.250	44.93	9.80	43.51	56.49	56.49
#140	0.106	73.70	16.07	59.59	40.41	40.41
#200	0.075	20.65	4.50	64.09	35.91	35.91
Pan	-	164.64	35.91	100.00	-	-

Tested By BA Date 07/23/04 Checked By *GEM* Date *7-26-04*

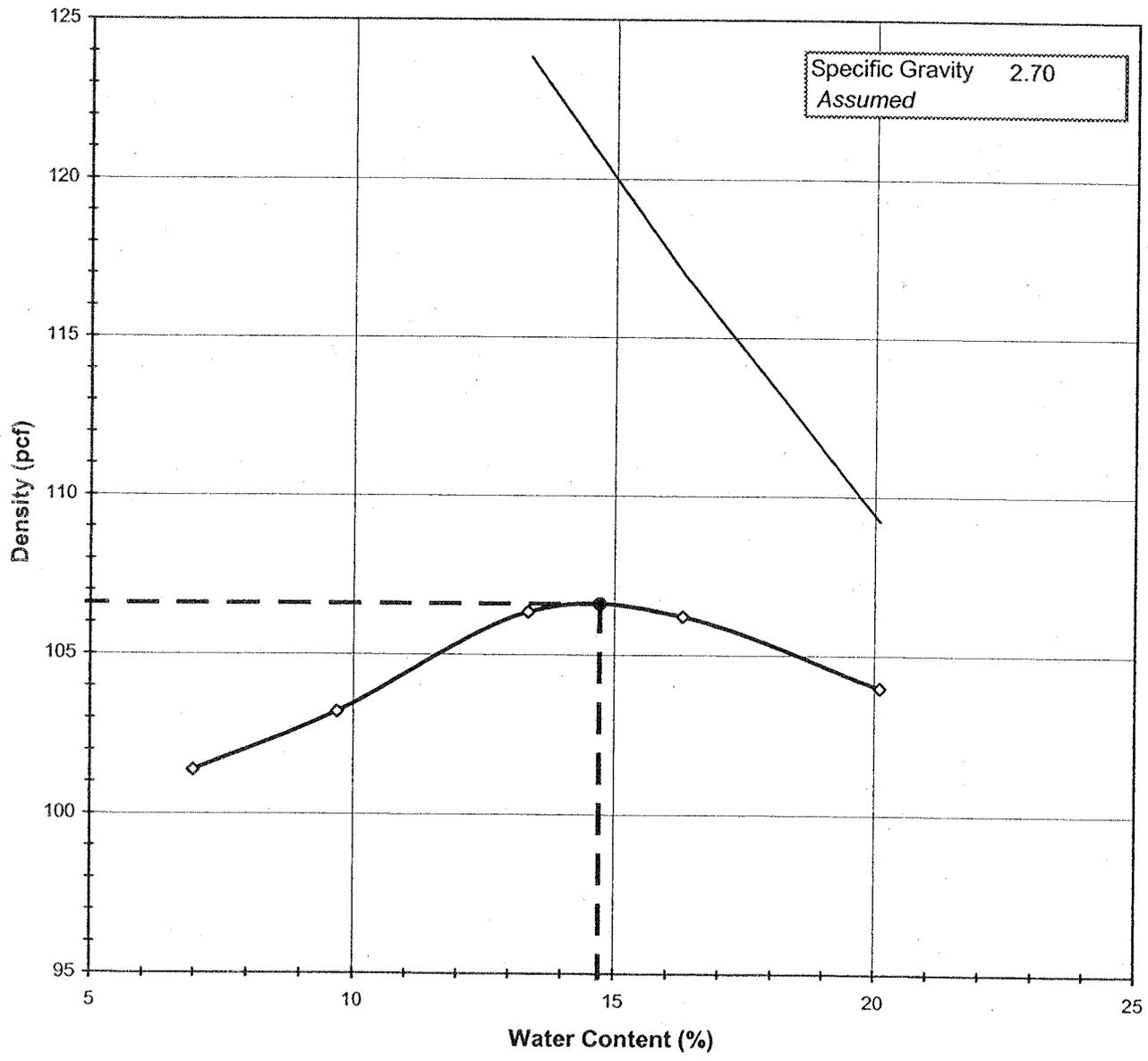
MOISTURE DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO.	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL D PH.1 CLOS.	Depth (ft)	NA
Project No.	2004-547-06	Sample No.	8-12K
Lab ID	2004-547-06-02	Test Method	STANDARD

Visual Description BROWN SILTY SAND

Optimum Water Content 14.7
Maximum Dry Density 106.6



Tested By KAW Date 7/29/2004 Checked By MRS Date 8-2-04



MOISTURE - DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO.	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL D PH.1 CLOS.	Depth (ft)	NA
Project No.	2004-547-06	Sample No.	8-12K
Lab ID	2004-547-06-02		

Visual Description BROWN SILTY SAND

Total Weight of the Sample (gm)	NA
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	NA
Percent Retained on 3/8"	NA
Percent Retained on #4	NA
Oversize Material	Not included
Procedure Used	B

TestType	STANDARD
Rammer Weight (lbs)	5.5
Rammer Drop (in)	12
Rammer Type	MECHANICAL
Machine ID	R174
Mold ID	R172
Mold diameter	4"
Weight of the Mold	4220
Volume of the Mold(cc)	940

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	5855	5926	6037	6082	6102
Wt. of Mold (gm)	4220	4220	4220	4220	4220
Wt. of WS	1634	1706	1816	1861	1882
Mold Volume (cc)	940	940	940	940	940

Moisture Content / Density

Tare Number	F-2	Y-13	SS-7	Z-14	S-9
Wt. of Tare & WS (gm)	515.18	468.03	527.00	549.26	552.18
Wt. of Tare & DS (gm)	488.10	435.44	476.58	486.40	476.63
Wt. of Tare (gm)	100.73	99.28	99.04	100.73	100.81
Wt. of Water (gm)	27.08	32.59	50.42	62.86	75.55
Wt. of DS (gm)	387.37	336.16	377.54	385.67	375.82

Wet Density (gm/cc)	1.74	1.81	1.93	1.98	2.00
Wet Density (pcf)	108.5	113.2	120.5	123.5	124.9
Moisture Content (%)	7.0	9.7	13.4	16.3	20.1
Dry Density (pcf)	101.4	103.2	106.3	106.2	104.0

Zero Air Voids

Moisture Content (%)	13.4	16.3	20.1
Dry Unit Weight (pcf)	123.8	117.0	109.2

Tested By KAW Date 7/29/2004 Checked By AKS Date 8-2-04

**NORTH WAKE LANFILL
PHASE I CLOSURE**

**GEOTECHNIC CONFORMANCE TESTING
SECTION 02200**

D422- Grain Size Analysis

D4318- Atterberg Limits

D698- Moisture Density

D2216- Natural Moisture

**SAMPLE: Protective cover
FREQUENCY: 12,000 to 16,000 CY**

Certification Statement: By this submittal, I hereby represent that I have determined and verified all field measurements, field construction criteria, materials, dimensions, catalog numbers and similar data and I have checked and coordinated each item with other applicable approved shop drawings and all Contract requirements.



Thalfe Construction Company, Inc.

8/11/04

D-02200-007-A

MOISTURE CONTENT
ASTM D 2216 (SOP-S1)

Client THALLE CONST. CO.
 Client Reference N. WAKE SBTL D PHS 1 CLOSURE
 Project No. 2004-547-06

Lab ID	01	02	03
Boring No.	PROT. COV.	PROT. COV.	PROT. COV.
Depth (ft)	NA	NA	NA
Sample No.	4-8K	8-12K	12-16K
Tare Number	SS-5	Y-4	Y-13
Wt. of Tare & WS (gm)	300.64	358.69	306.97
Wt. of Tare & DS (gm)	273.04	324.7	280.38
Wt. of Tare (gm)	100.92	100.05	99.18
Wt. of Water (gm)	27.6	33.99	26.59
Wt. of DS (gm)	172.12	224.65	181.2
Water Content (%)	16.0	15.1	14.7

Notes : NA

Tested By BA Date 7/21/2004 Checked By *cam* Date 7-22-04

page 1 of 1 DCN: CT-S1 DATE 6-30-98 REVISION: 2 \\Davejenks1\c\2004PR-1\20B27C-1\2004-547-06 Water Content.xls\Sheet1

WASH SIEVE ANALYSIS

ASTM D 422-63 (SOP-S3)

Client	Thalle Construction Co. Inc.	Boring No.	PROT. CO.
Client Reference	N Wake Sbtl. D Phase 1 Closure	Depth (ft)	NA
Project No.	2004-547-06	Sample No.	12-16 K
Lab ID	2004-547-06-03	Soil Color	BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	G-2	Tare No.	P-8
Wgt.Tare + Wet Specimen (gm)	681.58	Wgt.Tare + Wet Specimen (gm)	215.19
Wgt.Tare + Dry Specimen (gm)	610.62	Wgt.Tare + Dry Specimen (gm)	213.52
Weight of Tare (gm)	154.63	Weight of Tare (gm)	98.74
Weight of Water (gm)	70.96	Weight of Water (gm)	1.67
Weight of Dry Soil (gm)	455.99	Weight of Dry Soil (gm)	114.78
Moisture Content (%)	15.6	Moisture Content (%)	1.5

Wet Weight - 3/4" Sample (gm)	21761	Weight of the Dry Specimen (gm)	455.99
Dry Weight - 3/4" Sample (gm)	18830.6	Weight of minus #200 material (gm)	172.03
Wet Weight + 3/4" Sample (gm)	0.00	Weight of plus #200 material (gm)	283.96
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	18830.6	J - Factor (Percent Finer than 3/4")	1.0000

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00 (*)	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25	0.00	0.0	0.0	100.0	100.0
3/4"	19	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	13.47	3.0	3.0	97.0	97.0
3/8"	9.5	5.12	1.1	4.1	95.9	95.9
#4	4.75	12.04	2.6	6.7	93.3	93.3
#10	2	21.79	4.8	11.5	88.5	88.5
#20	0.85	49.18 (**)	10.8	22.3	77.7	77.7
#40	0.425	45.48	10.0	32.3	67.7	67.7
#60	0.25	45.22	9.9	42.2	57.8	57.8
#140	0.106	70.73	15.5	57.7	42.3	42.3
#200	0.075	20.93	4.6	62.3	37.7	37.7
Pan	-	172.03	37.7	100.0	-	-

Notes : (*) The + 3/4" sieve analysis is based on the Total Dry Weight of the Sample
(**) The - 3/4" sieve analysis is based on the Weight of the Dry Specimen

Tested By BA Date 07/23/04 Checked By *Gen* Date *7-27-04*

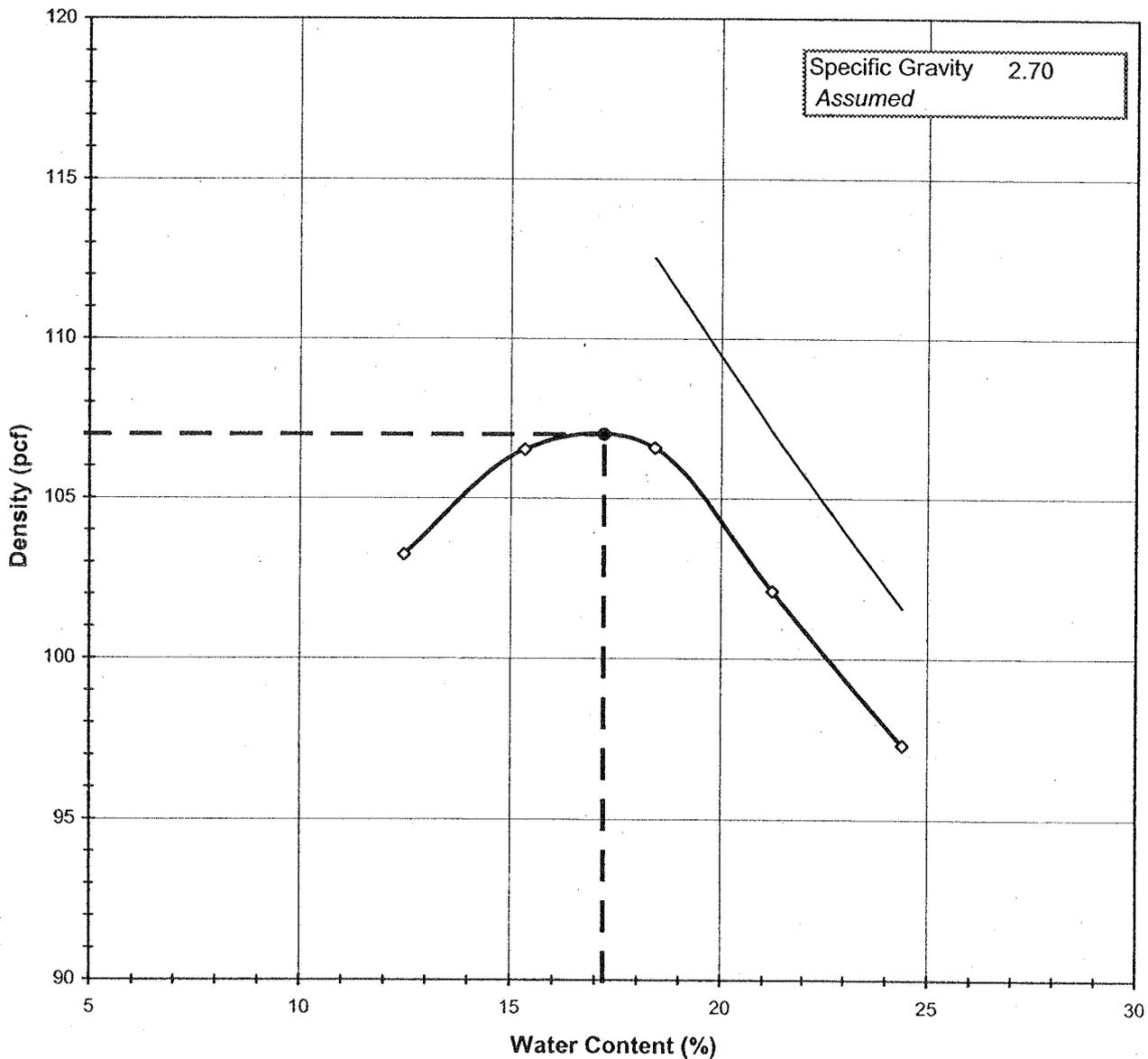


MOISTURE DENSITY RELATIONSHIP
ASTM D698-91 SOP-S12

Client	Thalle Construction Co. Inc.	Boring No.	PROT. CO.
Client Reference	N. Wake Sbtl. D Phase 1 Closure	Depth (ft)	NA
Project No.	2004-547-06	Sample No.	12-16 K
Lab ID	2004-547-06-03	Test Method	STANDARD

Visual Description BROWN CLAY AND ROCK FRAGMENTS

Optimum Water Content 17.2
Maximum Dry Density 107.0



Tested By KAW Date 7/26/2004 Checked By [Signature] Date 8-2-04

MOISTURE - DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	Thalle Construction Co. Inc.	Boring No.	PROT. CO.
Client Reference	N. Wake Sbtl. D Phase 1 Closure	Depth (ft)	NA
Project No.	2004-547-06	Sample No.	12-16 K
Lab ID	2004-547-06-03		

Visual Description BROWN CLAY AND ROCK FRAGMENTS

Total Weight of the Sample (gm)	NA	TestType	STANDARD
As Received Water Content(%)	NA	Rammer Weight (lbs)	5.5
Assumed Specific Gravity	2.70	Rammer Drop (in)	12
Percent Retained on 3/4"	215	Rammer Type	MECHANICAL
Percent Retained on 3/8"	NA	Machine ID	R174
Percent Retained on #4	NA	Mold ID	R172
Oversize Material	Not included	Mold diameter	4"
Procedure Used	B	Weight of the Mold	4220
		Volume of the Mold(cc)	940

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	5970	6071	6122	6086	6044
Wt. of Mold (gm)	4220	4220	4220	4220	4220
Wt. of WS	1750	1851	1901	1865	1824
Mold Volume (cc)	940	940	940	940	940

Moisture Content / Density

Tare Number	B-3	SS-1	SS-8	F-1	B-1
Wt. of Tare & WS (gm)	602.36	693.35	685.19	567.12	474.46
Wt. of Tare & DS (gm)	546.40	614.60	594.00	485.00	401.10
Wt. of Tare (gm)	97.93	100.50	98.64	98.26	100.49
Wt. of Water (gm)	55.96	78.75	91.19	82.12	73.36
Wt. of DS (gm)	448.47	514.10	495.36	386.74	300.61

Wet Density (gm/cc)	1.86	1.97	2.02	1.98	1.94
Wet Density (pcf)	116.1	122.8	126.2	123.8	121.1
Moisture Content (%)	12.5	15.3	18.4	21.2	24.4
Dry Density (pcf)	103.2	106.5	106.6	102.1	97.3

Zero Air Voids

Moisture Content (%)	18.4	21.2	24.4
Dry Unit Weight (pcf)	112.5	107.1	101.6

Tested By KAW Date 7/26/2004 Checked By MMJ Date 8-2-04

ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N.WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	16-20K
Lab ID	2004-547-07-04	Soil Description	REDDISH BROWN SILT

Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description. (Minus No. 40 sieve material, Wet method)

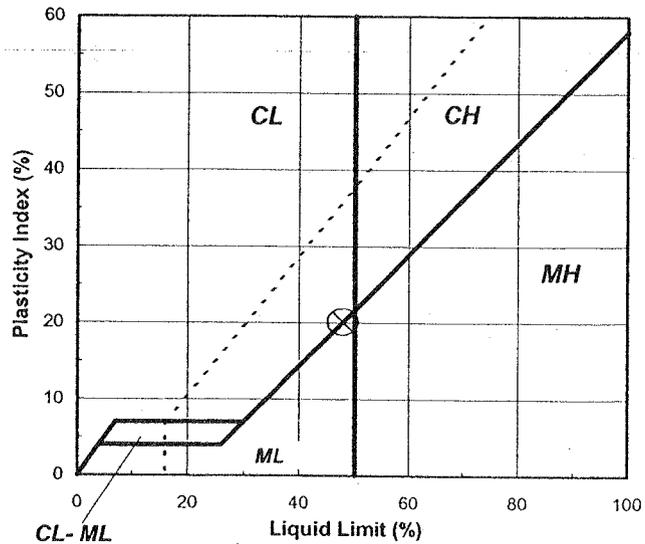
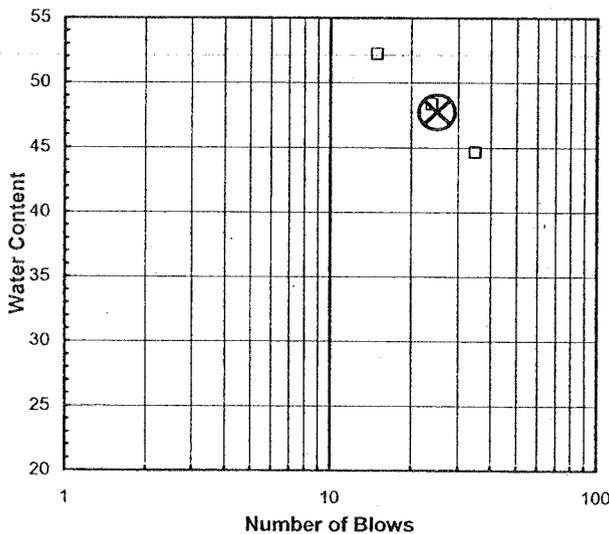
Liquid Limit Test	1	2	3	
Tare Number	U	F	G	M
Wt. of Tare & WS (gm)	28.81	28.58	28.09	U
Wt. of Tare & DS (gm)	24.16	24.24	24.07	L
Wt. of Tare (gm)	15.25	15.26	15.06	T
Wt. of Water (gm)	4.7	4.3	4.0	I
Wt. of DS (gm)	8.9	9.0	9.0	P
				O
				I
Moisture Content (%)	52.2	48.3	44.6	N
Number of Blows	15	24	35	T

Plastic Limit Test	1	2	Range	Test Results
Tare Number	A-C	A-L		Liquid Limit (%) 48
Wt. of Tare & WS (gm)	22.82	22.87		Plastic Limit (%) 28
Wt. of Tare & DS (gm)	21.24	21.29		Plasticity Index (%) 20
Wt. of Tare (gm)	15.58	15.50		USCS Symbol ML
Wt. of Water (gm)	1.6	1.6		
Wt. of DS (gm)	5.7	5.8		
Moisture Content (%)	27.9	27.3	0.6	

Note: The acceptable range of the two Moisture contents is ± 2.6

Flow Curve

Plasticity Chart



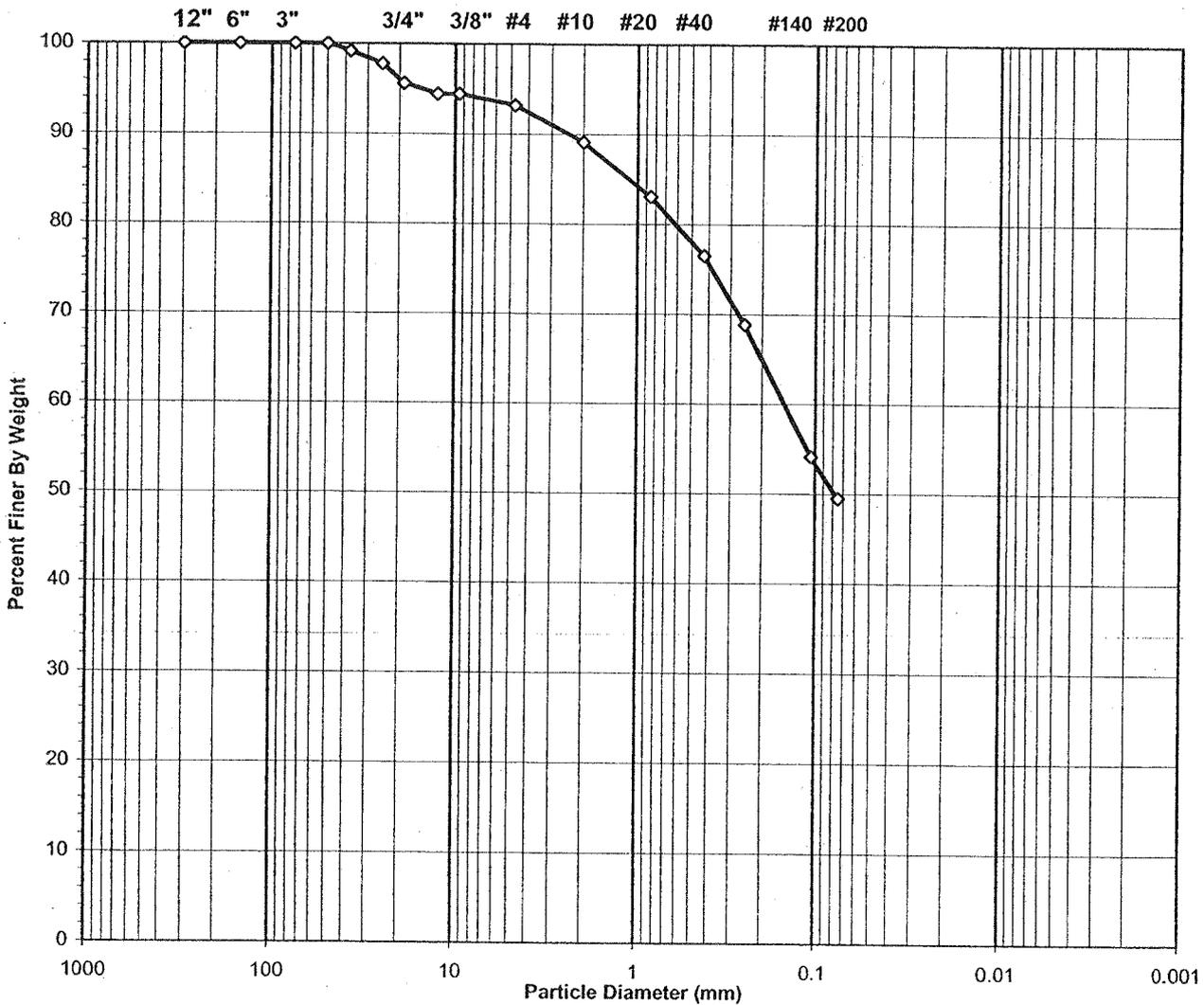
Tested By KAW Date 9/15/2004 Checked By GEM Date 9-30-04



SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	16-20K
Lab ID	2004-547-07-04	Soil Color	REDDISH BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol **SC-SM, TESTED**

USCS Classification **SILTY, CLAYEY SAND**

Tested By MW Date 09/16/04 Checked By *MBS* Date 9-30-04

WASH SIEVE ANALYSIS

ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	16-20K
Lab ID	2004-547-07-04	Soil Color	REDDISH BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	K-2	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	745.22	Wgt. Tare + Wet Specimen (gm)	100.00
Wgt. Tare + Dry Specimen (gm)	607.95	Wgt. Tare + Dry Specimen (gm)	100.00
Weight of Tare (gm)	152.27	Weight of Tare (gm)	0.00
Weight of Water (gm)	137.27	Weight of Water (gm)	0.00
Weight of Dry Soil (gm)	455.68	Weight of Dry Soil (gm)	100.00
Moisture Content (%)	30.1	Moisture Content (%)	0.0

Wet Weight -3/4" Sample (gm)	14955	Weight of the Dry Specimen (gm)	455.68
Dry Weight - 3/4" Sample (gm)	11492.9	Weight of minus #200 material (gm)	235.79
Wet Weight +3/4" Sample (gm)	530.00	Weight of plus #200 material (gm)	219.89
Dry Weight + 3/4" Sample (gm)	530.00		
Total Dry Weight Sample (gm)	12022.9	J - Factor (Percent Finer than 3/4")	0.9559

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00 (*)	0.0	0.0	100.0	100.0
1-1/2"	37.5	100.00	0.8	0.8	99.2	99.2
1"	25	165.00	1.4	2.2	97.8	97.8
3/4"	19	265.00	2.2	4.4	95.6	95.6
1/2"	12.5	5.61	1.2	1.2	98.8	94.4
3/8"	9.5	0.00	0.0	1.2	98.8	94.4
#4	4.75	5.89	1.3	2.5	97.5	93.2
#10	2	19.47	4.3	6.8	93.2	89.1
#20	0.85	28.84 (**)	6.3	13.1	86.9	83.0
#40	0.425	31.25	6.9	20.0	80.0	76.5
#60	0.25	36.39	8.0	28.0	72.0	68.9
#140	0.106	70.33	15.4	43.4	56.6	54.1
#200	0.075	22.11	4.9	48.3	51.7	49.5
Pan	-	235.79	51.7	100.0	-	-

Notes : (*) The + 3/4" sieve analysis is based on the Total Dry Weight of the Sample
(**) The - 3/4" sieve analysis is based on the Weight of the Dry Specimen

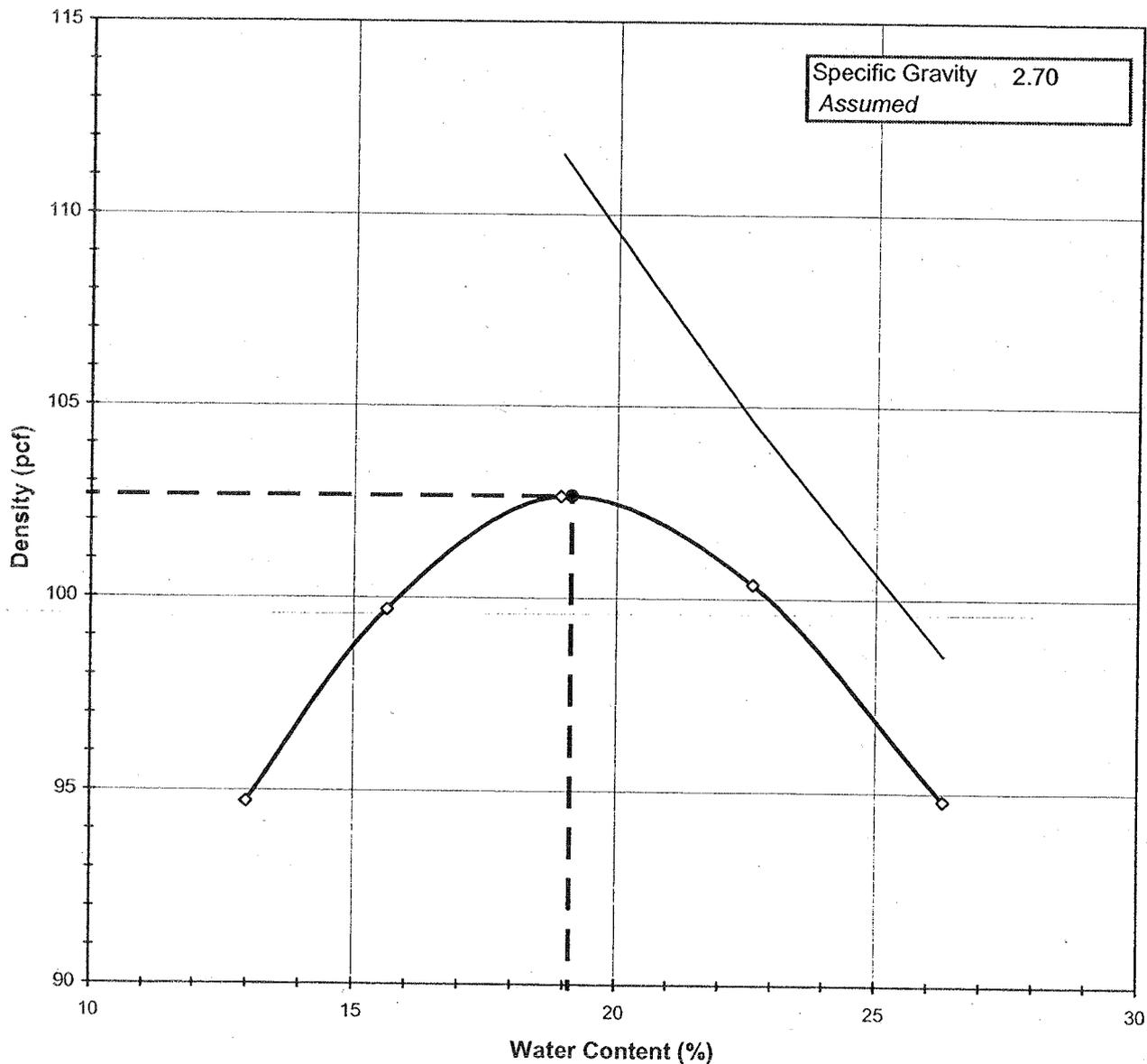
Tested By MW Date 09/16/04 Checked By *MPS* Date 9-30-04



MOISTURE DENSITY RELATIONSHIP ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	16-20K
Lab ID	2004-547-07-04	Test Method	STANDARD
Visual Description	RED SANDY CLAY		

Optimum Water Content 19.1
Maximum Dry Density 102.7



Tested By KAW Date 9/16/2004 Checked By GCM Date 9-30-04



MOISTURE - DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	16-20K
Lab ID	2004-547-07-04		

Visual Description RED SANDY CLAY

Total Weight of the Sample (gm)	15071
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	NA
Percent Retained on 3/8"	721
Percent Retained on #4	NA
Oversize Material	Not included
Procedure Used	B

TestType	STANDARD
Rammer Weight (lbs)	5.5
Rammer Drop (in)	12
Rammer Type	MECHANICAL
Machine ID	R174
Mold ID	R172
Mold diameter	4"
Weight of the Mold	4220
Volume of the Mold(cc)	940

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	5833	5957	6059	6075	6024
Wt. of Mold (gm)	4220	4220	4220	4220	4220
Wt. of WS	1613	1737	1839	1855	1804
Mold Volume (cc)	940	940	940	940	940

Moisture Content / Density

Tare Number	F-2	Y-3	B-1	ZZ-1	S-9
Wt. of Tare & WS (gm)	533.31	667.21	631.28	695.23	694.06
Wt. of Tare & DS (gm)	483.61	590.75	546.91	585.56	570.57
Wt. of Tare (gm)	101.06	101.38	100.49	100.70	100.89
Wt. of Water (gm)	49.70	76.46	84.37	109.67	123.49
Wt. of DS (gm)	382.55	489.37	446.42	484.86	469.68

Wet Density (gm/cc)	1.72	1.85	1.96	1.97	1.92
Wet Density (pcf)	107.0	115.3	122.0	123.1	119.7
Moisture Content (%)	13.0	15.6	18.9	22.6	26.3
Dry Density (pcf)	94.7	99.7	102.6	100.4	94.8

Zero Air Voids

Moisture Content (%)	18.9	22.6	26.3
Dry Unit Weight (pcf)	111.6	104.6	98.5

Tested By KAW Date 9/16/2004 Checked By *GAM* Date 9-30-04

ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N.WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	20-24K
Lab ID	2004-547-07-05	Soil Description	REDDISH BROWN SILT (Minus No. 40 sieve material, Wet method)

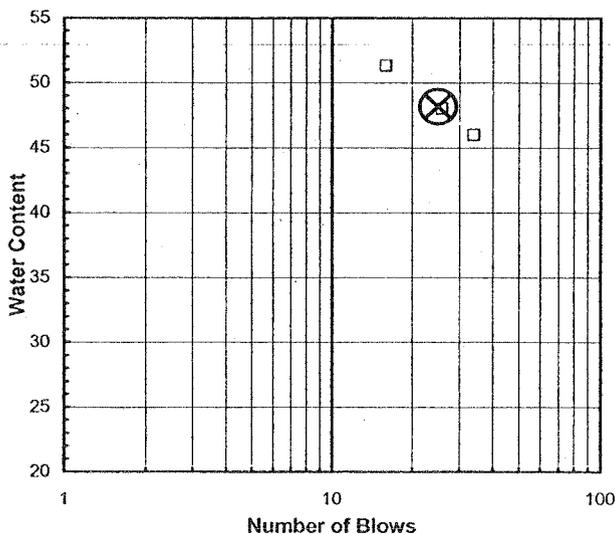
Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description.

