TRAIL RIDGE LANDFILL INCREMENTAL CLOSURE QUALITY ASSURANCE AND QUALITY CONTROL DOCUMENTATION

FOR

UNITS 1-4 (PARTIAL), 7-8 (PARTIAL), 12-17 (PARTIAL), AND 18-20

PREPARED FOR:

TRAIL RIDGE LANDFILL, INC.

AND

CITY OF JACKSONVILLE

PREPARED BY:

England · Thims & Miller, Inc.
Consulting & Design Engineers
3131 St Johns Bluff Road South
Jacksonville, Florida 32246
Phone Number (904) 642-8990

AND

LAW
ENGINEERING AND ENVIRONMENTAL SERVICES, INC
3901 CARMICHAEL AVENUE • JACKSONVILLE, FL 32207 • (904) 396-5173
P O BOX 5728 • JACKSONVILLE, FL 32207 • FAX (904) 396-5703

DECEMBER 5, 1997

PROJECT NUMBER: E96-92

England-Thims & Miller, Inc.

ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS

Principals
James E England, PE , Pres
Robert E Thims, Exec VP
Douglas C Miller, PE , Exec VP
N Hugh Mathews, PE , Exec VP

December 5, 1997

Ms Mary C Nogas, P E
Waste Management Section
Department of Environmental Protection
7825 Baymeadows Way, Suite 200B
Jacksonville, Florida 32256

Mr David P Apple, P E
Stormwater Section
Department of Environmental Protection
7825 Baymeadows Way, Suite 200B
Jacksonville, Florida 32256

RECEIVED
DEC 15 1997
DEPT OF ENV PROTECTION
NORTHEAST DISTRICT - JAX

Reference Trail Ridge Landfill - Incremental Closure
Side Slope Units 1-4 (Partial), 7-8 (Partial), 12-17 (Partial) and 18-20
FDEP Permit No SC16-184444
ET&M No E96-92-4

Dear Ms Nogas and Mr Apple

Please find herewith the Certification of Construction Completion for the Trail Ridge Landfill, Incremental Closure as well as certification of the stormwater pond modification The construction Quality Assurance/Quality Control documentation and As-Built drawings are attached

Subject to your site inspection, Trail Ridge Landfill, Inc respectfully requests your written verification that this closure and stormwater modification are accepted by the Department

This is the certification for the Trail Ridge Landfill closure construction of Side Slope Units 1-4 (Partial), 7-8 (Partial), 12-17 (Partial) and 18-20 which commenced on April 21, 1997 Should you have any questions regarding these certifications, please do not hesitate to give me a call

Sincerely,

ENGLAND, THIMS & MILLER, INC.

Juanitta Bader Clem

Juanitta Bader Clem, P E
Vice President

Attachments Certification of Construction Completion of a Solid Waste Management Facility
MSSW/Stormwater Certification
Quality Assurance and Quality Control Documentation
As-Built Drawings
Pump Test and Construction Drawing for Stormwater System Modification

cc Greg Mathes w/attachments
Scott McCallister w/attachments
Chris Pearson w/attachments

3131 St Johns Bluff Road S • Jacksonville FL 32246 • Tel (904) 642-8990 • Fax (904) 646-9485

Florida Department of Environmental Regulation

Twin Towers Office Bldg 2600 Blair Stone Road Tallahassee Florida 32399-2400

DER Form # 17-701.900(2)
Form Title Certification of Construction Completion of a Solid Waste Management Facility
Effective Date January 8, 1993
DER Application No
(Filled in by DER)

Certification of Construction Completion of a Solid Waste Management Facility

RECEIVED
DEC 15 1997
DEPT OF ENV. PROTECTION
NORTHEAST DISTRICT - JAX

DER Construction Permit No SC16-184444 County: Duval

Name of Project: Trail Ridge Landfill - Incremental Closure

Name of Owner: City of Jacksonville

Name of Engineer: England, Thims & Miller, Inc.

Type of Project: Class I Landfill - Incremental Closure

Side Slope Units 1-4 (Partial), 7-8 (Partial), 12-17 (Partial) and 18-20

Cost: Estimate $ 1,800,000 Actual $ 1,569,240

Site Design: Quantity. 659,000 +/- (1990) ton/day Site Acreage: 12 +/- Acres

Deviations from Plans and Application Approved by DER:

Deviations are shown on the As-Built Drawing and/or outlined in the attachment. The As-Built Survey was prepared by Sunshine State Surveyors and reviewed by England, Thims & Miller, Inc.

Address and Telephone No. of Site 5110 U.S. Highway 301, Baldwin, FL 32234

Phone: (904) 289-9100

Name(s) of Site Supervisor Greg Mathes

Date Site inspection is requested: As soon as possible

This is to certify that, with the exception of any deviation noted above, the construction of the project has been completed in substantial accordance with the plans authorized by Construction Permit No.: SC16-184444 Dated 12-24-91

England, Thims & Miller, Inc. relied upon the information and certifications provided by Law Engineering and Sunshine State Surveyors, Inc. in this certification.

Date: Dec 3, 1997

Signature of Professional Engineer

TRAIL RIDGE LANDFILL
INCREMENTAL CLOSURE
UNITS 1-4 (Partial), 7-8 (Partial), 12-17 (Partial) and 18-20

DEVIATIONS FROM PLANS AND APPLICATION

1 The final grades were adjusted to accommodate settlement during closure construction Adjustments are noted on the As-Built drawings

2 The gravel for the gas vents was modified from FDOT No 4 Course Aggregate (1/2" - 2 5") to FDOT No 3 Course Aggregate (3/8" - 2 0") The bentonite for the gas well plug was modified from requiring at least 50 percent pass the No 200 sieve to a hydraulic conductivity no greater than 1 0 x 10^{-8} cm/sec As explained in the May 8, 1997 letter to the Department, these modifications do not change the design intent of the gravel and the QA/QC Plan was modified to correspond to this change

3 The density testing of the initial cover material was revised to correlate to the type of soil material - sandy soil materials with a Modified Proctor and clayey soil materials with a Standard Proctor Please see the revised QA/QC Plan in Section I

MSSW/STORMWATER AS-BUILT CERTIFICATION BY A REGISTERED PROFESSIONAL*

PERMIT NUMBER: Modification No MS16-296691 to Solid Waste Permit SC16-184444

PROJECT NAME: Trail Ridge Landfill

I hereby certify that all components of this stormwater management system have been built substantially in accordance with the approved plans and specifications and is ready for inspection Any substantial deviations (noted below) from the approved plans and specifications will not prevent the system from functioning in compliance with the requirements of Chapter 40C-4, 40C-41 or 40C-42, F A C (as applicable), when properly maintained and operated These determinations have been based upon on-site observation of the system conducted by me or by my designee under my direct supervision and/or my review of as-built plans certified by a registered professional or Land Surveyor licensed in the State of Florida

Juanitta Bader Clem
Name (please print)

Juanitta Bader Clem
Signature of Professional

England, Thims & Miller, Inc
Company Name

43245
Florida Registration Number

3131 St Johns Bluff Road S
Company Address

Dec. 2, 1997
Date

Jacksonville, FL 32246
City, State, Zip Code

(904) 642-8990
Telephone Number

(Affix Seal)

Substantial deviations from the approved plans and specifications

The pipe extension included 30' of perforated pipe and the elbow at the termination was turned up and capped This deviation was made for maintenance purposes

The pipe extension was built substantially in accordance with the attached Stormwater System Modification Plan

(Note attach two copies of as-built plans when there are substantial deviations)

Within 30 days of completion of the system, submit two copies of this form to Department of Permit Data Services
St Johns River Water Management District
P O Box 1429
Palatka, FL 32178-1429

* A registered professional is defined in subsection 40C-42 021(1) as "a professional registered in Florida with the necessary expertise in the fields of hydrology, drainage, flood control, erosion and sediment control, and stormwater pollution control to design and certify stormwater management systems Examples of registered professionals may include professional engineers licensed under Chapter 471, F S , professional landscape architects licensed under Chapter 481, F S , and professional geologists licensed under Chapter 492, F S , who have the referenced skills

District Form No 40C-1 181(13)

ENGLAND, THIMS & MILLER, INC.
Consulting & Design Engineers
3131 St Johns Bluff Road South
Jacksonville, Florida 32216

PUMP TEST REPORT

TO: **Trail Ridge Landfill**
Wet Detention System

DATE: **November 21, 1997**

REF: **E96-92-4**

TIME: **9:00 AM**

Persons Present Jimmy Purvis - Trail Ridge Landfill, Inc
Juanitta Clem - England, Thims & Miller, Inc

The permitted flow rate is between 2 11 CFS (947 0 GPM) and 2 50 CFS (1122 0 GPM) Based upon the wet well size (8' x 8' or 478 72 Gallons/Foot of Depth), the inflow into the wet well from the pond should be

947 GPM/(478 72 Gal /FT) = 2 0 FT/Min at a minimum
1122 GPM/(478 72 Gal /FT) = 2 3 FT/Min at a maximum

The inlet valves at the wet well were both closed and then one valve was partially opened (4 complete turns) and tested for an inflow of approx 1 foot rise per minute (to simulate half the allowable flow) Then, the second valve was partially opened (4 complete turns) Then the flow into the wet well was determined as follows

Depth	Time (sec)	Rise
138"		
	30	20"
118"		
	30	15"
103"		
	30	11"
92"		
	30	7 5"
84 5"		
TOTAL	2 Min	4 46 FT

AVG RISE = 4 46 FT/2 Min = 2 23 FT/Min or 1,067 5 GPM

Since the flow rate (1,067 5 GPM) is within the permitted range, the system will be operated and was left with the inlet valves partially open (4 complete turns for each valve)

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Incremental Closure
Quality Assurance and Quality Control Documentation

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IV	Initial Cover
V	Compacted Clay Layer A Borrow Pit Pre-Qualification B Test Strip C Clay Layer
VI	Top Soil Layer
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- D Concrete Compressive Strength Reports
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TRAIL RIDGE LANDFILL
INCREMENTAL SIDE SLOPE CLOSURE
QUALITY ASSURANCE/QUALITY CONTROL PLAN

This plan addresses the quality assurance and quality control (QA/QC) for the incremental closure (close-as-you-go) of Trail Ridge Landfill This program delineates the quality procedures and standards for the construction This plan includes the closure of the side slopes only The top area will be the final closure for which a closure permit will be obtained, prior to final closure construction

In the context of this plan, quality assurance and quality control are defined as follows

Quality Assurance - A planned and systematic pattern of all means and actions designed to provide adequate confidence that items or services meet contractual and regulatory requirements and will perform satisfactorily in service

Quality Control - Those actions which provide a means to measure and regulate the characteristics of an item or service to contract and regulatory requirements

The City of Jacksonville, Florida is the owner/permittee of Trail Ridge Landfill Trail Ridge Landfill, Inc operates the landfill England, Thims & Miller, Inc is the design engineer The name of the Contractor for each incremental closure shall be provided to the Department of Environmental Protection (DEP), prior to construction

All QA/QC activities (including monitoring, sampling and testing) shall be directed and conducted by third parties, whom are independent of the Contractor

The QA/QC Plan for this project includes General QA/QC and Soils QA/QC The General QA/QC includes full-time services to periodically observe the contractor's work to verify substantial compliance with permits, plans, specifications and design concepts These services will include the following

General Quality Control Monitor - shall monitor the construction for compliance with the permits, plans, specifications and design including construction to proper lines and grades, maintain daily logs and weekly progress reports of the construction (including observation data sheets, problem identification and correction logs), make note of any construction deviations, coordinate qualifying and testing of materials, monitor any waste excavation, and monitor filling This individual shall be experienced in civil site construction and solid waste regulations

General Quality Assurance Engineer - shall supervise the construction monitoring and waste removal to verify compliance with permits, plans, specification and design concepts This individual shall be experienced in civil site construction and solid waste regulations and shall be a registered Professional Engineer

The General QA/QC Program includes monitoring the following activities

1 General Earthwork
2 Storm Drainage Installation
3 General Construction Quality Control

The Soils QA/QC for this project includes soil material qualifying, sampling and testing to verify substantial compliance with the material standards This work will include the following

Soils Quality Control Monitor - shall pre-qualify soil materials, monitor the installation of soil materials, determine where in-place soil materials shall be tested, and test the in-place soil materials This individual shall be responsible for assuring that all soil materials have been pre-qualified and have a chain-of-custody from the pre-qualified source to the project site, prior to installation This individual shall be experienced in civil site construction and soil testing standards and procedures

Soils Quality Assurance Engineer - shall supervise the soil material pre-qualifying and testing of in-place soil materials to assure compliance with the test standards and testing frequency requirements, and verify compliance with the plans, specification and design This individual shall be experienced in civil site construction and soil testing procedures and shall be a registered Professional Engineer

The QA/QC Plan including monitoring construction of the following

A Final Cover (Initial Cover, Compacted Clay Layer and Vegetative Cover)

Incremental side slope closure of Trail Ridge Landfill includes a final cover consisting of 12" of initial cover, 12" of clay, and 24" of vegetative cover The clay layer of the final cover must be placed in two 6" (minimum) lifts The Soils Quality Control Monitor shall observe the clay layer construction on a full-time (on-site) basis The QA/QC for the final cover is as follows

1 Initial Cover

a Location - The fill material shall come from an off-site source The Soils Quality Control Monitor shall visually inspect the fill material

b Standard - Soil shall be free of brush, weeds, and other litter, and free of roots, stumps, stones and any other extraneous or toxic matter

The initial cover shall be a minimum of 12" thick

Compacted to 90% of Modified Proctor maximum dry density (ASTM D-1557), unless the soil material contains 30 0% or greater passing No 200 sieve, then compacted to 90% of Standard Proctor maximum dry density (ASTM D-698)

c Frequency - Depth measurements and density tests shall be conducted at the frequency of four per acre

2 Clay Layer (referred to as Barrier Layer in Chapter 62-701, F A C)

a Borrow Source - Prior to clay layer installation, an appropriate borrow source shall be located Suitability of the clay layer construction materials from that source shall be determined in accordance with the following

(1) If demonstrated field experience is available from at least three prior successful projects of five or more acres each to document that a given borrow source can meet the requirements of the project specifications, then extensive laboratory testing of the borrow source will not be required However, the source of material shall be geologically similar to and the methods of excavating and stockpiling the material shall be consistent with those used on the prior projects Furthermore, a minimum of three representative samples from the appropriate thickness of the in-situ stratum or from stockpiles of the borrow material proposed for clay layer construction shall be submitted to the Owners independent soil testing laboratory to document through index testing that the proposed material is consistent with the material used on prior successful projects At a minimum, index testing shall consist of percent fines, Atterberg limits and moisture content determinations

(2) If demonstrated field experience as defined above is not available or cannot be documented, then the following requirements shall be met

(a) A field exploration and laboratory testing program shall be conducted by the Owners independent soil testing laboratory to document the horizontal and vertical extent and the homogeneity of the soil strata proposed for use as clay layer material A sufficient number of index tests from each potential borrow stratum shall be performed to quantify the variability of the borrow materials and to document that the proposed borrow material complies with specifications At a minimum, the index tests shall consist of percent fines, Atterberg limits and moisture content determinations

(b) Sufficient laboratory hydraulic conductivity tests shall be conducted on samples representative of the range invariability of the proposed borrow source (ASTM D-5084) For each such sample, test specimens shall be prepared and tested to cover the range of molding conditions (moisture content and dry density) required by project specifications The hydraulic conductivity tests shall be conducted in triaxial type permeameters The test specimens shall be consolidated under an isotropic consolidation stress no greater than 10 pounds per square inch and permeated with water under an

adequate backpressure to achieve saturation of the test specimens The inflow to and outflow from the specimens shall be monitored with time and the hydraulic conductivity calculated for each recorded flow increment The test shall continue until steady state flow is achieved and relatively constant values of hydraulic conductivity are measured (ASTM D-5084) The borrow source will only be considered suitable if the hydraulic conductivity of the material, as documented on laboratory test specimens, can be shown to meet the requirements of the project specifications at the 98 percent confidence level

(3) The Soils Quality Assurance Engineer shall review the pre-qualification data and shall approve or reject the clay layer material for use

b Test Strip - Prior to full-scale clay layer installation, a field test section or test strip shall be constructed at the site above a prepared subbase The test strip shall be considered acceptable if the measured hydraulic conductivities of undisturbed samples from the test strip meet the requirements of the project specifications at the 98 percent confidence level If the test section fails to achieve the desired results, additional test sections shall be constructed in accordance with the following requirements

(1) The test section shall be of sufficient size (20' x 60' minimum) such that full-scale clay layer installation procedures can be duplicated within the test section,

(2) The test section shall be constructed using the same equipment for spreading, kneading and compaction and the same construction procedures (e g , number of passes, moisture addition and homogenization, if needed) that are anticipated for use during full-scale clay layer installation,

(3) At a minimum, the clay layer test section shall be subject to the following field and laboratory testing requirements by Soils Quality Control Monitor

(a) A minimum of five random samples of the clay layer construction material delivered to the site during test section installation shall be tested for moisture content (ASTM D-2216), percent fines (ASTM D-1140) and Atterberg limits (ASTM D-4318),

(b) At least five field density and moisture determinations shall be performed on each lift of the compacted clay layer test section,

(c) Upon completion of the test section lift, the thickness of the lift shall be measured at a minimum of five random locations to check for thickness adequacy, and

(d) A minimum of five Shelby tube or drive cylinder (ASTM D-2937) samples shall be obtained from each lift of the test section for laboratory hydraulic conductivity testing Laboratory hydraulic conductivity testing shall be conducted in triaxial type permeameters (ASTM D-5084) The test specimens shall be consolidated under an isotropic consolidation stress no greater than 10 pounds per square inch and permeated with water under an adequate backpressure to achieve saturation of the test specimens The inflow to and outflow from the specimens shall be monitored with time and the hydraulic conductivity calculated for each recorded flow increment The test shall continue until steady state flow is achieved and relatively constant values of hydraulic conductivity are measured (ASTM D-5084)

(e) The test strip shall meet or exceed the standards established below except the field density which shall be established by the QA Engineer, based upon the test strip results If the test strip fails to meet these standards, the construction methods and/or material will be rejected and the test strip shall be performed again

c Final Cover Installation - Full scale final cover installation may begin only after completion of a successful test section During clay layer construction, quality control testing shall be provided to document that the installed clay layer conforms to project specifications The testing frequency for quality control testing is specified below, however, during construction of the first five acres, the frequencies shall be doubled The clay layer shall be installed in two 6" lifts for a total minimum thickness of 12"

(1) Location - The clay layer shall be tested in place The locations of testing shall be random locations as determined by the Soils Quality Control Monitor If there are indications of a change in product quality or construction procedures during final cover construction, additional tests shall be performed to determine compliance

(2) Standard

(a) Clay Layer Subgrade - Compacted to 90% of Modified Proctor maximum dry density (ASTM D-1557), unless the soil material contains 30 0% or greater passing the No 200 sieve, then compacted to 90% of Standard Proctor maximum dry density (ASTM D-698) (See Initial Cover above)

(b) Field Density - The field density shall be established by the QA Engineer based upon the test strip results and shall be determined by Standard Proctor Density (ASTM D-698) In no case shall the field density be less than 80% of Standard Proctor Density (ASTM D-698)

(c) Thickness - Each lift (two total) shall be a minimum of 6" thick

(d) Hydraulic Conductivity - The compacted clay layer shall have an in-place hydraulic conductivity no greater than 1 0 x 10^{-7} cm/sec (ASTM D-5084)

(3) Field Testing Frequency

(a) Prior to the laying of the clay layer materials, the clay layer subgrade shall be compacted to the specified density Density tests shall be conducted at a minimum rate of two tests per acre,

(b) A minimum of two moisture content and field density determinations shall be conducted per acre per lift of the compacted clay layer The degree of compaction shall be checked using the one-point field Proctor test or other appropriate test procedures, and

(c) A minimum of four thickness measures shall be conducted per acre per lift of the compacted clay layer

(4) Laboratory Testing Frequency

(a) Percent fines (ASTM D-1140) of the clay layer material shall be determined at a minimum frequency of two tests per acre per lift of installed clay layer,

(b) Atterberg limits determinations shall be performed on one sample per acre per lift of installed clay layer, and

(c) Hydraulic conductivity testing of Shelby tube or drive cylinder (ASTM D-2937) samples of the compacted clay layer shall be performed at a minimum frequency of one test per acre per lift Laboratory hydraulic conductivity tests shall be conducted in triaxial type permeameters (ASTM D-5084) The test specimens shall be consolidated under an isotropic consolidation stress no greater than 10 pounds per square inch and permeated with water under an adequate backpressure to achieve saturation of the test specimens The inflow to and outflow from the specimens shall be monitored with time and the hydraulic conductivity calculated for each recorded flow increment The test shall continue until steady state flow is achieved and relatively constant values of hydraulic conductivity are measured

(5) Deficiency - If the test data from a clay layer section does not meet the requirements of the project specifications, additional random samples shall be tested from that clay layer section If such additional testing

demonstrates that the thickness and hydraulic conductivity meet the requirements of the project specifications at the 95 percent confidence level, that clay layer section will be considered acceptable If not, that clay layer section shall be reworked or reconstructed so that it does meet these requirements

3 Clay Layer Tie-In (To Existing Clay Layer, Where Applicable)

a Location - The edge of any existing final cover adjacent to the proposed final cover area

b Standard - The compacted clay layer of any existing final cover and the proposed final cover must be tied together to form one continuous seamless layer At the interface, the existing and new clay layers shall be compacted to form a seamless connection

c Frequency - The Soils Quality Control Monitor shall monitor the tie-in by visual inspection on a continuous basis

4 Vegetative Cover

a Location - The vegetative cover shall be tested in place The location of testing shall be determined by the Soils Quality Control Monitor

b Standard - Top soil which is reasonably free of brush, weeds, and other litter, and relatively free of roots, stumps, stones and any other extraneous or toxic matter harmful to plant growth Roots with a diameter greater than 3/8" shall be hand picked and removed

The vegetative cover shall be at least 24" thick

c Frequency - Depth measurements shall be taken at the frequency of four per acre The soil shall be monitored on a continuous basis for extraneous matter

5 Final Cover Repairs (When Applicable)

If, during construction of the final cover system, damage is sustained on the final cover system (including the initial cover, clay layer and vegetative cover), the areas of damage shall be reconstructed and retested in accordance with corresponding section described above All repair areas shall be tested at the frequencies prescribed above, unless more frequent testing is required at the discretion of the Soils Quality Assurance Engineer

B Downcomer Pipes

Downcomer pipes shall be installed in the final cover at the low point of the terraces, to intercept the stormwater between terraces The downcomer pipes shall include the terrace side drains and terrace underdrain piping

The downcomer pipes shall be constructed as shown on the Construction Drawings The clay around the pipes shall be compacted into a uniform homogeneous material Prior to placement of vegetative cover over the downcomer pipes, the pipe shall be inspected by the General Quality Control Monitor

1 Location - The compacted clay layer shall be tested in place The locations of testing shall be determined by the Soils Quality Control Monitor If there are indications of a change in product quality or construction procedures during construction, additional tests shall be performed to determine compliance

2 Standard -

a Clay Layer Subgrade - Compacted to 90% of Modified Proctor maximum dry density (ASTM D 1557) (12" thick minimum)

b Field Density - The field density of the clay layer shall be as established in Section A 2 c (2)(b) above and shall be determined by Standard Proctor Density (ASTM D 698)

c Thickness - Twelve inches minimum below pipe

d Hydraulic Conductivity - The compacted clay layer shall have an in-place hydraulic conductivity no greater than 1 0 x 10^{-7} cm/sec (ASTM D 5084)

3 Field Testing Frequency -

a Prior to the laying of the compacted clay materials, the subbase shall be compacted to the specified density Density tests and thickness shall be conducted at a minimum rate of one per 75 L F of pipe (Minimum of one test between terraces)

b A minimum of one moisture content and field density determination of the compacted clay layer shall be conducted per 75 L F of pipe

c A minimum of two thickness measures of the compacted clay layer shall be conducted per 75 L F of pipe

4 Laboratory Testing Frequency -

a Hydraulic conductivity testing of Shelby tube or drive cylinder (ASTM D 2937) samples of the compacted clay layer shall be performed at a minimum frequency of one test per 75 L F of pipe (at least once between terraces) Laboratory hydraulic conductivity tests shall be conducted in triaxial type permeameters (ASTM D 5084) The test specimens shall be consolidated under an isotropic consolidation stress no greater than 10 pounds per square inch and permeated with water under an adequate backpressure to achieve saturation of the test specimens The inflow to and outflow from the specimens shall be monitored with time and the hydraulic conductivity calculated for each recorded flow increment The test shall continue until steady state flow is achieved and relatively constant values of hydraulic conductivity are measured

5 Deficiency - If the test data from a compacted clay layer section does not meet the requirements of the project specifications, that section shall be reworked or reconstructed so that it does meet these requirements

C Underdrain Filter Sand

The underdrains in the terraces shall be surrounded by filter sand as shown on the Contract Drawings The QA/QC for the filter sand is as follows

1 Filter Sand

a Location - The material shall be pre-qualified prior to installation

If the testing is done at the borrow source, a chain of custody shall be provided

b Standard - Clean, uniformly graded sand with a uniformity coefficient of 1 5 or greater and an effective grain size of 0 2 mm to 0 5 mm Grain size distribution shall be conducted as part of pre-qualification

The sand shall have a hydraulic conductivity no less than 1 0 x 10^{-3} cm/sec at a density of 100 percent Modified Proctor The hydraulic conductivity testing shall be by Constant Head method (ASTM D2434)

c Frequency - The hydraulic conductivity of the sand shall be tested once per 100 C Y of sand material

D Gas Wells

Gas wells shall be installed through the final cover The QA/QC for gas well materials shall be as follows

1 Gravel

a Location - The gravel shall be pre-qualified by certification by the supplier

b Standard - The gravel shall be clean gravel with no fines The gravel shall be FDOT No 3 Course Aggregate (ASTM D 448)

The gravel shall be non-calcareous (ASTM D 4373)

c Frequency - The gravel shall be certified by the supplier The gravel shall be tested once per 100 C Y

2 Bentonite

a Location - The material shall be pre-qualified with documentation from the supplier

b Standard - The material shall be a homogeneous, inorganic material with a hydraulic conductivity no greater than 1 0 x 10^{-8} cm/sec at a density of 100 percent Modified Proctor

c Frequency - The material shall be certified by the supplier, one time only

England-Thims & Miller, Inc.
ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS

Principals
James E England PE Pres
Robert E Thims, Exec VP
Douglas C Miller, PE , Exec VP
N Hugh Mathews, PE , Exec VP

MEETING MINUTES

DATE: April 8, 1997 - 2 00 PM

PLACE: Trail Ridge Landfill Offices

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
Pre-Construction Conference
E-96-92

ATTENDEES: George Sayer, R B Baker, Inc (R B Baker)
Sonny Daniels, R B Baker, Inc
Jay McMahan, R B Baker, Inc
Richard Austin, R B Baker, Inc
Neil Rushing, City of Jacksonville
Jim Horton, Law Engineering, Inc (Law)
Jimmy Purvis, Trail Ridge Landfill, Inc (TRLF)
Greg Mathes, Trail Ridge Landfill, Inc
Scott McCallister, Trail Ridge Landfill, Inc
Art Mastronicola, Sunshine State Surveyors, Inc (SSS)
Buckley Williams, England, Thims & Miller, Inc (ETM)
Juanitta Clem, England, Thims & Miller, Inc

I. INTRODUCTIONS

Juanitta Clem introduced Greg Mathes, General Manager and then all attendees introduced themselves J Clem explained that Trail Ridge Landfill is owned by the City of Jacksonville and operated by Trail Ridge Landfill, Inc For the purposes of this contract Trail Ridge Landfill, Inc is identified as the Owner and England, Thims & Miller, Inc is the engineer of record

II. CONSTRUCTION SCHEDULE

A. **Temporary Silt Fence and Hay Bales** - These must be installed first, prior to actual closure construction

3131 St Johns Bluff Road S • Jacksonville FL 32246 • Tel (904) 642 8990 • Fax (904) 646-9485

B. **Initial (Intermediate) Cover** - J Clem stated that TRLF will be completing there work on the initial cover in segments and will turn areas over to R B Baker R B Baker will have seven (7) days to inspect and accept or reject each area TRLF's only requirements are to have the initial cover on grade and at the required thickness (12") It is R B Baker's responsibility to achieve the required 90% density as well as thickness grades

G Mathes stated that TRLF should have Units 1 through 4 ready by Monday (4-14-97) J McMahan stated that R B Baker will be ready to begin surveying those units, beginning next week

D Austin asked about the settlement of the landfill during construction J Clem replied that the final cover will be as-built twice at each section First, the initial cover will be as-built, then the two 6" lifts of clay will be placed and the thickness checked (but not as-built) Finally, after the top soil layer is placed, it will be as-built before sod placement J Clem stated that as-builts will be taken during construction and not at the completion of the construction The grades will not be adjusted for settlement

J Clem stated that SSS will only as-built the final cover at the sections shown on the Construction Plans However, they will check between sections if warranted

C. **As-Built Survey of Initial Cover** - R B Baker must coordinate the scheduling of as-builts with B Williams SSS prefers a 24 hour notice for as-built survey work

J Clem commented that SSS will work with the Contractor if minor deficient areas need to be repaired by R B Baker The plan is to repair and resurvey the same day

D. **Clay Pre-Qualification** - R B Baker has located a clay borrow source off of County Road 225, approx 3 miles west of US Highway 301 J McMahan stated that this borrow pit will be referred to as the 'Lane Pit' R B Baker should receive their permit for the pit by next Monday (4-14-97)

Law and ETM will visit the borrow pit either Thursday or Friday this week at the direction of R B Baker, for pre-qualification testing

J McMahan stated that the pit has approx 3' of overburden and a clay layer approx 4-6 feet thick J McMahan noted that a permeability test of the clay material has been conducted and the permeability exceeds the project requirements

E. **Clay Test Strip** - J Clem stated that R B Baker must demonstrate during the test strip, the methods they propose to install the clay layer R B Baker will be required to construct both lifts of clay and each lift will be tested in accordance with the QA/QC Plan including density and permeability

A minimum density of 80% of the Standard Proctor has been set but the project specific density standard for the clay will be based on the test strip This density will be set by the Soils AW Engineer, Jim Horton of Law (Note J Clem will provide Borrow Pit Pre-Qualification and Test Strip Forms to be completed for each operation)

F. **Clay Layer** - Two 6" lift must be constructed with a minimum hydraulic conductivity of 1 x 10^{-7} cm/sec (Note If the Contractor chooses to place any material on top of a clay lift prior to receipt of test results, he does so at his own risk)

G. **Top Soil** - R.B Baker does not have a top soil borrow source identified at this time However, they may use the material at the Lane Pit and supplement it as needed to meet the project requirements for pH (5-7) and organic content (1 5-10%)

H. **Drainage System (Downcomer System)** - J Clem stated that R B Baker will be required to remove waste under the proposed downcomer locations (Detail D3, Sheet 16) and must place the waste on the active landfill within 24 hours (must not remain uncovered overnight or during a rain event) Initial cover must be replaced and compacted (to a minimum 90% Modified Proctor) prior to clay placement The Contractor can use either the material that was removed or the clay material for the initial cover The thickness and density of the initial cover will be tested prior to clay placement

J McMahan stated that Fife Pipe has requested using a 'Cross' fitting in lieu of the Double-Wye as shown in Detail D2, Sheet 16 J Clem stated that was acceptable J McMahan stated that Fife Pipe is preparing Shop Drawings for these fittings

J McMahan stated that Fife Pipe can manufacture the 10 8 water-tight coupler in HDPE J Clem stated that Fife should submit the information as a shop drawing

J Clem gave R B Baker a preliminary list of items that will require shop drawing submittals and she suggested that these items be submitted for approval as soon as possible

R B Baker is continuing to locate a source for the underdrain sand, but will get the material pre-qualified

I. **Gas Wells** - J Clem reminded R B Baker that the stone used for the wells must be pre-qualified and certification of the driller must be submitted, prior to gas well construction

J McMahan stated that the gas wells will be constructed almost immediately, unless their are any concerns S McCallister stated that TRLF has not obtained the permit to construct the wells G Mathes also noted that he may not want the wells constructed where TRLF is working on completion of the initial cover J McMahan stated that R B Baker is flexible and it would not be a problem to delay the well construction a few weeks

All waste removed during drilling must be removed within 24 hours of removal

J. **Stormwater Modification** - R B Baker will construct the modifications whenever a good opportunity presents itself

K. **Compactor Access Road** - No questions were presented concerning this issue

III. CONTRACT

G Mathes stated that the City should sign the contract by tomorrow afternoon

J McMahan asked where technical questions and payment requests should be directed All technical questions should be directed to ETM and ETM will submit a copy to the City and TRLF J McMahan stated that he will handle all correspondence on the project and G Sayer will handle all submittals All correspondence to R B Baker should be directed to J McMahan at the Garden City, Georgia office

Pay request submittals should be sent to TRLF with a copy to ETM It was agreed that R B Baker will submit two (2) original copies of each pay request to TRLF (TRLF will forward one copy to the City)

R B Baker will supply a list of subcontractors and suppliers

Two copies of the Pollution Prevention Plan were provided to J McMahan for signature by R B Baker and all subcontractors

J McMahan stated that once the Notice to Proceed is issued, the Performance Bond and Certificate of Insurance will be forwarded to TRLF

IV. **QA/QC PLAN** - J Clem stated that the plan is included in the specifications She requested that all parties review the plan

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Principals
James E England PE Pres
Robert E Thims, Exec VP
Douglas C Miller PE Exec VP
N Hugh Mathews PE, Exec VP

MEETING MINUTES

DATE: Tuesday, April 22, 1997
2 00 - 3 15 PM

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES: Greg Mathes, Trail Ridge Landfill, Inc (TRLF)
Jimmy Purvis, Trail Ridge Landfill, Inc
Richard Austin, R B Baker Construction, Inc (Baker)
Jay McMahan, R B Baker Construction, Inc
Juanitta Clem, England, Thims & Miller, Inc (ETM)
Buckley Williams, England, Thims & Miller, Inc

I. REQUEST FOR INFORMATION

Baker submitted a Request for Information (RFI) with regards to using SDR 26 18" HDPE pipe in lieu of SDR 32 518" HDPE pipe for the proposed downcomer at Sta 92+48 N J Clem explained that she had spoken to Fife Pipe, Baker's subcontractor regarding this issue and there is no objection to this substitution (Note that with the proposed substitution, the wall thickness is increased from 0 554 inches to 0 692 inches with a minimal decrease of the inside pipe diameter of 16 892 inches to 16 616 inches)

II. PROGRESS SCHEDULE

Baker submitted their progress schedule for the construction with a starting date of April 18, 1997 (the date of the notice to proceed) and a substantial completion date of October 18, 1997 (180 days from the notice to proceed)

R Austin presented the following schedule for the week

A Hauling of topsoil material and possibly clay material from the clay borrow pit which will be stockpiled on the top of the landfill

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B Intermediate Cover - J McMahan asked if the eastern slopes are ready Both J Purvis and G Mathes agreed that as of today, Side Slope Units 1, 2, 3 and 4 are ready and Baker has seven days to accept or reject the units R Austin will have surveyors on-site this week to check the grades and will place additional construction stakes every 100 feet for his use

B Williams stated that he tested the compaction of the existing intermediate cover material on the side slopes and Baker will provide some additional compaction in order to achieve the required 90% density R Austin stated that he will first attempt to use a dozer to achieve the 90% density and if necessary, use a roller. G Mathes noted that Baker should use caution while using a roller on the 3 1 side slopes

J Clem explained the sequence of events with regards to acceptance of the units First, TRLF will turn over the units to Baker, then Baker will have seven days to accept or reject the units based upon the grades and thickness of the intermediate cover Once a unit has been accepted, Baker must get the required density (90% modified proctor) as well as maintain the design grade After the density has been achieved, the as-builts will be taken at each section shown on the construction drawings

R Austin asked if it is a problem if an area is a little low but the thickness is there J. Clem explained that as-builts will be taken on the intermediate grade and the topsoil grade and between those grades, the clay layer and topsoil layer thicknesses will be checked J Clem explained that the intermediate cover must be at design grade with a tolerance of - 0 1', whereas the topsoil layer has a tolerance of +/- 0 1' R Austin asked if settlement will be an issue J Clem stated that in the past, settlement has occurred during construction and therefore, it is recommended that the contractor get as-builts done as soon as possible after completion of a unit

J McMahan asked if after the thickness and density have been verified, the as-built shows that the grades are a couple of tenths low, will Baker have to fix those areas? J Clem stated that if, after compaction, the intermediate grades are not within tolerances, then Baker must bring them to grade (even if it includes adding additional material) J McMahan and R Austin took note

C Test Strip - R Austin stated that he plans to construct the test strip on the eastern slope of Units 7 and 8 J Clem cautioned that due to the settlement, the contractor will have a transitional area on Unit 7, where he ties-into the second terrace She recommended that the test strip be constructed on Unit 8 to avoid this area

Upon discussion, it was agreed that the tie-in to the existing closure will occur over the existing materials Hence, the sections will be built per design grade and the tie-in will occur over the existing closure (which eliminates removal of material for the transition)

D Gas Well Construction - Baker plans to begin gas well construction by April 30 They will add approx 5 feet of pipe to the top of the gas wells in the areas where Trail Ridge

is still working the intermediate cover Greg Mathes expressed concern about installation of wells where the intermediate cover has not been completed Baker and TRLF agreed to work together in those areas so Baker can install the wells and TRLF is not hindered by this obstruction TRLF must determine if the required permit(s) for the gas system construction (wells and flares) are in order, prior to this construction

E Silt Fence and Hay Bales - Baker will begin installation of hay bales and silt fence this week R Austin asked if on the top of the units where the existing berm is higher than the surrounding grounds, the silt fence and hay bales were necessary It was agreed that in those areas, where runoff will not occur over the side slopes, that the hay bales and silt fence do not have to be constructed, but should be placed as needed during construction

F Compactor Access Road - R. Austin stated that during the construction of Units 1, 2, 3 and 4, the compactor access road will be constructed as soon as possible, to maintain access for TRLF

III. OTHER ISSUES

The following topics were discussed and responses are noted below:

Safety Training - Baker will get with Billy Purvis this week to train Baker's representatives on the safety requirements for the site, including right-to-know and confined entry.