Liquid Limit Test	1	2	3	
Tare Number	L	B	A-I	M
Wt. of Tare & WS (gm)	32.26	34.00	32.08	U
Wt. of Tare & DS (gm)	26.50	27.92	26.87	L
Wt. of Tare (gm)	15.27	15.25	15.53	T
Wt. of Water (gm)	5.8	6.1	5.2	I
Wt. of DS (gm)	11.2	12.7	11.3	P
				O
				I
Moisture Content (%)	51.3	48.0	45.9	N
Number of Blows	16	26	34	T

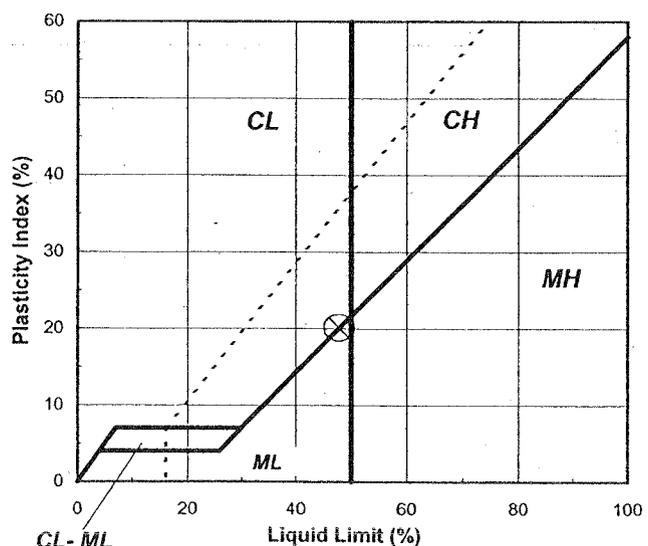
Plastic Limit Test	1	2	Range	Test Results
Tare Number	A-G	A-N		Liquid Limit (%)
Wt. of Tare & WS (gm)	22.33	21.72		48
Wt. of Tare & DS (gm)	20.88	20.36		Plastic Limit (%)
Wt. of Tare (gm)	15.58	15.47		28
Wt. of Water (gm)	1.5	1.4		Plasticity Index (%)
Wt. of DS (gm)	5.3	4.9		20
				USCS Symbol
Moisture Content (%)	27.4	27.8	-0.5	ML

Note: The acceptable range of the two Moisture contents is ± 2.6

Flow Curve



Plasticity Chart

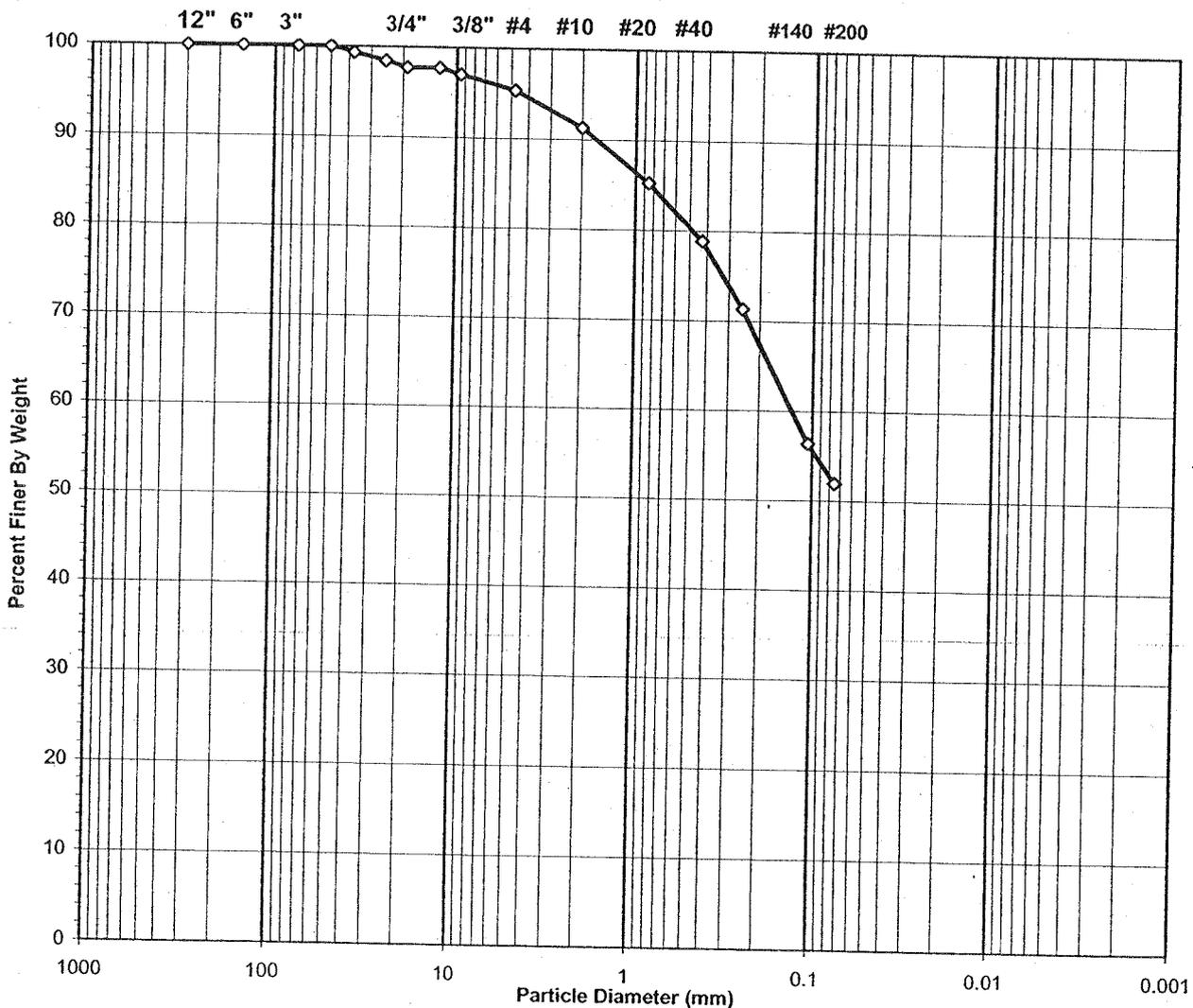


Tested By JDR Date 9/15/2004 Checked By Gem Date 9-30-04

SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	20-24K
Lab ID	2004-547-07-05	Soil Color	REDDISH BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol **ML, TESTED**

USCS Classification **SANDY SILT**

Tested By MW Date 9/16/2004 Checked By MPS Date 10-1-04



WASH SIEVE ANALYSIS

ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	20-24K
Lab ID	2004-547-07-05	Soil Color	REDDISH BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	G-13	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	764.43	Wgt. Tare + Wet Specimen (gm)	100.00
Wgt. Tare + Dry Specimen (gm)	622.52	Wgt. Tare + Dry Specimen (gm)	100.00
Weight of Tare (gm)	153.16	Weight of Tare (gm)	0.00
Weight of Water (gm)	141.91	Weight of Water (gm)	0.00
Weight of Dry Soil (gm)	469.36	Weight of Dry Soil (gm)	100.00
Moisture Content (%)	30.2	Moisture Content (%)	0.0

Wet Weight -3/4" Sample (gm)	16544	Weight of the Dry Specimen (gm)	469.36
Dry Weight - 3/4" Sample (gm)	12703.2	Weight of minus #200 material (gm)	249.59
Wet Weight +3/4" Sample (gm)	297.00	Weight of plus #200 material (gm)	219.77
Dry Weight + 3/4" Sample (gm)	297.00		
Total Dry Weight Sample (gm)	13000.2	J - Factor (Percent Finer than 3/4")	0.9772

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	87.00	0.7	0.7	99.3	99.3
1"	25	115.00	0.9	1.6	98.4	98.4
3/4"	19	95.00	0.7	2.3	97.7	97.7
1/2"	12.5	0.00	0.0	0.0	100.0	97.7
3/8"	9.5	3.37	0.7	0.7	99.3	97.0
#4	4.75	8.13	1.7	2.5	97.5	95.3
#10	2	19.25	4.1	6.6	93.4	91.3
#20	0.85	29.13	6.2	12.8	87.2	85.2
#40	0.425	30.69	6.5	19.3	80.7	78.9
#60	0.25	36.12	7.7	27.0	73.0	71.3
#140	0.106	71.83	15.3	42.3	57.7	56.4
#200	0.075	21.25	4.5	46.8	53.2	52.0
Pan	-	249.59	53.2	100.0	-	-

Notes : (*) The + 3/4" sieve analysis is based on the Total Dry Weight of the Sample
 (**) The - 3/4" sieve analysis is based on the Weight of the Dry Specimen

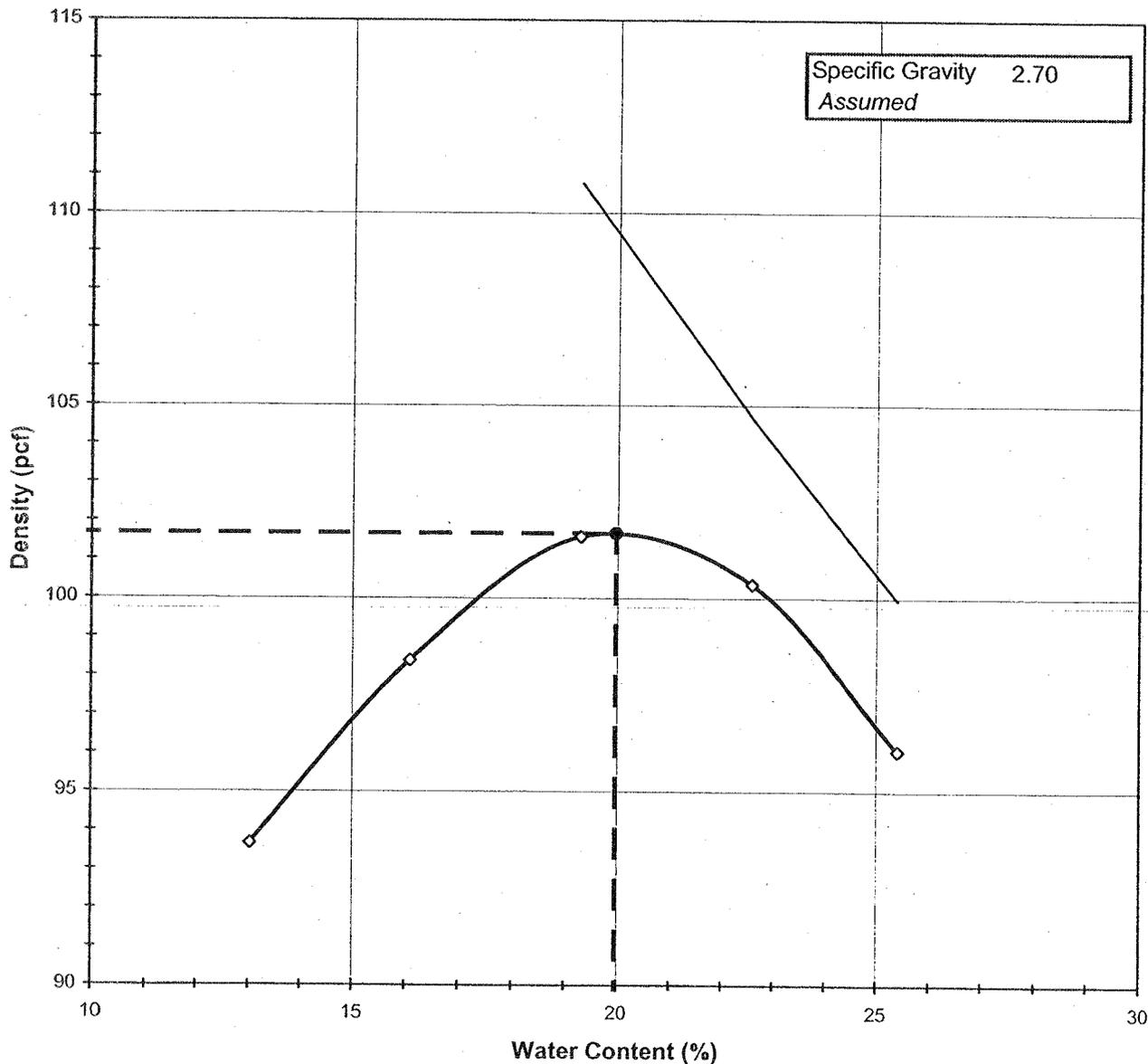
Tested By MW Date 9/16/2004 Checked By NRS Date 10-4-04

MOISTURE DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	20-24K
Lab ID	2004-547-07-05	Test Method	STANDARD
Visual Description	RED SANDY CLAY		

Optimum Water Content 20.0
Maximum Dry Density 101.7



Tested By MW Date 9/16/2004 Checked By Cam Date 9-30-04

MOISTURE - DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	20-24K
Lab ID	2004-547-07-05		

Visual Description RED SANDY CLAY

Total Weight of the Sample (gm)	17130
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	NA
Percent Retained on 3/8"	336
Percent Retained on #4	NA
Oversize Material	Not included
Procedure Used	B

TestType	STANDARD
Rammer Weight (lbs)	5.5
Rammer Drop (in)	12
Rammer Type	MECHANICAL
Machine ID	R174
Mold ID	R172
Mold diameter	4"
Weight of the Mold	4220
Volume of the Mold(cc)	940

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	5816	5941	6046	6074	6035
Wt. of Mold (gm)	4220	4220	4220	4220	4220
Wt. of WS	1595	1721	1826	1854	1815
Mold Volume (cc)	940	940	940	940	940

Moisture Content / Density

Tare Number	SS-8	A-3	SS-7	A-1	B-3
Wt. of Tare & WS (gm)	396.26	693.29	643.09	623.39	524.28
Wt. of Tare & DS (gm)	361.94	610.90	555.08	526.90	437.92
Wt. of Tare (gm)	98.63	98.64	98.94	99.63	97.96
Wt. of Water (gm)	34.32	82.39	88.01	96.49	86.36
Wt. of DS (gm)	263.31	512.26	456.14	427.27	339.96

Wet Density (gm/cc)	1.70	1.83	1.94	1.97	1.93
Wet Density (pcf)	105.9	114.2	121.2	123.0	120.5
Moisture Content (%)	13.0	16.1	19.3	22.6	25.4
Dry Density (pcf)	93.7	98.4	101.6	100.4	96.1

Zero Air Voids

Moisture Content (%)	19.3	22.6	25.4
Dry Unit Weight (pcf)	110.8	104.7	99.9

Tested By MW Date 9/16/2004 Checked By GEM Date 9-30-04

ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N.WAKE SBTL. D PHS.1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	24-28K
Lab ID	2004-547-07-06	Soil Description	REDDISH BROWN LEAN CLAY

Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description. (Minus No. 40 sieve material, Wet method)

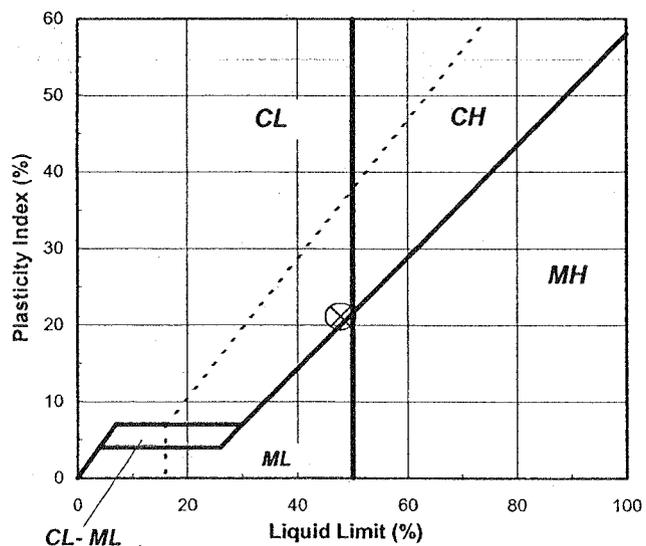
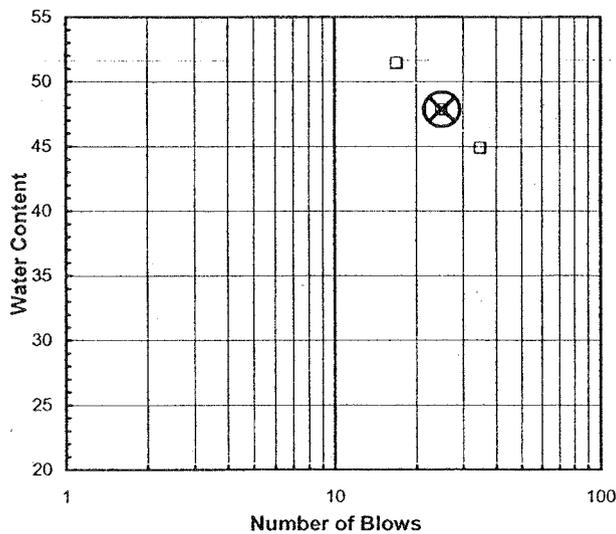
Liquid Limit Test	1	2	3	
Tare Number	G	U	F	M
Wt. of Tare & WS (gm)	29.85	32.77	33.25	U
Wt. of Tare & DS (gm)	24.83	27.11	27.68	L
Wt. of Tare (gm)	15.06	15.27	15.26	T
Wt. of Water (gm)	5.0	5.7	5.6	I
Wt. of DS (gm)	9.8	11.8	12.4	P
				O
				I
Moisture Content (%)	51.4	47.8	44.8	N
Number of Blows	17	25	35	T

Plastic Limit Test	1	2	Range	Test Results
Tare Number	S	A-C		Liquid Limit (%)
Wt. of Tare & WS (gm)	22.43	21.80		48
Wt. of Tare & DS (gm)	20.91	20.46		Plastic Limit (%)
Wt. of Tare (gm)	15.19	15.60		27
Wt. of Water (gm)	1.5	1.3		Plasticity Index (%)
Wt. of DS (gm)	5.7	4.9		21
				USCS Symbol
Moisture Content (%)	26.6	27.6	-1.0	CL

Note: The acceptable range of the two Moisture contents is ± 2.6

Flow Curve

Plasticity Chart



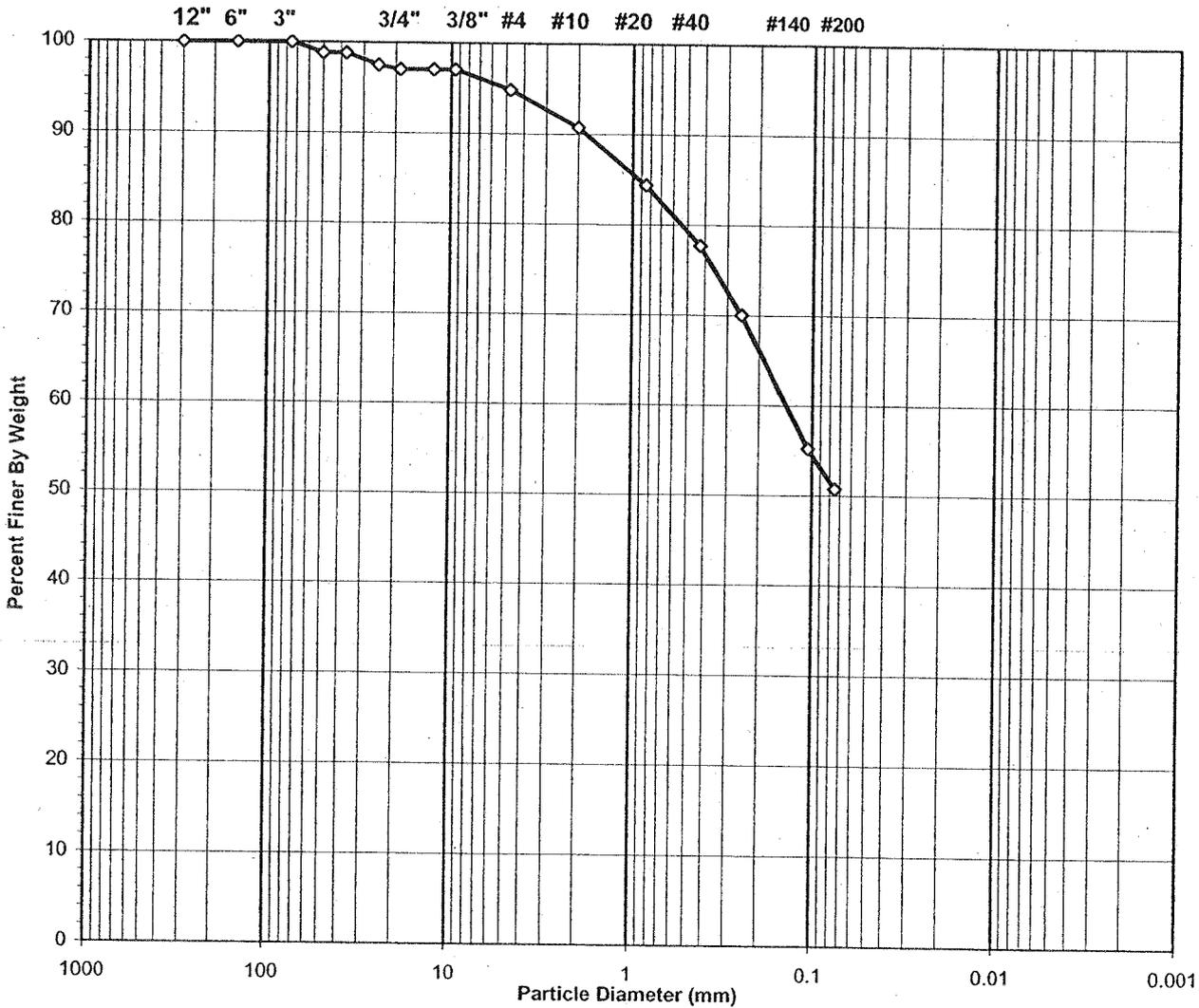
Tested By JDR Date 9/16/2004 Checked By *GM* Date 9-30-04



SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	24-28K
Lab ID	2004-547-07-06	Soil Color	REDDISH BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol **CL, TESTED**

USCS Classification **SANDY LEAN CLAY**

Tested By **KAW** Date **9/21/2004** Checked By **GSM** Date **9-30-04**



WASH SIEVE ANALYSIS

ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	24-28K
Lab ID	2004-547-07-06	Soil Color	REDDISH BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	H-3	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	728.60	Wgt. Tare + Wet Specimen (gm)	441.31
Wgt. Tare + Dry Specimen (gm)	594.20	Wgt. Tare + Dry Specimen (gm)	441.31
Weight of Tare (gm)	151.15	Weight of Tare (gm)	0.00
Weight of Water (gm)	134.40	Weight of Water (gm)	0.00
Weight of Dry Soil (gm)	443.05	Weight of Dry Soil (gm)	441.31
Moisture Content (%)	30.3	Moisture Content (%)	0.0

Wet Weight -3/4" Sample (gm)	18762.1	Weight of the Dry Specimen (gm)	443.05
Dry Weight - 3/4" Sample (gm)	14395.3	Weight of minus #200 material (gm)	231.67
Wet Weight +3/4" Sample (gm)	441.31	Weight of plus #200 material (gm)	211.38
Dry Weight + 3/4" Sample (gm)	441.31		
Total Dry Weight Sample (gm)	14836.6	J - Factor (Percent Finer than 3/4")	0.9703

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	172.46 (*)	1.2	1.2	98.8	98.8
1 1/2"	37.5	0.00	0.0	1.2	98.8	98.8
1"	25	194.23	1.3	2.5	97.5	97.5
3/4"	19	74.62	0.5	3.0	97.0	97.0
1/2"	12.5	0.00	0.0	0.0	100.0	97.0
3/8"	9.5	0.00	0.0	0.0	100.0	97.0
#4	4.75	10.10	2.3	2.3	97.7	94.8
#10	2	18.74	4.2	6.5	93.5	90.7
#20	0.85	28.98 (**)	6.5	13.1	86.9	84.4
#40	0.425	30.34	6.8	19.9	80.1	77.7
#60	0.25	35.13	7.9	27.8	72.2	70.0
#140	0.106	67.70	15.3	43.1	56.9	55.2
#200	0.075	20.39	4.6	47.7	52.3	50.7
Pan	-	231.67	52.3	100.0	-	-

Notes : (*) The + 3/4" sieve analysis is based on the Total Dry Weight of the Sample
 (**) The - 3/4" sieve analysis is based on the Weight of the Dry Specimen

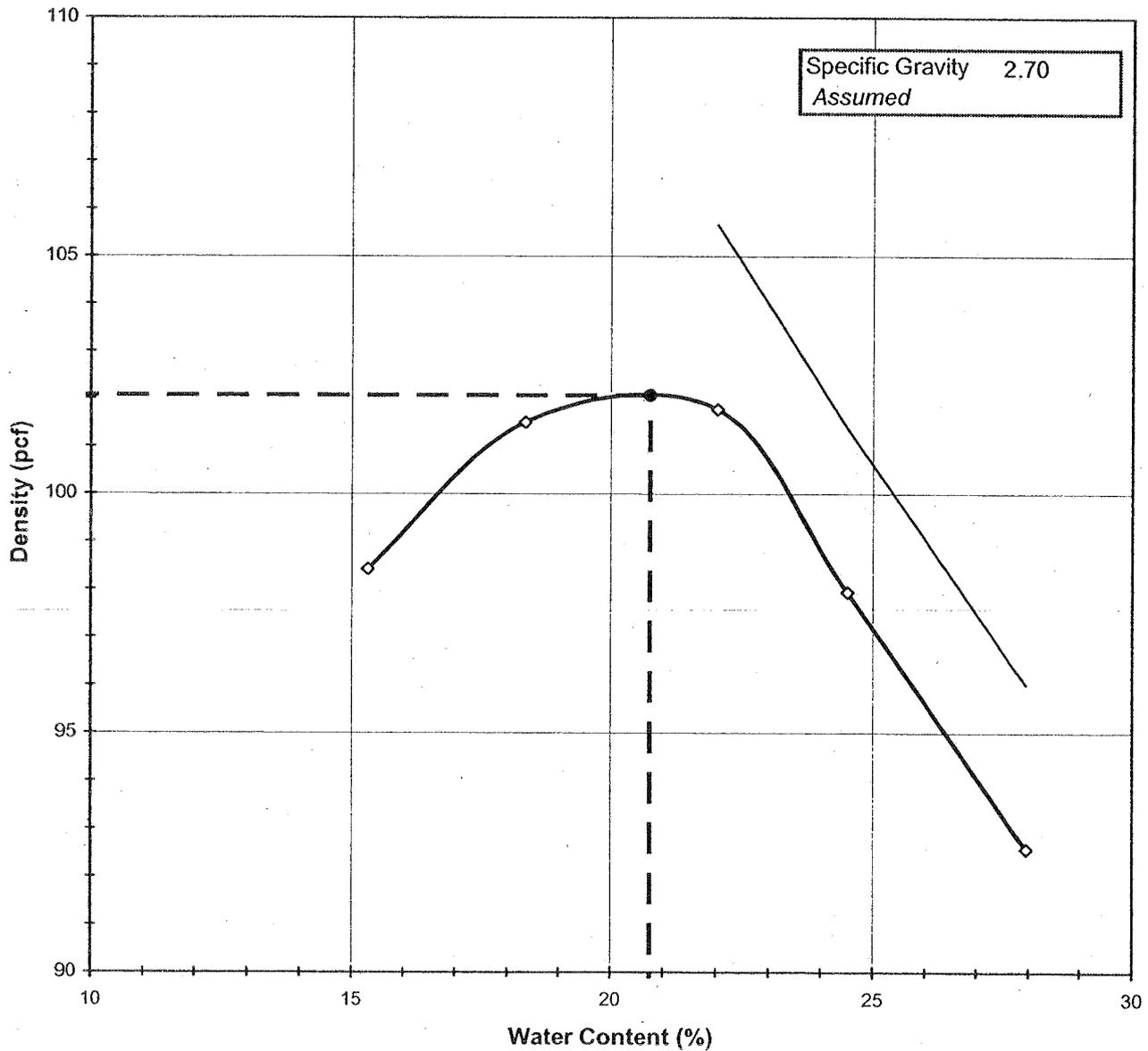
Tested By KAW Date 9/21/2004 Checked By Gem Date 9-30-04



MOISTURE DENSITY RELATIONSHIP
ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	24-28K
Lab ID	2004-547-07-06	Test Method	STANDARD
Visual Description	RED SANDY CLAY		

Optimum Water Content 20.8
Maximum Dry Density 102.1



Tested By MW Date 09/20/04 Checked By Gem Date 9-30-04



MOISTURE - DENSITY RELATIONSHIP
ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	24-28K
Lab ID	2004-547-07-06		

Visual Description RED SANDY CLAY

Total Weight of the Sample (gm)	16366
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	441
Percent Retained on 3/8"	604
Percent Retained on #4	NA
Oversize Material	Not included
Procedure Used	B

TestType	STANDARD
Rammer Weight (lbs)	5.5
Rammer Drop (in)	12
Rammer Type	MECHANICAL
Machine ID	R174
Mold ID	R172
Mold diameter	4"
Weight of the Mold	4220
Volume of the Mold(cc)	940

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	5930	6030	6092	6058	6005
Wt. of Mold (gm)	4220	4220	4220	4220	4220
Wt. of WS	1710	1810	1871	1837	1785
Mold Volume (cc)	940	940	940	940	940

Moisture Content / Density

Tare Number	F-4	Y-6	SS-8	A-1	F-3
Wt. of Tare & WS (gm)	533.59	619.69	663.12	523.45	545.25
Wt. of Tare & DS (gm)	476.09	539.24	561.25	440.01	448.01
Wt. of Tare (gm)	100.48	100.63	98.61	99.62	100.23
Wt. of Water (gm)	57.50	80.45	101.87	83.44	97.24
Wt. of DS (gm)	375.61	438.61	462.64	340.39	347.78

Wet Density (gm/cc)	1.82	1.93	1.99	1.95	1.90
Wet Density (pcf)	113.5	120.1	124.2	121.9	118.5
Moisture Content (%)	15.3	18.3	22.0	24.5	28.0
Dry Density (pcf)	98.4	101.5	101.8	97.9	92.6

Zero Air Voids

Moisture Content (%)	22.0	24.5	28.0
Dry Unit Weight (pcf)	105.7	101.4	96.0

Tested By MW Date 09/20/04 Checked By *gem* Date 9-30-04

ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N.WAKE SBTL. D PHS.1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	28-32K
Lab ID	2004-547-07-07	Soil Description	REDDISH BROWN SILT (Minus No. 40 sieve material, Wet method)

Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description.