Aggregate for Gas Well Construction - It was agreed that the aggregate could be either granite or river rock as long as the gradation is met and the materials are non-calcareous

Shop Drawings - J McMahan stated that within the next couple of weeks, he should have all of his shop drawings submittal to ETM

All the bonds and insurance certificates have been submitted to TRLF

Pollution Prevention Plan - This plan must be signed by Baker and all subcontractors that actually perform work on the site

Downcomer Construction - It was noted that due to manufacturing of the pipe, the pipe work will be delayed a few weeks

cc Attendees
Chris Pearson
Scott McCallister
Doug Miller
Jim Horton
Neil Rushing

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Principals
James E England PE Pres
Robert E Thims Exec VP
Douglas C Miller PE Exec VP
N Hugh Mathews PE, Exec VP

MEETING MINUTES

DATE: Tuesday, April 29, 1997

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES: Jim Horton, Law Engineering (Law)
Jimmy Purvis, Trail Ridge Landfill, Inc
Richard Austin, R. B Baker Construction, Inc (Baker)
Jay McMahan, R. B Baker Construction, Inc
Juanitta Clem, England, Thims & Miller, Inc (ETM)
Buckley Williams, England, Thims & Miller, Inc

I. PROGRESS SCHEDULE

Baker submitted their progress schedule for the construction, effective April 28, 1997

R. Austin presented the following schedule for the week

A Baker will be recovering from approximately 4 5 inches of rain that hit the project site over the weekend Currently, they are unable to do much work on the side slopes

B Importing Clay Material - Baker will be hauling clay and top soil material beginning on Thursday at the earliest However since the clay borrow pit site is wet, the hauling has been slowed

C Intermediate Cover - Baker has surveyed Units 1-4 but not partial Units 7 and 8 Based upon the survey (conducted by Bradshaw Surveyors), Baker has accepted Units 1-4 J McMahan stated that they will forward the acceptance of Units 1-4 to ETM, once Units 7 and 8 have been surveyed He reiterated that they have accepted Units 1-4

II. UNIT 1 BETWEEN SECTIONS 1 & 2 AND UNITS 7-8 (PARTIAL)

J Clem stated that Baker will be able to construct Unit 1 between Sections 1 and 2 The landfill has been constructed to Section 2, but the remainder of Unit 1 (south of Section 2) is not completed It was agreed that a deductive change order is required for this change and the deductive change order will be based upon the unit prices for the project

J Clem stated that ETM has reviewed the previously closed Terrace 2 in the vicinity of Unit 7 She stated that the terrace has settled as much as 3 feet in areas and Baker may need to adjust the clay layer and topsoil to create and maintain a swale for drainage She stated that due to the settlement, she is concerned about maintaining 2 5 foot swale depth in Terrace 2 Upon review, it was agreed that the clay layer above Terrace 2 will need to tie-in to the existing clay layer at Terrace 2 and then additional topsoil will be needed to adjust the top of the terrace to maintain a 2 5 foot depth between Section 12 and 13 R Austin inquired whether this would affect the underdrain installation, and J Clem stated that positive drainage on top of the clay layer will have to be maintained throughout the terrace (so the underdrains will drain) It was agreed that the exact configuration will have to be determined in the field during construction and coordinated between Baker and ETM.

III. CLAY TEST STRIP

R Austin stated that if Baker is able to haul clay material on Thursday, then they may start construction of the test strip on Tuesday of next week J McMahan and R. Austin stated that they have sampled and tested a clay material mix from the borrow pit stockpile and it appears that the material is different in both optimum moisture and maximum density than the two Law samples used in the pre-qualification of the borrow pit. Due to the difference in the proctors (94 and 111), J Horton stated that the Baker's sample appears to be a sandier clay R. Austin stated that another sample may need to be taken once the material has arrived on-site, in order to obtain a more accurate proctor after the blending operation. R. Austin explained that the clay is mixed when it is cut out of the pit, it is mixed again when it is loaded into the trucks, and then mixed a third time after it is unloaded on-site and placed on the side slopes He also stated that he has placed a cutting edge on the backhoe bucket to eliminate sand contamination.

R. Austin stated that when he constructs the test strip, he will test the blended material for the closure. Once the test strip has been completed, R. Austin plans to proceed with excavation of waste at the downcomer locations and will proceed with placement of clay at his own risk J McMahan stated that they are doing additional testing (i e , permeability, grain size, atterberg limits and percent moisture) R. Austin stated that the purpose of the test strip will be to show the different methods of constructing the clay layer and still achieving the minimum standards.

IV. GAS WELLS

Baker plans to begin construction on May 12 J Clem stated that she will discuss the permit status with S. McCallister which may include discussions with the DEP.

V. SILT FENCE AND HAY BALES

Baker will begin installation of silt fence and hay bales around the drainage structures this week and will conduct any maintenance necessary on the floating boom

cc: Attendees
Chris Pearson
Scott McCallister
Doug Miller
Greg Mathes

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MEETING MINUTES

Principals
James E England PE Pres
Robert E Thims Exec VP
Douglas C Miller PE Exec VP
N Hugh Mathews, PE Exec VP

DATE: Tuesday, May 6, 1997

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES: Jim Horton, Law Engineering (Law)
Scott McCallister, Trail Ridge Landfill, Inc (TRLF)
Jimmy Purvis, Trail Ridge Landfill, Inc
Richard Austin, R B Baker Construction, Inc (Baker)
Jay McMahan, R B Baker Construction, Inc
Juanitta Clem, England, Thims & Miller, Inc (ETM)
Buckley Williams, England, Thims & Miller, Inc

I. SHOP DRAWINGS

Baker submitted shop drawings for the HDPE downcomer pipe and the gas wells including gas flares

J Clem stated that TRLF has discussed the construction of the gas wells with the FDEP and the FDEP does not believe there are any problems with the locations and the construction detail of the gas wells Baker can proceed with construction of the gas wells but will have to wait for approval of the gas flares J McMahan stated that the flares will not be constructed until the end of the job and he will proceed with well construction only

II. RAIN DELAY SUBMITTAL

Baker submitted their rain delays for the month of April (which included 6 impact rain delays)

III. PROGRESS SCHEDULE

Baker submitted their revised progress schedule for construction, effective May 6, 1997

R Austin presented the following schedule for the week

A Baker will continue importing clay and top soil material from the clay borrow pit

B Intermediate Cover - Baker is continuing to dry out, grade and compact the intermediate cover, particularly the side slopes for partial Units 7 and 8

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IV. INTERMEDIATE COVER

B Williams stated that Baker is encountering a variety of soils in the intermediate layer which is presenting a difficulty with achieving the 90% compaction (modified proctor) B Williams added that several locations have a high moisture and the material may differ significantly from the material used in Proctor #1 (with a dry weight of 124 1 PCF) Baker has tried different compaction methods using a dozer and a compactor to achieve density in various areas on Units 7 and 8 B Williams stated that the material varies in horizontal locations, as well as vertically since the intermediate cover was placed in approximately 6" lifts B Williams suggested that additional proctors be taken for the different soil materials It was agreed that all parties will review this situation in the field NOTE. None of the density tests performed to date have passed, and densities varied from 83-88%

V. TEST STRIP

R. Austin will proceed with the test strip this week, if he can get the density on the intermediate layer

VI. EROSION AND SEDIMENT CONTROL

R. Austin stated that Baker will install the hay bales and silt fences and will maintain the existing floating boom in the Class I pond

VII. AS-BUILT AND WORK ON INTERMEDIATE LAYER

J Clem informed R. Austin that if interim as-builts are needed between the sections in the construction plans, SSS can provide those as-builts R. Austin stated that he will need the interim as-builts With regards to as-builting the intermediate cover before density, J Clem stated that the intermediate must be as-built prior to compaction so the overlying clay and underdrains are on grade R. Austin stated that if the interim as-builts are provided, then as-builting before compacting will not be necessary. He questioned whether it was a formality because he plans to have approximately 18" of clay in the bottom of each terrace (where the underdrain will be constructed) and will cut that material out during the underdrain installation. J Clem reiterated that the as-builts can be provided for in interim sections in addition to the construction plan sections, but the as-built must be taken after the required density has been achieved.

cc Attendees
Greg Mathes
Chris Pearson
Doug Miller

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Principals
James E England PE, Pres
Robert E Thims Exec VP
Douglas C Miller PE, Exec VP
N Hugh Mathews, PE, Exec VP

MEETING MINUTES

DATE: Tuesday, May 13, 1997

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES: Jim Horton, Law Engineering (Law)
Richard Austin, R B Baker Construction, Inc (Baker)
Jay McMahan, R. B. Baker Construction, Inc
Juanitta Clem, England, Thims & Miller, Inc (ETM)
Buckley Williams, England, Thims & Miller, Inc

I. PROGRESS SCHEDULE

Baker submitted their revised progress schedule for construction, effective May 13, 1997

R Austin presented the following schedule for the week

A Baker will continue importing clay and top soil material from the clay borrow pit

B Gas wells will be installed this week and completed by next week

C Intermediate Cover - Baker will continue to compact the intermediate cover to achieve density on the side slopes for partial Units 7 & 8 R Austin stated that they are using a vibratory roller to achieve compaction B Williams added that Baker has used the vibratory roller (2 passes) and 4 of 6 density tests passed and the other 2 were at 88% R. Austin stated that they will continue to use the vibratory roller and determine a method to achieve density, be it 3, 4 or more passes

D CLAY TEST STRIP - R Austin stated that if the intermediate cover drys and they are able to achieve density on the intermediate cover, they should be able to construct a test strip by the end of this week

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II. INTERMEDIATE COVER AND TEST STRIP

R. Austin stated that the outside of the terraces appear low and additional material will be added to fill these low spots Since as-builts of the intermediate cover are required prior to the test strip construction and the test strip will be constructed on Unit 8, the test strip as-builts will be bound on the four corners between Sections 11 and 12 J Clem stated that if due to installation of gas wells, one of the as-built can not be taken, SSS can take an interim as-built (further up the slope as a temporary means) and then the as-built of the section can be taken later, after the gas well installation is complete.

R. Austin stated that once the test strip has been installed and the permeabilities are being run, Baker will proceed with removal of waste at the downcomer locations and then install clay in those areas J. Clem suggested the installation of extra clay for use as a clay flume for drainage during construction R. Austin stated that he may do it that way or he may actually install the downcomer pipes as soon as they arrive on site. R. Austin asked if the clay on the sides of the pipe will be tested. J Clem stated that the homogenous layer of clay for the side slope closure must be continuous on the sides and underneath the downcomer pipes, and the permeability of this 12-inch clay layer, whereas the clay on the sides of the downcomer pipe (the clay encasement), which is in addition to the 12-inch clay layer will not be tested for permeability but must be compacted.

III. CLAY BORROW MATERIAL

A sample of clay material was taken by R. Austin and B Williams from the on-site stockpile area. J Horton stated that the sample has a proctor value of 116 at an optimum moisture of 13 8, but the sample had sandy material in it J Horton stated that the result of this proctor, in conjunction with the borrow pit pre-qualification proctors and the sample taken by Baker, does reveal that this material does track when plotting the moisture and density relationship versus percent fines J Horton recommended that a new sample be taken after the material has been placed in the test strip area. All parties agreed that it would be beneficial to take a new sample and the proctor from the new sample will be used for the clay material.

IV. SHOP DRAWINGS

Baker submitted the shop drawing for the underdrain sand to J Clem The outstanding shop drawings include the aluminum plate in the drainage structures, the compactor assess roadway materials and culverts, compactor access concrete slab materials, the slag material, and stormwater modification materials

cc: Attendees
Greg Mathes
Chris Pearson
Scott McCallister
Doug Miller

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Principals
James E England PE Pres
Robert E Thims Exec VP
Douglas C Miller PE Exec VP
N Hugh Mathews PE, Exec VP

MEETING MINUTES

DATE: Tuesday, May 20, 1997

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES: Scott McCallister, Trail Ridge Landfill, Inc (TRLF)
Jimmy Purvis, Trail Ridge Landfill, Inc
John Teague, Law Engineering (Law)
Richard Austin, R B Baker Construction, Inc (Baker)
Jay McMahan, R B Baker Construction, Inc
Juanitta Clem, England, Thims & Miller, Inc (ETM)

I. PROGRESS SCHEDULE

Baker submitted their revised progress schedule for construction, effective May 20, 1997

R Austin presented the following schedule for the week

A CLAY TEST STRIP - The test strip was completed on Saturday Both lifts of the test strip were placed with a dozer and rolled with scarifying between layers Several additional construction methods were tried by the Contractor to determine methods required to achieve the specified results and corresponding permeability samples were taken.

B INTERMEDIATE COVER - Baker will continue to dress the intermediate cover from the Downcomer D-85 on the eastern slope towards the north

C CLAY LAYER - Once the test strip permeability results have been received and assuming that they pass, Baker will begin clay layer installation in the area north of D-85 Since eight of the permeability results are expected by Thursday, the density will be checked on Wednesday and as-builts are scheduled for Thursday morning

D MATERIAL HAULING - Baker will continue to import and stockpile clay on top of the landfill R Austin stated that he believes that the material for Units 1-4 (including partial Units 7 & 8) has been imported and he will begin with the material for Units 12-20 with

a new stockpile closer to those units

E GAS WELLS - All of the gas wells were installed last week and have been capped with a temporary cap

II. CONSTRUCTION STAKING

Upon discussion of the March staking of Units 1-4, it was agreed that Sunshine State Surveyors will check the staking on Units 12-14 which are currently being graded by TRLF

III. GAS FLARES

J Clem provided copies of a revised flare design from Koda Drilling which she received via fax She explained that in conversation with Craig Rosengrants of Koda, that he indicated that this new design is not as top-heavy as the previous design, is self-igniting and reduces the well from an 6-inch to a 2-inch pipe Further, he indicated that this revised design would cost approximately $100 more per well head and the estimated overall-cost is $1,500 versus $1,600 per well head J Clem asked C Rosengrants to submit a clean copy of the design so it can be transmitted to RUST for review

cc Attendees
Greg Mathes
Chris Pearson
Doug Miller

England-Thims & Miller, Inc.
ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS

Principals
James E England, PE Pres
Robert E Thims, Exec VP
Douglas C Miller, PE, Exec VP
N Hugh Mathews, PE Exec VP

MEETING MINUTES

DATE: Tuesday, May 27, 1997

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES: Scott McCallister, Trail Ridge Landfill, Inc (TRLF)
Jimmy Purvis, Trail Ridge Landfill, Inc
Jim Horton, Law Engineering (Law)
Richard Austin, R. B Baker Construction, Inc (Baker)
Juanitta Clem, England, Thims & Miller, Inc (ETM)
Buckley Williams, England, Thims & Miller

I. AS-BUILT INFORMATION

ETM will provide as-built information with regards to the primary and secondary 4" force mains, electrical conduit and clay anchor berm in the vicinity of Phases IB, IC, IIIA and leachate containment area

II. SLOPE ADJUSTMENT AT PHASE IB

R. Austin stated that it appears in order for the clay to tie-in to the anchor berm on the east side of the landfill in the vicinity of the Phase IB vault box, that the slope will need to be adjusted to meet the existing ground It is agreed that all parties would review this situation in the field after the meeting

III. PROGRESS SCHEDULE

R Austin presented the following schedule for the week·

A. CLAY PLACEMENT - R Austin stated that the project site received 1" of rainfall over the weekend and the site is too wet to place or work the clay Baker is waiting for the clay to dry and then will proceed with clay placement

B DOWNCOMER D-85 - Baker is removing waste as needed for the construction of the proposed downcomer pipe, D-85 Baker will then backfill with 12" of initial cover, compact the initial cover and place clay The clay layer will be thicker than 12" at this downcomer location to provide protection during construction

IV. TEST STRIP

B Williams stated that Baker has reworked the area on the second lift of the test strip where the one permeability test result did not pass the project specifications Once the required 91% density was achieved (verified with density gauge and Shelby Tube Method), an additional sample was taken for permeability testing This result should be back early next week

Jim Horton asked if Baker is comfortable with their procedure for the installation of the clay R. Austin stated that he is going to bring in another compacter to work the clay Presently, he is using a flat wheel roller, vibratory roller and an 815 compactor He would like to get a knobbed roller (which is like a vibratory roller except it has sheeps-foot teeth on the drum) R Austin stated that this should help achieve density It was agreed that the use of this type of drum does not necessitate a change in the method for the construction of the clay layer

It was agreed that the density for the clay layer will be set at 91%, based upon the test strip results. Jim Horton stated that the clay is a slightly different material than previous TRLF projects The percent fines are lower, therefore the compaction required to achieve permeability will be very important Jim Horton presented charts of the ten test strip permeability results, including the one test that failed Jim Horton noted that there was one passing permeability test that had a field density lower than 91% but he chose to eliminate that result due to the higher fines content Jim Horton commented that due to the nature of this material, it will require the 91% density It was agreed that even though there is one density result that is below 91%, that density is above the minimum requirement of 80% as outlined in the QA/QC, and it will be acceptable due to the passing permeability test

It was discussed that Baker may have a problem achieving density if the percent fines of the material increases R. Austin stated that he believes the percent fines will go up and the remainder of the material on-site should be a more clayey material It was agreed that Baker will have an option to construct another test strip if it is more cost effective than achieving the 91% density R. Austin expressed a concern regarding the gauge readings of the nuclear density gauge It was agreed that ETM and Law will calibrate the density gauge by checking moisture readings against other dry methods, Shelby Tube Methods, and microwave methods

V. VARIOUS ISSUES

The following topics were discussed and responses noted below

1 Downcomer Pipes - The 18" ADS pipe and fittings for the side drains are on-site but the HDPE pipe has not been delivered

2 Law has sampled the top soil material for organics and pH testing.

cc Attendees
Greg Mathes
Chris Pearson
Doug Miller
Jay McMahan

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MEETING MINUTES

Principals
James E England PE Pres
Robert E Thims, Exec VP
Douglas C Miller PE, Exec VP
N Hugh Mathews, PE Exec VP

DATE: Tuesday, June 3, 1997
2 00 - 3 00 PM

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES: Scott McCallister, Trail Ridge Landfill, Inc (TRLF)
Jimmy Purvis, Trail Ridge Landfill, Inc
Jim Horton, Law Engineering (Law)
Jay McMahan, R. B Baker Construction, Inc (Baker)
Richard Austin, R. B Baker Construction, Inc
Juanitta Clem, England, Thims & Miller, Inc (ETM)
Buckley Williams, England, Thims & Miller

I. SHOP DRAWING SUBMITTALS

J McMahan submitted shop drawings for the proposed crushed concrete and slag for the compactor access road as well as their rain delay report for the month of May, 1997

III. PROGRESS SCHEDULE

Baker submitted their revised progress schedule for construction effective June 3, 1997

R. Austin presented the following schedule for the week

A RAIN RECOVERY - The site is continuing to dry out from recent rains over the weekend Approx 1" of rainfall fell on the project site Baker hopes to begin full operation of clay work by this Thursday R Austin stated that he is working the intermediate cover to dry it out because the clay material dries faster than the intermediate cover material R. Austin stated that Baker will continue to work the clay from the north towards Downcomer D-85

B CLAY LAYER CONSTRUCTION - Baker will continue to work the clay layer on Units 4, 3, 2, and 1 and will tie-in the clay layer at the second terrace along Unit 7 into the existing clay layer on Unit 6

C DOWNCOMER CONSTRUCTION - Subsequent to completion of the clay layer in Units 1, 2, 3, and 4, north of Downcomer D-85, Baker will work the section south of the downcomer The downcomer will not be installed until the clay is being worked south of the downcomer

III. REQUIRED MINIMUM DENSITY FOR CLAY LAYER CONSTRUCTION

R. Austin stated that the clay material is a fattier clay with a higher fines content than the test strip material R Austin asked if the minimum density of the clay layer could be revised from 91% to 90%. In the test strip, the permeability was achieved at a 90% density B Williams stated that the last nine permeability tests had fines contents of 44% or higher and had passing perm results. The test strip had one passing permeability at 90% but consistently 91% density was needed due to the fines content below 40%. Upon review, it was agreed that the minimum requirement for density would be set at 90%, but J Horton and J Clem stated that Law and ETM would reserve the right to test the material at a higher density if the fines content changed R. Austin concurred but stated that he does not believe that the sandier material as used in the clay test strip is consistent and that any sandy clay in the stockpile will be worked in with the fattier clay

V. VARIOUS ISSUES

The following topics were discussed

1 Gas Flares - Scott McCallister will discuss with RUST the acceptability of the latest proposal for gas flares

2 Rework of Roadside Ditches - R. Austin inquired whether this work is required on the east side of the landfill J Clem replied yes, except that Baker will not be required to work those areas east (in front) of the vault boxes R. Austin asked if Baker can have the electrical and any other utility as-builts for those areas It was agreed SSS would stake-out the electrical lines and the 2" water main which services the leachate containment area.

R. Austin inquired whether they could till in 6" of peat moss to attain the required organics content and pH in the existing material versus removing that material completely and backfilling it with new material Upon review, it was agreed that the ditches must be cleaned (all the silt and muck removed), then the ditches must be regraded, and sodded/overseeded R. Austin agreed that he would have to stabilize the ditch

3 4" Force Mains - Baker was able to uncover the existing 4" leachate force mains in the anchor berm on the east side of the landfill

4 Top Soil Material - The top soil material sample from the stockpile had 0 7% organics and the required minimum is 1 5% R. Austin stated that he will add peat moss to increase the organics content

cc Attendees
Greg Mathes
Chris Pearson
Doug Miller

England-Thims & Miller, Inc.
ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS

MEETING MINUTES

Principals
James E England PE Pres
Robert E Thims, Exec VP
Douglas C Miller, PE, Exec VP
N Hugh Mathews PE, Exec VP

DATE: Tuesday, June 10, 1997
2 00 - 3 00 PM

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES: Scott McCallister, Trail Ridge Landfill, Inc (TRLF)
Jimmy Purvis, Trail Ridge Landfill, Inc
Jim Horton, Law Engineering (Law)
Jay McMahan, R B Baker Construction, Inc (Baker)
Richard Austin, R B Baker Construction, Inc
Juanitta Clem, England, Thims & Miller, Inc (ETM)
Buckley Williams, England, Thims & Miller

I. SHOP DRAWING SUBMITTALS

J Clem stated that Baker must resubmit the shop drawings for the crush-crete material including a new gradation test They must also submit for the slag material, including DEP approval for placement on the ground and TCLP test results for lead and cadmium J Clem discussed with S McCallister that a 2 ½" flare pipe can be provided on the gas flares by Koda Drilling

II. PROGRESS SCHEDULE

Baker submitted their revised progress schedule for construction effective June 10, 1997

R Austin presented the following schedule for the week

A CLAY INSTALLATION - R. Austin stated that Baker will continue to construct the clay layer including the tie-in along the anchor berm at the bottom of Unit 1 They will work from the tie-in at Unit 5 to Downcomer D-85 R Austin stated he will probably uncover the anchor berm in the morning as far as he can cover in one day in case rains come He will not excavate without covering it with clay the same day

B INITIAL COVER - Baker is continuing to dress and compact the initial cover south of Downcomer D-85 Once they placed clay on Units 1, 2 , and 3 north of D-85, they will proceed with placing clay south of D-85 R Austin stated that Baker may excavate for Downcomer D-24 It was noted that once Baker begins construction of the sections on the straight-a-ways on the east side of the landfill, the progress of the clay placement should be faster

III. VARIOUS ISSUES

The following topics were discussed

1 Units 12, 13, & 14 - TRLF plans to complete Units 12, 13, & 14 by the end of today R Austin stated that Baker will have their surveyor stake those sections to check the grades TRLF will leave the initial cover a little high in the terraces for clean-out purposes in case of rain

2 Compactor Access Road - R Austin stated that as soon as possible he will like to construct the compactor access road to provide compactor access for TRLF operations since they are beginning work south of D-85 J Clem stressed that it is important for Baker to resubmit their shop drawings for the crush-crete material as well as Marifi 600X geotextile R. Austin stated that he will install Downcomer D-85 first and then construct the road

3 Additional Shop Drawing Submittals - J Clem stated that Baker must submit shop drawings for the aluminum plate for Structure S-85 It was noted that this plate should be revised for constructability purposes Baker must also submit shop drawings for the 24" RCP pipe culverts

cc Attendees
Greg Mathes
Chris Pearson
Doug Miller

England-Thims & Miller, Inc.
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MEETING MINUTES

Principals
James E England PE Pres
Robert E Thims Exec VP
Douglas C Miller, PE Exec VP
N Hugh Mathews, PE Exec VP

DATE: Tuesday, June 17, 1997
2 00 - 3 15 PM

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES: Scott McCallister, Trail Ridge Landfill, Inc (TRLF)
Jimmy Purvis, Trail Ridge Landfill, Inc
Richard Austin, R B Baker Construction, Inc
Juanitta Clem, England, Thims & Miller, Inc (ETM)
Buckley Williams, England, Thims & Miller

I. PROGRESS SCHEDULE

R Austin presented the following schedule for the week

A INITIAL COVER - Baker will continue to compact and grade the initial cover on Units 1 and 2 from Downcomer D-85 to Downcomer D-24 As-built have been scheduled for tomorrow morning and Baker's plans to place clay on Units 1 and 2 tomorrow R Austin stated that there is possibility that they will finish the initial cover south of Downcomer D-24 this week

B UNITS 12 - 14 - R Austin stated that Baker will stake-out these units on Thursday

C CLAY LAYER - The second lift of clay has been placed on Units 7 and 8 as well as Units 3 and 4, north of Downcomer D-85 B Williams stated that there are 11 permeability tests being run in the laboratory and all the other permeability results have passed

II. UNITS 12 - 14

It was noted that TRLF has completed placement of initial cover on Units 12-14, and have turned these units over to Baker for their review Baker will survey these units on Thursday If there are any areas that need attention, R Austin will inform J Purvis R Austin stated that by next Tuesday's meeting, Baker should have accepted or rejected the units

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II. DISCUSSION OF SETTLEMENT OF LANDFILL

It was discussed that Baker has performed their construction staking of the sections for the top soil grades and according to R Austin, it appears that there is settlement of the landfill R Austin stated that it appears that there is an average of 6" of settlement on Terrace 1, approx 12" of settlement on Terraces 2 and 3, and approx 18" of settlement on Terrace 4

J Clem stated that the construction staking should be checked, therefore SSS will be on site tomorrow to check the construction staking (performed by Bradshaw Surveyors) R Austin took no exception to this but stated that he does not think the grades are wrong because he checked Bradshaw's work

J Clem stated that when SSS comes out to check the terraces, they will also check two locations on the slope below each terrace, (21 feet horizontally east of the terrace for a 7 foot drop (at a 3 1 slope) and another 21 feet further down the slope)

R Austin stated that a check should also be made in the centerline of the swale because he has approximately 1 5 to 2 feet of clay and the grades indicate that the additional clay is required to be on grade R Austin expressed concern because the landfill has already settled, when he places the additional 2 feet of top soil material, the settlement will probably continue

J Clem expressed concern regarding the construction of the underdrains since Baker planned to construct the underdrain after the top soil has been placed J Clem suggested that once Baker has completed the dressing of the clay and prior to top soil placement, they either designate areas for roads to access the terraces for the construction of the filter sand, underdrain and top soil or perhaps start with the first terrace and work upwards, accessing from the top R Austin stated that he will take that into consideration because his concern is keeping the integrity of the underdrain pipe intact and avoid having equipment running over the terraces once the underdrain is installed R Austin stated that he would like a decision as soon as possible regarding the grading of the terraces, and if the design grades need to be adjusted because of settlement J Clem stated that Baker could proceed with grading of the clay terraces because if any additional material is required due to settlement, that material will be added in top soil As long as Baker has 12 inches of clay and the minimum 1% slope in the terraces, then grading of the clay will not be affected by the settlement

cc Attendees
Greg Mathes
Chris Pearson
Jim Horton
Doug Miller

England-Thims & Miller, Inc.
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MEETING MINUTES

Principals
James E England, PE Pres
Robert E Thims, Exec VP
Douglas C Miller, PE , Exec VP
N Hugh Mathews, PE , Exec VP

DATE: Tuesday, June 24, 1997
2 00 - 3 00 PM

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES:

Jay McMahan	R B Baker Construction, Inc (Baker)
Jimmy Purvis	Trail Ridge Landfill, Inc (TRLF)
Richard Austin	R B Baker Construction, Inc
Juanitta Clem	England, Thims & Miller, Inc (ETM)
Buckley Williams	England, Thims & Miller, Inc (ETM)

I. PROGRESS SCHEDULE

Baker submitted their revised progress schedule for construction, effective June 24, 1997

Richard Austin presented the following schedule for the week

A CLAY LAYER - Baker should complete the second lift of clay on Units 1-4 from Downcomer D-24 to the northern limits of the units (Therefore, Units 4, 7 and 8 will be complete)

B DOWNCOMERS - A pipe crew has been scheduled to begin installation of Downcomers D-85 and D-24 the week after the July fourth weekend They will also install the Downcomer D-13, if possible

C INITIAL COVER - R Austin stated that Baker hopes to complete the work on the initial cover on the area south of Downcomer D-24, up to section #2 Once the initial cover has been completed, Baker will install both lifts of clay on this area, if time and weather permits

D UNITS 12-14 - R Austin stated that Baker has accepted Units 12-14 from TRLF Baker will begin work on those units later this week or next week

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E TOP SOIL - R Austin stated that he will wait to begin placement of top soil on Units 1-4 until the pipe crews have started or are nearing their start date for downcomer installation Baker will have their surveyors stake the terraces on Units 1-4 and 7&8 on Thursday to make sure that the correct thickness of clay has been installed Baker will also construct the backslopes on Terraces 3 & 4, as needed J Clem inquired about the schedule to prepare Units 12-14 for clay R Austin replied that he has estimated 3 days to complete the initial cover (compaction and grading) and then 2-3 days to cover the units with clay

II. UNIT 17 AT DOWNCOMER D-10

J Clem explained that there is concern about the construction of Unit 17 in the vicinity of Downcomer D-10 because waste is in-place approximately 8 feet east of the center of the downcomer but not 22 feet east of the center of the downcomer as shown on the construction plans This fill is not in-place due to the access road leading onto the landfill Juanitta stated that she would review this situation with G Mathes and S McCallister but it appears that Baker should revise the eastern limits of Unit 17 from the existing Station 107+15 (E) to Station 107+00 (E) (which means that the unit will end approximately 7 feet east of the downcomer section in lieu of 22 feet as shown on the Construction Drawings) Baker must install the downcomer on Unit 17 (including the Wye section) but they must place filter fabric and a cap on the east side of the Wye They will not be required to construct the eastern half of the terrace sub-out piping on Terrace 4

III. WATER MAIN

R. Austin stated that he is concerned about the location of the 2" water main J Purvis stated that if the water main is broken, it is only a 2" PVC pipe and it should be easy to fix J Purvis stated that TRLF may want Baker to install an irrigation line to there landscaping in the area of the water main

It was agreed that ETM and Baker will attempt to locate this water main on Thursday

cc Attendees
Greg Mathes
Chris Pearson
Scott McCallister
Jim Horton
Doug Miller

England-Thims & Miller, Inc.
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Principals
James E England, PE Pres
Robert E Thims, Exec VP
Douglas C Miller, PE, Exec VP
N Hugh Mathews PE, Exec VP

MEETING MINUTES

DATE: Tuesday, July 1, 1997
2 00 - 3 30 PM

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES:

Scott McCallister	Trail Ridge Landfill, Inc (TRLF)
Jimmy Purvis	Trail Ridge Landfill, Inc (TRLF)
Jay McMahan	R B Baker Construction, Inc (Baker)
Richard Austin	R B Baker Construction, Inc (Baker)
Juanitta Clem	England, Thims & Miller, Inc (ETM)
Buckley Williams	England, Thims & Miller, Inc (ETM)

I. PROGRESS SCHEDULE

Baker submitted their revised progress schedule for construction, effective July 1, 1997

Richard Austin presented the following schedule for the week

A UNITS 1-4 and UNITS 7 & 8 - All of the clay has been placed in these areas and Baker will check the terraces to make sure that the correct thickness of clay has been placed in all areas Baker has also set construction stakings for top soil grades and will begin that work next week

B UNITS 12-14 - Baker will complete the grading and compaction of initial cover for Units 12-14 They will place the clay in the downcomer location for Downcomer D-13

C UNIT 14 - Baker should be ready for as-builts tomorrow morning and will begin placing the clay Wednesday afternoon, if possible R Austin stated that Baker will be shutting down operations at 12 00 noon on Thursday and will not be back on site until Monday, due to the Fourth of July holiday

D DOWNCOMERS - R Austin stated that Baker has scheduled a pipe crew for next week to begin installation of the downcomer pipes

II. DISCUSSION OF SETTLEMENT OF LANDFILL

It was discussed that Baker has performed their construction staking of the sections for the top soil grades and according to R Austin, it appears that there is settlement of the landfill R Austin stated that it appears that there is an average of 6" of settlement on Terrace 1, approx 12" of settlement on Terraces 2 and 3, and approx 18" of settlement on Terrace 4

J Clem stated that the construction staking should be checked, therefore SSS will be on site tomorrow to check the construction staking (performed by Bradshaw Surveyors) R Austin took no exception to this but stated that he does not think the grades are wrong because he checked Bradshaw's work

J Clem stated that when SSS comes out to check the terraces, they will also check two locations on the slope below each terrace, (21 feet horizontally east of the terrace for a 7 foot drop (at a 3 1 slope) and another 21 feet further down the slope)

R. Austin stated that a check should also be made in the centerline of the swale because he has approximately 1 5 to 2 feet of clay and the grades indicate that the additional clay is required to be on grade R Austin expressed concern because the landfill has already settled, when he places the additional 2 feet of top soil material, the settlement will probably continue