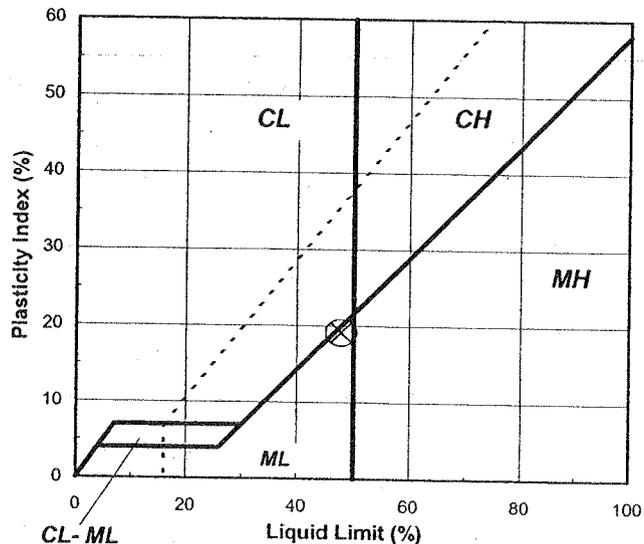
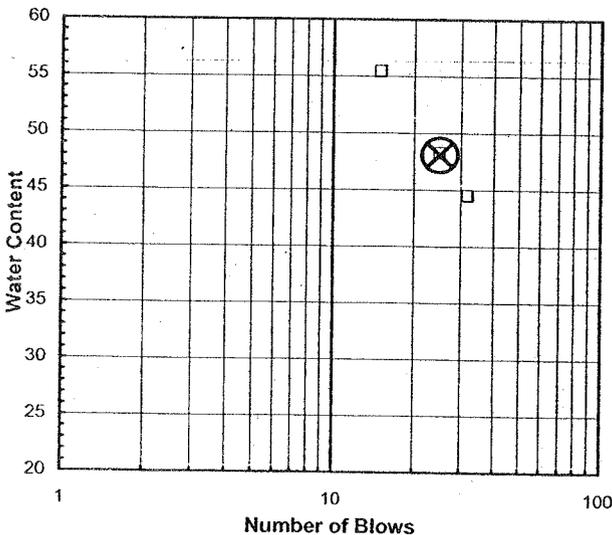
Liquid Limit Test	1	2	3	
Tare Number	A-P	A-K	A-H	M U L T I P O I N T
Wt. of Tare & WS (gm)	31.91	30.94	31.35	
Wt. of Tare & DS (gm)	26.10	25.94	26.49	
Wt. of Tare (gm)	15.61	15.57	15.56	
Wt. of Water (gm)	5.8	5.0	4.9	
Wt. of DS (gm)	10.5	10.4	10.9	
Moisture Content (%)	55.4	48.2	44.5	
Number of Blows	15	25	32	

Plastic Limit Test	1	2	Range	Test Results
Tare Number	H	B		Liquid Limit (%) 48 Plastic Limit (%) 29 Plasticity Index (%) 19 USCS Symbol ML
Wt. of Tare & WS (gm)	22.31	23.40		
Wt. of Tare & DS (gm)	20.71	21.58		
Wt. of Tare (gm)	15.12	15.25		
Wt. of Water (gm)	1.6	1.8		
Wt. of DS (gm)	5.6	6.3		
Moisture Content (%)	28.6	28.8	-0.1	

Note: The acceptable range of the two Moisture contents is ± 2.6

Flow Curve

Plasticity Chart



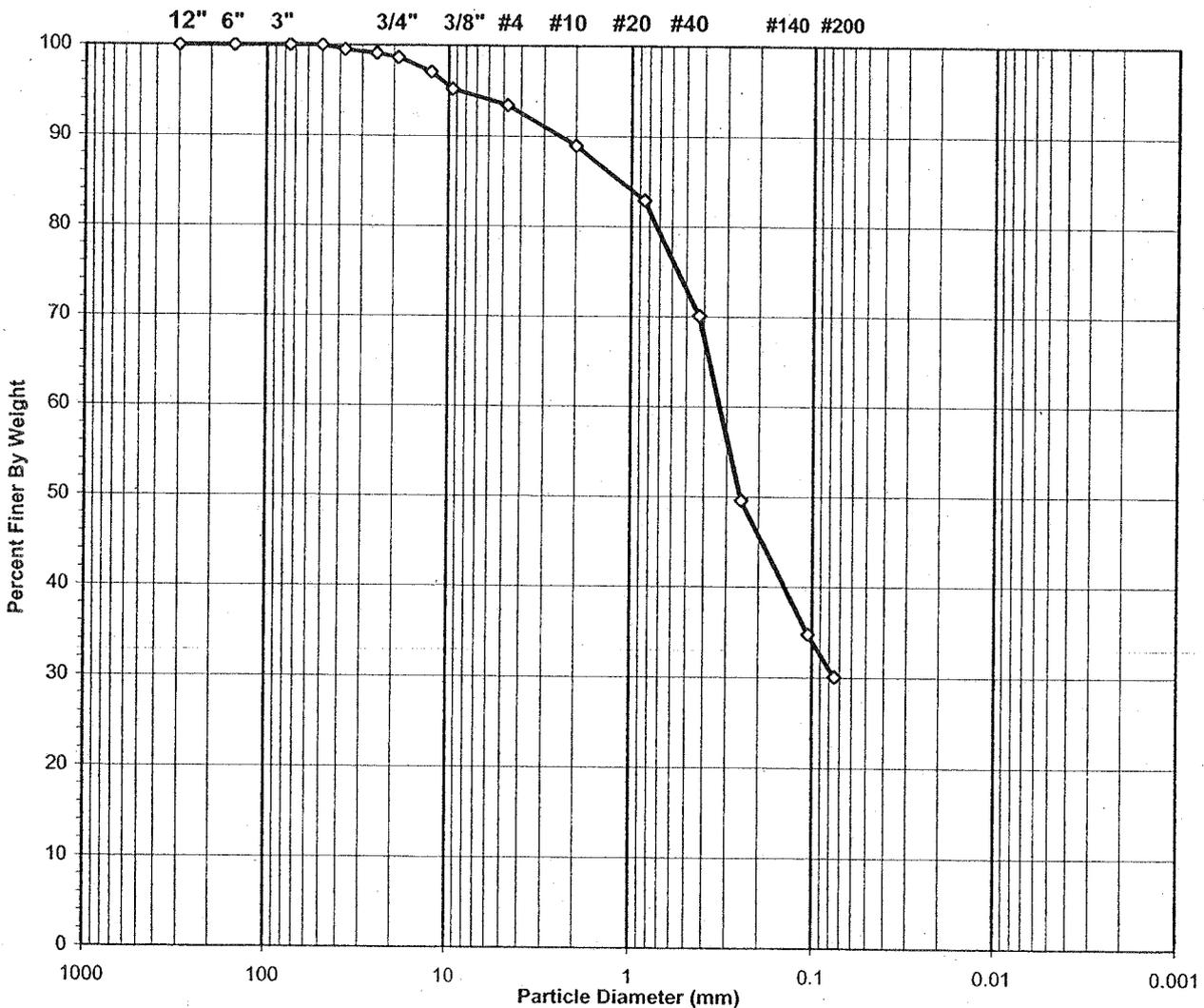
Tested By JDR Date 09/16/04 Checked By Gem Date 9-30-04



SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	28-32K
Lab ID	2004-547-07-07	Soil Color	REDDISH BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol **SM, TESTED**

USCS Classification **SILTY SAND**

Tested By **MW** Date **09/20/04** Checked By **CEM** Date **9-30-04**



WASH SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	28-32K
Lab ID	2004-547-07-07	Soil Color	REDDISH BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	A-A	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	776.40	Wgt. Tare + Wet Specimen (gm)	202.94
Wgt. Tare + Dry Specimen (gm)	633.40	Wgt. Tare + Dry Specimen (gm)	202.94
Weight of Tare (gm)	152.57	Weight of Tare (gm)	0.00
Weight of Water (gm)	143.00	Weight of Water (gm)	0.00
Weight of Dry Soil (gm)	480.83	Weight of Dry Soil (gm)	202.94
Moisture Content (%)	29.7	Moisture Content (%)	0.0

Wet Weight - 3/4" Sample (gm)	19156.2	Weight of the Dry Specimen (gm)	480.83
Dry Weight - 3/4" Sample (gm)	14765.0	Weight of minus #200 material (gm)	146.44
Wet Weight + 3/4" Sample (gm)	202.94	Weight of plus #200 material (gm)	334.39
Dry Weight + 3/4" Sample (gm)	202.94		
Total Dry Weight Sample (gm)	14968.0	J - Factor (Percent Finer than 3/4")	0.9864

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00 (*)	0.0	0.0	100.0	100.0
1 1/2"	37.5	76.46	0.5	0.5	99.5	99.5
1"	25	53.87	0.4	0.9	99.1	99.1
3/4"	19	72.61	0.5	1.4	98.6	98.6
1/2"	12.5	7.62	1.6	1.6	98.4	97.1
3/8"	9.5	9.22	1.9	3.5	96.5	95.2
#4	4.75	8.62	1.8	5.3	94.7	93.4
#10	2	21.88	4.6	9.8	90.2	88.9
#20	0.85	29.43 (**)	6.1	16.0	84.0	82.9
#40	0.425	62.39	13.0	28.9	71.1	70.1
#60	0.25	100.02	20.8	49.7	50.3	49.6
#140	0.106	72.27	15.0	64.8	35.2	34.7
#200	0.075	22.94	4.8	69.5	30.5	30.0
Pan	-	146.44	30.5	100.0	-	-

Notes : (*) The + 3/4" sieve analysis is based on the Total Dry Weight of the Sample
(**) The - 3/4" sieve analysis is based on the Weight of the Dry Specimen

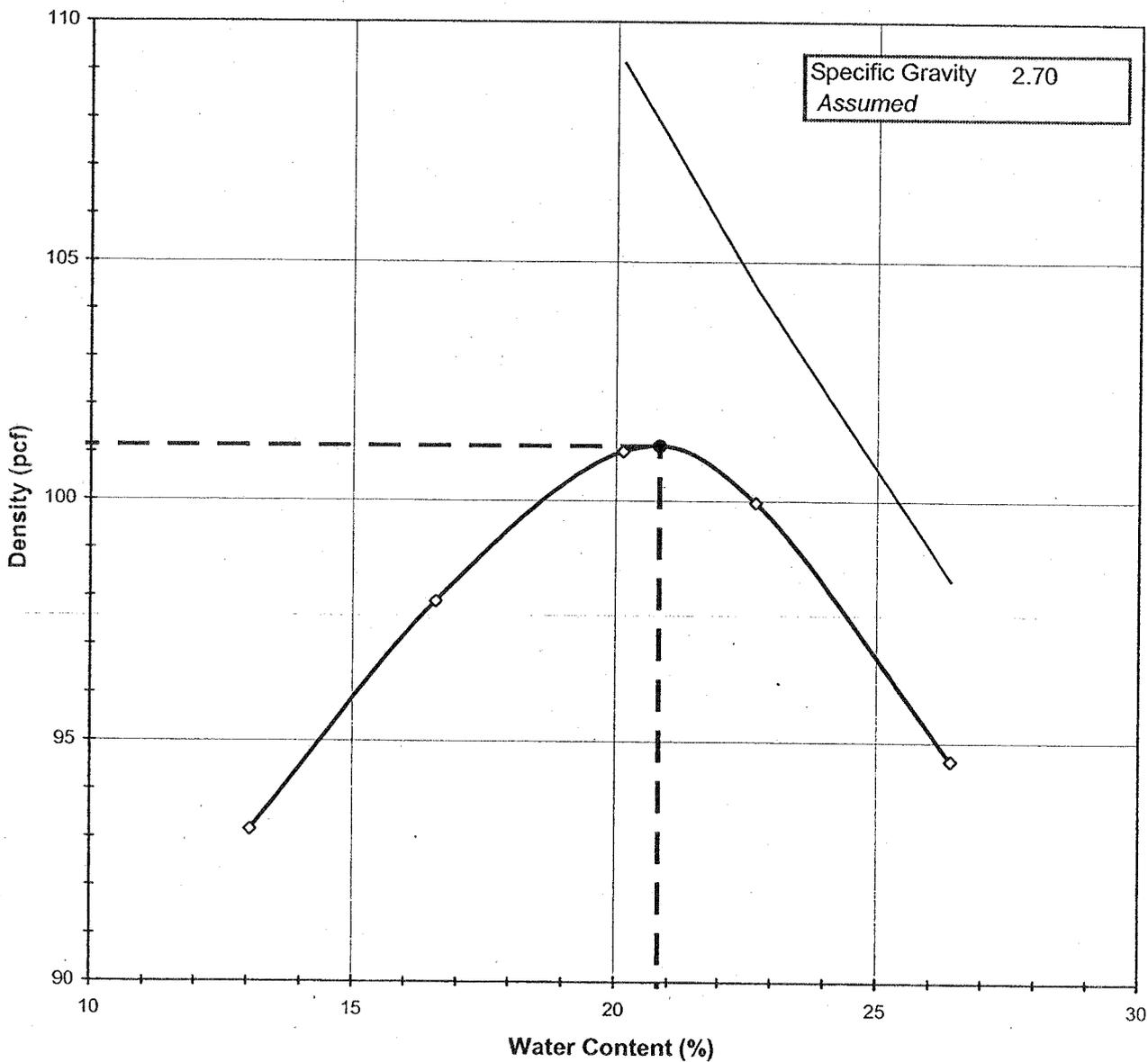
Tested By MW Date 09/20/04 Checked By *GM* Date *9-30-04*



MOISTURE DENSITY RELATIONSHIP
ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	28-32K
Lab ID	2004-547-07-07	Test Method	STANDARD
Visual Description	RED SANDY CLAY		

Optimum Water Content 20.8
Maximum Dry Density 101.1



Tested By MW Date 09/23/04 Checked By Gem Date 9-30-04



MOISTURE - DENSITY RELATIONSHIP
ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	28-32K
Lab ID	2004-547-07-07		

Visual Description RED SANDY CLAY

Total Weight of the Sample (gm)	16907
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	203
Percent Retained on 3/8"	455
Percent Retained on #4	NA
Oversize Material	Not included
Procedure Used	B

Test Type	STANDARD
Rammer Weight (lbs)	5.5
Rammer Drop (in)	12
Rammer Type	MECHANICAL
Machine ID	R174
Mold ID	R172
Mold diameter	4"
Weight of the Mold	4220
Volume of the Mold(cc)	940

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	5807	5940	6049	6068	6023
Wt. of Mold (gm)	4220	4220	4220	4220	4220
Wt. of WS	1587	1720	1829	1848	1802
Mold Volume (cc)	940	940	940	940	940

Moisture Content / Density

Tare Number	Z-9	B-3	F-1	F-2	Y-5
Wt. of Tare & WS (gm)	399.30	500.83	575.35	585.58	503.19
Wt. of Tare & DS (gm)	364.76	443.50	495.40	495.94	419.10
Wt. of Tare (gm)	100.23	97.87	98.25	100.97	100.67
Wt. of Water (gm)	34.54	57.33	79.95	89.64	84.09
Wt. of DS (gm)	264.53	345.63	397.15	394.97	318.43

Wet Density (gm/cc)	1.69	1.83	1.94	1.97	1.92
Wet Density (pcf)	105.3	114.1	121.4	122.7	119.6
Moisture Content (%)	13.1	16.6	20.1	22.7	26.4
Dry Density (pcf)	93.2	97.9	101.0	100.0	94.6

Zero Air Voids

Moisture Content (%)	20.1	22.7	26.4
Dry Unit Weight (pcf)	109.2	104.5	98.4

Tested By MW Date 09/23/04 Checked By Gem Date 9-30-04

ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N. WAKE SBT. D PHASE1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	32-36K
Lab ID	2004-547-07-08	Soil Description	REDDISH BROWN LEAN CLAY

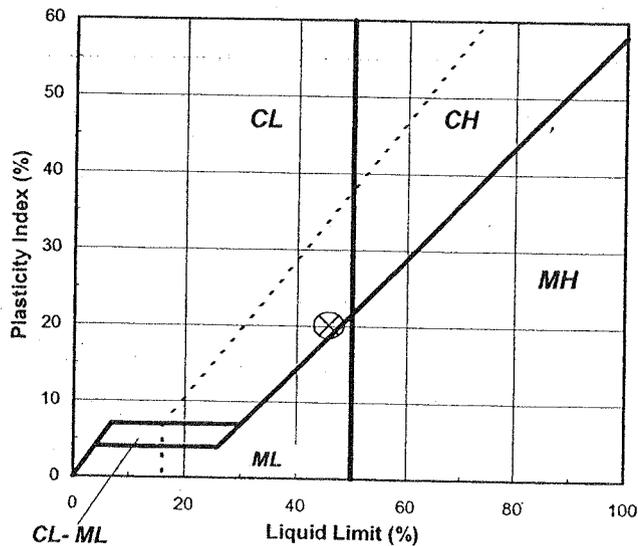
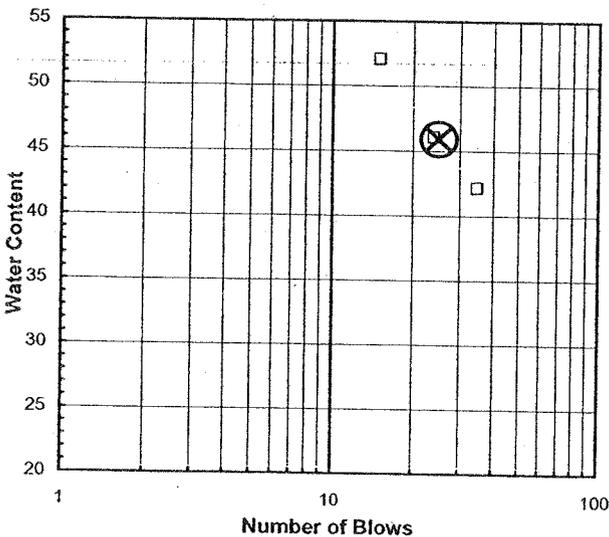
Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description. (Minus No. 40 sieve material, Wet method)

Liquid Limit Test	1	2	3	
Tare Number	A-N	A-G	A-I	M U L T I P O I N T
Wt. of Tare & WS (gm)	32.66	30.87	30.35	
Wt. of Tare & DS (gm)	26.78	26.05	25.96	
Wt. of Tare (gm)	15.48	15.58	15.54	
Wt. of Water (gm)	5.9	4.8	4.4	
Wt. of DS (gm)	11.3	10.5	10.4	
Moisture Content (%)	52.0	46.0	42.1	
Number of Blows	15	24	35	

Plastic Limit Test	1	2	Range	Test Results
Tare Number	B	L		
Wt. of Tare & WS (gm)	22.47	22.43		
Wt. of Tare & DS (gm)	20.97	20.94		
Wt. of Tare (gm)	15.23	15.27		
Wt. of Water (gm)	1.5	1.5		
Wt. of DS (gm)	5.7	5.7		
Moisture Content (%)	26.1	26.3	-0.1	Liquid Limit (%) 46
<i>Note: The acceptable range of the two Moisture contents is ± 2.6</i>				Plastic Limit (%) 26
				Plasticity Index (%) 20
				USCS Symbol CL

Flow Curve

Plasticity Chart



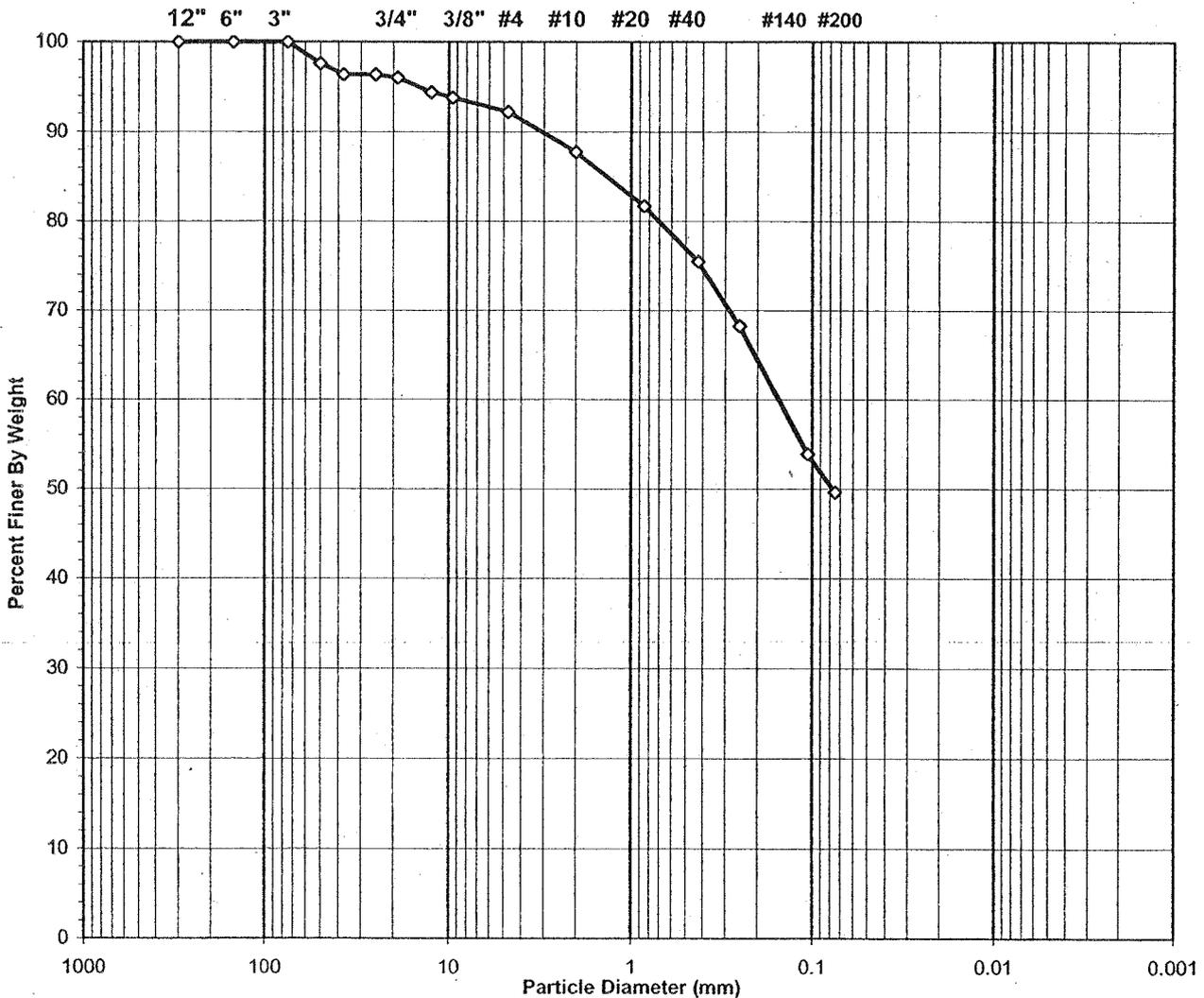
Tested By **KAW** Date **09/27/04** Checked By **gam** Date **9-30-04**

page 1 of 1 DCN: CT-S4B DATE: 10/08/01 REVISION: 2

SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	32-36K
Lab ID	2004-547-07-08	Soil Color	REDDISH BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol SC, TESTED

USCS Classification CLAYEY SAND

Tested By MW Date 09/24/04 Checked By *GOM* Date 9-30-04



WASH SIEVE ANALYSIS

ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	32-36K
Lab ID	2004-547-07-08	Soil Color	REDDISH BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	G-5	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	792.15	Wgt. Tare + Wet Specimen (gm)	680.17
Wgt. Tare + Dry Specimen (gm)	725.07	Wgt. Tare + Dry Specimen (gm)	680.17
Weight of Tare (gm)	148.73	Weight of Tare (gm)	0.00
Weight of Water (gm)	67.08	Weight of Water (gm)	0.00
Weight of Dry Soil (gm)	576.34	Weight of Dry Soil (gm)	680.17
Moisture Content (%)	11.6	Moisture Content (%)	0.0

Wet Weight -3/4" Sample (gm)	18250.23	Weight of the Dry Specimen (gm)	576.34
Dry Weight - 3/4" Sample (gm)	16347.5	Weight of minus #200 material (gm)	297.85
Wet Weight +3/4" Sample (gm)	680.17	Weight of plus #200 material (gm)	278.49
Dry Weight + 3/4" Sample (gm)	680.17		
Total Dry Weight Sample (gm)	17027.7	J - Factor (Percent Finer than 3/4")	0.9601

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	413.63	2.4 (*)	2.4	97.6	97.6
1 1/2"	37.5	207.13	1.2	3.6	96.4	96.4
1"	25	0.00	0.0	3.6	96.4	96.4
3/4"	19	59.41	0.3	4.0	96.0	96.0
1/2"	12.5	9.66	1.7	1.7	98.3	94.4
3/8"	9.5	3.75	0.7	2.3	97.7	93.8
#4	4.75	9.52	1.7	4.0	96.0	92.2
#10	2	26.75	4.6	8.6	91.4	87.7
#20	0.85	36.40	6.3 (**)	14.9	85.1	81.7
#40	0.425	37.26	6.5	21.4	78.6	75.5
#60	0.25	43.32	7.5	28.9	71.1	68.2
#140	0.106	86.25	15.0	43.9	56.1	53.9
#200	0.075	25.58	4.4	48.3	51.7	49.6
Pan	-	297.85	51.7	100.0	-	-

Notes : (*) The + 3/4" sieve analysis is based on the Total Dry Weight of the Sample