J Clem expressed concern regarding the construction of the underdrains since Baker planned to construct the underdrain after the top soil has been placed J Clem suggested that once Baker has completed the dressing of the clay and prior to top soil placement, they either designate areas for roads to access the terraces for the construction of the filter sand, underdrain and top soil or perhaps start with the first terrace and work upwards, accessing from the top R Austin stated that he will take that into consideration because his concern is keeping the integrity of the underdrain pipe intact and avoid having equipment running over the terraces once the underdrain is installed R Austin stated that he would like a decision as soon as possible regarding the grading of the terraces, and if the design grades need to be adjusted because of settlement J Clem stated that Baker could proceed with grading of the clay terraces because if any additional material is required due to settlement, that material will be added in top soil As long as Baker has 12 inches of clay and the minimum 1% slope in the terraces, then grading of the clay will not be affected by the settlement

cc Attendees
Greg Mathes
Chris Pearson
Jim Horton
Doug Miller

England-Thims & Miller, Inc.
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Principals
James E England PE Pres
Robert E Thims Exec VP
Douglas C Miller PE, Exec VP
N Hugh Mathews, PE, Exec VP

MEETING MINUTES

DATE: Tuesday, July 8, 1997
2 00 - 3 45 PM

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES:

Scott McCallister	Trail Ridge Landfill, Inc (TRLF)
Jimmy Purvis	Trail Ridge Landfill, Inc (TRLF)
Debbie Perez	Trail Ridge Landfill, Inc (TRLF)
Jim Horton	Law Engineering (Law)
Jay McMahan	R B Baker Construction, Inc (Baker)
Richard Austin	R B Baker Construction, Inc (Baker)
Juanitta Clem	England, Thims & Miller, Inc (ETM)
Buckley Williams	England, Thims & Miller, Inc (ETM)
Jim Williams	England, Thims & Miller, Inc (ETM)

I. PROGRESS SCHEDULE

Baker submitted their revised progress schedule for construction, effective July 8, 1997

Richard Austin presented the following schedule for the week

A. Downcomer Piping D-85 - Baker has a pipe crew on-site and Fife Pipe arrived this afternoon Baker will install the downcomer throughout the remainder of this week

B Clay Layer and Top Soil Construction - Baker is continuing to let the site dry out, due to weekend rains As the clay material dries out, they will finish grade the clay layer and begin placement of top soil below the first terrace

II. WATERMAIN CONFLICT AT DOWNCOMER D-85

It was noted that the existing 2" watermain which feeds the leachate containment area is in direct conflict with Downcomer D-85 and has been taken out of service J Purvis stated that the line has been turned off due to another break at the leachate containment area It was agreed that Baker will complete all the work at the downcomer and remaining ditch grading north of Downcomer D-85 and before sodding, the 2" watermain will be repaired or relocated It was agreed that the repair at the leachate containment area and the addition of an irrigation tap could be made at the same time

III. GAS FLARE CONSTRUCTION

S McCallister stated that he has contacted Mr Woosley with Jacksonville RESD and the City is still reviewing the gas flares

IV. ALARM CONDUIT AT DOWNCOMER D-85

An alarm conduit was cut during the construction of Downcomer D-85 B Williams stated that the as-builts show six conduits located in that area and there were six conduits that were not disturbed Therefore, the additional alarm conduit may be a dead wire It was agreed that B Williams will contact Randy Strosser of Miller Electric to review the alarm wiring to determine if it has been cut for the vault boxes south of Downcomer D-85 He will also get an estimate for the installation of seal-offs for the alarm panel at the leachate containment area

V. SETTLEMENT OF LANDFILL DURING CONSTRUCTION

Regarding the construction of the underdrain, R Austin stated that he is adjusting the grades in the terraces due to the settlement at each terrace R Austin stated that the first terrace has an average settlement of approx 6" and the second terrace approx 1 2' The clay layer at the terraces will be graded on a 1% slope to insure proper drainage of the underdrain (located on top of the clay layer) R Austin stated that he is concerned that there is uneven settlement in the terraces and therefore, there would be dips or humps in the terraces centerline It was agreed that the terrace must have a minimum 1% grade Baker will dig test holes every 100' to insure the required 12" thickness

R Austin stated that Baker has a concern regarding settlement of the terraces and whether the additional top soil is necessary to meet the finished grade Presently, the top terrace (Terrace No 4) has settled approx 1 5'

J Clem stated that the closure should be constructed to permitted design grades and if there are any deviations from the design grades, she recommends reviewing this situation with DEP prior to proceeding S McCallister agreed to speak to DEP because construction of the top soil to the design grades is only a temporary fix and within weeks, the hill will settle which is already evident in the closed Units 5, 6, 7, 8, 9, 10, and 11, where there is settlement of 5' R Austin inquired whether using the subgrade certification for the construction on the 3 1 slopes and then using thickness checks for the remaining materials would be acceptable J Clem stated that it may be possible provided the 1% slope is maintained in the terraces However, she will not change the grades on the landfill prior to DEP approval S McCallister stated that ETM and TRLF will review this with the DEP R Austin inquired as how he is to proceed S McCallister stated that Baker is to proceed with construction to the design grades

It was noted that Baker will work on the placement of top soil material in Unit 1 below Terrace 1 at the beginning of this week through the remainder of the week R Austin stated that if he had 10-12 days of dry weather, he could have the entire east side of the landfill covered with top soil It was stressed that it is important that this situation be resolved as soon as possible

cc Attendees
Greg Mathes
Chris Pearson
Doug Miller

England-Thims & Miller, Inc.
ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS

Principals
James E England PE , Pres
Robert E Thims Exec VP
Douglas C Miller, PE , Exec VP
N Hugh Mathews, PE , Exec VP

MEETING MINUTES

DATE: Tuesday, July 15, 1997
2 00 - 3 00 PM

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES:

Scott McCallister	Trail Ridge Landfill, Inc (TRLF)
Jimmy Purvis	Trail Ridge Landfill, Inc
Chris Pearson	City of Jacksonville (City)
Neal Rushing	City of Jacksonville
Richard Austin	R B Baker Construction, Inc (Baker)
Juanitta Clem	England, Thims & Miller, Inc (ETM)
Buckley Williams	England, Thims & Miller, Inc

I. PROGRESS SCHEDULE

Baker submitted their revised progress schedule for construction, effective July 15, 1997

Richard Austin presented the following schedule for the week

A TOP SOIL - R. Austin stated that Unit 7 has been covered with top soil and the majority of Unit 1 has also been covered with top soil Baker is installing underdrain prior to top soil placement

B UNDERDRAIN CONSTRUCTION AND DOWNCOMER PIPES - Downcomers D-24 and D-85 have been installed and underdrain construction is proceeding in Terraces 1 and 2 The underdrain has been placed in Terrace 2 at Unit 7 and Baker should begin the underdrain below Unit 8 today J Clem inquired about the underdrain grades in the terraces and how they are checking the 1% slope R Austin stated that Baker is checking the underdrain every 10' and also checking the thickness of the clay layer before any pipe is laid

C SOD - Sod placement is scheduled for Friday on Unit 1

II. UNITS 12 - 14

R Austin stated that Baker is attempting to get density on these units They have scheduled as-builts for later in the week B Williams stated that some clay permeability test still have to be taken for the Downcomer D-13 J Clem inquired when Baker would be installing Downcomer D-13 R Austin stated that it could be approx 2 weeks away because he would like to complete construction on Units 1-4 first

III. ADJUSTMENT OF DESIGN GRADES

S McCallister stated that he has spoken with Mary Nogas with the FDEP regarding the settlement of the landfill during construction The DEP does not take exception to an adjustment of the design final grades to account for the settlement and will not require adjustment of the grades above Terrace 4 during future closures J Clem stated that the two main issues regarding the top soil construction are 1) there shall be 24" minimum of top soil and 2) the 1% minimum grade from high to low within the terraces shall be maintained

J Clem stated that ETM has reviewed the stakes set by Bradshaw and there does appear to be some differential settlement across Terrace 4 (1 25' and 1 4', for an average of 1 3') R Austin agreed but questioned what could be done during the construction since the landfill will continue to settle It was agreed that an adjustment must be made at a particular point It was agreed that Baker will survey each terrace and ETM in cooperation with Baker will review the data and determine an adjustment It was noted that it appears the first terrace will need to be lowered 0 3' but each terrace will be reviewed individually J Clem noted that it appears that Terrace 2 has settled 0 6', Terrace 3 approx 0 8', and Terrace 4 approx 1 3' R Austin stated that those appear to be close approximations R Austin inquired whether differential settlement will be a factor and J Clem stated that an entire terrace should be lowered the same amount, to insure the 1% minimum slope and the 2' minimum of top soil It was agreed that, if possible, the terraces would be lowered evenly across an entire terrace

cc Attendees
Greg Mathes
Jim Horton
Jay McMahan
Doug Miller

England-Thims & Miller, Inc.
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Principals
James E England PE, Pres
Robert E Thims, Exec VP
Douglas C Miller PE, Exec VP
N Hugh Mathews, PE, Exec VP

MEETING MINUTES

DATE: Tuesday, July 22, 1997

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES:

Scott McCallister	Trail Ridge Landfill, Inc (TRLF)
Jimmy Purvis	Trail Ridge Landfill, Inc
Richard Austin	R B Baker Construction, Inc (Baker)
Jay McMahan	R B Baker Construction, Inc
Jim Horton	Law Engineering (Law)
Juanitta Clem	England, Thims & Miller, Inc (ETM)
Buckley Williams	England, Thims & Miller, Inc

I. PROGRESS SCHEDULE

Baker submitted their revised progress schedule for construction, effective July 22, 1997

Richard Austin presented the following schedule for the week

A Sodding - Baker will continue placing sod on areas that have received the required 24" of top soil, have been graded, and as-built surveyed Sod should be complete on Units 1,2 and 3 by the end of the week

B Underdrain and Downcomer Construction - Baker's pipe crew should complete all the underdrain piping by tomorrow morning including all 18" lateral pipes for Downcomer D-24

J Clem reviewed the proposed construction of the underdrain at Terrace #4 at Downcomer D-85 It was agreed that due to operational needs, the underdrain pipe will not be installed but the underdrain pipe would be constructed within 1-2' of the centerline of Terrace #4 and capped Baker will construct the rip-rap pad around the 18" pipe on the backslope and below the pipe for stabilization of the slope around the pipe It was also agreed that the Compactor Access Road would be constructed to the top of the proposed terrace (elevations) and then tied into the existing landfill on the uphill, west side (for ease of operations)

C Units 12, 13 and 14 - Initial Cover - R Austin requested an as-built survey of the initial cover on these units for tomorrow morning R Austin inquired whether Baker would be responsible for settlement of the initial cover material, prior to the as-built survey J Clem and B. Williams concurred that Baker would be responsible for the settlement R Austin stressed this as a concern and noted that Baker should not accept areas (from TRLF) unless they are ready for the as-built survey It was noted that Baker is allowed the minus 0 2' tolerance for grade on the initial cover

D Top Soil - R Austin stated that he will hold off top soil placement on Units 1-4, if he gets too far ahead of the sodding operation Further, he would like to be able to work on either top soil or clay (on Units 12-14) in case of bad weather

II. GRADE ADJUSTMENTS ON TERRACES

J Clem reviewed the following grade adjustments for the final grades for Units 1-4 on the east side of the landfill

	Adjustment*
Terrace #1	-0 30'
Terrace #2	-0 50'
Terrace #3	-0 75'
Terrace #4	-1 6'

* Adjustment from Construction Drawing Design Grades

J Clem clarified that the adjustments take into account the settlement within the terrace and the drainage from high to low (to ensure the minimum 1% slope from high to low in the terraces) In all cases, the adjustments allowed were the minimum settlement throughout the terraces

III. GAS FLARES

J Clem explained that the City of Jacksonville (RESD) has approved the installation of temporary gas flares on the landfill J McMahan stated that he has a quote of the material costs for the gas flares using a 3" pipe Due to the increased cost of this size pipe, Baker will resubmit their price based upon a 2" pipe (Note It was requested during review of the shop drawings that the pipe be either 2" or 2 ½" and not 3")

Since there is a gas flare allowance in the contract, once a price is agreed upon, J McMahan agreed to proceed with ordering of the gas flares

IV. OUTSTANDING ISSUES

Baker will prepare a package outlining the various additions and deducts to the contract for inclusion into a change order for submittal to the City of Jacksonville The various items include the level indicators for the Leachate Storage Tanks, water main and electrical utility adjustments (in conflict with the Compactor Access Road), working of additional clay at the Unit 7 tie-in with Unit 6, and reduction in closure area on Units 1, 2 and 17

cc Attendees
Greg Mathes
Chris Pearson
Doug Miller

England-Thims & Miller, Inc.
ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS

Principals
James E England, PE Pres
Robert E Thims Exec VP
Douglas C Miller, PE , Exec VP
N Hugh Mathews, PE Exec VP

MEETING MINUTES

DATE: Tuesday, July 29, 1997
11 30 - 12 15 PM

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES:

Greg Mathes	Trail Ridge Landfill, Inc (TRLF)
Scott McCallister	Trail Ridge Landfill, Inc
Jimmy Purvis	Trail Ridge Landfill, Inc
Debbie Perez	Trail Ridge Landfill, Inc
Richard Austin	R B Baker Construction, Inc (Baker)
Jay McMahan	R B Baker Construction, Inc
Johnny Teague	Law Engineering (Law)
Chris Pearson	City of Jacksonville
Doug Miller	England, Thims & Miller, Inc (ETM)
Jim Williams	England, Thims & Miller, Inc
Buckley Williams	England, Thims & Miller, Inc

I. PROGRESS SCHEDULE

Baker submitted their revised progress schedule for construction, effective July 28, 1997

Richard Austin presented the following schedule for the week

A CLAY PLACEMENT - Baker will continue the placement of the second lift of clay on Units 12-14 Baker will also continue grading the initial cover on Units 15-17 and subsequent to as-built survey, will place clay on those units beginning Wednesday Baker has also excavated out for the Downcomer D-13

B SODDING - Florida Carter will resume sodding on Units 7 & 8 Wednesday afternoon or Thursday morning, and will proceed with Units 3 & 4 later in the week Baker does not anticipate placement of top soil materials this week D Miller asked about the schedule of the compactor access road and R Austin stated that as soon as the majority of the sod is in place, that road will be constructed Approx 80% of the crush-crete material is on-site and the fabric should be delivered to the site this week

C RIP RAP CONSTRUCTION - Baker will proceed with rip rap construction as needed where other areas are lacking progress

II. SAFETY ISSUES REGARDING SOD PLACEMENT

In reference to two minor accidents last week involving Florida Carter, G Mathes asked that safety be a top priority of both Baker and Florida Carter J McMahan stated that Baker has addressed a letter to Florida Carter (copy to TRLF and ETM) asking for some assurities of safety issues and supervision on-site Last week two pieces of equipment were incapacitated from the sideslopes, and since this incident, sodding operations have been halted G Mathes inquired if the issue of wearing seatbelts would be reviewed by Baker and Florida Carter, and J McMahan stated that it would J Purvis requested that when equipment is brought on-site in the future, it be approved by Baker to insure it is capable of traveling up the 3 1 sideslopes with loaded pallets G Mathes requested that Baker and Florida Carter review their safety operations with Billy Purvis of TRLF

It was noted that all sod from last week has passed the 72 hour rule and will be replaced with new sod

III. GAS FLARES

Baker will submit their price for the gas flares According to J McMahan, LTI is recommending 1-1/2" size flare and if the 1-1/2" is used, the flares could be constructed under the $20,000 contract allowance

cc Juanitta Clem

England-Thims & Miller, Inc.
ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS

Principals
James E England PE Pres
Robert E Thims, Exec VP
Douglas C Miller, PE Exec VP
N Hugh Mathews PE Exec VP

MEETING MINUTES

DATE: Tuesday, August 5, 1997
2 00 - 3 00 PM

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES:		
	Jimmy Purvis	Trail Ridge Landfill, Inc (TRLF)
	Richard Austin	R B Baker Construction, Inc (Baker)
	Jay McMahan	R B Baker Construction, Inc
	Johnny Teague	Law Engineering (Law)
	Jim Horton	Law Engineering
	Jim Williams	England, Thims & Miller, Inc (ETM)
	Buckley Williams	England, Thims & Miller, Inc

I. PROGRESS SCHEDULE

Baker submitted their revised progress schedule for construction, effective August 4, 1997

Richard Austin presented the following schedule for the week

A SOD PLACEMENT - Florida Carter is continuing to place sod on Units 2, 3 and 4, and is scheduled to complete Unit 2 tomorrow R Austin stated that no more top soil will be placed until the sod has caught up with the top soil already in place

B RIP RAP CONSTRUCTION - Baker has completed as much rip rap at the terrace side drains as possible, including Terrace 1 at Downcomer D-24, and Terraces 1 and 2 at Downcomer D-85 R Austin stated that additional rip rap will be placed along Downcomer D-85 after the crush crete access road has been completed

C CLAY PLACEMENT - Baker has completed the placement and testing of all clay on Units 12-14

D SURVEYING - Bradshaw Surveyors will soon begin staking out Units 12-14 in preparation for underdrain construction

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E COMPACTION OF INITIAL COVER - R Austin stated that the grading of the initial cover on Units 15, 16 and 17 was completed last Wednesday but due to high moisture content, Baker is still trying to achieve density

R Austin stated that at present, he believes the initial cover has a density between 16-17% By aerating the material, he hopes to obtain a moisture content under 15% to achieve the minimum 90% compaction requirement He stated the area of difficulty in achieving density is on the eastern half of Unit 16 and the eastern three quarters of Unit 17 All sampling has been completed to ensure the correct proctors are being used

B Williams has reviewed the situation and stated it appears that this material has a higher fines content (over 40%), and is consistent with clay material used elsewhere on the project B Williams has reviewed the material with Law but has been unable to review it with J Clem or D Miller B Williams stated that a modification to the specification requirements could not be obtained this week and that this issue would be reviewed next week He stated that Baker should continue the drying process and work on achieving density during this time

It was noted that TRLF would attempt to place a sandier material in their remaining work on the west side of the landfill It was noted that the only area they would need to place the material would be in Unit 20

J McMahan asked what the modified proctor could be changed to J Horton stated that it is unclear at this time what an equivalent strength requirement be, but presently there is a 10-lb differential between the two standards of proctors (modified and standard)

II. GAS FLARES

Scott McCallister is reviewing the gas flares and upon his review, will direct Baker on how to proceed with the allowance

cc Greg Mathes
Scott McCallister
Chris Pearson
Doug Miller
Juanitta Clem

England-Thims & Miller, Inc.
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Principals
James E England, PE Pres
Robert E Thims Exec VP
Douglas C Miller, PE Exec VP
N Hugh Mathews, PE Exec VP

MEETING MINUTES

DATE: Tuesday, August 12, 1997
2 00 - 3 00 PM

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES:

Scott McCallister	Trail Ridge Landfill, Inc (TRLF)
Jimmy Purvis	Trail Ridge Landfill, Inc
Richard Austin	R B Baker Construction, Inc (Baker)
Jim Horton	Law Engineering (Law)
Johnny Teague	Law Engineering
Doug Miller	England, Thims & Miller, Inc (ETM)
Jim Williams	England, Thims & Miller, Inc

I. PROGRESS SCHEDULE

Baker submitted their revised progress schedule for construction, effective August 11, 1997

Richard Austin presented the following schedule for the week

A SOD PLACEMENT - Florida Carter is continuing to place sod on Units 2, 3, and 4, and should be completed in the next few days

B CLAY PLACEMENT - Clay is being placed in Units 15, 16, and 17 Some settling is occurring in Units 16 & 17 Baker will add more clay then have grades certified Units 18 & 19 appear good, garbage being added to Unit 20 Units 18 & 19 will be graded next week

C TOP SOIL PLACEMENT - Top soil will be placed in Units 12 & 13 next week

D COMPACTION - Proper density achieved in Units 18 & 19, after lengthy drying time due to high clay content Same problem may exist in Units 15, 16, & 17 Samples will be taken in Units 18, 19, & 20 to determine percentage of fines, if fines are greater than 30%, standard proctor may be acceptable Regulatory agency will be consulted for acceptability

II. SOD PLACEMENT SAFETY ISSUES

No further problems have been experienced with the sod equipment

cc Greg Mathes
Chris Pearson
Juanitta Clem

England-Thims & Miller, Inc.
ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS

Principals
James E England PE Pres
Robert E Thims, Exec VP
Douglas C Miller PE, Exec VP
N Hugh Mathews, PE Exec VP

MEETING MINUTES

DATE: Tuesday, August 19, 1997
2 00 - 3 00 PM

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES:		
	Scott McCallister	Trail Ridge Landfill, Inc (TRLF)
	Richard Austin	R B Baker Construction, Inc (Baker)
	Doug Miller	England, Thims & Miller, Inc (ETM)
	Jim Williams	England, Thims & Miller, Inc
	Buckley Williams	England, Thims & Miller, Inc

I. PROGRESS SCHEDULE

Baker submitted their revised progress schedule for construction, effective August 19, 1997

Richard Austin presented the following schedule for the week

A CLAY LAYER - R Austin stated that Baker anticipates completing the second lift of clay on Units 15-17 by the end of this week

B DOWNCOMERS D-10 & D-13 - R Austin stated that Fife Pipe has arrived on site and Baker is continuing construction of the 30" downcomer pipes on Units 12-14 and Units 15-17 R Austin stated that Downcomer D-13 should be complete on Units 12-14 by the end of tomorrow, and hopefully later in the week Downcomer D-10 can be installed

C TOP SOIL PLACEMENT - Top soil placement will resume on Unit 12 below Terrace 2 and as the underdrains are constructed on Terraces 2 and 3, the top soil material will be placed and then the top soil construction will proceed to Units 15-17 B Williams reminded R Austin that additional samples of the underdrain material will be needed as soon as the material is delivered to the site

D SOD PLACEMENT - Florida Carter has been scheduled to resume sodding with approx 3 truckloads of sod beginning tomorrow

II. UNITS 18-20

D Miller stated that he has spoken with J Horton regarding the initial cover on Units 18-20 It appears that approx 80% of the material has fines of more than 30% with some as high as 50% D Miller stated that it appears the appropriate test for density should be according to the Standard Proctor rather than the Modified Proctor presently noted in the QA/QC documents D Miller stated that ETM will send a letter or note in the QA/QC as needed for this minor deviation D Miller also stated that the modified proctor was specified in anticipation of the use of sandy material but it appears that since this material has fines contents above 30%, a standard proctor is appropriate

It was noted that TRLF is continuing placement of initial cover material on these units, (specifically, Unit 20) and plans to turn these units over to Baker by the end of this week

IV. GAS FLARES

Baker faxed their price for the construction of the gas flares to ETM's office this morning and upon review by TRLF and ETM, the submittal will be treated as a shop drawing and Baker will be notified so they can proceed with the installation of the flares

cc Greg Mathes
Jimmy Purvis
Jim Horton
Chris Pearson
Juanitta Clem

England-Thims & Miller, Inc.
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MEETING MINUTES

Principals
James E England PE Pres
Robert E Thims, Exec VP
Douglas C Miller, PE Exec VP
N Hugh Mathews PE Exec VP

DATE: Tuesday, August 26, 1997
2 00 - 3 00 PM

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES:

Greg Mathes	Trail Ridge Landfill, Inc (TRLF)
Scott McCallister	Trail Ridge Landfill, Inc
Chris Pearson	City of Jacksonville (City)
Richard Austin	R B Baker Construction, Inc (Baker)
Jim Horton	Law Engineering (Law)
Juanitta Clem	England, Thims & Miller, Inc (ETM)
Buckley Williams	England, Thims & Miller, Inc

I. PROGRESS SCHEDULE

Richard Austin presented the following schedule for the week

A SODDING - Florida Carter will continue to sod Unit 12 and by the end of the week will begin sod placement on Unit 15

B TOP SOIL LAYER - Baker will continue their top soil placement on Unit 15 and then will move to Units 13, 16 and 17 later in the week

J Clem suggested that Baker consider using mulch from the City's yard waste facility for soil amendment material which may help with erosion control of the top soil layer R Austin stated that he would review that option

C UNDERDRAIN CONSTRUCTION - R Austin stated that the top soil placement will follow the underdrain construction The underdrains will be installed in Terrace 2, and then Terrace 3, so by the end of this week, hopefully the underdrain and top soil will be completed on Units 12-17

D INITIAL COVER - R Austin also stated that he will begin looking at Units 18-20 towards the end of the week and will consult with Jimmy Purvis as to the condition of those units for release by TRLF to Baker

II. VARIOUS ISSUES

The following topics were discussed and responses noted below

Initial Cover Testing - J Clem stated that she is discussing with Mary Nogas of the DEP, changing the density testing from a Modified Proctor to a Standard Proctor, based on the percent fines of the material R Austin stated that he does not believe that Baker will be working on the initial cover until next week J Horton stated that B Williams should review field samples of the percent fines material (as tested by Law) to determine what testing should be completed

Change Orders - It was agreed that the level indicator for the leachate storage tanks will be processed by the City, and that change order is forthcoming Also ETM and Baker will review the various additions and deducts on the project and prepare a change order for these items

cc Jimmy Purvis
Jay McMahan
Neal Rushing

England-Thims & Miller, Inc.
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Principals
James E England PE Pres
Robert E Thims Exec VP
Douglas C Miller, PE , Exec VP
N Hugh Mathews PE , Exec VP

MEETING MINUTES

DATE: Tuesday, September 2, 1997
2 00 - 3 00 PM

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES:

Jimmy Purvis	Trail Ridge Landfill, Inc (TRLF)
Chris Pearson	City of Jacksonville (City)
Richard Austin	R B Baker Construction, Inc (Baker)
Ken Bunnell	Law Engineering (Law)
Juanitta Clem	England, Thims & Miller, Inc (ETM)
Buckley Williams	England, Thims & Miller, Inc

I. PROGRESS SCHEDULE

Richard Austin presented the following schedule for the week

A SODDING - Florida Carter has sodded Units 12 and 15 and will begin placing sod on Units 13 and 16 tomorrow

B TOP SOIL LAYER - Baker will continue top soil placement on Units 3, 14 and 17 Top soil needs to be placed on Unit 3 from Downcomer D-85 to the south

C INITIAL COVER - Baker will begin work on the initial cover at the northwest corner of the landfill They plan to grade and compact the initial cover up to Section S-27

D UNDERDRAIN AND DOWNCOMER CONSTRUCTION - Baker has completed the installation of Downcomers D-10 and D-13 as well as the underdrain on Terraces 2 and 3 on Units 12-17

E COMPACTOR ACCESS ROAD AND CONCRETE SLAB - R Austin stated that he may be able to begin this construction as early as next week

II. VARIOUS ISSUES

The following topics were discussed and responses noted below

Units 18-20 - J Purvis stated that Units 18 and 19 are nearly complete and within a couple of days, TRLF should complete the placement of initial cover on Unit 20 Baker plans to begin stake-out of Sections S-27 and S-26 and should accept Units 18-20 later in the week

North Perimeter Road and Roadside Swale - J Clem stated that the existing roadway appears to be approx 0 5' lower than the design grade and the existing roadside swales have silt in them Nevertheless, Baker must construct the roadside swales to the design grades

Structure S-13 - It was noted that the drainage along the west side of the access road onto the landfill must be diverted into Structure S-13 In the future, a downcomer pipe will probably be constructed into that structure but in the meantime, it was agreed that a throat should be cut to control the drainage

8" Leachate Collection - J Clem stated that ETM will forward a detail to Baker regarding a proposed end treatment of the 8" leachate cleanouts on Phases IA, IB, and IC to match the end treatments previously constructed at Phase IV and IVB This construction includes a 12" corrugated metal pipe, a cement slurry and 4" thick concrete pad C Pearson stated that the City has some corrugated metal pipe at the North Landfill and would be able to transport it to the site

Sodding - Sod is required on the eastern slope adjacent to Units 15, 16 and 17 (on west side of the access road). Baker was requested to provide an estimate for this additional sod

cc Greg Mathes
Scott McCallister
Jim Horton
Jay McMahan
Neal Rushing

England-Thims & Miller, Inc.
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Principals
James E England PE Pres
Robert E Thims Exec VP
Douglas C Miller PE Exec VP
N Hugh Mathews, PE Exec VP

MEETING MINUTES

DATE: Tuesday, September 9, 1997
2 15 - 3 15 PM

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES:		
	Scott McCallister	Trail Ridge Landfill, Inc (TRLF)
	Richard Austin	R B Baker Construction, Inc (Baker)
	Ken Bunnell	Law Engineering (Law)
	Juanitta Clem	England, Thims & Miller, Inc (ETM)
	Buckley Williams	England, Thims & Miller, Inc

I. PROGRESS SCHEDULE

Richard Austin presented the following schedule for the week

A CLAY LAYER - Baker plans to have both clay lifts on Units 18, 19 and 20 completed by the end of this week

B DOWNCOMER D-5 & UNDERDRAIN - A pipe crew is scheduled to arrive next Monday They should take approximately a week and a half to complete the installation of Downcomer D-5 and the underdrains on Units 18, 19 and 20

Baker has inventoried their supplies and should have all of the downcomer and underdrain pipe and fittings to complete the project Further, there should be sufficient clay to complete the project, but there may not be sufficient top soil

C SOD - Florida Carter plans to complete the sodding of Units 2 and 3 by this afternoon Top soil has been placed on Unit 14 and subsequent to the as-built survey, Florida Carter will begin the unit

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D RIP RAP - Baker will install rip rap around the terrace side drains on Units 13 and 14 at Downcomer D-13 By late this week or early next week, Baker will begin grading the roadside swale adjacent to Unit 1 R Austin stated that he will not begin work on the compactor access road until the majority of his clay and top soil work is complete Prior to the construction of the compactor access road, Baker must reconnect the 2" water main

II. VARIOUS ISSUES

The following topics were discussed and responses noted below

Class I Pond Maintenance - R Austin stated that he will remove silt from the northern leg of the pond but TRLF must decide where they want the material stockpiled S McCallister stated he would discuss this issue with J. Purvis B Williams recommended that Baker flush the drainage crossings prior to the pond maintenance

Pay Requests - J Clem stated that she is awaiting a pay request from Baker R Austin will contact J McMahan regarding the pay request

Gas Flares - Baker does not have a schedule for the installation of the gas flares (The change order was signed approx 2 weeks ago)

Level Indicator - S McCallister stated that the level indicators have been approved by the City, but the Change Order has not been received from Baker

Leachate Clean-outs - J Clem stated that in lieu of corrugated metal pipe and concrete pad around the leachate clean-out pipes at the west end of the landfill, bollards should be installed Upon review with S McCallister, it was agreed that the bollards would work (2 at each leachate clean-out pipe)

Weekly Meetings - The weekly meetings were moved to Wednesdays at 2 00 PM

Shop Drawings - It was noted that Baker still needs to submit shop drawings for the compactor access road including the concrete slab, mix design, steel reinforcing, and related signage as well as the stormwater modifications, and the aluminum plate for Structure S-85

cc Greg Mathes
Chris Pearson
Jimmy Purvis
Jim Horton
Jay McMahan
Neal Rushing

England-Thims & Miller, Inc.
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Principals
James E England, PE , Pres
Robert E Thims, Exec VP
Douglas C Miller, PE Exec VP
N Hugh Mathews PE , Exec VP

MEETING MINUTES

DATE: Tuesday, September 17, 1997
2 00 PM

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES:		
	Greg Mathes	Trail Ridge Landfill (TRLF)
	Richard Austin	R B Baker Construction, Inc. (Baker)
	Jay McMahan	R B Baker Construction, Inc
	Ken Bunnell	Law Engineering (Law)
	Juanitta Clem	England, Thims & Miller, Inc (ETM)

I. PROGRESS SCHEDULE

Richard Austin presented the following schedule

A DOWNCOMER D-5 & UNDERDRAIN - A pipe crew is scheduled to arrive next Monday They should take approximately a week and a half to complete the installation of Downcomer D-5 and the underdrains on Units 18, 19 and 20

B TOP SOIL - Baker will be placing top soil on Unit 17

C SOD - Florida Carter will be placing sod on Unit 18

D DRAINAGE STRUCTURES - Baker will be replacing the damaged Mitered End Section in the swale on the eastern side of the landfill

E RIP RAP - Baker will install rip rap around the terrace side drains at the top of Downcomers D-24, D-13 and D-10

F SWALE GRADING - Baker will begin the grading of the swale below Unit 12 They will start on the east end and work toward the west and continue with the swale below Unit 17, if possible

G WATER MAIN - Prior to the construction of the compactor access road, Baker will reconnect the 2" water main

II. VARIOUS ISSUES

The following topics were discussed and responses noted below

Electrical Conduit - D Austin explained that he will install a sleeve for the damaged electrical conduit. This conduit is below the anchor berm and the sleeve will be installed approximately 2 5 feet below design grade.

Gas Flares - The gas flares have been delivered to the site

Leachate Clean-outs - J Clem explained that the clean-outs on the west side of the landfill were not constructed to accommodate final cover Therefore, they will be at or below design final grades. It was agreed that since the proposed gas collection system will tap into these leachate clean-outs, TRLF will put posts beside these clean-outs in the meantime

Shop Drawings - J McMahan explained that he will be hiring a subcontractor to install the concrete slab for the compactor access road This subcontractor will submit shop drawings for this work The same applies to the stormwater modifications J. McMahan stated that he thought the slag material for the compactor access road was approved J Clem agreed to review her files

Change Order - A change order for deducting portions of Units 1, 2 and 17 and adding the completion of Unit 20 as well as all project changes was negotiated The net result was a change order for no additional (or deduct) in monies It was agreed that J Clem would draft Change Order No 3 to the contract as well as the Work Change Directive with the City tomorrow and notify Chris Pearson

cc Chris Pearson
Scott McCallister
Jimmy Purvis
Jim Horton
Neal Rushing
Doug Miller

England-Thims & Miller, Inc.
ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS

Principals
James E England, PE Pres
Robert E Thims Exec VP
Douglas C Miller PE Exec VP
N Hugh Mathews PE Exec VP

MEETING MINUTES

DATE: Wednesday, September 24, 1997
2 00 PM

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES:		
	Scott McCallister	Trail Ridge Landfill (TRLF)
	Richard Austin	R B Baker Construction, Inc (Baker)
	Jay McMahan	R B Baker Construction, Inc
	Ken Bunnell	Law Engineering (Law)
	Juanitta Clem	England, Thims & Miller, Inc (ETM)

I. PROGRESS SCHEDULE

Richard Austin presented the following schedule

A DOWNCOMER D-5 & UNDERDRAIN - The pipe crew has installed Downcomer D-5 and the underdrains on Terrace 1 (Unit 18) The underdrains will be installed on Terrace 2 (Unit 19)

B TOP SOIL - Baker will be placing top soil on Units 19 and 20

C SOD AND OVERSEED - Next week, sod will be placed on Units 19 and 20 Florida Carter will begin the overseeding operation tomorrow

D RIP RAP - Baker has installed rip rap around the terrace side drains at the top of Downcomers D-85 and D-10 They will be installing the rip rap at the top of Downcomer D-24

E SWALE GRADING - Baker has graded the swales below Units 12, 15 and 20 They have begun the grading below Unit 1 and will final grade and sod this area this week

F WATER MAIN - Baker has reconnected the 2" water main but still needs to repair the water main in the vicinity of the containment area

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G COMPACTOR ACCESS ROAD - This construction will begin next week, if possible

H POND MODIFICATIONS AND POND MAINTENANCE - This construction will also begin next week, if possible It was agreed that any pond discharges would be monitored for turbidity both morning and evening

II. VARIOUS ISSUES

The following topics were discussed and responses noted below

Grade Adjustments - Due to settlement at the top of Unit 20, Terrace 4 on this unit has been adjusted down one foot At this point, Terraces 2 and 3 on Units 18 and 19 do not require adjustment

Electrical Repairs - J McMahan will coordinate the repairs with Tom Lesso of Miller Electric