(**) The - 3/4" sieve analysis is based on the Weight of the Dry Specimen

Tested By **MW** Date **09/24/04** Checked By **GEM** Date **9-30-04**

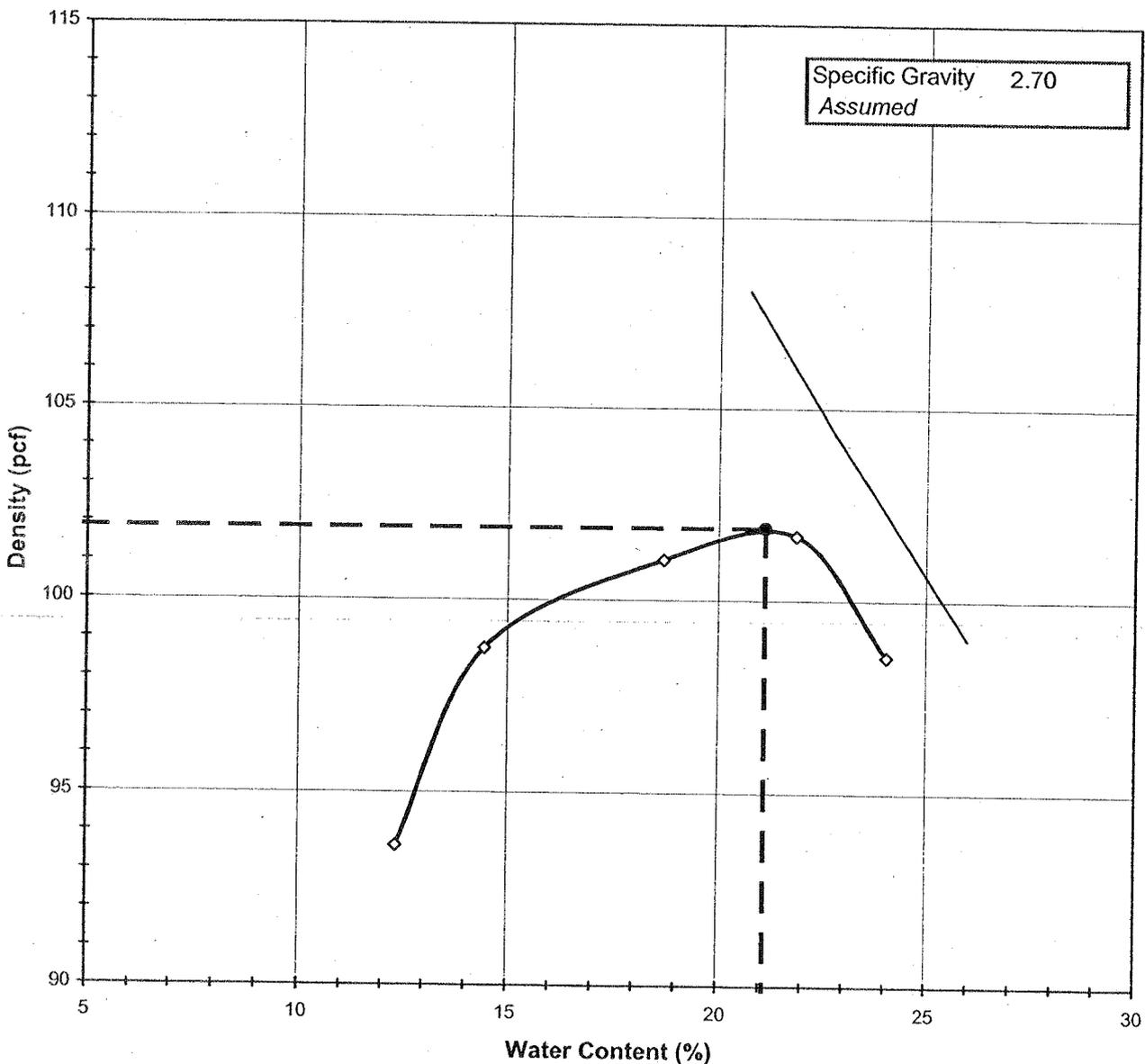


MOISTURE DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	32-36K
Lab ID	2004-547-07-08	Test Method	STANDARD
Visual Description	RED SANDY CLAY		

Optimum Water Content 21.1
Maximum Dry Density 101.9



Tested By MW Date 09/27/04 Checked By *Cem* Date 9-30-04

MOISTURE - DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	32-36K
Lab ID	2004-547-07-08		

Visual Description : RED SANDY CLAY

Total Weight of the Sample (gm)	18930
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	NA
Percent Retained on 3/8"	NA
Percent Retained on #4	NA
Oversize Material	Not included
Procedure Used	B

TestType	STANDARD
Rammer Weight (lbs)	5.5
Rammer Drop (in)	12
Rammer Type	MECHANICAL
Machine ID	R174
Mold ID	R172
Mold diameter	4"
Weight of the Mold	4220
Volume of the Mold(cc)	940

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	5805	5923	6028	6087	6062
Wt. of Mold (gm)	4220	4220	4220	4220	4220
Wt. of WS	1585	1703	1807	1867	1842
Mold Volume (cc)	940	940	940	940	940

Moisture Content / Density

Tare Number	SS-1	SS-6	Y-2	SS-2	B-1
Wt. of Tare & WS (gm)	513.83	422.01	697.49	582.55	606.04
Wt. of Tare & DS (gm)	468.45	381.47	603.44	496.11	508.08
Wt. of Tare (gm)	100.49	100.99	100.48	100.47	100.48
Wt. of Water (gm)	45.38	40.54	94.05	86.44	97.96
Wt. of DS (gm)	367.96	280.48	502.96	395.64	407.60

Wet Density (gm/cc)	1.69	1.81	1.92	1.99	1.96
Wet Density (pcf)	105.2	113.0	119.9	123.9	122.2
Moisture Content (%)	12.3	14.5	18.7	21.8	24.0
Dry Density (pcf)	93.6	98.7	101.0	101.7	98.5

Zero Air Voids

Moisture Content (%)	20.7	22.8	26.0
Dry Unit Weight (pcf)	108.1	104.3	99.0

Tested By MW Date 09/27/04 Checked By GEM Date 9-30-04

MOISTURE CONTENT

ASTM D 2216 (SOP-S1)

Client THALLE CONSTRUCTION CO., INC.
 Client Reference N.WAKE SBTL. D PHASE 1 CLOSURE
 Project No. 2004-547-08

Lab ID	.001	.002	.003	.004	.005
Boring No.	PROT.COV.	PROT.COV.	PROT.COV.	PROT.COV.	PROT.COV.
Depth (ft)	NA	NA	NA	NA	NA
Sample No.	36-40K	40-44K	44-48K	48-52K	52-56K
Tare Number	Z-14	F-4	Y-6	SS-2	Y-11
Wt. of Tare & WS (gm)	366.35	360.20	337.24	310.82	320.88
Wt. of Tare & DS (gm)	323.08	301.65	300.23	274.57	285.84
Wt. of Tare (gm)	100.78	100.49	100.65	100.50	99.88
Wt. of Water (gm)	43.27	58.55	37.01	36.25	35.04
Wt. of DS (gm)	222.3	201.16	199.58	174.07	185.96
Water Content (%)	19.5	29.1	18.5	20.8	18.8

Lab ID	.006	.007
Boring No.	PROT.COV.	PROT.COV.
Depth (ft)	NA	NA
Sample No.	56-60K	60-64K
Tare Number	Y-1	A-5
Wt. of Tare & WS (gm)	307.58	340.85
Wt. of Tare & DS (gm)	271.47	300.31
Wt. of Tare (gm)	99.59	99.63
Wt. of Water (gm)	36.11	40.54
Wt. of DS (gm)	171.88	200.68
Water Content (%)	21.0	20.2

Notes : NA

ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client	THALLE CONSTRUCTION CO., INC	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	36-40K
Lab ID	2004-547-08-01	Soil Description	RED ELASTIC SILT (Minus No. 40 sieve material, Airdried)

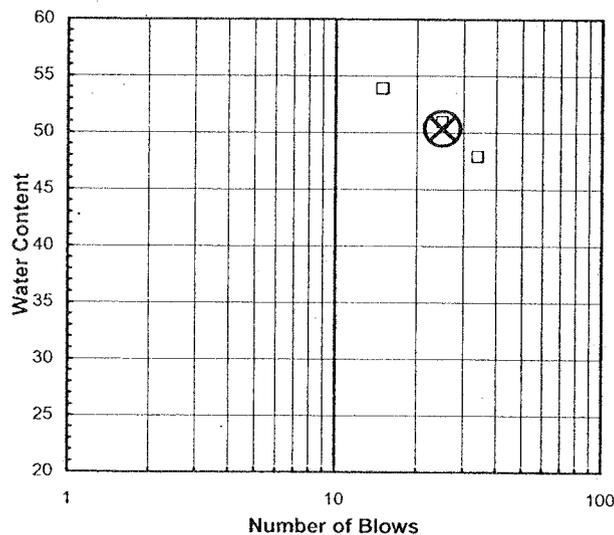
Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description.

Liquid Limit Test	1	2	3	
Tare Number	A-T	A-Q	S	M
Wt. of Tare & WS (gm)	31.03	33.29	33.13	U
Wt. of Tare & DS (gm)	25.64	27.31	27.33	L
Wt. of Tare (gm)	15.63	15.56	15.21	T
Wt. of Water (gm)	5.4	6.0	5.8	I
Wt. of DS (gm)	10.0	11.8	12.1	P
Moisture Content (%)	53.8	50.9	47.9	O
Number of Blows	15	25	34	I
				N
				T

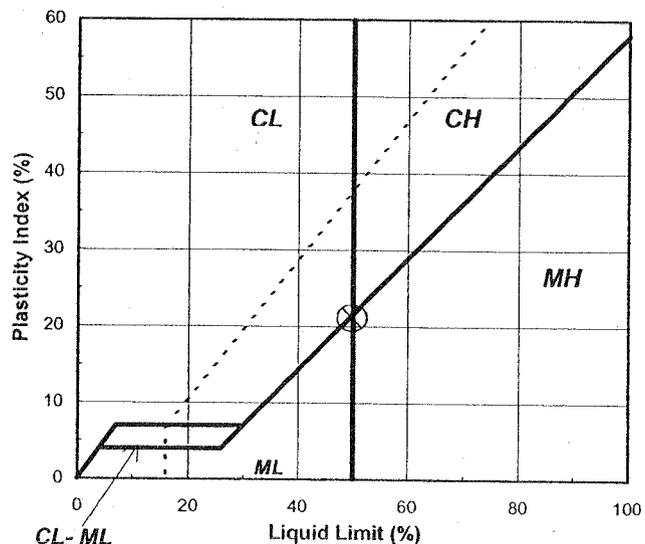
Plastic Limit Test	1	2	Range	Test Results	
Tare Number	A-K	H		Liquid Limit (%)	50
Wt. of Tare & WS (gm)	24.85	24.29		Plastic Limit (%)	29
Wt. of Tare & DS (gm)	22.78	22.21		Plasticity Index (%)	21
Wt. of Tare (gm)	15.58	15.16		USCS Symbol	MH
Wt. of Water (gm)	2.1	2.1			
Wt. of DS (gm)	7.2	7.1			
Moisture Content (%)	28.8	29.5	-0.8		

Note: The acceptable range of the two Moisture contents is ± 2.6

Flow Curve



Plasticity Chart

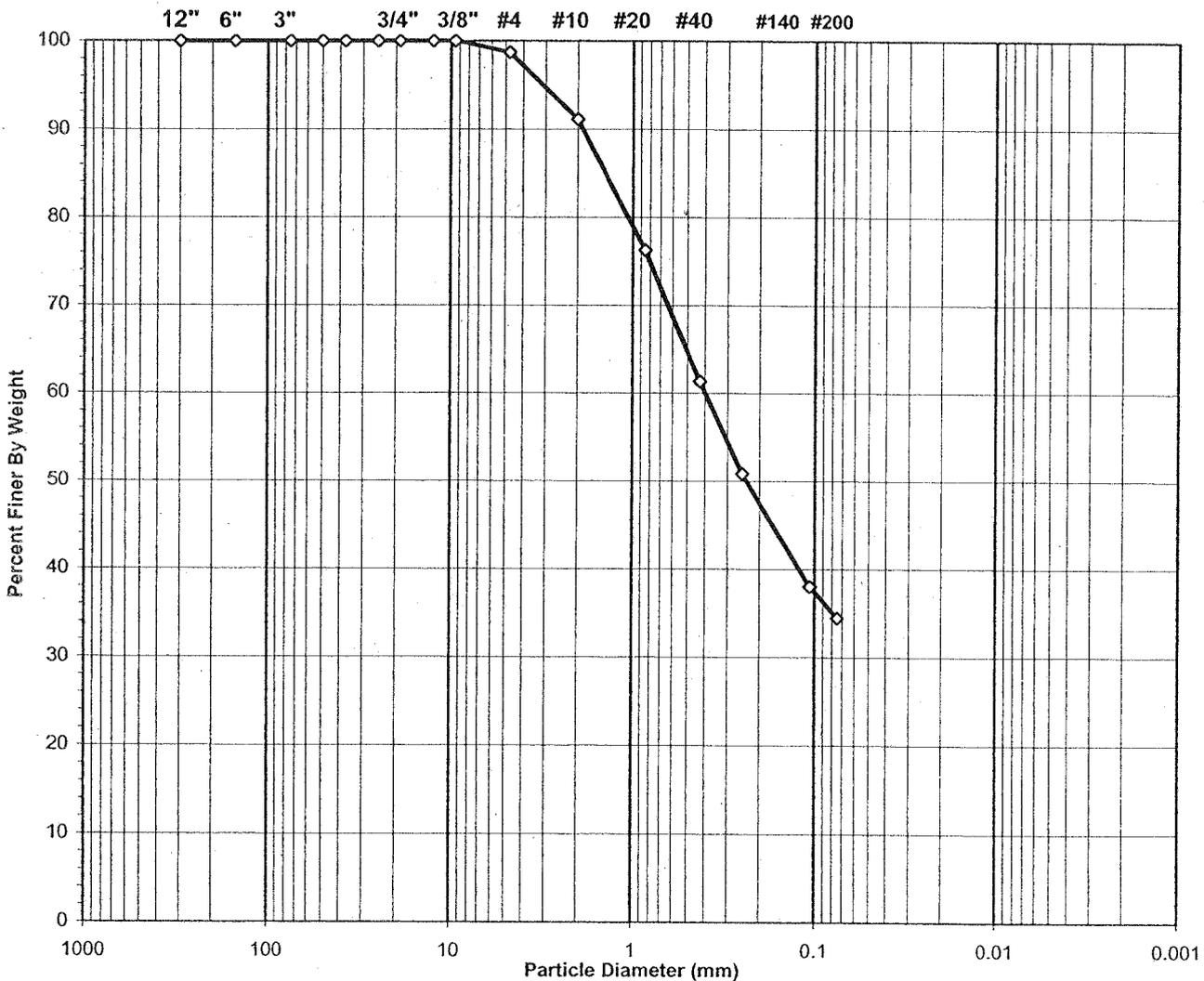


Tested By MW Date 10/07/04 Checked By GEM Date 10-13-04

SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N.WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	36-40K
Lab ID	2004-547-08-01	Soil Color	RED

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol **SM, TESTED**

USCS Classification **SILTY SAND**

Tested By **MW** Date **10/6/2004** Checked By **Gem** Date **10-13-04**



WASH SIEVE ANALYSIS

ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N.WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	36-40K
Lab ID	2004-547-08-01	Soil Color	RED

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	K-3	Tare No.	NA
Wgt.Tare + Wet Specimen (gm)	663.62	Wgt.Tare + Wet Specimen (gm)	NA
Wgt.Tare + Dry Specimen (gm)	619.43	Wgt.Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	152.20	Weight of Tare (gm)	NA
Weight of Water (gm)	44.19	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	467.23	Weight of Dry Soil (gm)	NA
Moisture Content (%)	9.5	Moisture Content (%)	NA

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	467.23
Dry Weight - 3/4" Sample (gm)	306.2	Weight of minus #200 material (gm)	161.01
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	306.22
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.50	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	6.11	1.3	1.3	98.7	98.7
#10	2.00	35.36	7.6	8.9	91.1	91.1
#20	0.850	69.40	14.9	23.7	76.3	76.3
#40	0.425	69.80	14.9	38.7	61.3	61.3
#60	0.250	49.16	10.5	49.2	50.8	50.8
#140	0.106	59.77	12.8	62.0	38.0	38.0
#200	0.075	16.62	3.6	65.5	34.5	34.5
Pan	-	161.01	34.5	100.0	-	-

Tested By MW Date 10/6/2004 Checked By Gem Date 10-13-04

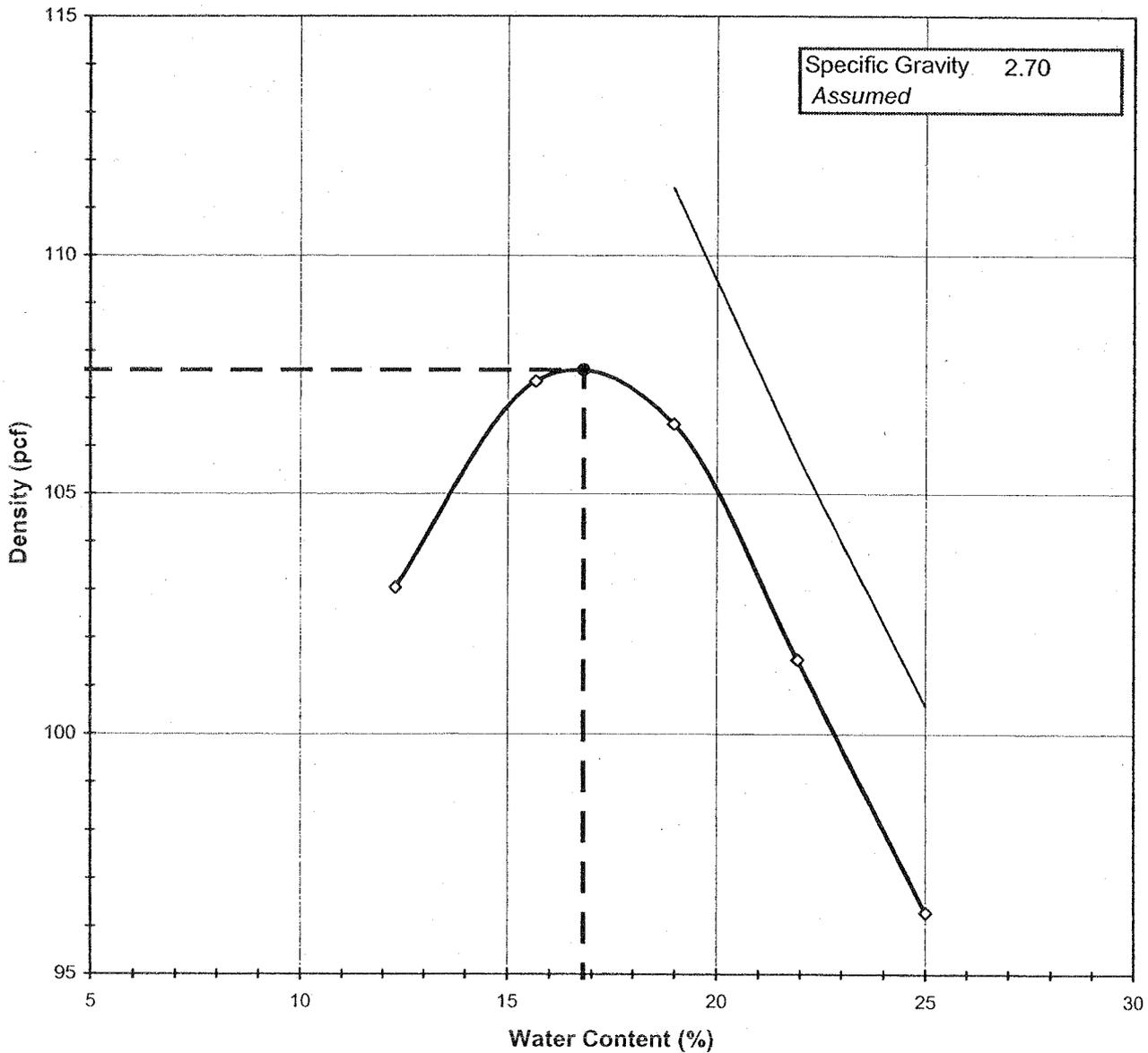
MOISTURE DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT.COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	36-40K
Lab ID	2004-547-08-01	Test Method	STANDARD

Visual Description RED SANDY SILT

Optimum Water Content 16.8
Maximum Dry Density 107.6



Tested By MW Date 10/05/04 Checked By GEM Date 10-7-04

MOISTURE - DENSITY RELATIONSHIP
ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT.COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	36-40K
Lab ID	2004-547-08-01		

Visual Description RED SANDY SILT

Total Weight of the Sample (gm)	16610
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	NA
Percent Retained on 3/8"	0
Percent Retained on #4	0
Oversize Material	Not included
Procedure Used	A

TestType	STANDARD
Rammer Weight (lbs)	5.5
Rammer Drop (in)	12
Rammer Type	MECHANICAL
Machine ID	R174
Mold ID	R172
Mold diameter	4"
Weight of the Mold	4220
Volume of the Mold(cc)	940

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	5964	6091	6129	6086	6034
Wt. of Mold (gm)	4220	4220	4220	4220	4220
Wt. of WS	1744	1871	1908	1866	1814
Mold Volume (cc)	940	940	940	940	940

Moisture Content / Density

Tare Number	A-5	B-1	Z-14	F-4	Y-1
Wt. of Tare & WS (gm)	502.00	445.34	487.94	512.40	484.11
Wt. of Tare & DS (gm)	457.93	398.62	426.20	438.30	407.20
Wt. of Tare (gm)	99.62	100.47	100.73	100.55	99.58
Wt. of Water (gm)	44.07	46.72	61.74	74.10	76.91
Wt. of DS (gm)	358.31	298.15	325.47	337.75	307.62

Wet Density (gm/cc)	1.85	1.99	2.03	1.98	1.93
Wet Density (pcf)	115.7	124.2	126.6	123.8	120.4
Moisture Content (%)	12.3	15.7	19.0	21.9	25.0
Dry Density (pcf)	103.0	107.4	106.5	101.5	96.3

Zero Air Voids

Moisture Content (%)	19.0	21.9	25.0
Dry Unit Weight (pcf)	111.4	105.8	100.6

Tested By MW Date 10/05/04 Checked By Gem Date 10-7-04



MOISTURE CONTENT

ASTM D 2216 (SOP-S1)

Client THALLE CONSTRUCTION CO., INC.
 Client Reference N.WAKE SBTL. D PHASE 1 CLOSURE
 Project No. 2004-547-08

Lab ID	.001	.002	.003	.004	.005
Boring No.	PROT.COV.	PROT.COV.	PROT.COV.	PROT.COV.	PROT.COV.
Depth (ft)	NA	NA	NA	NA	NA
Sample No.	36-40K	40-44K	44-48K	48-52K	52-56K
Tare Number	Z-14	F-4	Y-6	SS-2	Y-11
Wt. of Tare & WS (gm)	366.35	360.20	337.24	310.82	320.88
Wt. of Tare & DS (gm)	323.08	301.65	300.23	274.57	285.84
Wt. of Tare (gm)	100.78	100.49	100.65	100.50	99.88
Wt. of Water (gm)	43.27	58.55	37.01	36.25	35.04
Wt. of DS (gm)	222.3	201.16	199.58	174.07	185.96
Water Content (%)	19.5	29.1	18.5	20.8	18.8

Lab ID	.006	.007
Boring No.	PROT.COV.	PROT.COV.
Depth (ft)	NA	NA
Sample No.	56-60K	60-64K
Tare Number	Y-1	A-5
Wt. of Tare & WS (gm)	307.58	340.85
Wt. of Tare & DS (gm)	271.47	300.31
Wt. of Tare (gm)	99.59	99.63
Wt. of Water (gm)	36.11	40.54
Wt. of DS (gm)	171.88	200.68
Water Content (%)	21.0	20.2

Notes : NA

ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client	THALLE CONSTRUCTION CO., INC	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	40-44K
Lab ID	2004-547-08-02	Soil Description	RED FAT CLAY

Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. (Minus No. 40 sieve material, Airdried)
see material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description.

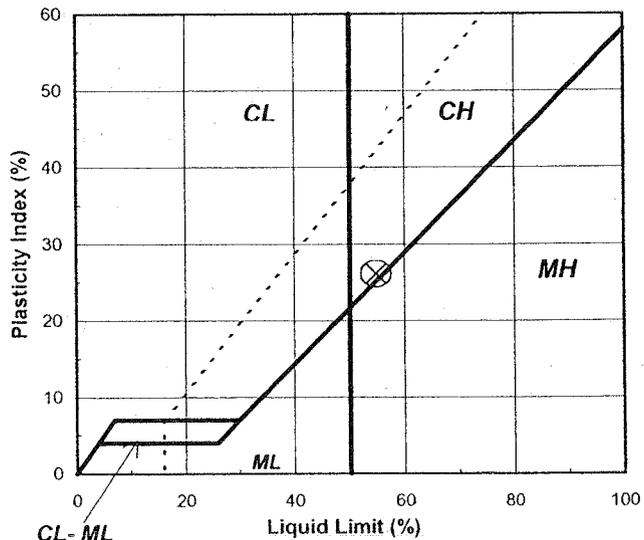
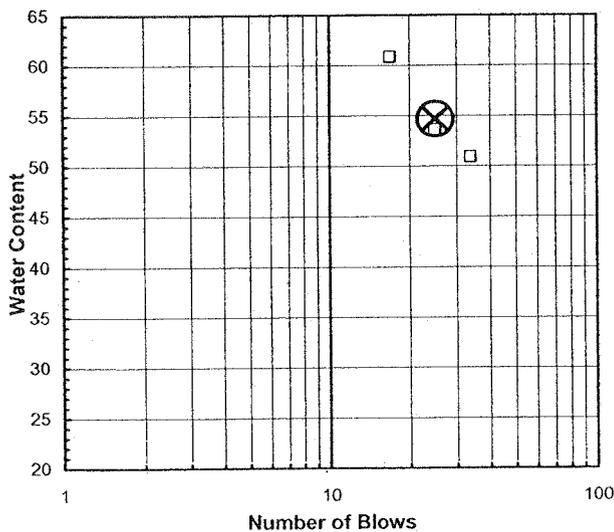
Liquid Limit Test	1	2	3	M U L T I P L I C I T Y
Tare Number	K	U	A-O	
Wt. of Tare & WS (gm)	30.67	31.17	31.37	
Wt. of Tare & DS (gm)	24.85	25.62	26.01	
Wt. of Tare (gm)	15.28	15.25	15.47	
Wt. of Water (gm)	5.8	5.6	5.4	
Wt. of DS (gm)	9.6	10.4	10.5	
Moisture Content (%)	60.8	53.5	50.9	N
Number of Blows	17	25	34	T

Plastic Limit Test	1	2	Range	Test Results
Tare Number	G	F		Liquid Limit (%) 55
Wt. of Tare & WS (gm)	23.07	24.01		Plastic Limit (%) 29
Wt. of Tare & DS (gm)	21.26	22.05		Plasticity Index (%) 26
Wt. of Tare (gm)	15.06	15.25		USCS Symbol CH
Wt. of Water (gm)	1.8	2.0		
Wt. of DS (gm)	6.2	6.8		
Moisture Content (%)	29.2	28.8	0.4	

Note: The acceptable range of the two Moisture contents is ± 2.6

Flow Curve

Plasticity Chart

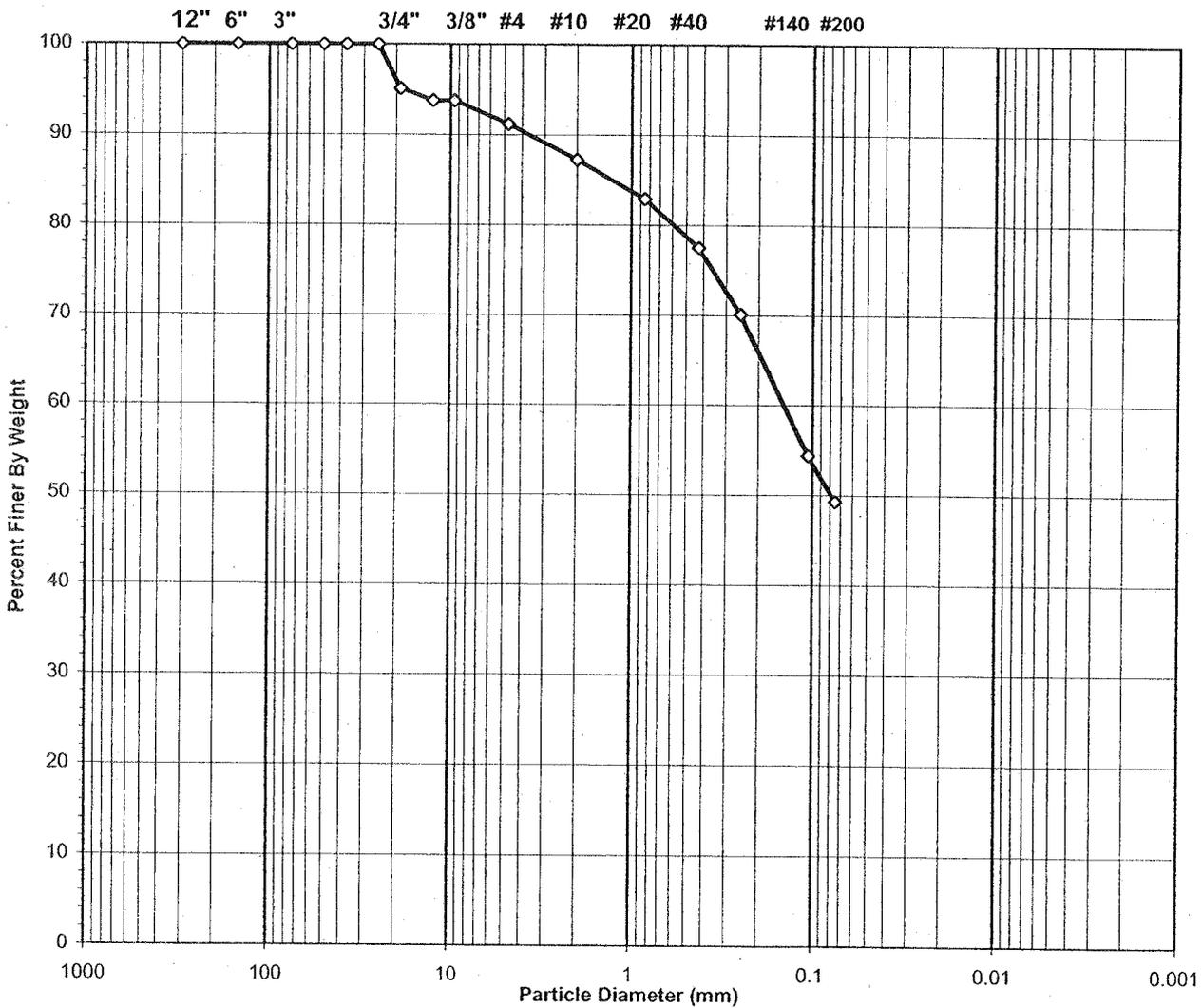


Tested By MW Date 10/11/04 Checked By *GM* Date 10-13-04

SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT.COV.
Client Reference	N.WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	40-44K
Lab ID	2004-547-08-02	Soil Color	RED