Gas Flares - Installation of the gas flares has not been scheduled yet

Shop Drawings - J McMahan will submit the test information regarding the slag material for the compactor access road

Project Schedule - Baker estimated that the project will be complete by the end of the month, provided that the weather is cooperative Nevertheless, J Clem agreed to contact the DEP to determine the status of the last three time extension requests It was noted that only the first request has been approved by the DEP (Subsequent to the meeting, J Clem spoke to Francis Dayao of the DEP and he appeared receptive to granting the time extension as requested)

cc Chris Pearson
Greg Mathes
Jimmy Purvis
Jim Horton
Neal Rushing
Doug Miller

England-Thims & Miller, Inc.
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Principals
James E England, PE Pres
Robert E Thims Exec VP
Douglas C Miller, PE , Exec VP
N Hugh Mathews, PE , Exec VP

MEETING MINUTES

DATE: Wednesday, October 1, 1997
2 00 PM

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES:

Jimmy Purvis	Trail Ridge Landfill (TRLF)
Chris Pearson	City of Jacksonville
Neal Rushing	City of Jacksonville
Richard Austin	R B Baker Construction, Inc (Baker)
Jay McMahan	R B Baker Construction, Inc
Ken Bunnell	Law Engineering (Law)
Juanitta Clem	England, Thims & Miller, Inc (ETM)

I. PROGRESS SCHEDULE

Richard Austin presented the following schedule

A DOWNCOMER D-5 & UNDERDRAIN - The downcomer and underdrains have been completed on Units 18-20 The rip rap will be installed at the downcomer side drains this week

B TOP SOIL - Baker has placed top soil on Units 19 and 20 and the units are being as-built today These units will be sodded upon completion of the as-builts According to R Austin, Units 18 and 19 should not require grade adjustments and the previous adjustment of one foot on Unit 20 should be sufficient

C SOD AND OVERSEED - Florida Carter overseeded the in-place sod last week They should complete the sodding by the end of next week

D SWALE GRADING - Baker has graded and sodded the swales except a portion of the area below Unit 1 which has not been sodded

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E COMPACTOR ACCESS ROAD - This construction will begin this week, if possible and will proceed into next week. The concrete slab is scheduled for next week with subcontractor, R & E Construction, Inc

F POND MODIFICATIONS AND POND MAINTENANCE - This construction will begin next week, if possible The pond discharges are being monitored for turbidity both morning and evening

G GAS FLARES - Baker will begin the installation of the flares as fill-in work this week if possible It was agreed that the flares should be a minimum of 10 feet above the ground and a maximum of 12 feet above the ground

II. VARIOUS ISSUES

The following topics were discussed and responses noted below·

Stormwater Modifications - J McMahan has submitted the shop drawings for the PVC pipe and gate valves Upon discussion, it was agreed that the pipe could be perforated in the field and the pipe supports would consist of a tee section that is grouted up to the flow line. Upon discussion, it was agreed that a grouted section of 18" or 24" pipe (with straps) would be used as the support for the gate valves

Project Schedule - J Clem spoke with Francis Dayao of the DEP and the DEP has granted a time extension through December 3, 1997, as requested

Payment Request - The pay request for September was drafted and J McMahan will submit the request upon finalization

cc Scott McCallister
Greg Mathes
Jim Horton
Doug Miller

England-Thims & Miller, Inc.
ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS

Principals
James E England PE Pres
Robert E Thims, Exec VP
Douglas C Miller, PE , Exec VP
N Hugh Mathews, PE Exec VP

MEETING MINUTES

DATE: Wednesday, October 8, 1997
2 15 PM

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES:

Jimmy Purvis	Trail Ridge Landfill (TRLF)
Scott McCallister	Trail Ridge Landfill
Richard Austin	R B Baker Construction, Inc (Baker)
Jay McMahan	R B Baker Construction, Inc
Ken Bunnell	Law Engineering (Law)
Juanitta Clem	England, Thims & Miller, Inc (ETM)

I. PROGRESS SCHEDULE

Richard Austin presented the following schedule

A SOD PLACEMENT - Florida Carter is placing sod on Unit 20 and the downcomer area on Units 18 and 19 The sod placement should be completed this week

B COMPACTOR ACCESS ROAD - The compactor access road has been completed except the tie-in with the concrete slab The shop drawings for the concrete compactor access slab will be submitted this week and hopefully, the work will be started this week

C POND MODIFICATIONS AND POND MAINTENANCE - The materials for the pond modification have been delivered to the site with the exception of the valve stem and handwheel, which will be delivered this week This work will be conducted after the compactor access slab has been completed The stormwater pond maintenance is on-going After the pond maintenance has been completed, Baker will seed the disturbed pond side slopes Baker will use the application rates for seed in accordance with the specifications

D SILT FENCE AND HAY BALES - The silt fence is being installed today The hay bales will arrive next week D Austin stated that he hopes to complete the installation by the end of next week

E GAS FLARES - Baker will install the flares as fill-in work this week, if possible

II. VARIOUS ISSUES

The following topics were discussed and responses noted below

Change Order Work

Level Indicators - J. McMahan is awaiting the materials for the installation. He anticipates receipt by the end of the month and will schedule the installation with Cogburn Electric, upon receipt

Water Main Repair - The repair at the conflict with the downcomer pipe has been completed However, the repair near the containment area has not been completed

Electrical Work - J McMahan will contact Miller Electric and schedule this work

Sod Placement - The eastern back-slope of Units 15 - 17 has not been final graded. D Austin will schedule this work

Project Schedule - D Austin stated that he plans to complete the project by the end of next week Prior to the meeting and following the meeting, D Austin, J. Clem and K Bunnell walked the project and prepared a preliminary punch-list.

cc Greg Mathes
Chris Pearson
Neal Rushing
Jim Horton
Doug Miller

England-Thims & Miller, Inc.
ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS

Principals
James E England PE Pres
Robert E Thims Exec VP
Douglas C Miller PE, Exec VP
N Hugh Mathews PE, Exec VP

MEETING MINUTES

DATE: Wednesday, October 15, 1997
2 00 PM

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES:

Jimmy Purvis	Trail Ridge Landfill (TRLF)
Scott McCallister	Trail Ridge Landfill
Richard Austin	R B Baker Construction, Inc (Baker)
Ken Bunnell	Law Engineering (Law)
Juanitta Clem	England, Thims & Miller, Inc (ETM)

I. PROGRESS SCHEDULE

Richard Austin presented the following schedule

A SOD PLACEMENT - Florida Carter has completed the initial sod placement They will work on clean-up and over-seeding

B COMPACTOR ACCESS ROAD - The compactor access slab will be poured this week and stripped next week The posts will be delivered and installed this week The bollards and signs should be delivered by tomorrow and installed during the concrete pour

C POND MODIFICATIONS AND POND MAINTENANCE - The stormwater pond maintenance is complete except for seeding of the side slopes The stormwater pond modifications will be made this week if possible

D SILT FENCE AND HAY BALES - This work will be completed this week

E GAS FLARES - Baker has assembled the flares and installed all but one flange onto the wells The flares will be installed tomorrow

F CLEANING OF CROSS DRAINS - This work will be completed this week

G ALUMINUM BAFFLE - The baffle will be installed into Structure S-85 this week

II. VARIOUS ISSUES

The following topics were discussed and responses noted below

Change Order Work

Level Indicators - Baker is awaiting receipt of the materials for the installation

Water Main Repair - The repair near the containment area has not been completed

Electrical Work - Miller Electric has not completed this work

Sod Placement - The eastern back-slope of Units 15 - 17 have been sodded

cc Greg Mathes
Chris Pearson
Neal Rushing
Jim Horton
Jay McMahan
Doug Miller

England-Thims & Miller, Inc.
ENGINEERS • PLANNERS • SURVEYORS • LANDSCAPE ARCHITECTS

Principals
James E England, PE , Pres
Robert E Thims, Exec VP
Douglas C Miller, PE Exec VP
N Hugh Mathews PE Exec VP

FINAL INSPECTION

DATE: Monday November 3, 1997
9 00 AM

PLACE: Trail Ridge Landfill

REFERENCE: Trail Ridge Landfill
Incremental Closure Construction
E96-92-4

ATTENDEES:

Sonny Daniels	R B Baker Construction, Inc
Chris Pearson	City of Jacksonville
Neil Rushing	City of Jacksonville
Ken Bunnell	Law Engineering
Juanitta Clem	England, Thims & Miller, Inc
Jimmy Carter	Florida Carter

SIDE SLOPE UNITS 1 - 4 AND 7 - 8

Roadside Swale - Provide general clean-up in the swale including the area around the mitered end section at the southern limits and south of Pump Station IC Sod the areas that are missing sod

Unit 1 - Re-grade and re-sod the southern limits in the vicinity of the access path for the sodding operation Monitor the sod to the north of this area

Unit 2 - Re-grade and then re-sod Terrace 1 from the compactor access road to the south so the terrace has a 2 5 foot depth while maintaining the 24" of top soil cover over the clay layer and the minimum 1% slope to the south

Unit 3 - Re-grade and then re-sod Terrace 2 at the corner in the vicinity of Section S-11 as well as at the corner near Section S-9 Check the underdrain at the corner near Section S-9 to see if it has been damaged Fix the erosion on the slope in the vicinity of Section S-11 Add top soil and then sod the bare areas north of Gas Well W-18

Adjust the silt fence and hay bales in the vicinity of Downcomer D-24 so the silt fence and bales turn up the slope to the west at the northern limits Monitor the sod in the vicinity of the downcomer pipe (See Sod note below)

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Unit 4 - Appears acceptable, except the sod shall be monitored (See Sod note below).

Unit 7 - Fix erosion on the slope in the vicinity of Section S-11. Monitor the sod on the terrace (See Sod note below).

Unit 8 - Appears acceptable, except the sod on the terrace shall be monitored (See Sod note below)

DOWNCOMER D-24

Replace the Confined Space sign at the structure Signs will be provided by Trail Ridge Landfill, Inc

Terrace 1 - Fill the voids in and around the edges of the rip rap pad on both downcomer inlets Fill the invert in the rip rap pad to each inlet

Terrace 2 - Fill the voids in the rip rap pads and fill the void along the western edge of the rip rap pad on the northern inlet Fill the invert in the rip rap pad to each inlet The sod in this area must be monitored (See the Sod note below)

Terrace 3 - Fill the voids in the rip rap pad on both inlets Fill the invert in the rip rap pad to each inlet

DOWNCOMER D-85

Replace the Confined Space sign at the structure Dress around the structure, place rip rap on the south side of the structure and then re-sod this area as needed

Terrace 1 - Fill the voids in the rip rap pad on the downcomer inlet Fill the invert in the rip rap pad to the inlet Fix the erosion on the western edge of the rip rap pad and then re-sod

Terrace 2 - Fix the erosion on the western edge of the rip rap pad and then re-sod Fill the invert in the rip rap pad to the inlet

Terrace 3 - Fill the invert in the rip rap pad to the inlet

Terrace 4 - Fill the void in the rip rap adjacent to the compactor access road

COMPACTOR ACCESS ROAD

Re-work the slag road so there is a turning radius where the slag road adjoins the perimeter road Re-work and then seed the area south of the slag road to the mitered end section (MES) to provide a smooth slope and then grout the edges of the MES

Clean-up the excess concrete, etc from each side of the compactor access road near the bottom, then re-grade and sod this area Replace sod along the roadway on Unit 2, as needed

SIDE SLOPE UNITS 12 - 14

Unit 12 - The sod on this unit has army worms which must be eradicated prior to final acceptance. The sod on this unit shall be monitored (See Sod note below)

Unit 13 - Appears acceptable, except the sod at the terraces shall be monitored (See Sod note below)

Unit 14 - Appears acceptable, except the sod east of the downcomer shall be monitored (See Sod note below)

DOWNCOMER D-13

Replace the Confined Space sign at the structure

Terrace 2 - Fix the erosion on the southern edge of the rip rap pad on the western downcomer inlet and then re-sod Fill the invert in the rip rap pad to each inlet.

Terrace 3 - Fix the erosion on the southern edge of the rip rap pad on the western inlet and then re-sod Fill the invert in the rip rap pad to each inlet

Terrace 4 - Fill the invert in the rip rap pad to each inlet

SIDE SLOPE UNITS 15 - 17

Unit 15 - The sod on this unit has army worms which must be eradicated prior to final acceptance The sod on this unit shall be monitored (See Sod note below)

Unit 16 - Terrace 1 near the corner is holding water This area must be re-graded and then re-sodded The sod at the terraces shall be monitored (See Sod note below)

Unit 17 - The area near the corner, where the sod is turned up and rutted, must be re-graded and then re-sodded The sod on the terraces and in the vicinity of the downcomer shall be monitored (See Sod note below)

Eastern Side Slope - This sod shall be monitored (See Sod note below)

DOWNCOMER D-10

Provide general clean-up around the structure and replace the Confined Space sign at the structure Install rip rap on both sides of the structure to stabilize the area

Terrace 2 - Fill the low area on top of the downcomer and make sure that the area drains toward the downcomer inlets Fill the invert in the rip rap pad to each inlet Re-sod the area above the downcomer

Terrace 3 - Fix the erosion around the edges of the rip rap pad on both inlets and then re-sod Fill the invert in the rip rap pad to each inlet

Terrace 4 - Fill the invert in the rip rap pad to each inlet

SIDE SLOPE UNITS 18 - 20

Clean-up, re-grade and then re-sod the area south of the structure in the roadside swale

Unit 18 - Appears acceptable, except the sod in the vicinity of the downcomer shall be monitored (See Sod note below)

Unit 19 - Terrace 1 north of the downcomer and to the corner is holding water This area must be re-graded and then re-sodded The sod in the vicinity of the downcomer and terrace shall be monitored (See Sod note below)

Unit 20 - Appears acceptable, except the sod in the vicinity of the downcomer shall be monitored (See Sod note below)

DOWNCOMER D-5

Replace the Confined Space sign at the structure.

Terrace 2 - Re-grade the area over the downcomer (to eliminate the wheel ruts) and then re-sod Provide clean-up of the area to the south of the downcomer inlet Fill the voids in the rip rap pads Fix the erosion around the eastern edge of the rip rap pad on the northern inlet and then re-sod Fix the erosion in the terrace near the southern inlet Fill the invert in the rip rap pad to each inlet

Terrace 3 - Fix the erosion at the bottom of the terrace at the northern inlet and then re-sod Fill the invert in the rip rap pad to each inlet

Terrace 4 - Fill the invert in the rip rap pad to each inlet

GAS WELLS & FLARES

W-5 (On Unit 14) - Appears acceptable
W-8 (On Unit 17) - Appears acceptable
W-9 (On Unit 17) - Appears acceptable
W-10 (On Unit 20) - Appears acceptable
W-17 (On Unit 8) - Appears acceptable
W-18 (On Unit 3) - Appears acceptable
W-25 (On Unit 20) - Appears acceptable
W-35 (On Unit 3) - Appears acceptable

STORMWATER SYSTEM

Pond Side Slopes - Monitor the side slopes and re-grade and/or re-seed to ensure a stand of grass as required

Floating Boom - Must be reinstalled

Pond Modifications - Install the end cap on the pipe extension

Calibrate Gate Valves to Design Flow - This shall be accomplished with the assistance of Trail Ridge Landfill, Inc., upon attaining the normal water elevation

ELECTRICAL WORK - This work was checked upon completion and appears acceptable.

LEVEL INDICATORS - This work has not been initiated, except ordering the materials

WATER MAIN REPAIR - This work has been completed

SOD - There are a number of areas where the sod appears stressed It was agreed to replace all dead sod. It was also agreed that once the work on this punch-list has been completed and is ready for inspection, we will reinspect the sod Areas where the sod has taken root but does not have an acceptable stand of grass will be logged and then checked in the spring and replaced if a stand of grass has not been established

All the units must be checked immediately and monitored for army worms

OTHER ISSUES - The Contractor must provide general site clean-up including the area of the stormwater modification and construction trailer area as well as the area of the closure units and adjacent roadside swales The Contractor must remove all construction stakes and sod pallets

cc Greg Mathes
Scott McCallister
Jimmy Purvis
Jay McMahan
Doug Miller

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 4-21-97 Monday
		2. Report Number 1
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature Unknown High Low	10 Weather Unknown	11 Hours on Job 7 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Mobilization** - R B. Baker continued to mobilize including trailer set up, material storage and equipment transport

NOTE. Notice to Proceed for this project was issued on Friday, April 18, 1997.

13. Work Force

EQUIPMENT: Trackhoe____; Loader____, Dozer____, Compactor _1__; Sheepsfoot Roller____, Rubber-Tire Backhoe____, Long-Stick Trackhoe___,Motorgrader____, Track Gradall____, Rubber-Tire Gradall___; Pan___, DJB__2__, Posi-Track___, CMI __; Mixer ___; Vibratory Roller ___; Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon ___, Fuel Truck_1_, Other__Haul Trucks_____

CREWS: Intermediate Layer Crew ____; Clay Layer Crew _____; Pipe Crew___; Topsoil Crew ____; Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew __; Concrete Crew ___; Erosion Control Crew ____; Clean-up Crew ___; Maintenance Crew ___, Survey Crew ___; Liner Crew___;Liner Clean-Off Crew___; Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___; Gas Well Crew ___, Other _____

14. Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 4-22-97 Tuesday
		2. Report Number 2
3 ET&M No. E96-92-4	4. Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6. Contractor **R.B. Baker Construction, Inc.**	7. Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 84 Low 66	10 Weather Partly Cloudy	11 Hours on Job 11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Mobilization** - R.B. Baker continued to mobilize including trailer set up, material storage and equipment transport.

2. **Top Soil** - R.B. Baker began hauling top soil material from their 'Lane Pit'. This material is being stockpiled on top of the landfill The 'Lane Pit' is the clay borrow pit which is currently being analyzed for pre-qualification. R.B. Baker is importing the overburden material from the pit for future use as top soil material.