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol **SC, TESTED**

USCS Classification **CLAYEY SAND**

Tested By MW Date 10/1/2004 Checked By *ben* Date 10-13-04



WASH SIEVE ANALYSIS

ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT.COV.
Client Reference	N.WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	40-44K
Lab ID	2004-547-08-02	Soil Color	RED

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	K-5	Tare No.	B
Wgt. Tare + Wet Specimen (gm)	666.72	Wgt. Tare + Wet Specimen (gm)	100.00
Wgt. Tare + Dry Specimen (gm)	608.15	Wgt. Tare + Dry Specimen (gm)	100.00
Weight of Tare (gm)	153.09	Weight of Tare (gm)	50.00
Weight of Water (gm)	58.57	Weight of Water (gm)	0.00
Weight of Dry Soil (gm)	455.06	Weight of Dry Soil (gm)	50.00
Moisture Content (%)	12.9	Moisture Content (%)	0.0

Wet Weight -3/4" Sample (gm)	15050.5	Weight of the Dry Specimen (gm)	455.06
Dry Weight - 3/4" Sample (gm)	13334.3	Weight of minus #200 material (gm)	235.88
Wet Weight +3/4" Sample (gm)	690.40	Weight of plus #200 material (gm)	219.18
Dry Weight + 3/4" Sample (gm)	690.40		
Total Dry Weight Sample (gm)	14024.7	J - Factor (Percent Finer than 3/4")	0.9508

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0 (*)	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25	0.00	0.0	0.0	100.0	100.0
3/4"	19	690.40	4.9	4.9	95.1	95.1
1/2"	12.5	6.40	1.4	1.4	98.6	93.7
3/8"	9.5	0.00	0.0	1.4	98.6	93.7
#4	4.75	12.40	2.7	4.1	95.9	91.1
#10	2	18.76	4.1	8.3	91.7	87.2
#20	0.85	20.79	4.6 (**)	12.8	87.2	82.9
#40	0.425	25.90	5.7	18.5	81.5	77.5
#60	0.25	35.42	7.8	26.3	73.7	70.1
#140	0.106	75.15	16.5	42.8	57.2	54.4
#200	0.075	24.36	5.4	48.2	51.8	49.3
Pan	-	235.88	51.8	100.0	-	-

Notes : (*) The + 3/4" sieve analysis is based on the Total Dry Weight of the Sample
 (**) The - 3/4" sieve analysis is based on the Weight of the Dry Specimen

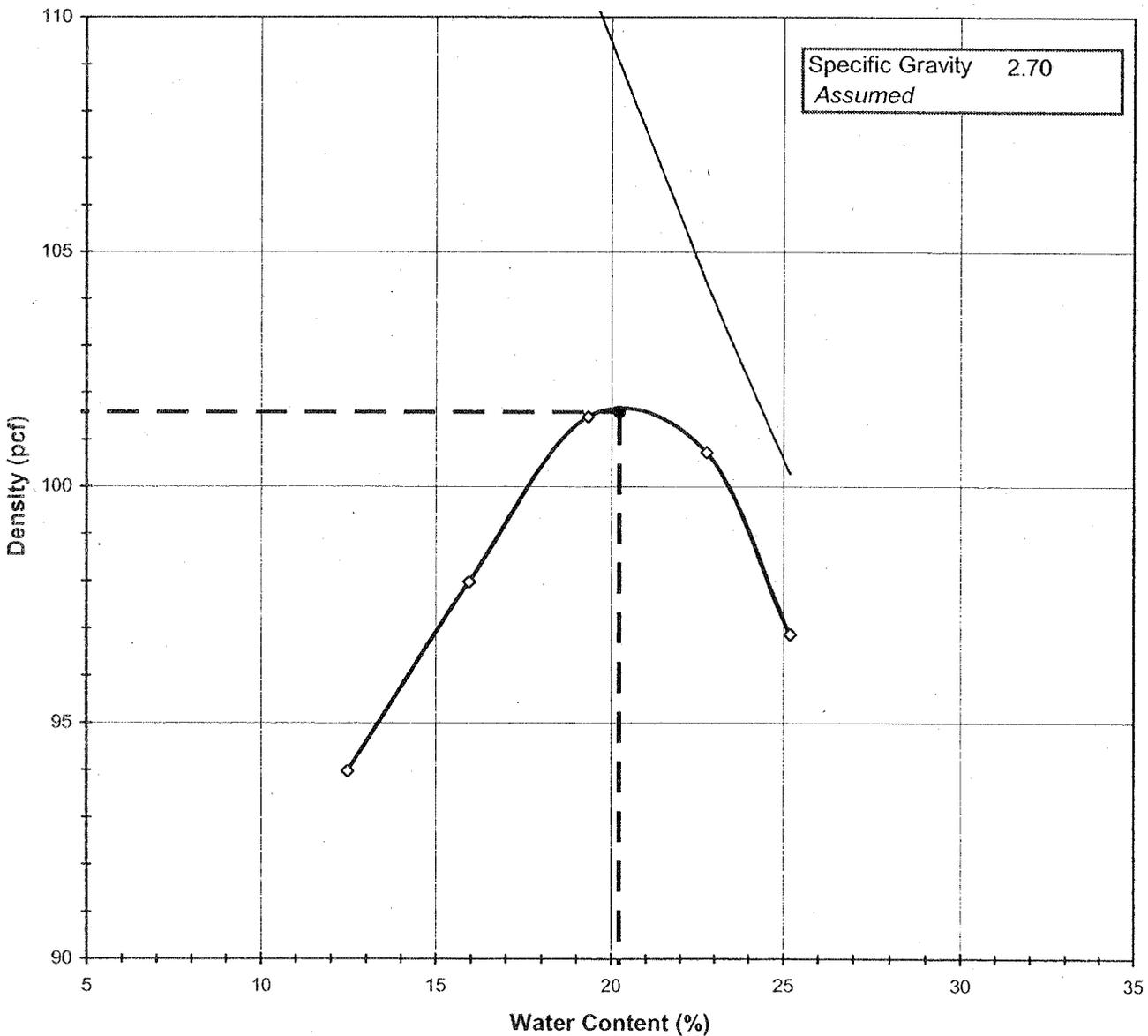
Tested By **MW** Date **10/1/2004** Checked By **Gem** Date **10-13-04**



MOISTURE DENSITY RELATIONSHIP
ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT.COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	40-44K
Lab ID	2004-547-08-02	Test Method	STANDARD
Visual Description	RED SANDY SILT		

Optimum Water Content 20.2
Maximum Dry Density 101.6



Tested By JRB Date 10/12/2004 Checked By Can Date 10-13-04

MOISTURE - DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT.COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	40-44K
Lab ID	2004-547-08-02		

Visual Description RED SANDY SILT

Total Weight of the Sample (gm)	15741
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	NA
Percent Retained on 3/8"	0
Percent Retained on #4	0
Oversize Material	Not included
Procedure Used	B

TestType	STANDARD
Rammer Weight (lbs)	5.5
Rammer Drop (in)	12
Rammer Type	MECHANICAL
Machine ID	R174
Mold ID	R172
Mold diameter	4"
Weight of the Mold	4220
Volume of the Mold(cc)	940

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	5813	5932	6045	6084	6048
Wt. of Mold (gm)	4220	4220	4220	4220	4220
Wt. of WS	1593	1712	1825	1863	1827
Mold Volume (cc)	940	940	940	940	940

Moisture Content / Density

Tare Number	Z-14	Y-1	SS-8	A-1	Y-6
Wt. of Tare & WS (gm)	643.95	764.32	780.10	705.21	409.90
Wt. of Tare & DS (gm)	583.73	672.93	669.71	592.89	347.66
Wt. of Tare (gm)	100.70	99.56	98.58	99.60	100.62
Wt. of Water (gm)	60.22	91.39	110.39	112.32	62.24
Wt. of DS (gm)	483.03	573.37	571.13	493.29	247.04

Wet Density (gm/cc)	1.69	1.82	1.94	1.98	1.94
Wet Density (pcf)	105.7	113.6	121.1	123.7	121.3
Moisture Content (%)	12.5	15.9	19.3	22.8	25.2
Dry Density (pcf)	94.0	98.0	101.5	100.7	96.9

Zero Air Voids

Moisture Content (%)	19.3	22.8	25.2
Dry Unit Weight (pcf)	110.7	104.3	100.3

Tested By JRB Date 10/12/2004 Checked By GEM Date 10-13-04

MOISTURE CONTENT

ASTM D 2216 (SOP-S1)

Client THALLE CONSTRUCTION CO., INC.
 Client Reference N.WAKE SBTL. D PHASE 1 CLOSURE
 Project No. 2004-547-08

Lab ID	.001	.002	.003	.004	.005
Boring No.	PROT.COV.	PROT.COV.	PROT.COV.	PROT.COV.	PROT.COV.
Depth (ft)	NA	NA	NA	NA	NA
Sample No.	36-40K	40-44K	44-48K	48-52K	52-56K
Tare Number	Z-14	F-4	Y-6	SS-2	Y-11
Wt. of Tare & WS (gm)	366.35	360.20	337.24	310.82	320.88
Wt. of Tare & DS (gm)	323.08	301.65	300.23	274.57	285.84
Wt. of Tare (gm)	100.78	100.49	100.65	100.50	99.88
Wt. of Water (gm)	43.27	58.55	37.01	36.25	35.04
Wt. of DS (gm)	222.3	201.16	199.58	174.07	185.96
Water Content (%)	19.5	29.1	18.5	20.8	18.8

Lab ID	.006	.007
Boring No.	PROT.COV.	PROT.COV.
Depth (ft)	NA	NA
Sample No.	56-60K	60-64K
Tare Number	Y-1	A-5
Wt. of Tare & WS (gm)	307.58	340.85
Wt. of Tare & DS (gm)	271.47	300.31
Wt. of Tare (gm)	99.59	99.63
Wt. of Water (gm)	36.11	40.54
Wt. of DS (gm)	171.88	200.68
Water Content (%)	21.0	20.2

Notes : NA

ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client	THALLE CONSTRUCTION CO., INC	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	44-48K
Lab ID	2004-547-08-03	Soil Description	BROWNISH RED ELASTIC SILT

Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description.

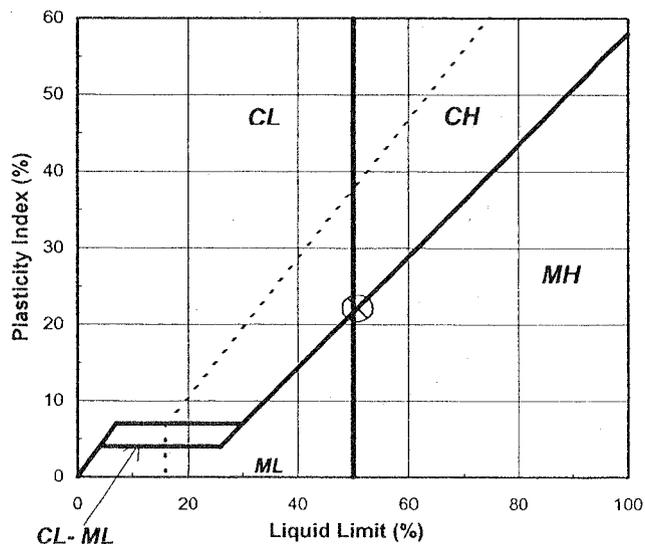
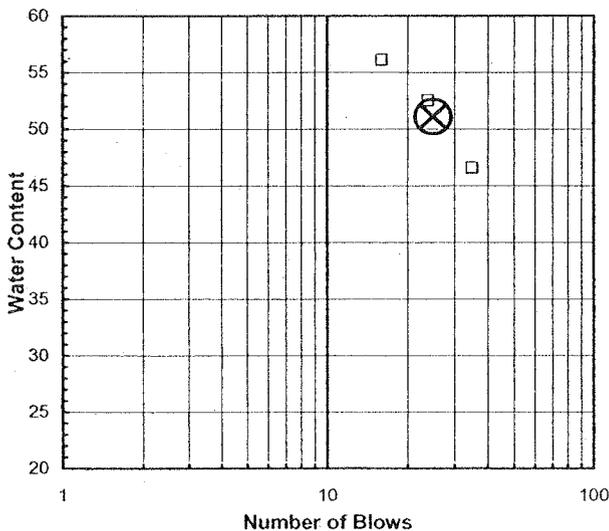
Liquid Limit Test	1	2	3	
Tare Number	A-M	A-R	A	M U L T I P O I N T
Wt. of Tare & WS (gm)	29.50	30.66	31.88	
Wt. of Tare & DS (gm)	24.43	25.48	26.60	
Wt. of Tare (gm)	15.39	15.61	15.26	
Wt. of Water (gm)	5.1	5.2	5.3	
Wt. of DS (gm)	9.0	9.9	11.3	
Moisture Content (%)	56.1	52.5	46.6	
Number of Blows	16	24	35	T

Plastic Limit Test	1	2	Range	Test Results	
Tare Number	P	X		Liquid Limit (%)	51
Wt. of Tare & WS (gm)	22.26	21.60		Plastic Limit (%)	29
Wt. of Tare & DS (gm)	20.69	20.17		Plasticity Index (%)	22
Wt. of Tare (gm)	15.26	15.24		USCS Symbol	MH
Wt. of Water (gm)	1.6	1.4			
Wt. of DS (gm)	5.4	4.9			
Moisture Content (%)	28.9	29.0	-0.1		

Note: The acceptable range of the two Moisture contents is ± 2.6

Flow Curve

Plasticity Chart



Tested By JDR Date 10/13/04 Checked By MMS Date 10-15-04

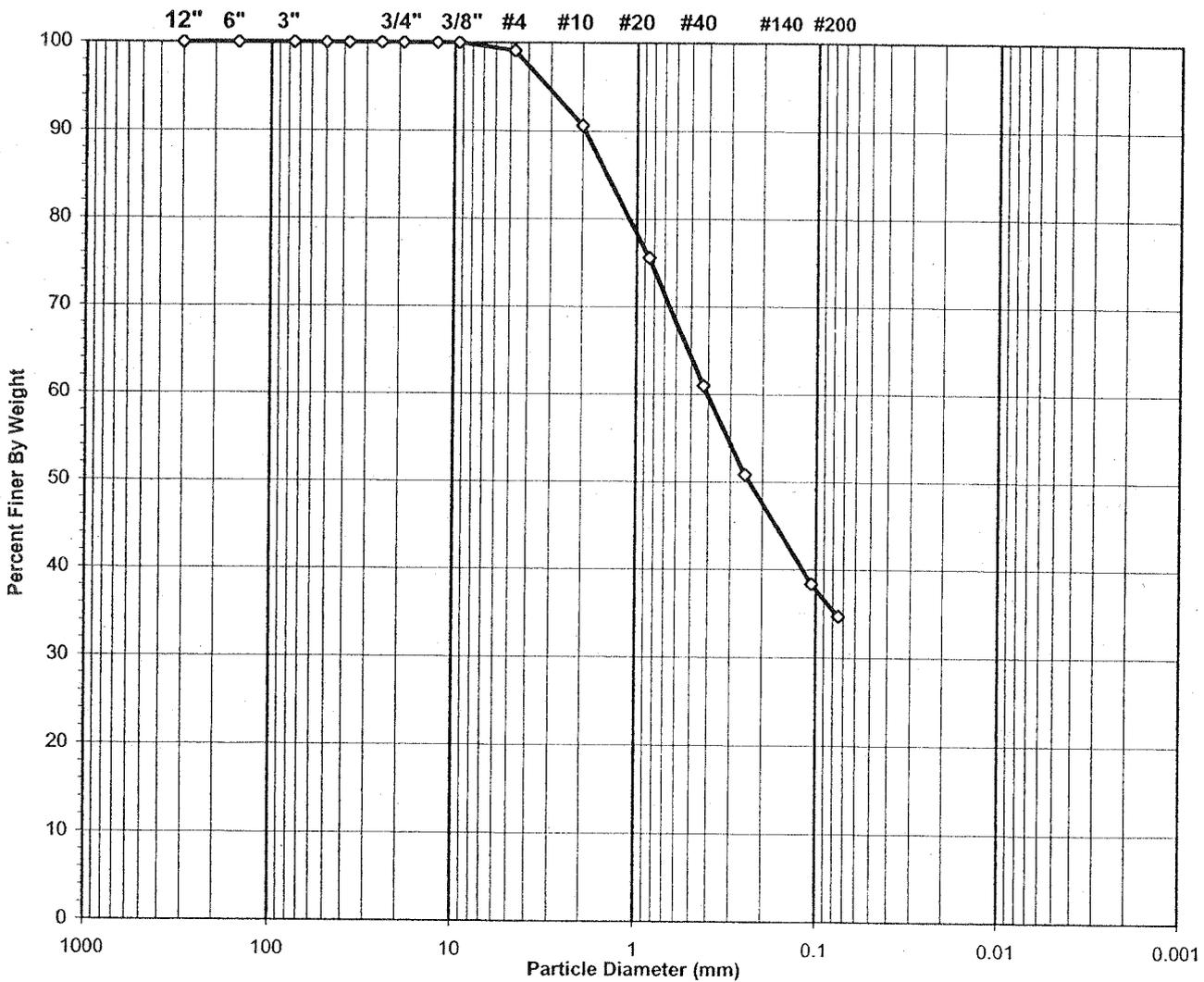
page 1 of 1 DCN: CT-S4B DATE: 10/08/01 REVISION: 2



SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N.WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	44-48K
Lab ID	2004-547-08-03	Soil Color	RED

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol **SM, TESTED**

USCS Classification **SILTY SAND**

Tested By **MW** Date **10/2/2004** Checked By **MDS** Date **10-13-04**



WASH SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT. COV.
Client Reference	N.WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	44-48K
Lab ID	2004-547-08-03	Soil Color	RED

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	H-5	Tare No.	NA
Wgt.Tare + Wet Specimen (gm)	748.69	Wgt.Tare + Wet Specimen (gm)	NA
Wgt.Tare + Dry Specimen (gm)	688.94	Wgt.Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	152.22	Weight of Tare (gm)	NA
Weight of Water (gm)	59.75	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	536.72	Weight of Dry Soil (gm)	NA
Moisture Content (%)	11.1	Moisture Content (%)	NA

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	536.72
Dry Weight - 3/4" Sample (gm)	350.5	Weight of minus #200 material (gm)	186.26
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	350.46
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.50	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	4.89	0.9	0.9	99.1	99.1
#10	2.00	45.44	8.5	9.4	90.6	90.6
#20	0.850	80.80	15.1	24.4	75.6	75.6
#40	0.425	78.31	14.6	39.0	61.0	61.0
#60	0.250	54.52	10.2	49.2	50.8	50.8
#140	0.106	66.91	12.5	61.6	38.4	38.4
#200	0.075	19.59	3.6	65.3	34.7	34.7
Pan	-	186.26	34.7	100.0	-	-

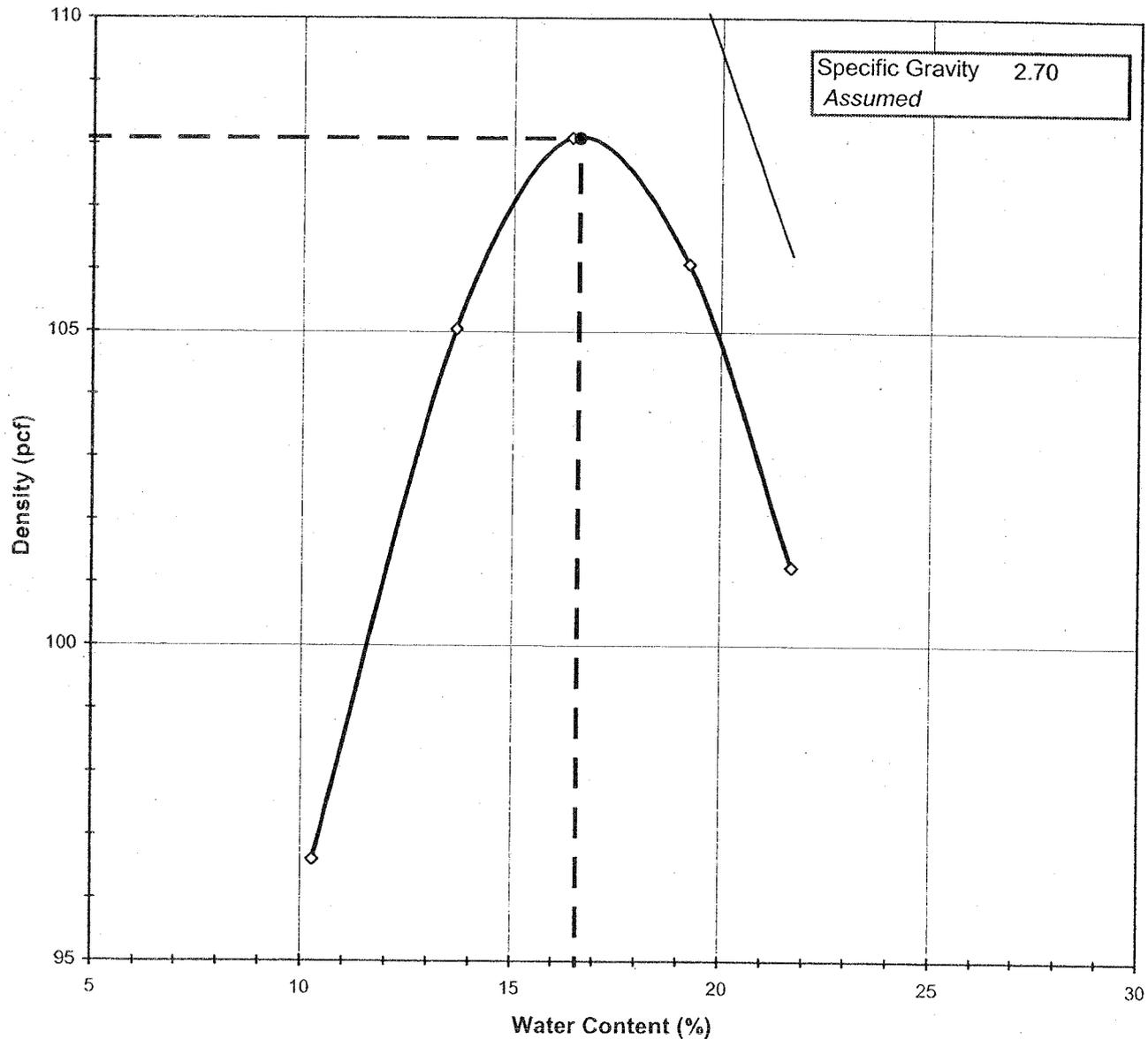
Tested By MW Date 10/2/2004 Checked By *AMW* Date *10-13-04*



MOISTURE DENSITY RELATIONSHIP ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT.COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	44-48K
Lab ID	2004-547-08-03	Test Method	STANDARD
Visual Description	RED SANDY SILT		

Optimum Water Content 16.6
Maximum Dry Density 108.1



Tested By JRB Date 10/12/2004 Checked By Gan Date 10-13-04

MOISTURE - DENSITY RELATIONSHIP
ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT.COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	44-48K
Lab ID	2004-547-08-03		

Visual Description RED SANDY SILT

Total Weight of the Sample (gm)	15945
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	NA
Percent Retained on 3/8"	0
Percent Retained on #4	0
Oversize Material	Not included
Procedure Used	A

TestType	STANDARD
Rammer Weight (lbs)	5.5
Rammer Drop (in)	12
Rammer Type	MECHANICAL
Machine ID	R174
Mold ID	R172
Mold diameter	4"
Weight of the Mold	4220
Volume of the Mold(cc)	940

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	5826	6019	6116	6126	6077
Wt. of Mold (gm)	4220	4220	4220	4220	4220
Wt. of WS	1605	1799	1896	1906	1857
Mold Volume (cc)	940	940	940	940	940

Moisture Content / Density

Tare Number	Y-6	A-1	F-2	SS-7	F-4
Wt. of Tare & WS (gm)	449.28	566.12	772.60	577.42	351.84
Wt. of Tare & DS (gm)	416.77	510.12	677.93	500.26	307.00
Wt. of Tare (gm)	100.63	99.62	100.95	98.91	100.46
Wt. of Water (gm)	32.51	56.00	94.67	77.16	44.84
Wt. of DS (gm)	316.14	410.50	576.98	401.35	206.54

Wet Density (gm/cc)	1.71	1.91	2.02	2.03	1.97
Wet Density (pcf)	106.5	119.4	125.8	126.5	123.2
Moisture Content (%)	10.3	13.6	16.4	19.2	21.7
Dry Density (pcf)	96.6	105.0	108.1	106.1	101.2

Zero Air Voids

Moisture Content (%)	16.4	19.2	21.7
Dry Unit Weight (pcf)	116.8	110.9	106.2

Tested By JRB Date 10/12/2004 Checked By Gem Date 10-13-04



MOISTURE CONTENT

ASTM D 2216 (SOP-S1)

Client THALLE CONSTRUCTION CO., INC.
 Client Reference N.WAKE SBTL. D PHASE 1 CLOSURE
 Project No. 2004-547-08

Lab ID	.001	.002	.003	.004	.005
Boring No.	PROT.COV.	PROT.COV.	PROT.COV.	PROT.COV.	PROT.COV.
Depth (ft)	NA	NA	NA	NA	NA
Sample No.	36-40K	40-44K	44-48K	48-52K	52-56K
Tare Number	Z-14	F-4	Y-6	SS-2	Y-11
Wt. of Tare & WS (gm)	366.35	360.20	337.24	310.82	320.88
Wt. of Tare & DS (gm)	323.08	301.65	300.23	274.57	285.84
Wt. of Tare (gm)	100.78	100.49	100.65	100.50	99.88
Wt. of Water (gm)	43.27	58.55	37.01	36.25	35.04
Wt. of DS (gm)	222.3	201.16	199.58	174.07	185.96
Water Content (%)	19.5	29.1	18.5	20.8	18.8

Lab ID	.006	.007
Boring No.	PROT.COV.	PROT.COV.
Depth (ft)	NA	NA
Sample No.	56-60K	60-64K
Tare Number	Y-1	A-5
Wt. of Tare & WS (gm)	307.58	340.85
Wt. of Tare & DS (gm)	271.47	300.31
Wt. of Tare (gm)	99.59	99.63
Wt. of Water (gm)	36.11	40.54
Wt. of DS (gm)	171.88	200.68
Water Content (%)	21.0	20.2

Notes : NA

ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client	THALLE CONSTRUCTION CO., INC	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	48-52K
Lab ID	2004-547-08-04	Soil Description	REDDISH BROWN ELASTIC SIL

Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description.

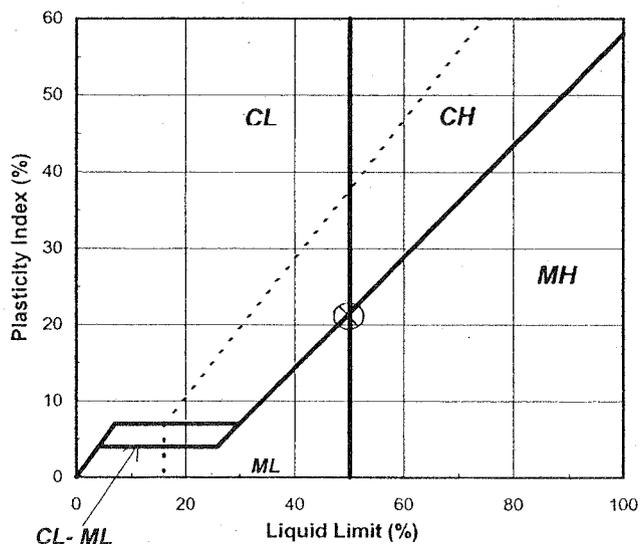
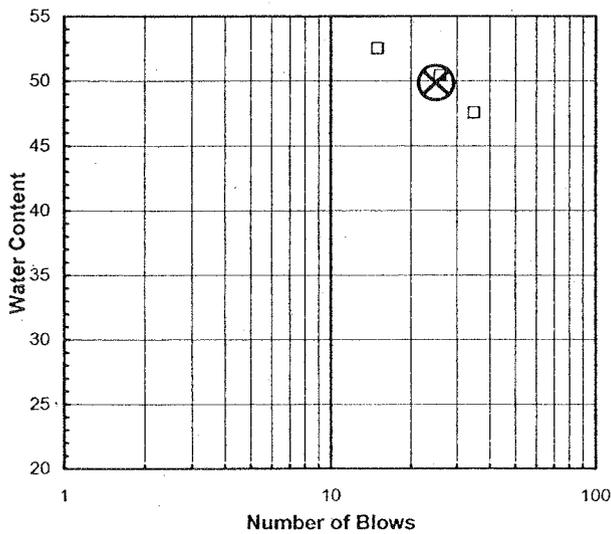
Liquid Limit Test	1	2	3	
Tare Number	X	KA	A	M
Wt. of Tare & WS (gm)	30.97	31.57	31.84	U
Wt. of Tare & DS (gm)	25.55	26.19	26.50	L
Wt. of Tare (gm)	15.22	15.51	15.26	T
Wt. of Water (gm)	5.4	5.4	5.3	I
Wt. of DS (gm)	10.3	10.7	11.2	P
Moisture Content (%)	52.5	50.4	47.5	O
Number of Blows	15	26	35	I
				N
				T

Plastic Limit Test	1	2	Range	Test Results	
Tare Number	A-M	A-R		Liquid Limit (%)	50
Wt. of Tare & WS (gm)	23.81	23.66		Plastic Limit (%)	29
Wt. of Tare & DS (gm)	21.90	21.83		Plasticity Index (%)	21
Wt. of Tare (gm)	15.40	15.61		USCS Symbol	MH
Wt. of Water (gm)	1.9	1.8			
Wt. of DS (gm)	6.5	6.2			
Moisture Content (%)	29.4	29.4	0.0		

Note: The acceptable range of the two Moisture contents is ± 2.6

Flow Curve

Plasticity Chart

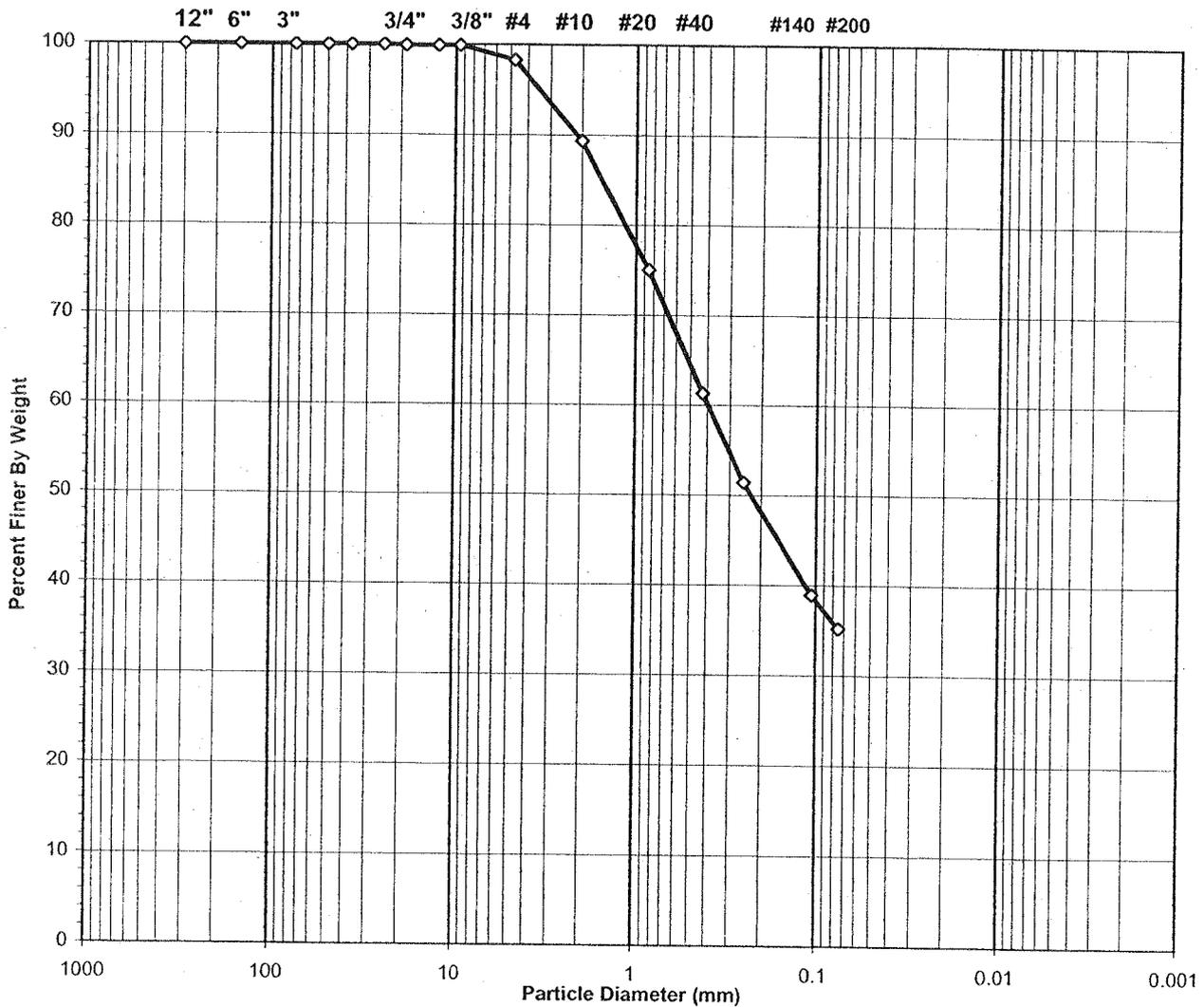


Tested By MW Date 10/11/04 Checked By CEM Date 10-13-04

SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT.COV.
Client Reference	N.WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	48-52K
Lab ID	2004-547-08-04	Soil Color	RED

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol SM, TESTED

USCS Classification SILTY SAND

Tested By MW Date 10/6/2004 Checked By *Cam* Date 10-13-04



WASH SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT.COV.
Client Reference	N.WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	48-52K
Lab ID	2004-547-08-04	Soil Color	RED

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	A-A	Tare No.	A
Wgt.Tare + Wet Specimen (gm)	753.44	Wgt.Tare + Wet Specimen (gm)	100.00
Wgt.Tare + Dry Specimen (gm)	656.57	Wgt.Tare + Dry Specimen (gm)	100.00
Weight of Tare (gm)	152.70	Weight of Tare (gm)	50.00
Weight of Water (gm)	96.87	Weight of Water (gm)	0.00
Weight of Dry Soil (gm)	503.87	Weight of Dry Soil (gm)	50.00
Moisture Content (%)	19.2	Moisture Content (%)	0.0

Wet Weight -3/4" Sample (gm)	14880	Weight of the Dry Specimen (gm)	503.87
Dry Weight - 3/4" Sample (gm)	12480.6	Weight of minus #200 material (gm)	177.57
Wet Weight +3/4" Sample (gm)	14.48	Weight of plus #200 material (gm)	326.30
Dry Weight + 3/4" Sample (gm)	14.48		
Total Dry Weight Sample (gm)	12495.1	J - Factor (Percent Finer than 3/4")	0.9988

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00 (*)	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25	0.00	0.0	0.0	100.0	100.0
3/4"	19	14.48	0.1	0.1	99.9	99.9
1/2"	12.5	0.00	0.0	0.0	100.0	99.9
3/8"	9.5	0.00	0.0	0.0	100.0	99.9
#4	4.75	8.12	1.6	1.6	98.4	98.3
#10	2	45.05	8.9	10.6	89.4	89.3
#20	0.85	72.23 (**)	14.3	24.9	75.1	75.0
#40	0.425	69.24	13.7	38.6	61.4	61.3
#60	0.25	49.95	9.9	48.5	51.5	51.4
#140	0.106	63.00	12.5	61.0	39.0	38.9
#200	0.075	18.71	3.7	64.8	35.2	35.2
Pan	-	177.57	35.2	100.0	-	-

Notes : (*) The + 3/4" sieve analysis is based on the Total Dry Weight of the Sample
 (**) The - 3/4" sieve analysis is based on the Weight of the Dry Specimen

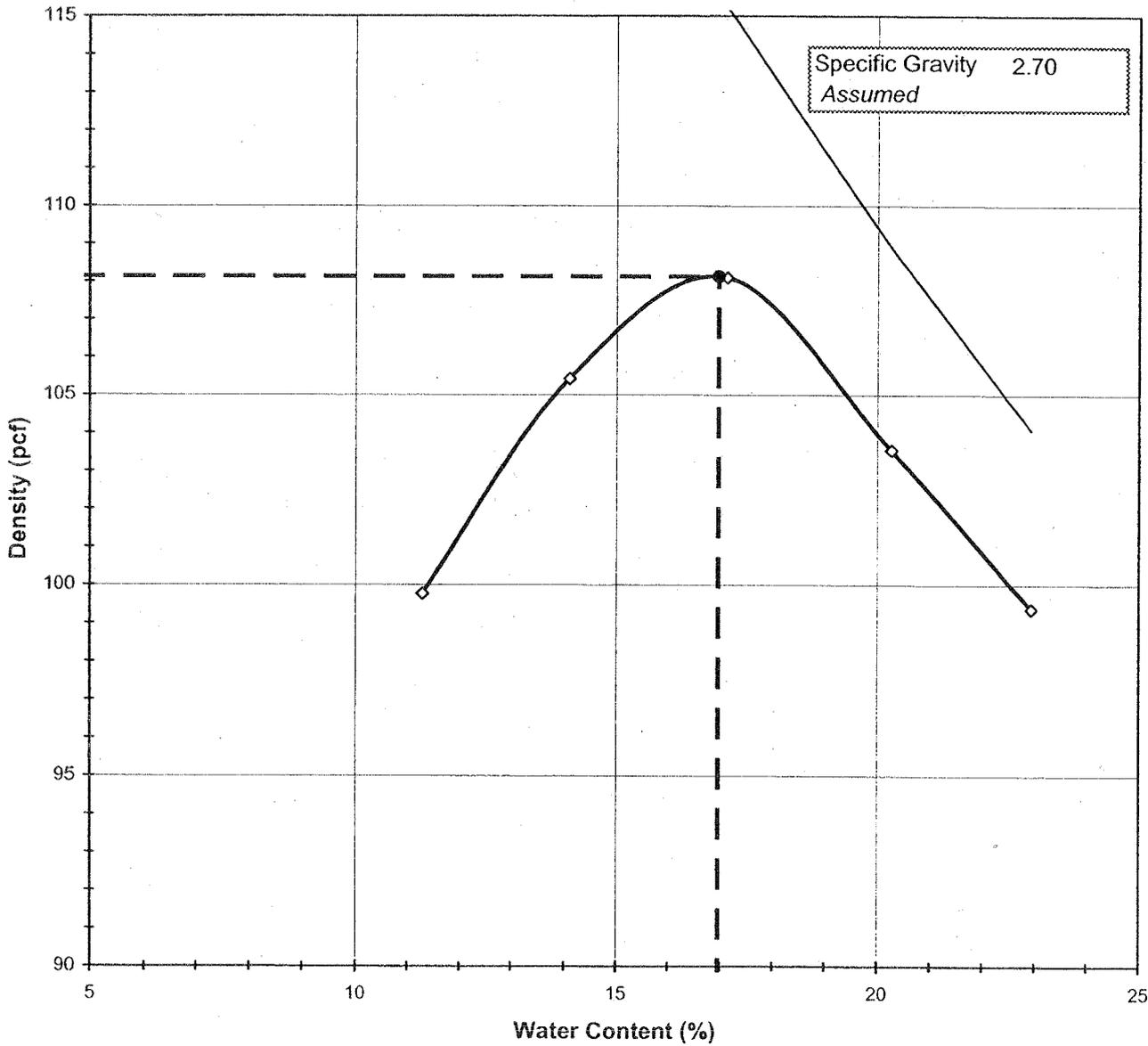
Tested By MW Date 10/6/2004 Checked By Gzm Date 10-13-04

MOISTURE DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT.COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	48-52K
Lab ID	2004-547-08-04	Test Method	STANDARD
Visual Description	RED SILTY SAND		

Optimum Water Content **17.0**
 Maximum Dry Density **108.1**



Tested By JB Date 10/11/2004 Checked By MRS Date 10-13-04



MOISTURE - DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT.COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	48-52K
Lab ID	2004-547-08-04		

Visual Description RED SILTY SAND

Total Weight of the Sample (gm)	14950
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	NA
Percent Retained on 3/8"	0
Percent Retained on #4	0
Oversize Material	Not included
Procedure Used	A

TestType	STANDARD
Rammer Weight (lbs)	5.5
Rammer Drop (in)	12
Rammer Type	MECHANICAL
Machine ID	R174
Mold ID	R172
Mold diameter	4"
Weight of the Mold	4220
Volume of the Mold(cc)	940

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	5893	6032	6127	6096	6060
Wt. of Mold (gm)	4220	4220	4220	4220	4220
Wt. of WS	1673	1813	1908	1876	1841
Mold Volume (cc)	940	940	940	940	940

Moisture Content / Density

Tare Number	P-8	B-5	SS-5	F-1	SS-4
Wt. of Tare & WS (gm)	550.03	530.19	748.09	670.61	427.87
Wt. of Tare & DS (gm)	504.28	476.80	653.47	574.15	366.81
Wt. of Tare (gm)	98.84	98.11	100.71	98.24	100.53
Wt. of Water (gm)	45.75	53.39	94.62	96.46	61.06
Wt. of DS (gm)	405.44	378.69	552.76	475.91	266.28

Wet Density (gm/cc)	1.78	1.93	2.03	2.00	1.96
Wet Density (pcf)	111.0	120.3	126.6	124.5	122.2
Moisture Content (%)	11.3	14.1	17.1	20.3	22.9
Dry Density (pcf)	99.8	105.4	108.1	103.5	99.4

Zero Air Voids

Moisture Content (%)	17.1	20.3	22.9
Dry Unit Weight (pcf)	115.2	108.9	104.1

Tested By JB Date 10/11/2004 Checked By MBS Date 10-13-04

MOISTURE CONTENT
ASTM D 2216 (SOP-S1)

Client THALLE CONSTRUCTION CO., INC.
 Client Reference N.WAKE SBTL. D PHASE 1 CLOSURE
 Project No. 2004-547-08

Lab ID	.001	.002	.003	.004	.005
Boring No.	PROT.COV.	PROT.COV.	PROT.COV.	PROT.COV.	PROT.COV.
Depth (ft)	NA	NA	NA	NA	NA
Sample No.	36-40K	40-44K	44-48K	48-52K	52-56K
Tare Number	Z-14	F-4	Y-6	SS-2	Y-11
Wt. of Tare & WS (gm)	366.35	360.20	337.24	310.82	320.88
Wt. of Tare & DS (gm)	323.08	301.65	300.23	274.57	285.84
Wt. of Tare (gm)	100.78	100.49	100.65	100.50	99.88
Wt. of Water (gm)	43.27	58.55	37.01	36.25	35.04
Wt. of DS (gm)	222.3	201.16	199.58	174.07	185.96
Water Content (%)	19.5	29.1	18.5	20.8	18.8

Lab ID	.006	.007
Boring No.	PROT.COV.	PROT.COV.
Depth (ft)	NA	NA
Sample No.	56-60K	60-64K
Tare Number	Y-1	A-5
Wt. of Tare & WS (gm)	307.58	340.85
Wt. of Tare & DS (gm)	271.47	300.31
Wt. of Tare (gm)	99.59	99.63
Wt. of Water (gm)	36.11	40.54
Wt. of DS (gm)	171.88	200.68
Water Content (%)	21.0	20.2

Notes : NA

ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client	THALLE CONSTRUCTION CO., INC	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	52-56K
Lab ID	2004-547-08-05	Soil Description	RED LEAN CLAY

Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description. (Minus No. 40 sieve material, Airdried)

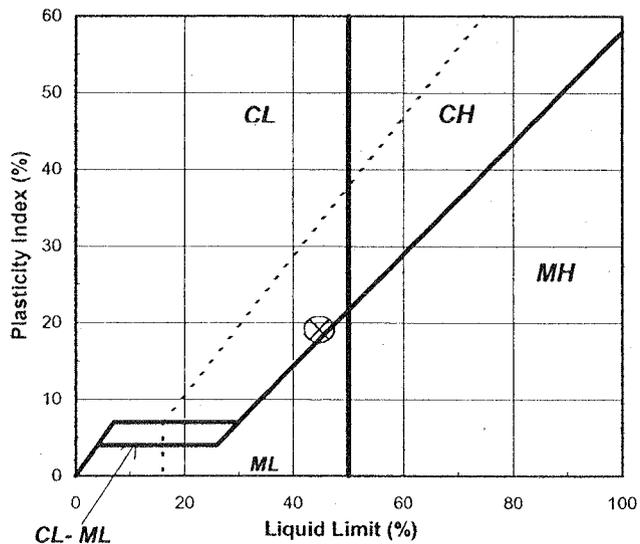
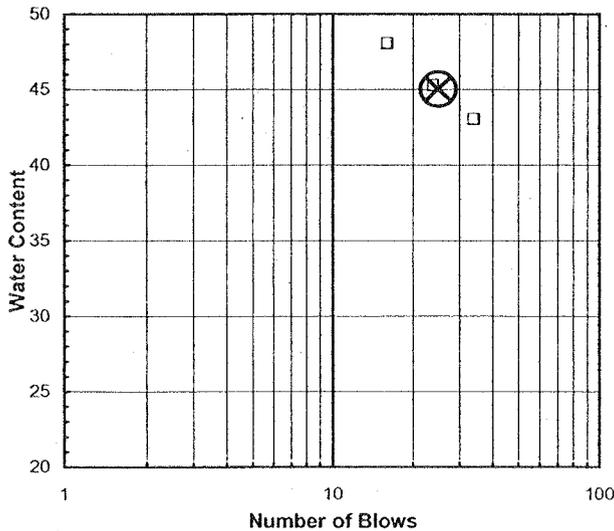
Liquid Limit Test	1	2	3	M U L T I P O I N T
Tare Number	A-N	A-G	L	
Wt. of Tare & WS (gm)	33.19	33.64	31.95	
Wt. of Tare & DS (gm)	27.45	28.02	26.94	
Wt. of Tare (gm)	15.50	15.60	15.29	
Wt. of Water (gm)	5.7	5.6	5.0	
Wt. of DS (gm)	12.0	12.4	11.7	
Moisture Content (%)	48.0	45.2	43.0	
Number of Blows	16	24	34	

Plastic Limit Test	1	2	Range	Test Results
Tare Number	A-I	B		Liquid Limit (%) 45
Wt. of Tare & WS (gm)	24.35	24.38		Plastic Limit (%) 26
Wt. of Tare & DS (gm)	22.52	22.50		Plasticity Index (%) 19
Wt. of Tare (gm)	15.49	15.23		USCS Symbol CL
Wt. of Water (gm)	1.8	1.9		
Wt. of DS (gm)	7.0	7.3		
Moisture Content (%)	26.0	25.9	0.2	

Note: The acceptable range of the two Moisture contents is ± 2.6

Flow Curve

Plasticity Chart



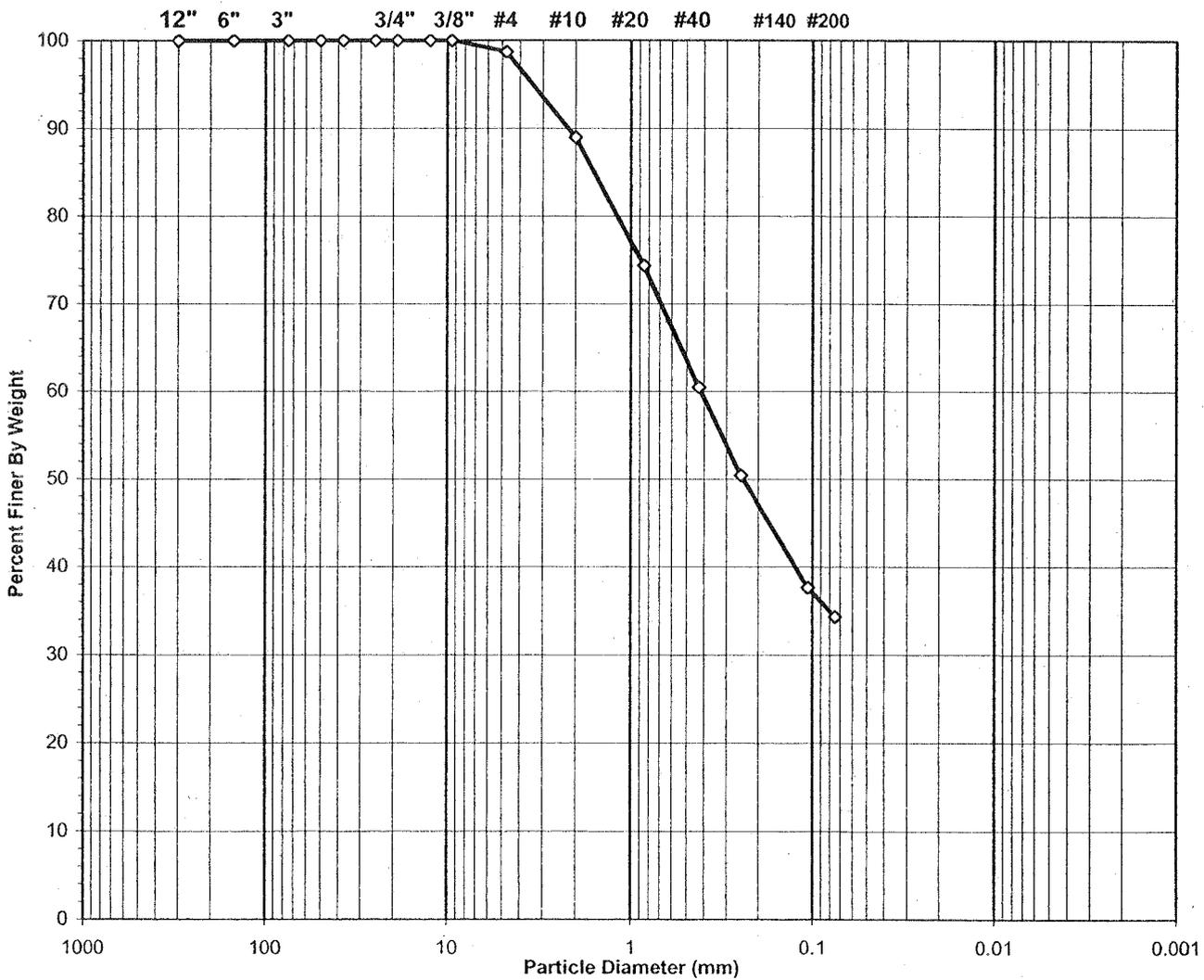
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SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT.COV.
Client Reference	N.WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	52-56K
Lab ID	2004-547-08-05	Soil Color	RED

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol **SC, TESTED**

USCS Classification **CLAYEY SAND**

Tested By MW Date 10/8/2004 Checked By *Gen* Date 10-13-04



WASH SIEVE ANALYSIS

ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT.COV.
Client Reference	N.WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	52-56K
Lab ID	2004-547-08-05	Soil Color	RED

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	K-2	Tare No.	NA
Wgt.Tare + Wet Specimen (gm)	698.77	Wgt.Tare + Wet Specimen (gm)	NA
Wgt.Tare + Dry Specimen (gm)	678.85	Wgt.Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	152.39	Weight of Tare (gm)	NA
Weight of Water (gm)	19.92	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	526.46	Weight of Dry Soil (gm)	NA
Moisture Content (%)	3.8	Moisture Content (%)	NA

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	526.46
Dry Weight - 3/4" Sample (gm)	345.8	Weight of minus #200 material (gm)	180.62
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	345.84
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.50	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	6.87	1.3	1.3	98.7	98.7
#10	2.00	51.26	9.7	11.0	89.0	89.0
#20	0.850	76.90	14.6	25.6	74.4	74.4
#40	0.425	73.16	13.9	39.5	60.5	60.5
#60	0.250	52.85	10.0	49.6	50.4	50.4
#140	0.106	67.30	12.8	62.4	37.6	37.6
#200	0.075	17.50	3.3	65.7	34.3	34.3
Pan	-	180.62	34.3	100.0	-	-

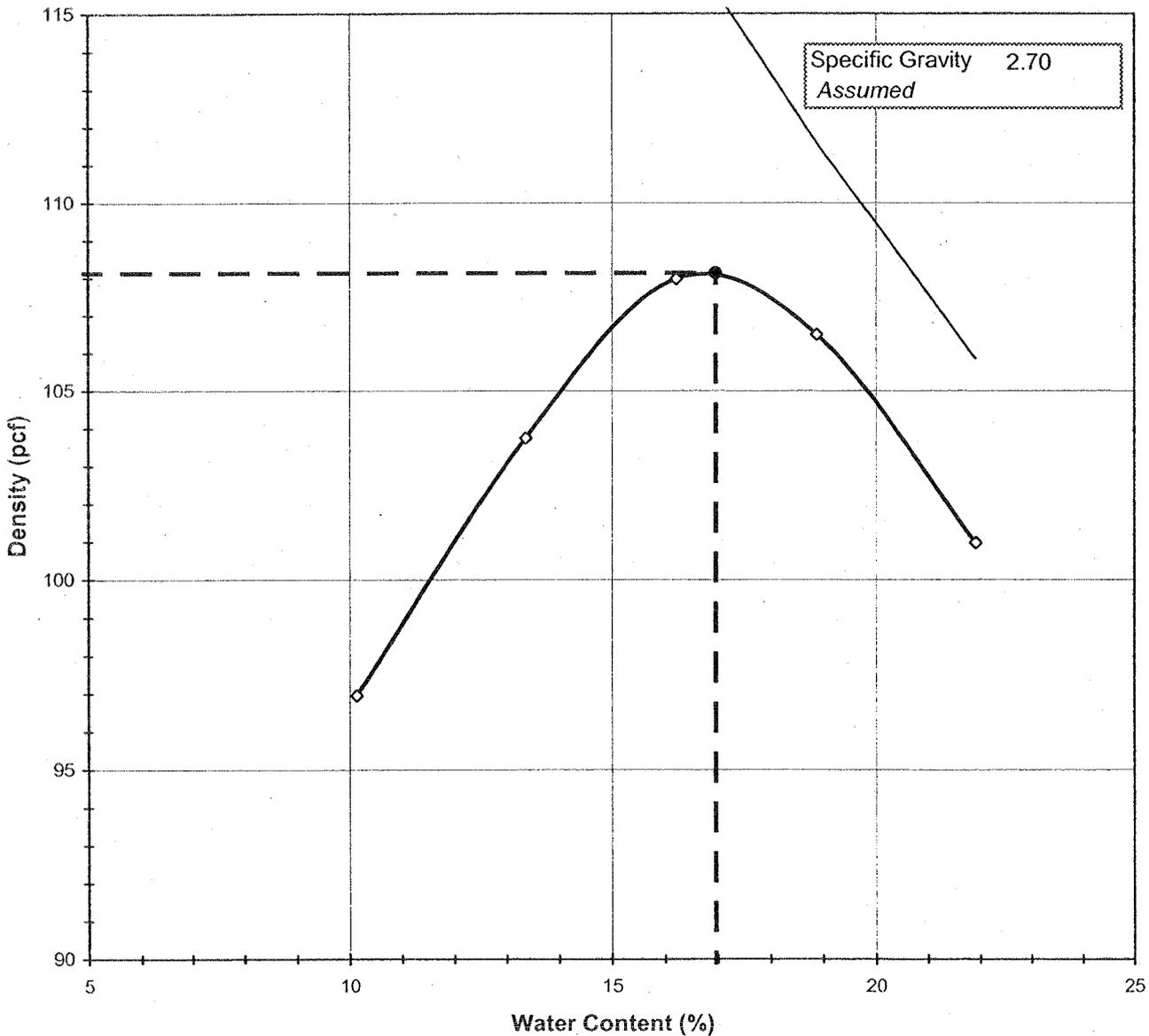
Tested By **MW** Date **10/8/2004** Checked By **GEM** Date **10-13-04**

MOISTURE DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT.COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	52-56K
Lab ID	2004-547-08-05	Test Method	STANDARD
Visual Description	RED CLAYEY SAND		

Optimum Water Content 17.0
Maximum Dry Density 108.1



Tested By JRB Date 10/12/2004 Checked By MMS Date 10-13-04

MOISTURE - DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT.COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	52-56K
Lab ID	2004-547-08-05		

Visual Description RED CLAYEY SAND

Total Weight of the Sample (gm)	13649
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	NA
Percent Retained on 3/8"	0
Percent Retained on #4	0
Oversize Material	Not included
Procedure Used	A

TestType	STANDARD
Rammer Weight (lbs)	5.5
Rammer Drop (in)	12
Rammer Type	MECHANICAL
Machine ID	R174
Mold ID	R172
Mold diameter	4"
Weight of the Mold	4220
Volume of the Mold(cc)	940

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	5829	5991	6110	6127	6074
Wt. of Mold (gm)	4220	4220	4220	4220	4220
Wt. of WS	1609	1772	1891	1908	1855
Mold Volume (cc)	940	940	940	940	940

Moisture Content / Density

Tare Number	SS-1	SS-2	SS-5	SS-7	SS-8
Wt. of Tare & WS (gm)	395.84	415.02	471.94	434.74	393.72
Wt. of Tare & DS (gm)	368.66	377.96	420.14	381.40	340.66
Wt. of Tare (gm)	100.56	100.46	100.58	98.87	98.59
Wt. of Water (gm)	27.18	37.06	51.80	53.34	53.06
Wt. of DS (gm)	268.10	277.50	319.56	282.53	242.07

Wet Density (gm/cc)	1.71	1.88	2.01	2.03	1.97
Wet Density (pcf)	106.8	117.6	125.5	126.6	123.1
Moisture Content (%)	10.1	13.4	16.2	18.9	21.9
Dry Density (pcf)	97.0	103.7	108.0	106.5	101.0

Zero Air Voids

Moisture Content (%)	16.2	18.9	21.9
Dry Unit Weight (pcf)	117.2	111.6	105.8

Tested By JRB Date 10/12/2004 Checked By MMJ Date 10-13-04

MOISTURE CONTENT

ASTM D 2216 (SOP-S1)

Client THALLE CONSTRUCTION CO., INC.
Client Reference N.WAKE SBTL. D PHASE 1 CLOSURE
Project No. 2004-547-08

Lab ID	.001	.002	.003	.004	.005
Boring No.	PROT.COV.	PROT.COV.	PROT.COV.	PROT.COV.	PROT.COV.
Depth (ft)	NA	NA	NA	NA	NA
Sample No.	36-40K	40-44K	44-48K	48-52K	52-56K
Tare Number	Z-14	F-4	Y-6	SS-2	Y-11
Wt. of Tare & WS (gm)	366.35	360.20	337.24	310.82	320.88
Wt. of Tare & DS (gm)	323.08	301.65	300.23	274.57	285.84
Wt. of Tare (gm)	100.78	100.49	100.65	100.50	99.88
Wt. of Water (gm)	43.27	58.55	37.01	36.25	35.04
Wt. of DS (gm)	222.3	201.16	199.58	174.07	185.96
Water Content (%)	19.5	29.1	18.5	20.8	18.8

Lab ID	.006	.007
Boring No.	PROT.COV.	PROT.COV.
Depth (ft)	NA	NA
Sample No.	56-60K	60-64K
Tare Number	Y-1	A-5
Wt. of Tare & WS (gm)	307.58	340.85
Wt. of Tare & DS (gm)	271.47	300.31
Wt. of Tare (gm)	99.59	99.63
Wt. of Water (gm)	36.11	40.54
Wt. of DS (gm)	171.88	200.68
Water Content (%)	21.0	20.2

Notes : NA

Tested By MW Date 09/30/04 Checked By *com* Date 10-5-04

ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client	THALLE CONSTRUCTION CO., INC	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	56-60K
Lab ID	2004-547-08-06	Soil Description	RED LEAN CLAY

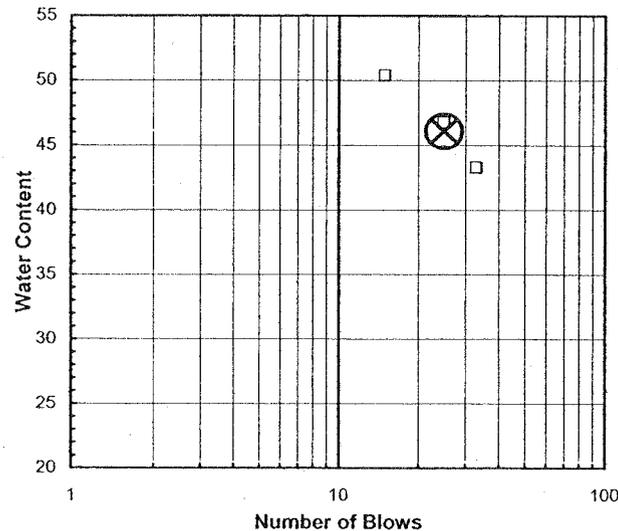
Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description.

Liquid Limit Test	1	2	3	
Tare Number	A-K	H	A-Q	M
Wt. of Tare & WS (gm)	30.83	30.84	33.63	U
Wt. of Tare & DS (gm)	25.72	25.84	28.17	L
Wt. of Tare (gm)	15.57	15.13	15.55	T
Wt. of Water (gm)	5.1	5.0	5.5	I
Wt. of DS (gm)	10.2	10.7	12.6	P
				O
				I
Moisture Content (%)	50.3	46.7	43.3	N
Number of Blows	15	25	33	T

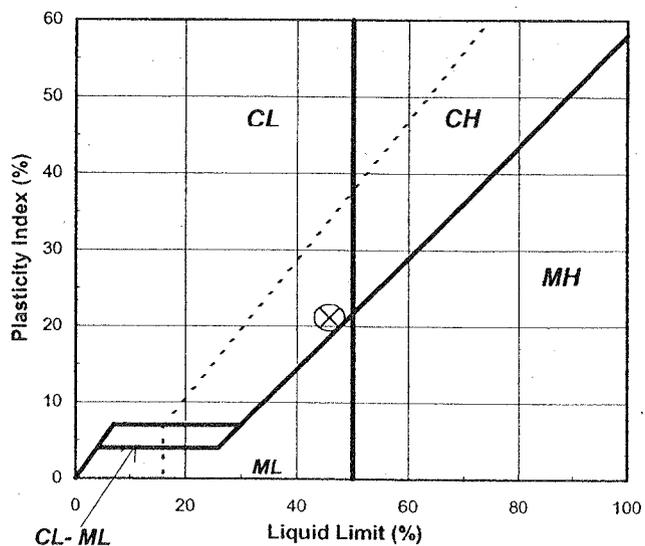
Plastic Limit Test	1	2	Range	Test Results	
Tare Number	A-T	B-B		Liquid Limit (%)	46
Wt. of Tare & WS (gm)	23.93	24.29		Plastic Limit (%)	25
Wt. of Tare & DS (gm)	22.25	22.53		Plasticity Index (%)	21
Wt. of Tare (gm)	15.61	15.60		USCS Symbol	CL
Wt. of Water (gm)	1.7	1.8			
Wt. of DS (gm)	6.6	6.9			
Moisture Content (%)	25.3	25.4	-0.1		

Note: The acceptable range of the two Moisture contents is ± 2.6

Flow Curve



Plasticity Chart



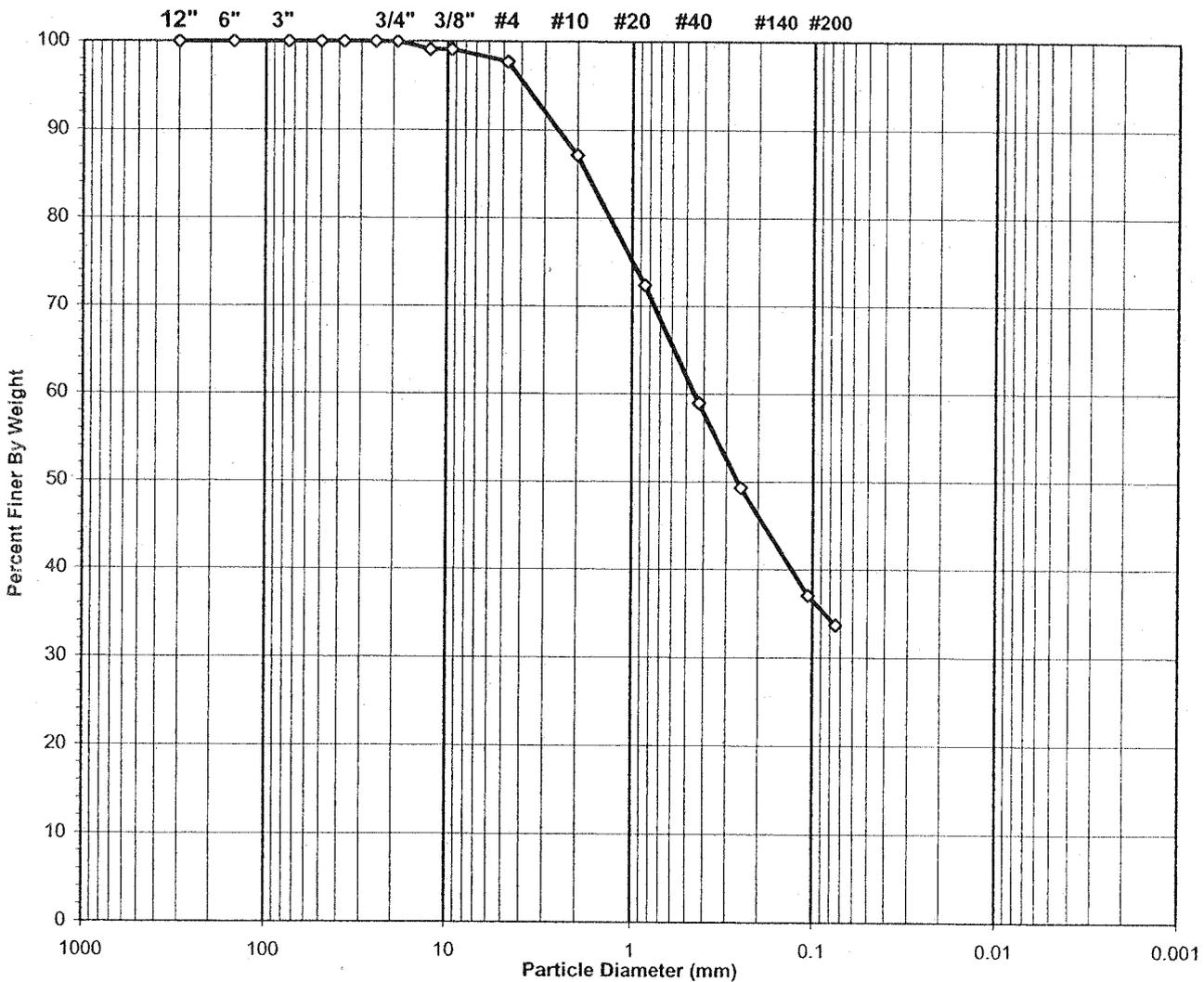
Tested By MW Date 10/11/04 Checked By [Signature] Date 10-13-04



SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT.COV.
Client Reference	N.WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	56-60K
Lab ID	2004-547-08-06	Soil Color	RED

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol **SC, TESTED**

USCS Classification **CLAYEY SAND**

Tested By MW Date 10/8/2004 Checked By *GEM* Date 10-13-04



WASH SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT.COV.
Client Reference	N.WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	56-60K
Lab ID	2004-547-08-06	Soil Color	RED

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	G-13	Tare No.	NA
Wgt.Tare + Wet Specimen (gm)	724.49	Wgt.Tare + Wet Specimen (gm)	NA
Wgt.Tare + Dry Specimen (gm)	618.48	Wgt.Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	153.25	Weight of Tare (gm)	NA
Weight of Water (gm)	106.01	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	465.23	Weight of Dry Soil (gm)	NA
Moisture Content (%)	22.8	Moisture Content (%)	NA

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	465.23
Dry Weight - 3/4" Sample (gm)	308.5	Weight of minus #200 material (gm)	156.74
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	308.49
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt.of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.50	4.25	0.9	0.9	99.1	99.1
3/8"	9.50	0.00	0.0	0.9	99.1	99.1
#4	4.75	6.41	1.4	2.3	97.7	97.7
#10	2.00	49.21	10.6	12.9	87.1	87.1
#20	0.850	68.65	14.8	27.6	72.4	72.4
#40	0.425	62.36	13.4	41.0	59.0	59.0
#60	0.250	44.97	9.7	50.7	49.3	49.3
#140	0.106	57.10	12.3	63.0	37.0	37.0
#200	0.075	15.54	3.3	66.3	33.7	33.7
Pan	-	156.74	33.7	100.0	-	-

Tested By MW Date 10/8/2004 Checked By *Gen* Date 10-13-04



MOISTURE - DENSITY RELATIONSHIP
ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT.COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	56-60K
Lab ID	2004-547-08-06		

Visual Description BROWN CLAYEY SAND

Total Weight of the Sample (gm)	15301
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	NA
Percent Retained on 3/8"	0
Percent Retained on #4	0
Oversize Material	Not included
Procedure Used	A

TestType	STANDARD
Rammer Weight (lbs)	5.5
Rammer Drop (in)	12
Rammer Type	MECHANICAL
Machine ID	R174
Mold ID	R172
Mold diameter	4"
Weight of the Mold	4220
Volume of the Mold(cc)	940

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	5926	6060	6133	6085	6043
Wt. of Mold (gm)	4220	4220	4220	4220	4220
Wt. of WS	1706	1840	1914	1866	1823
Mold Volume (cc)	940	940	940	940	940

Moisture Content / Density

Tare Number	Y-3	Y-4	Y-5	Y-6	Y-11
Wt. of Tare & WS (gm)	332.93	411.92	404.70	385.27	452.28
Wt. of Tare & DS (gm)	308.24	371.89	359.69	335.05	383.24
Wt. of Tare (gm)	101.33	100.06	100.63	100.62	99.90
Wt. of Water (gm)	24.69	40.03	45.01	50.22	69.04
Wt. of DS (gm)	206.91	271.83	259.06	234.43	283.34

Wet Density (gm/cc)	1.81	1.96	2.04	1.98	1.94
Wet Density (pcf)	113.2	122.1	127.0	123.8	121.0
Moisture Content (%)	11.9	14.7	17.4	21.4	24.4
Dry Density (pcf)	101.2	106.4	108.2	102.0	97.3

Zero Air Voids

Moisture Content (%)	17.4	21.4	24.4
Dry Unit Weight (pcf)	114.7	106.7	101.6

Tested By JB Date 10/14/2004 Checked By MBS Date 10-15-04



MOISTURE CONTENT

ASTM D 2216 (SOP-S1)

Client THALLE CONSTRUCTION CO., INC.
 Client Reference N.WAKE SBTL. D PHASE 1 CLOSURE
 Project No. 2004-547-08

Lab ID	.001	.002	.003	.004	.005
Boring No.	PROT.COV.	PROT.COV.	PROT.COV.	PROT.COV.	PROT.COV.
Depth (ft)	NA	NA	NA	NA	NA
Sample No.	36-40K	40-44K	44-48K	48-52K	52-56K
Tare Number	Z-14	F-4	Y-6	SS-2	Y-11
Wt. of Tare & WS (gm)	366.35	360.20	337.24	310.82	320.88
Wt. of Tare & DS (gm)	323.08	301.65	300.23	274.57	285.84
Wt. of Tare (gm)	100.78	100.49	100.65	100.50	99.88
Wt. of Water (gm)	43.27	58.55	37.01	36.25	35.04
Wt. of DS (gm)	222.3	201.16	199.58	174.07	185.96
Water Content (%)	19.5	29.1	18.5	20.8	18.8

Lab ID	.006	.007
Boring No.	PROT.COV.	PROT.COV.
Depth (ft)	NA	NA
Sample No.	56-60K	60-64K
Tare Number	Y-1	A-5
Wt. of Tare & WS (gm)	307.58	340.85
Wt. of Tare & DS (gm)	271.47	300.31
Wt. of Tare (gm)	99.59	99.63
Wt. of Water (gm)	36.11	40.54
Wt. of DS (gm)	171.88	200.68
Water Content (%)	21.0	20.2

Notes: NA

ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client	THALLE CONSTRUCTION CO., INC	Boring No.	PROT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	60-64K
Lab ID	2004-547-08-07	Soil Description	REDDISH BROWN SILT

Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description.

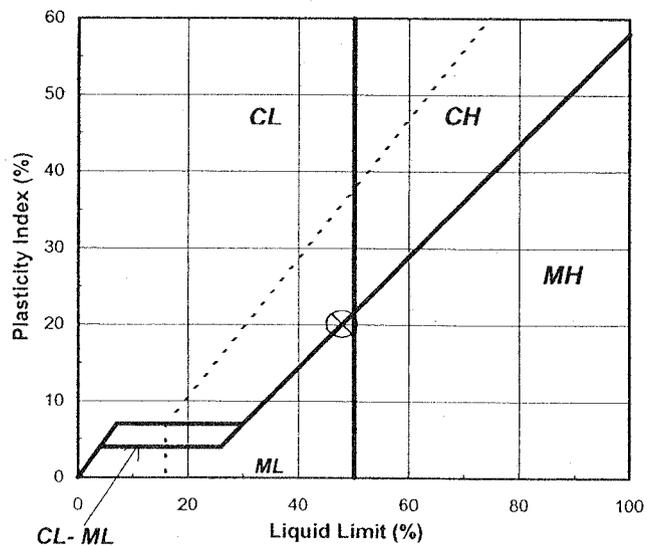
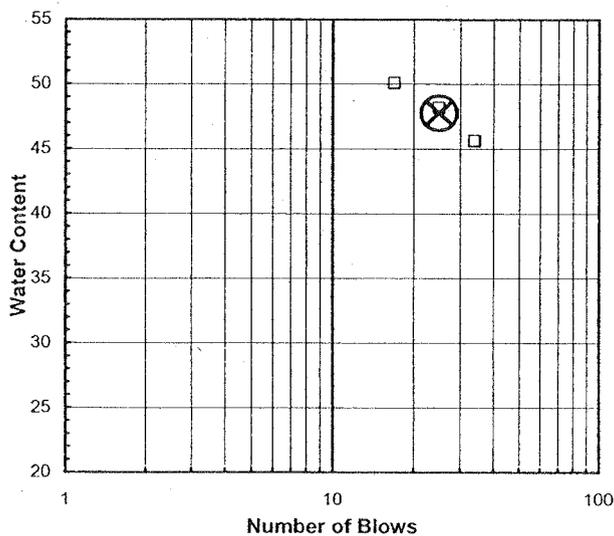
Liquid Limit Test	1	2	3	
Tare Number	KA	P	A-M	M
Wt. of Tare & WS (gm)	30.80	31.97	31.24	U
Wt. of Tare & DS (gm)	25.70	26.54	26.28	L
Wt. of Tare (gm)	15.51	15.26	15.40	T
Wt. of Water (gm)	5.1	5.4	5.0	I
Wt. of DS (gm)	10.2	11.3	10.9	P
Moisture Content (%)	50.0	48.1	45.6	O
Number of Blows	17	25	34	I
				N
				T

Plastic Limit Test	1	2	Range	Test Results
Tare Number	X	A		Liquid Limit (%) 48
Wt. of Tare & WS (gm)	23.96	24.15		Plastic Limit (%) 28
Wt. of Tare & DS (gm)	22.01	22.20		Plasticity Index (%) 20
Wt. of Tare (gm)	15.24	15.26		USCS Symbol ML
Wt. of Water (gm)	2.0	2.0		
Wt. of DS (gm)	6.8	6.9		
Moisture Content (%)	28.8	28.1	0.7	

Note: The acceptable range of the two Moisture contents is ± 2.6

Flow Curve

Plasticity Chart

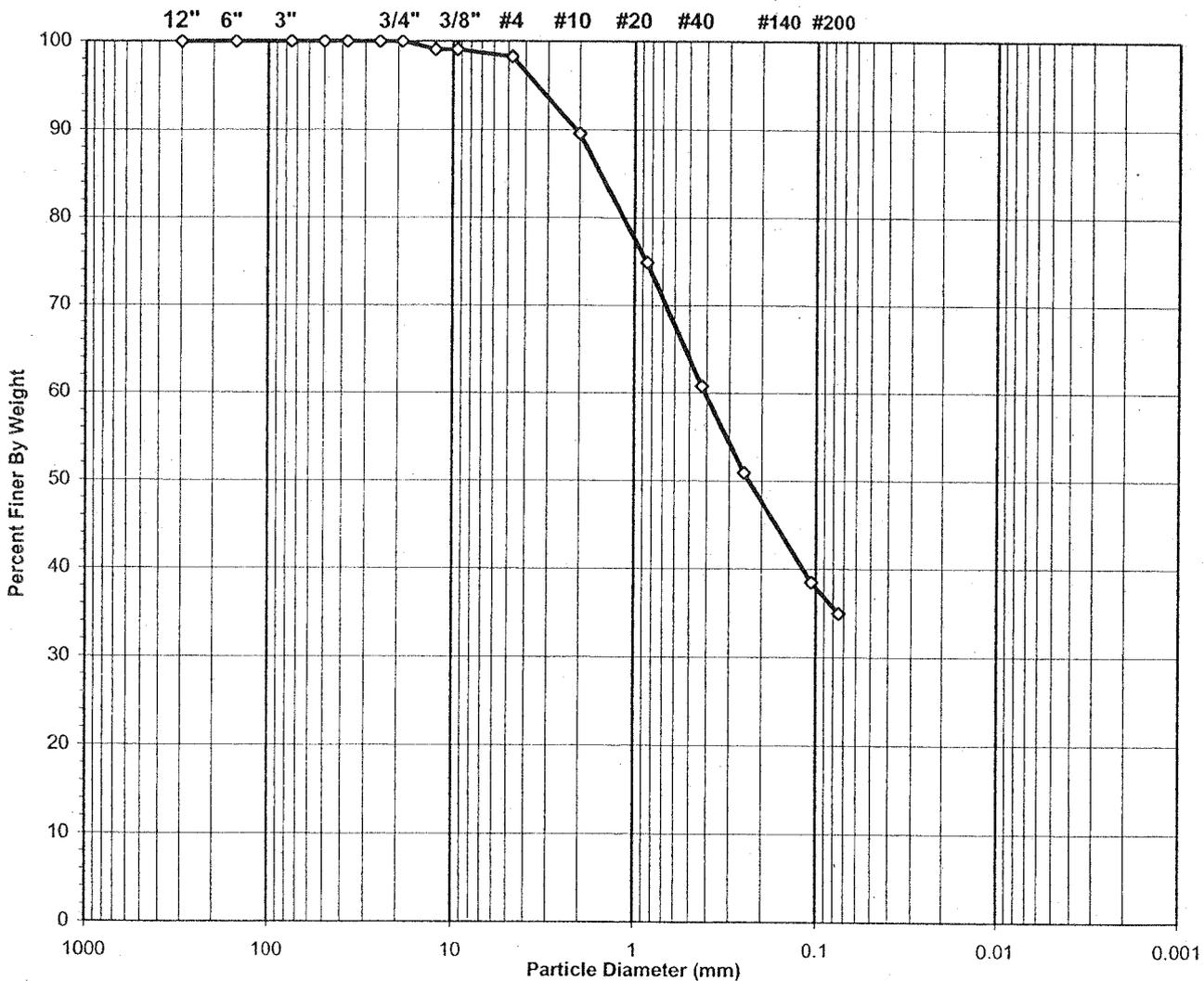


Tested By MW Date 10/11/04 Checked By Gen Date 10-13-04

SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT.COV.
Client Reference	N.WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	60-64
Lab ID	2004-547-08-07	Soil Color	REDDISH BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol **SM, TESTED**

USCS Classification **SILTY SAND**

Tested By MW Date 10/8/2004 Checked By *con* Date 10-13-04



WASH SIEVE ANALYSIS

ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT.COV.
Client Reference	N.WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	60-64
Lab ID	2004-547-08-07	Soil Color	REDDISH BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	G-11	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	681.00	Wgt. Tare + Wet Specimen (gm)	NA
Wgt. Tare + Dry Specimen (gm)	587.46	Wgt. Tare + Dry Specimen (gm)	NA
Weight of Tare (gm)	152.82	Weight of Tare (gm)	NA
Weight of Water (gm)	93.54	Weight of Water (gm)	NA
Weight of Dry Soil (gm)	434.64	Weight of Dry Soil (gm)	NA
Moisture Content (%)	21.5	Moisture Content (%)	NA

Wet Weight -3/4" Sample (gm)	NA	Weight of the Dry Specimen (gm)	434.64
Dry Weight - 3/4" Sample (gm)	282.7	Weight of minus #200 material (gm)	151.93
Wet Weight +3/4" Sample (gm)	NA	Weight of plus #200 material (gm)	282.71
Dry Weight + 3/4" Sample (gm)	0.00		
Total Dry Weight Sample (gm)	NA		

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.50	4.05	0.9	0.9	99.1	99.1
3/8"	9.50	0.00	0.0	0.9	99.1	99.1
#4	4.75	3.55	0.8	1.7	98.3	98.3
#10	2.00	37.78	8.7	10.4	89.6	89.6
#20	0.850	63.77	14.7	25.1	74.9	74.9
#40	0.425	61.37	14.1	39.2	60.8	60.8
#60	0.250	42.85	9.9	49.1	50.9	50.9
#140	0.106	53.92	12.4	61.5	38.5	38.5
#200	0.075	15.42	3.5	65.0	35.0	35.0
Pan	-	151.93	35.0	100.0	-	-

Tested By **MW** Date **10/8/2004** Checked By **GM** Date **10-13-04**



MOISTURE - DENSITY RELATIONSHIP

ASTM D698-91 SOP-S12

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	PROT.COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-08	Sample No.	60-64K
Lab ID	2004-547-08-07		

Visual Description REDDISH BROWN SILTY SAND

Total Weight of the Sample (gm)	15527
As Received Water Content(%)	NA
Assumed Specific Gravity	2.70
Percent Retained on 3/4"	NA
Percent Retained on 3/8"	0
Percent Retained on #4	0
Oversize Material	Not included
Procedure Used	A

TestType	STANDARD
Rammer Weight (lbs)	5.5
Rammer Drop (in)	12
Rammer Type	MECHANICAL
Machine ID	R174
Mold ID	R172
Mold diameter	4"
Weight of the Mold	4220
Volume of the Mold(cc)	940

Mold / Specimen

Point No.	1	2	3	4	5
Wt. of Mold & WS (gm)	5847	6028	6113	6113	6057
Wt. of Mold (gm)	4220	4220	4220	4220	4220
Wt. of WS	1627	1808	1893	1893	1838
Mold Volume (cc)	940	940	940	940	940

Moisture Content / Density

Tare Number	B1	SS-6	ZZ-1	Y-11	SS-1
Wt. of Tare & WS (gm)	486.12	697.04	420.16	486.99	495.47
Wt. of Tare & DS (gm)	450.56	626.42	375.36	423.88	422.67
Wt. of Tare (gm)	100.47	100.96	100.37	99.88	100.59
Wt. of Water (gm)	35.56	70.62	44.80	63.11	72.80
Wt. of DS (gm)	350.09	525.46	274.99	324.00	322.08

Wet Density (gm/cc)	1.73	1.92	2.01	2.01	1.95
Wet Density (pcf)	108.0	120.0	125.6	125.6	122.0
Moisture Content (%)	10.2	13.4	16.3	19.5	22.6
Dry Density (pcf)	98.0	105.8	108.0	105.2	99.5

Zero Air Voids

Moisture Content (%)	16.3	19.5	22.6
Dry Unit Weight (pcf)	117.0	110.4	104.6

Tested By JB Date 10/11/2004 Checked By *MMs* Date 10-13-04

Appendix A-4

Final Cover Field Density Test Summary



Field Density Test Summary

Client: North Wake		Date: _____ 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										
		Troter Gauge No./Type 3440.no.30129										
General Contractor: Thalle		Passing =										
Earthwork Contractor: Thalle		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)				
NWFC-01	Phase I	1+2	onsite borrow	108.2	16.0	12	105.9	123	23	97.9%	P	16.1
NWFC-02	Phase I	1+2	onsite borrow	108.2	16.0	12	106.1	123.1	22	98.1%	P	16
NWFC-03	Phase I	1+2	onsite borrow	108.2	16.0	12	105.4	122	23.2	97.4%	P	15.8
NWFC-04	Phase I	1+2	onsite borrow	108.2	16.0	12	106.2	122.5	23.5	98.1%	P	15.4
NWFC-05	Phase II	1+2	onsite borrow	108.2	16.0	12	105.8	123.1	24	97.8%	P	16.3
NWFC-06	Phase II	1+2	onsite borrow	108.2	16.0	12	105.6	122.4	23.6	97.6%	P	15.9
NWFC-07	Phase II	1+2	onsite borrow	108.2	16.0	12	105.4	122.6	22.1	97.4%	P	16.3
NWFC-08	Phase II	1+2	onsite borrow	108.2	16.0	12	105.0	122.3	23	97.0%	P	16.5
NWFC-09	Phase III	1+2	onsite borrow	108.2	16.0	12	104.9	121.9	22.5	97.0%	P	16.2
NWFC-10	Phase III	1+2	onsite borrow	108.2	16.0	12	105.5	122.4	21.4	97.5%	P	16
NWFC-11	Phase III	1+2	onsite borrow	108.2	16.0	12	105.7	122.7	22.6	97.7%	P	16.1
NWFC-12	Phase III	1+2	onsite borrow	108.2	16.0	12	104.6	122.1	24.2	96.7%	P	16.7
NWFC-13	Phase IV	1+2	onsite borrow	108.2	16.0	12	105.2	122.4	23.1	97.3%	P	16.3
NWFC-14	Phase IV	1+2	onsite borrow	108.2	16.0	12	105.1	122.3	22.1	97.1%	P	16.4
NWFC-15	Phase IV	1+2	onsite borrow	108.2	16.0	12	105.5	122.6	24	97.5%	P	16.2
NWFC-16	Phase IV	1+2	onsite borrow	108.2	16.0	12	105.2	122	23.4	97.2%	P	16
NWFC-17	Phase V	1+2	onsite borrow	108.2	16.0	12	105.8	123.1	22.4	97.8%	P	16.3
NWFC-18	Phase V	1+2	onsite borrow	108.2	16.0	12	105.9	122.7	23.6	97.8%	P	15.9
NWFC-19	Phase V	1+2	onsite borrow	108.2	16.0	12	105.3	122	23.7	97.3%	P	15.9
NWFC-20	Phase V	1+2	onsite borrow	108.2	16.0	12	105.5	122.1	22.4	97.5%	P	15.7

Appendix A-5

Vegetative Cover Conformance Testing

MOISTURE CONTENT
ASTM D 2216 (SOP-S1)

Client THALLE CONSTRUCTION CO., INC.
Client Reference N.WAKE SBTL. D PHASE 1 CLOSURE
Project No. 2004-547-07

Lab ID	.001	.002	.003	.004	.005
Boring No.	VEGIT.COV.	VEGIT.COV.	VEGIT.COV.	PROT.COV.	PROT.COV.
Depth (ft)	NA	NA	NA	NA	NA
Sample No.	8-12K	12-16K	16-20K	16-20K	20-24K
Tare Number	H-5	A-A	K-3	K-2	G-13
Wt. of Tare & WS (gm)	943.90	934.52	729.34	745.22	764.43
Wt. of Tare & DS (gm)	869.24	858.72	660.92	607.95	622.52
Wt. of Tare (gm)	152.10	152.60	152.20	152.27	153.15
Wt. of Water (gm)	74.66	75.8	68.42	137.27	141.91
Wt. of DS (gm)	717.14	706.12	508.72	455.68	469.37
Water Content (%)	10.4	10.7	13.4	30.1	30.2

Lab ID	.006	.007	.008	.009	.010
Boring No.	PROT.COV.	PROT.COV.	PROT.COV.	INTERM.COV.	INTERM.COV.
Depth (ft)	NA	NA	NA	NA	NA
Sample No.	24-28K	28-32K	32-36K	4-8K	20-24K
Tare Number	H-3	A-A	G-5	H-4	H-3
Wt. of Tare & WS (gm)	728.60	776.40	792.15	711.30	788.25
Wt. of Tare & DS (gm)	594.20	633.40	725.07	625.21	670.26
Wt. of Tare (gm)	151.15	152.57	148.73	152.07	151.29
Wt. of Water (gm)	134.4	143	67.08	86.09	117.99
Wt. of DS (gm)	443.05	480.83	576.34	473.14	518.97
Water Content (%)	30.3	29.7	11.6	18.2	22.7

Notes : NA

Tested By MW Date 9/24/2004 Checked By *AMS* Date 10-4-04

ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	VEGIT. COV.
Client Reference	N.WAKE SBTL. D PHS.1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	8-12K
Lab ID	2004-547-07-01	Soil Description	REDDISH BROWN LEAN CLAY (Minus No. 40 sieve material, Wet method)

Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description.

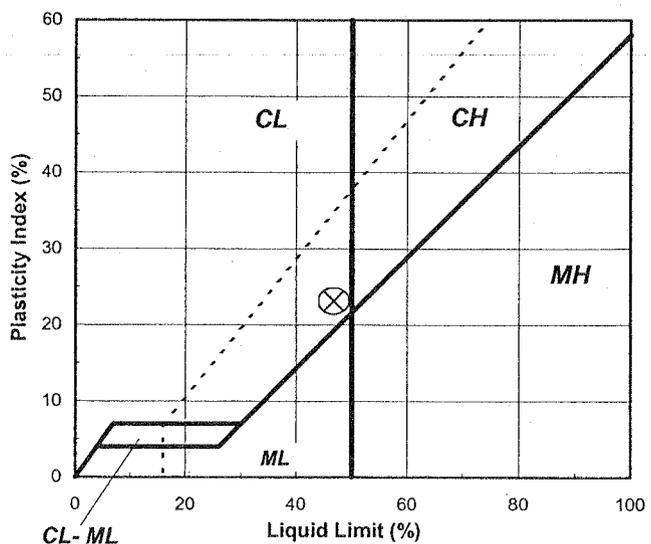
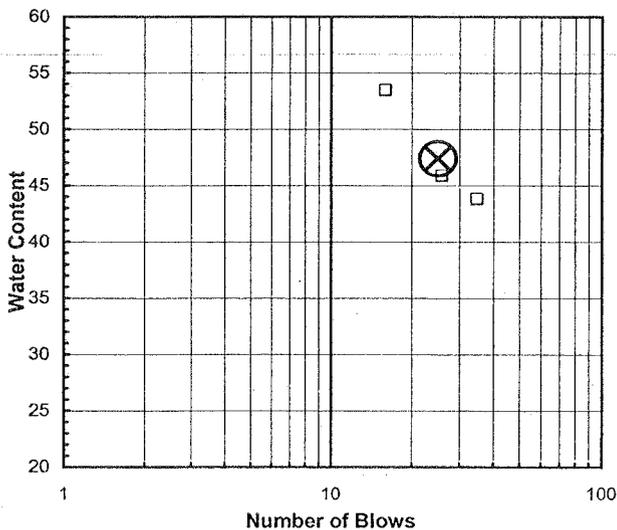
Liquid Limit Test	1	2	3	
Tare Number	A-C	J	A-L	M U L T I P O I N T
Wt. of Tare & WS (gm)	31.13	31.32	30.80	
Wt. of Tare & DS (gm)	25.71	26.24	26.14	
Wt. of Tare (gm)	15.57	15.16	15.50	
Wt. of Water (gm)	5.4	5.1	4.7	
Wt. of DS (gm)	10.1	11.1	10.6	
Moisture Content (%)	53.5	45.8	43.8	
Number of Blows	16	26	35	T

Plastic Limit Test	1	2	Range	Test Results	
Tare Number	F	U		Liquid Limit (%)	47
Wt. of Tare & WS (gm)	23.59	23.57		Plastic Limit (%)	24
Wt. of Tare & DS (gm)	22.04	21.94		Plasticity Index (%)	23
Wt. of Tare (gm)	15.25	15.25		USCS Symbol	CL
Wt. of Water (gm)	1.6	1.6			
Wt. of DS (gm)	6.8	6.7			
Moisture Content (%)	22.8	24.4	-1.5		

Note: The acceptable range of the two Moisture contents is ± 2.6

Flow Curve

Plasticity Chart



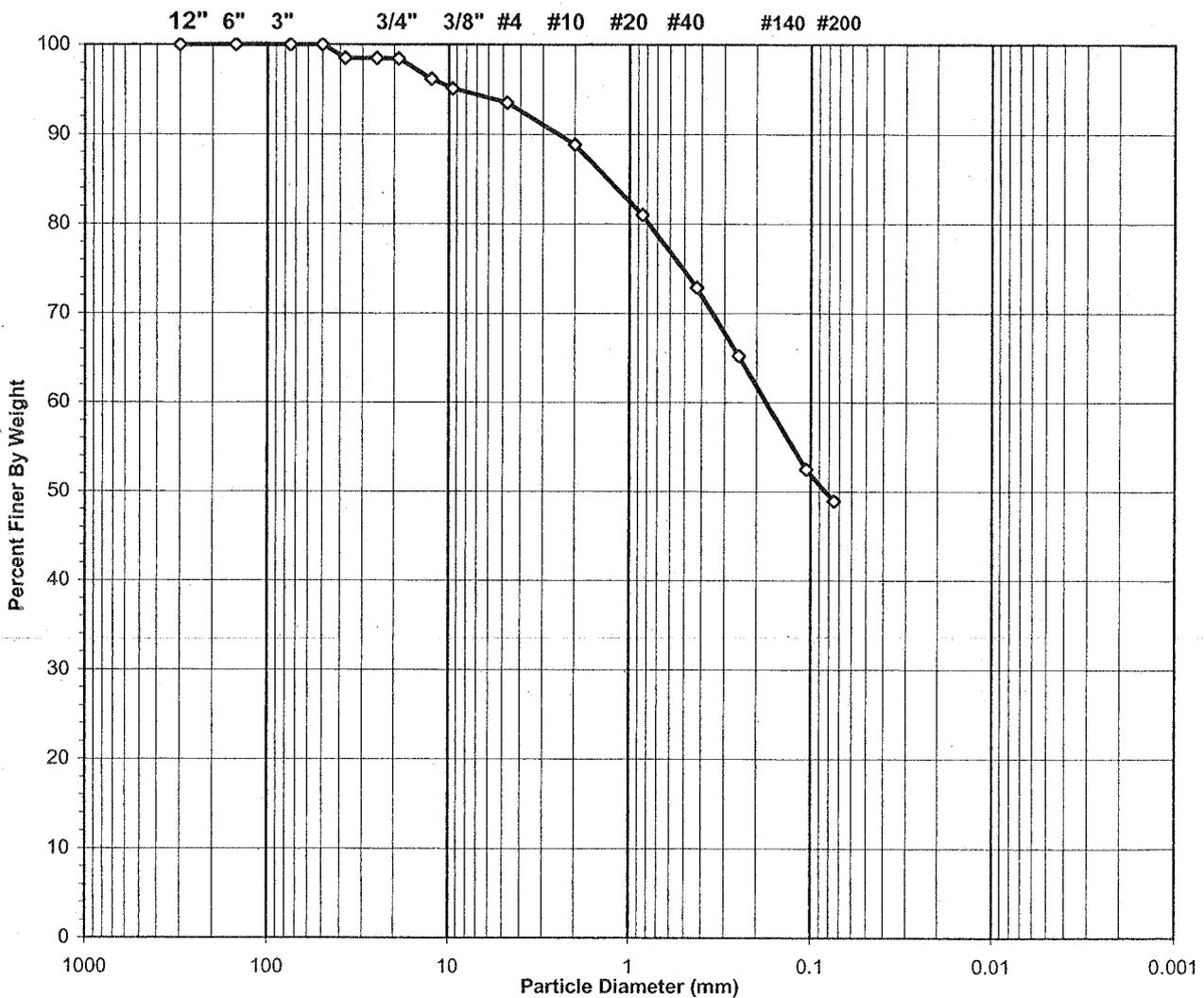
Tested By **MW** Date **09/24/04** Checked By **GSM** Date **9-30-04**

page 1 of 1 DCN: CT-S4B DATE: 10/08/01 REVISION: 2

SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	VEGIT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	8-12K
Lab ID	2004-547-07-01	Soil Color	REDDISH BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol **SC, TESTED**

USCS Classification **CLAYEY SAND**

Tested By MW Date 09/23/04 Checked By Date

WASH SIEVE ANALYSIS

ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	VEGIT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	8-12K
Lab ID	2004-547-07-01	Soil Color	REDDISH BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	H-5	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	943.90	Wgt. Tare + Wet Specimen (gm)	222.61
Wgt. Tare + Dry Specimen (gm)	869.24	Wgt. Tare + Dry Specimen (gm)	222.61
Weight of Tare (gm)	152.10	Weight of Tare (gm)	0.00
Weight of Water (gm)	74.66	Weight of Water (gm)	0.00
Weight of Dry Soil (gm)	717.14	Weight of Dry Soil (gm)	222.61
Moisture Content (%)	10.4	Moisture Content (%)	0.0

Wet Weight - 3/4" Sample (gm)	15298.7	Weight of the Dry Specimen (gm)	717.14
Dry Weight - 3/4" Sample (gm)	13856.2	Weight of minus #200 material (gm)	356.26
Wet Weight + 3/4" Sample (gm)	222.61	Weight of plus #200 material (gm)	360.88
Dry Weight + 3/4" Sample (gm)	222.61		
Total Dry Weight Sample (gm)	14078.8	J - Factor (Percent Finer than 3/4")	0.9842

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00 (*)	0.0	0.0	100.0	100.0
1.1/2"	37.5	212.61	1.5	1.5	98.5	98.5
1"	25	0.00	0.0	1.5	98.5	98.5
3/4"	19	10.00	0.1	1.6	98.4	98.4
1/2"	12.5	16.46	2.3	2.3	97.7	96.2
3/8"	9.5	7.86	1.1	3.4	96.6	95.1
#4	4.75	11.43	1.6	5.0	95.0	93.5
#10	2	34.01	4.7	9.7	90.3	88.8
#20	0.85	57.12 (**)	8.0	17.7	82.3	81.0
#40	0.425	59.19	8.3	25.9	74.1	72.9
#60	0.25	55.84	7.8	33.7	66.3	65.2
#140	0.106	92.86	12.9	46.7	53.3	52.5
#200	0.075	26.11	3.6	50.3	49.7	48.9
Pan	-	356.26	49.7	100.0	-	-

Notes : (*) The + 3/4" sieve analysis is based on the Total Dry Weight of the Sample
 (**) The - 3/4" sieve analysis is based on the Weight of the Dry Specimen

Tested By MW Date 09/23/04 Checked By Gem Date 9-30-04

ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	VEGIT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	12-16K
Lab ID	2004-547-07-02	Soil Description	REDDISH BROWN LEAN CLAY

Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description.

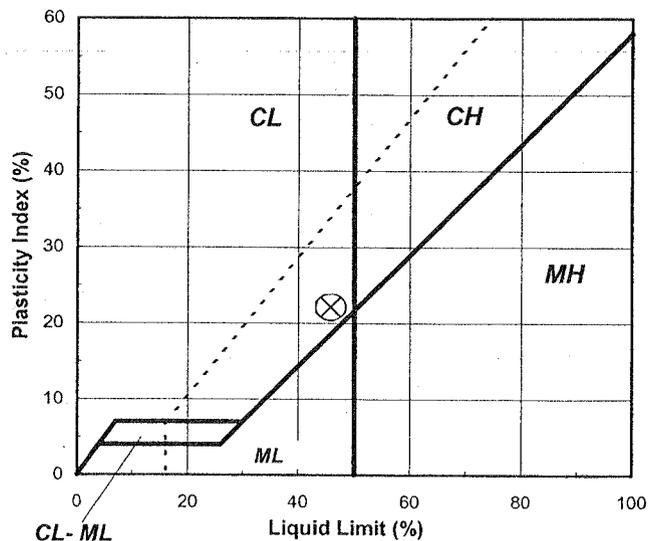
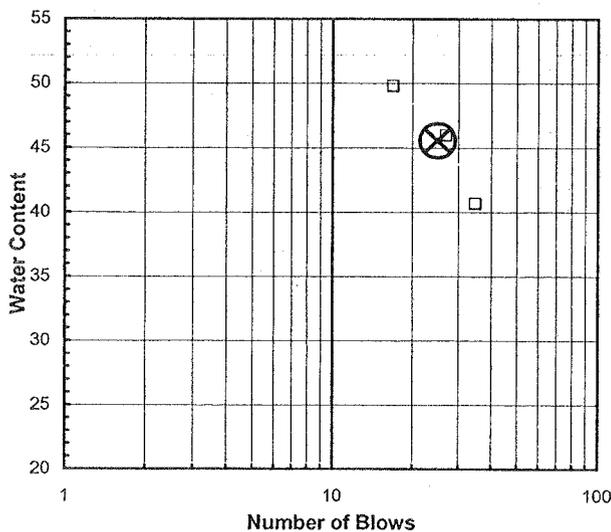
Liquid Limit Test	1	2	3	
Tare Number	H	S	A-P	M
Wt. of Tare & WS (gm)	31.59	32.00	34.01	U
Wt. of Tare & DS (gm)	26.25	26.71	28.70	L
Wt. of Tare (gm)	15.52	15.19	15.63	T
Wt. of Water (gm)	5.3	5.3	5.3	I
Wt. of DS (gm)	10.7	11.5	13.1	P
Moisture Content (%)	49.8	45.9	40.6	O
Number of Blows	17	27	35	N
				T

Plastic Limit Test	1	2	Range	Test Results	
Tare Number	A-K	A-H		Liquid Limit (%)	46
Wt. of Tare & WS (gm)	21.87	21.83		Plastic Limit (%)	24
Wt. of Tare & DS (gm)	20.61	20.67		Plasticity Index (%)	22
Wt. of Tare (gm)	15.55	15.55		USCS Symbol	CL
Wt. of Water (gm)	1.3	1.2			
Wt. of DS (gm)	5.1	5.1			
Moisture Content (%)	24.9	22.7	2.2		

Note: The acceptable range of the two Moisture contents is ± 2.6

Flow Curve

Plasticity Chart



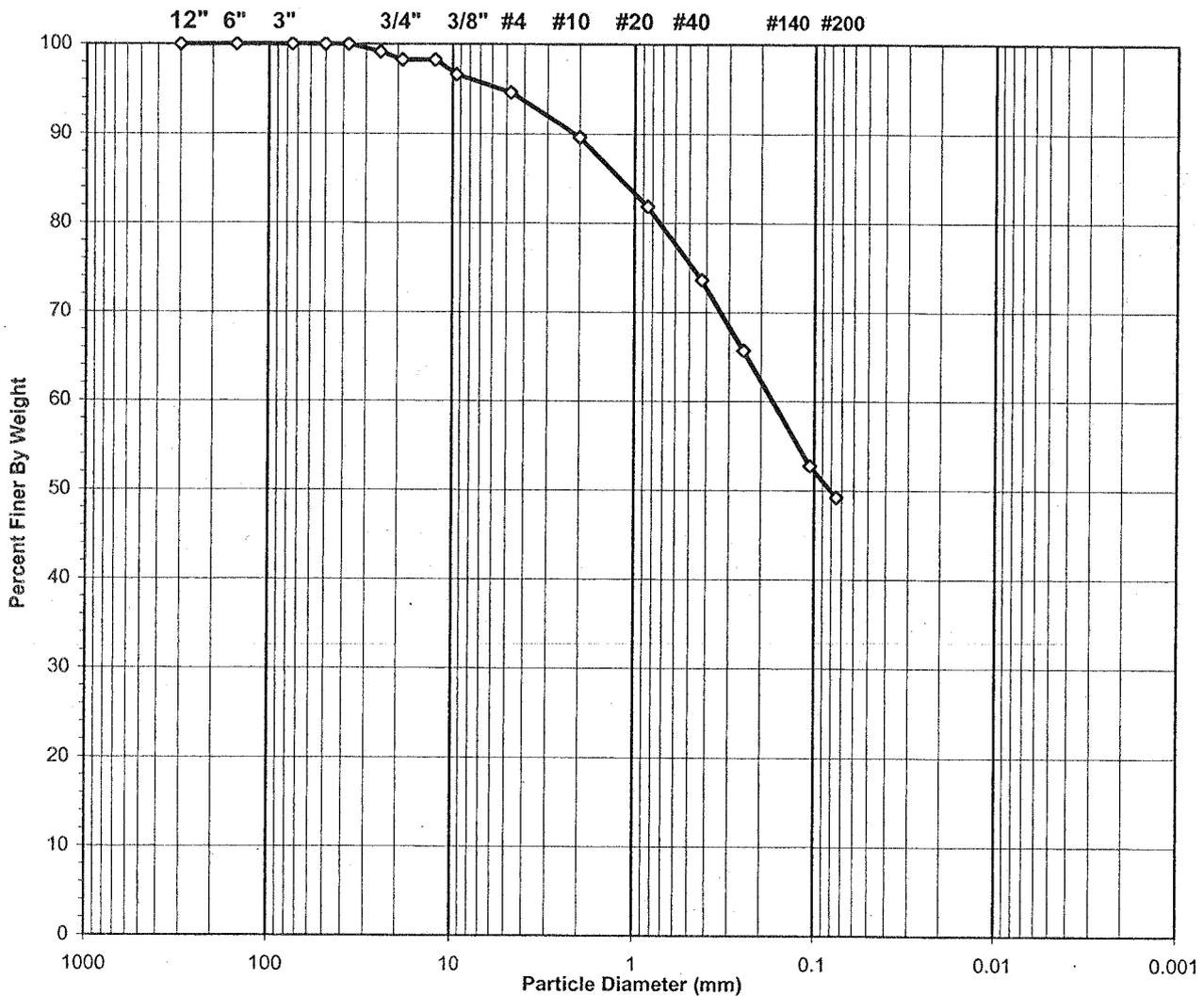
Tested By JDR Date 09/27/04 Checked By Gan Date 9-30-04

page 1 of 1 DCN: CT-S4B DATE: 10/08/01 REVISION: 2

SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	VEGIT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	12K-16K
Lab ID	2004-547-07-02	Soil Color	REDDISH BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol **SC, TESTED**

USCS Classification **CLAYEY SAND**

Tested By MW Date 09/27/04 Checked By *com* Date 9-30-04

WASH SIEVE ANALYSIS

ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	VEGIT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	8 7 12K-16K
Lab ID	2004-547-07-02	Soil Color	REDDISH BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	A-A	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	934.52	Wgt. Tare + Wet Specimen (gm)	246.61
Wgt. Tare + Dry Specimen (gm)	858.72	Wgt. Tare + Dry Specimen (gm)	246.61
Weight of Tare (gm)	152.60	Weight of Tare (gm)	0.00
Weight of Water (gm)	75.80	Weight of Water (gm)	0.00
Weight of Dry Soil (gm)	706.12	Weight of Dry Soil (gm)	246.61
Moisture Content (%)	10.7	Moisture Content (%)	0.0

Wet Weight -3/4" Sample (gm)	15255.82	Weight of the Dry Specimen (gm)	706.12
Dry Weight - 3/4" Sample (gm)	13776.9	Weight of minus #200 material (gm)	353.78
Wet Weight +3/4" Sample (gm)	246.61	Weight of plus #200 material (gm)	352.34
Dry Weight + 3/4" Sample (gm)	246.61		
Total Dry Weight Sample (gm)	14023.5	J - Factor (Percent Finer than 3/4")	0.9824

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25	122.08	0.9	0.9	99.1	99.1
3/4"	19	124.53	0.9	1.8	98.2	98.2
1/2"	12.5	0.00	0.0	0.0	100.0	98.2
3/8"	9.5	11.65	1.6	1.6	98.4	96.6
#4	4.75	14.26	2.0	3.7	96.3	94.6
#10	2	36.16	5.1	8.8	91.2	89.6
#20	0.85	55.76	7.9	16.7	83.3	81.8
#40	0.425	59.17	8.4	25.1	74.9	73.6
#60	0.25	56.85	8.1	33.1	66.9	65.7
#140	0.106	92.97	13.2	46.3	53.7	52.8
#200	0.075	25.52	3.6	49.9	50.1	49.2
Pan	-	353.78	50.1	100.0	-	-

Notes : (*) The + 3/4" sieve analysis is based on the Total Dry Weight of the Sample
(**) The - 3/4" sieve analysis is based on the Weight of the Dry Specimen

Tested By MW Date 09/27/04 Checked By *GM* Date *9-30-04*

ATTERBERG LIMITS

ASTM D 4318-98 / AASHTO T89 (SOP - S4A)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	VEGIT. COV.
Client Reference	N. WAKE SBTL. D PHASE1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	16-20K
Lab ID	2004-547-07-03	Soil Description	REDDISH BROWN LEAN CLAY

Note: The USCS symbol used with this test refers only to the minus No. 40 sieve material. See the "Sieve and Hydrometer Analysis" graph page for the complete material description. (Minus No. 40 sieve material, Wet method)

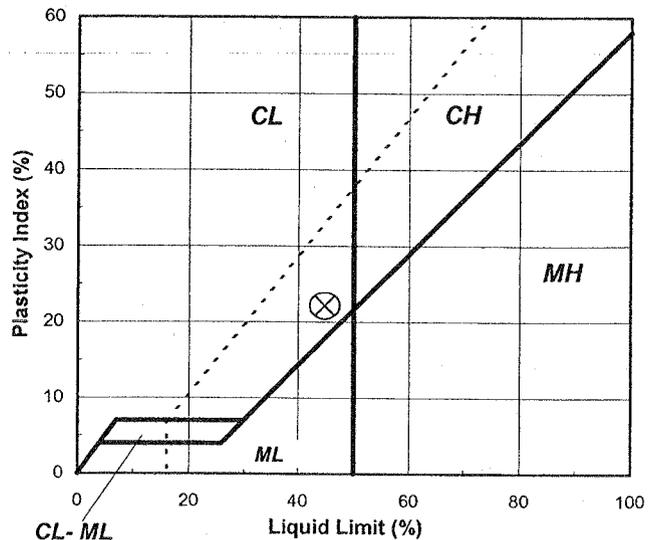
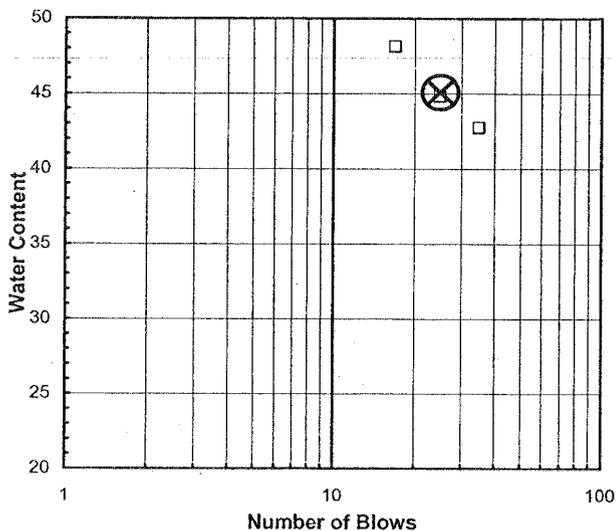
Liquid Limit Test	1	2	3	
Tare Number	G	F	U	M
Wt. of Tare & WS (gm)	31.20	30.41	30.05	U
Wt. of Tare & DS (gm)	25.96	25.72	25.62	L
Wt. of Tare (gm)	15.07	15.25	15.25	T
Wt. of Water (gm)	5.2	4.7	4.4	I
Wt. of DS (gm)	10.9	10.5	10.4	P
Moisture Content (%)	48.1	44.8	42.7	O
Number of Blows	17	25	35	I
				N
				T

Plastic Limit Test	1	2	Range	Test Results	
Tare Number	A-L	A-C		Liquid Limit (%)	45
Wt. of Tare & WS (gm)	21.80	22.27		Plastic Limit (%)	23
Wt. of Tare & DS (gm)	20.60	21.04		Plasticity Index (%)	22
Wt. of Tare (gm)	15.50	15.60		USCS Symbol	CL
Wt. of Water (gm)	1.2	1.2			
Wt. of DS (gm)	5.1	5.4			
Moisture Content (%)	23.5	22.6	0.9		

Note: The acceptable range of the two Moisture contents is ± 2.6

Flow Curve

Plasticity Chart

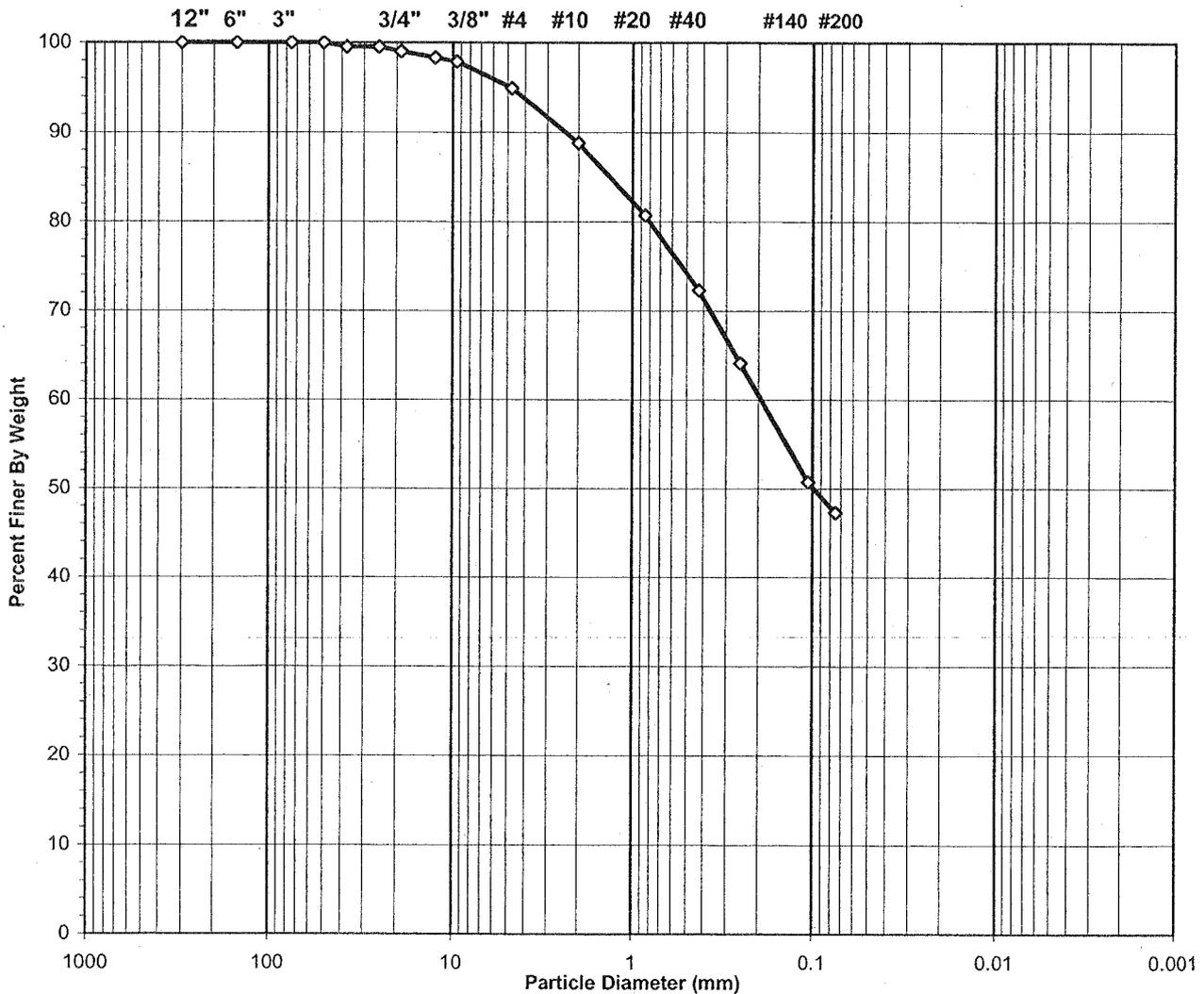


Tested By JDR Date 09/27/04 Checked By GEM Date 9-30-04

SIEVE ANALYSIS
ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	VEGIT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	16-20K
Lab ID	2004-547-07-03	Soil Color	REDDISH BROWN

USCS	SIEVE ANALYSIS		HYDROMETER
	gravel	sand	silt and clay



USCS Symbol **SC, TESTED**

USCS Classification **CLAYEY SAND**

Tested By MW Date 09/24/04 Checked By *GM* Date 9-30-04

WASH SIEVE ANALYSIS

ASTM D 422-63 (SOP-S3)

Client	THALLE CONSTRUCTION CO., INC.	Boring No.	VEGIT. COV.
Client Reference	N. WAKE SBTL. D PHASE 1 CLOSURE	Depth (ft)	NA
Project No.	2004-547-07	Sample No.	16-20K
Lab ID	2004-547-07-03	Soil Color	REDDISH BROWN

Moisture Content of Passing 3/4" Material		Water Content of Retained 3/4" Material	
Tare No.	K-3	Tare No.	NA
Wgt. Tare + Wet Specimen (gm)	729.34	Wgt. Tare + Wet Specimen (gm)	141.28
Wgt. Tare + Dry Specimen (gm)	660.92	Wgt. Tare + Dry Specimen (gm)	141.28
Weight of Tare (gm)	152.20	Weight of Tare (gm)	0.00
Weight of Water (gm)	68.42	Weight of Water (gm)	0.00
Weight of Dry Soil (gm)	508.72	Weight of Dry Soil (gm)	141.28
Moisture Content (%)	13.4	Moisture Content (%)	0.0

Wet Weight -3/4" Sample (gm)	16305	Weight of the Dry Specimen (gm)	508.72
Dry Weight - 3/4" Sample (gm)	14372.0	Weight of minus #200 material (gm)	242.73
Wet Weight +3/4" Sample (gm)	141.28	Weight of plus #200 material (gm)	265.99
Dry Weight + 3/4" Sample (gm)	141.28		
Total Dry Weight Sample (gm)	14513.3	J - Factor (Percent Finer than 3/4")	0.9903

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	(*)	0.0	100.0	100.0
1 1/2"	37.5	69.30		0.5	99.5	99.5
1"	25	0.00		0.0	99.5	99.5
3/4"	19	71.98		0.5	99.0	99.0
1/2"	12.5	3.55		0.7	99.3	98.3
3/8"	9.5	2.28		0.4	98.9	97.9
#4	4.75	15.29		3.0	95.8	94.9
#10	2	31.36		6.2	89.7	88.8
#20	0.85	41.67	(**)	8.2	81.5	80.7
#40	0.425	43.07		8.5	73.0	72.3
#60	0.25	42.18		8.3	64.7	64.1
#140	0.106	68.80		13.5	51.2	50.7
#200	0.075	17.79		3.5	47.7	47.2
Pan	-	242.73		47.7	-	-

Notes : (*) The + 3/4" sieve analysis is based on the Total Dry Weight of the Sample
(**) The - 3/4" sieve analysis is based on the Weight of the Dry Specimen

Tested By **MW** Date **09/24/04** Checked By **GEM** Date **9-30-04**