13. Work Force

EQUIPMENT: Trackhoe____; Loader____, Dozer____, Compactor _1_; Sheepsfoot Roller____, Rubber-Tire Backhoe____, Long-Stick Trackhoe___,Motorgrader____, Track Gradall____; Rubber-Tire Gradall____; Pan___, DJB_2_; Post-Track___, CMI __; Mixer ___, Vibratory Roller _1_; Traffic Roller____, Steel Wheel Roller____, Paver____; Pumps ___; Water-wagon ___, Fuel Truck_1_, Other Haul Trucks

CREWS: Intermediate Layer Crew ____; Clay Layer Crew _____; Pipe Crew___; Topsoil Crew ____; Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___; Grading Crew ___; Dress Crew ___, Concrete Crew ___; Erosion Control Crew ____; Clean-up Crew ____, Maintenance Crew ___; Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ___; Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14 Tests Performed

- B. Williams of ETM and J Teague of Law performed density tests on the intermediate cover on Units 1, 2 and 3 at approx. STA. 90+00N

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

- See minutes of today's Construction Progress Meeting Weekly meetings are scheduled for every Tuesday at 2.00 PM

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 4-23-97 Wednesday
		2. Report Number 3
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 80 Low 72	10 Weather Rain most of day - 2 30" as per TRLF	11 Hours on Job 11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 R B. Baker was unable to perform any work today due to last night's and this morning's rain event.

13. Work Force

EQUIPMENT: Trackhoe____; Loader____; Dozer____, Compactor _1__, Sheepsfoot Roller____, Rubber-Tire Backhoe____; Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB_2__, Posi-Track___, CMI ___, Mixer ___; Vibratory Roller _1__; Traffic Roller___, Steel Wheel Roller___, Paver____; Pumps ___, Water-wagon ___; Fuel Truck_1__; Other_____

CREWS: Intermediate Layer Crew ____; Clay Layer Crew _____, Pipe Crew___, Topsoil Crew ____; Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___; Maintenance Crew ___; Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1. Date & Day of Week 4-24-97 Thursday
		2. Report Number 4
3 ET&M No. E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5. Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 78 Low 55	10 Weather Mostly Sunny	11 Hours on Job 11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Top Soil Hauling** - Due to yesterday's rainfall, R.B Baker was unable to import material to the site.

2. **Unit 1 - Sections 1 to Sections 2** - B. Williams investigated whether this area could be closed. Upon review in the field, B. Williams determined that the existing hill terminates approx. 45' south of Section S2 and Section S1 is located where the temporary ditch is located along the south side of Phase IIIA. B. Williams informed D Austin that R B Baker will not be required to close the area between S1 and S2

13. Work Force

EQUIPMENT: Trackhoe____, Loader____, Dozer_____, Compactor _1_; Sheepsfoot Roller____, Rubber-Tire Backhoe____; Long-Stick Trackhoe____,Motorgrader____; Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB_2_; Posi-Track____, CMI ___; Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___; Water-wagon ___, Fuel Truck_1_, Other_____

CREWS: Intermediate Layer Crew ____, Clay Layer Crew _____; Pipe Crew___; Topsoil Crew ____; Subgrade Crew___, Crush-crete Crew___; Excavation Crew ___, Grading Crew ___; Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ___; Maintenance Crew ___; Survey Crew ___; Liner Crew___,Liner Clean-Off Crew___; Dewatering Crew ___; Sod Crew ___; Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1. Date & Day of Week 4-25-97 Friday
		2. Report Number 5
3. ET&M No E96-92-4	4. Short Title - Trail Ridge Landfill Incremental Closure	5. Place 5110 US 301, Baldwin, Florida
6. Contractor R.B. Baker Construction, Inc.	7. Superintendent Richard Austin	8. Quality Control Monitor Buckley K. Williams
9. Temperature High 82 Low 59	10. Weather Partly Cloudy	11. Hours on Job 10

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Top Soil & Clay Hauling** - R B Baker resumed importing both top soil and clay material to the site today.

2. **Survey** - SSS provided horizontal and vertical control for Units 1 through 4 and surveyed the previously closed area at the outside of the second terrace between Sections 11 and Sections 12.

   Late in the afternoon, R.B. Baker's surveyor, Bradshaw, began surveying of the side slopes for Units 1 through 4 to check the grades for acceptance by R B Baker

13. Work Force

EQUIPMENT: Trackhoe____, Loader____, Dozer____, Compactor _1_; Sheepsfoot Roller____, Rubber-Tire Backhoe___, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___; DJB__2_; Posi-Track___; CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___; Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon ___, Fuel Truck___, Other__Haul Trucks _____

CREWS: Intermediate Layer Crew ____, Clay Layer Crew _____, Pipe Crew___; Topsoil Crew ____; Subgrade Crew___; Crush-crete Crew___; Excavation Crew ___, Grading Crew ___; Dress Crew ___; Concrete Crew ____, Erosion Control Crew ____; Clean-up Crew ___; Maintenance Crew ___; Survey Crew ___; Liner Crew___;Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____; Gas Well Crew ____, Other _____

14 Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

* **Clay Borrow Pit** - B. Williams visited the clay pit to observe excavation and hauling operations. R.B. Baker is working in the northwest corner of the pit, towards the south Overburden material (top soil) was loaded and imported to the site. R.B Baker has rim ditches cut as needed to control groundwater. B. Williams emphasized to D. Austin that R.B. Baker must keep the clay clean and not contaminate it with sandy material. D Austin agreed and added that he has informed his personnel of the importance of separating the sandy material from the clay material. D Austin noted that he would monitor this operation.

* **Clay Borrow Pit Pre-Qualification Testing** - Chris Martin of Law informed B Williams this morning that the two clay borrow pit permeability samples passed the project specifications as follows. CL-1 = 1.0×10^{-6} cm/sec and CL-2 = 1.7×10^{-6} cm/sec B Williams informed D Austin of these results.

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 4-26-97 Saturday
		2. Report Number 6
3 ET&M No. E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 82 Low 59	10 Weather Mostly Cloudy - Rain	11 Hours on Job 5 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Units 1 through 4 - Intermediate Layer** - R.B. Baker planned to determine if a dozer could achieve the required 90% density on the intermediate layer in Units 1 through 4 (under review by R.B Baker) Heavy rainfall hit the project at approx. 9 30 AM

13. Work Force

EQUIPMENT: Trackhoe____; Loader____; Dozer__1__; Compactor __1__; Sheepsfoot Roller____; Rubber-Tire Backhoe____, Long-Stick Trackhoe___,Motorgrader____; Track Gradall____; Rubber-Tire Gradall___; Pan___, DJB__2__; Posi-Track___, CMI ___; Mixer ___; Vibratory Roller __1__; Traffic Roller___; Steel Wheel Roller___, Paver____; Pumps ___, Water-wagon ___; Fuel Truck___, Other_____

CREWS: Intermediate Layer Crew ____; Clay Layer Crew _____; Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___; Excavation Crew ___, Grading Crew ___; Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ____, Maintenance Crew ___; Survey Crew ___; Liner Crew___,Liner Clean-Off Crew___; Dewatering Crew ___; Sod Crew ___, Seed & Mulch Crew ___; Gas Well Crew ___; Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* The project rain gauge (able to record up to 11" of rainfall) was established today near monitoring well, B-14

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 4-27-97 Sunday
		2. Report Number 7
3 ET&M No. E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature Unknown High Low	10 Weather Rain all day	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No work observed - Rain all day

13. Work Force

EQUIPMENT: Trackhoe____; Loader____, Dozer_____, Compactor____, Sheepsfoot Roller____, Rubber-Tire Backhoe___, Long-Stick Trackhoe___,Motorgrader___; Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB____; Posi-Track___, CMI ___, Mixer ____, Vibratory Roller ___; Traffic Roller___; Steel Wheel Roller___, Paver____; Pumps ___, Water-wagon ___, Fuel Truck___, Other_____

CREWS: Intermediate Layer Crew ____, Clay Layer Crew _____, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___; Crush-crete Crew___; Excavation Crew ____; Grading Crew ___; Dress Crew ___, Concrete Crew ____, Erosion Control Crew ____; Clean-up Crew ____; Maintenance Crew ___, Survey Crew ___; Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ____, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1. Date & Day of Week 4-28-97 Monday
		2. Report Number 8
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7. Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 77 Low 68	10 Weather Rain all day - 0 45" received today	11 Hours on Job 6

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. Due to continual rainfall since Saturday morning, no work was completed today. Approx. 4.08" of rainfall was received on the project site from Saturday morning until 7:00 AM this morning. Rain continued to fall all day.

13. Work Force

EQUIPMENT: Trackhoe____; Loader____; Dozer____, Compactor____, Sheepsfoot Roller____, Rubber-Tire Backhoe___; Long-Stick Trackhoe____,Motorgrader____; Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB____, Posi-Track___; CMI ___; Mixer ____; Vibratory Roller ___, Traffic Roller___; Steel Wheel Roller___, Paver____, Pumps ___; Water-wagon ___, Fuel Truck___, Other Haul Trucks

CREWS: Intermediate Layer Crew ____; Clay Layer Crew _____; Pipe Crew___, Topsoil Crew ____; Subgrade Crew___; Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___; Concrete Crew ____, Erosion Control Crew ____, Clean-up Crew ___; Maintenance Crew ___, Survey Crew ___; Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ___; Sod Crew ____, Seed & Mulch Crew ____; Gas Well Crew ____, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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GENERAL QUALITY ONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 4-29-97 Tuesday
		2. Report Number 9
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6. Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 84 Low 72	10 Weather Mostly Sunny	11 Hours on Job 8

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Weather Delay** - Due to the 4.53" of rainfall since Saturday morning (and the 6.83" of rainfall in the past six days), the site was too wet to work on the side slopes. As per D Austin, R B. Baker will not be able to import clay material from the clay borrow pit until tomorrow at the earliest and possibly not until Thursday. D. Austin added that he has had 7-10" of rainfall at the clay pit and his haul roads are under water.

13. Work Force

EQUIPMENT: Trackhoe____, Loader____, Dozer_1__, Compactor_1__, Sheepsfoot Roller_1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____; Track Gradall____; Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___; CMI ___; Mixer ___, Vibratory Roller __1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon ___, Fuel Truck_1__; Other_____

CREWS: Intermediate Layer Crew ____; Clay Layer Crew _____; Pipe Crew___; Topsoil Crew ____; Subgrade Crew___, Crush-crete Crew___, Excavation Crew ____, Grading Crew ___, Dress Crew ___, Concrete Crew ____; Erosion Control Crew ____; Clean-up Crew ____, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ____, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* See minutes of today's Construction Progress Meeting

* **Clay Test Strip** - A general discussion regarding the test strip occurred between B Williams, J. Clem, J. Horton, J. McMahan, and D Austin In general, R B Baker will use various methods to construct several test strips (i e. different degrees of compaction and moisture) to determine a range of confidence

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1. Date & Day of Week 4-30-97 Wednesday
		2. Report Number 10
3 ET&M No. E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8. Quality Control Monitor Buckley K. Williams
9 Temperature High 84 Low 72	10 Weather Partly Sunny	11 Hours on Job 7

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Weather Delay** - Due to recent rainfall, R.B. Baker was unable to import clay material to the project site D. Austin noted that he may resume hauling the clay material to the site tomorrow.

13. Work Force

EQUIPMENT: Trackhoe____, Loader____, Dozer__1__, Compactor__1__; Sheepsfoot Roller__1__, Rubber-Tire Backhoe___; Long-Stick Trackhoe____;Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___; DJB__2__; Posi-Track____, CMI ___; Mixer ___, Vibratory Roller __1__, Traffic Roller___; Steel Wheel Roller___; Paver____; Pumps ___, Water-wagon ___; Fuel Truck__1__; Other_____

CREWS: Intermediate Layer Crew ____; Clay Layer Crew _____; Pipe Crew___, Topsoil Crew ____, Subgrade Crew___; Crush-crete Crew___; Excavation Crew ___, Grading Crew ___; Dress Crew ___, Concrete Crew ____, Erosion Control Crew ____, Clean-up Crew ____, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___; Dewatering Crew ___; Sod Crew ___, Seed & Mulch Crew ___; Gas Well Crew ___; Other _____

14 Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1. Date & Day of Week 5-1-97 Thursday
		2. Report Number 11
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 82 Low 72	10 Weather Mostly Sunny	11 Hours on Job 9 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Clay Borrow Pit** - Due to wet egress conditions at the clay borrow pit, R.B. Baker was unable to import clay material to the project site. D. Austin stated that he may resume hauling the clay material to the site tomorrow.

2. **Units 1-4 - Intermediate Cover** - R B. Baker and TRLF continued to repair washouts in the intermediate cover in various areas These repairs included pulling silty material out of each terrace in order to get the material to dry for compaction and grading The silty fine material which accumulated in the terraces is too wet to work.

13. Work Force

EQUIPMENT: Trackhoe____; Loader____; Dozer__1__, Compactor__1__; Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____; Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__; Posi-Track___; CMI ___, Mixer ___, Vibratory Roller __1__; Traffic Roller___; Steel Wheel Roller____, Paver____; Pumps ___; Water-wagon ___, Fuel Truck__1__; Other_____

CREWS: Intermediate Layer Crew ____; Clay Layer Crew _____, Pipe Crew___, Topsoil Crew ____; Subgrade Crew___; Crush-crete Crew___; Excavation Crew ___; Grading Crew ___; Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ___; Maintenance Crew ___; Survey Crew ___; Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ___, Sod Crew ___; Seed & Mulch Crew ___; Gas Well Crew ___, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

- D. Austin discussed with B Williams the possibility of surveying the intermediate cover prior to compacting for density. R. Austin noted that he would prefer to have the as-builts taken whenever J. Purvis is complete with their grading. R. Austin added that he knows that during the compaction he would have to provide additional material but he can foresee a problem with having to prepare large areas for survey (after compaction), especially with daily rains B Williams replied that he would need to discuss this issue with J. Clem

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 5-2-97 Friday
		2. Report Number 12
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 82 Low 72	10 Weather Mostly Sunny	11 Hours on Job 10

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Clay Borrow Pit** - Due to wet conditions within the clay borrow pit, R.B. Baker was unable to import clay material to the project site D. Austin stated that he may resume hauling the clay material to the site on Monday, May 5, 1997.

2. **Units 1-4 - Intermediate Cover** - R B Baker and TRLF continued to repair erosion in various areas including pulling silty material from each terrace in order to get the material to dry for compaction and grading The very silty fine material accumulated in the terraces is too wet to work

13. Work Force

EQUIPMENT: Trackhoe____; Loader____, Dozer_1__, Compactor_1__; Sheepsfoot Roller__, Rubber-Tire Backhoe____; Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__1__, Post-Track___, CMI __; Mixer ___, Vibratory Roller __, Traffic Roller___; Steel Wheel Roller___, Paver____, Pumps ___; Water-wagon ___, Fuel Truck_1__, Other_____

CREWS: Intermediate Layer Crew ____; Clay Layer Crew _____, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___; Excavation Crew ____; Grading Crew __, Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ___, Maintenance Crew ___; Survey Crew ___; Liner Crew___,Liner Clean-Off Crew___; Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___; Gas Well Crew ___, Other _____

14 Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* **Equipment** - R B Baker moved one DJB and the vibratory roller to the clay borrow pit to maintain the haul roads in and out of the pit.

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 5-3-97 Saturday
		2. Report Number 13
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature Unknown High Low	10 Weather Slight Rain - 0 13"	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No work observed

13. Work Force

EQUIPMENT: Trackhoe____; Loader____; Dozer_1__; Compactor_1__; Sheepsfoot Roller__; Rubber-Tire Backhoe____, Long-Stick Trackhoe____;Motorgrader____, Track Gradall___; Rubber-Tire Gradall___, Pan___; DJB__1__, Posi-Track___; CMI __; Mixer ___; Vibratory Roller __, Traffic Roller___, Steel Wheel Roller___; Paver____; Pumps ___; Water-wagon ___; Fuel Truck_1__, Other_____

CREWS: Intermediate Layer Crew ____; Clay Layer Crew _____; Pipe Crew___; Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew __, Dress Crew ___; Concrete Crew ___; Erosion Control Crew ____; Clean-up Crew ___; Maintenance Crew ___; Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___; Sod Crew ___, Seed & Mulch Crew ___; Gas Well Crew ___; Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 5-4-97 Sunday
		2. Report Number 14
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature Unknown High Low	10 Weather Unknown	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No work observed

13. Work Force

EQUIPMENT: Trackhoe____, Loader____; Dozer__1__, Compactor__1__; Sheepsfoot Roller__1__; Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____; Rubber-Tire Gradall____, Pan___; DJB__2__; Posi-Track___; CMI ___, Mixer ___; Vibratory Roller __1__; Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___; Water-wagon ___, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ____; Clay Layer Crew _____; Pipe Crew___; Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___; Excavation Crew ____, Grading Crew ___; Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ____; Maintenance Crew ___; Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___; Dewatering Crew ____, Sod Crew ___; Seed & Mulch Crew ___; Gas Well Crew ___, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 5-5-97 Monday
		2. Report Number 15
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 75 Low 52	10 Weather Clear	11 Hours on Job 10

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Clay Borrow Material Hauling** - R B. Baker resumed importing the clay material to the site and stockpiling it on top of the landfill in the vicinity of Units 7 and 8

2. **Units 1-4 & 8 (Partial) - Intermediate Cover** - R.B. Baker and TRLF attempted to remove the silty material that has washed in the terraces in various areas. Late in the afternoon, R. Austin used a D6M dozer to compact the intermediate cover between Terraces #2 and #3 on Unit 8

13. Work Force

EQUIPMENT: Trackhoe____; Loader____; Dozer_1__; Compactor_1__; Sheepsfoot Roller__; Rubber-Tire Backhoe____; Long-Stick Trackhoe____;Motorgrader____, Track Gradall___, Rubber-Tire Gradall___, Pan___; DJB__1__; Posi-Track___; CMI __; Mixer ___; Vibratory Roller __; Traffic Roller___; Steel Wheel Roller___; Paver____, Pumps ___; Water-wagon ___, Fuel Truck_1__; Other_____

CREWS: Intermediate Layer Crew ____; Clay Layer Crew _____; Pipe Crew___; Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___; Excavation Crew ____, Grading Crew __; Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ____; Maintenance Crew ___, Survey Crew ___; Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ___; Sod Crew ___; Seed & Mulch Crew ___; Gas Well Crew ___, Other _____

14. Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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18 Reviewed by

Juanita Bodenheimer

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 5-6-97 Tuesday
		2. Report Number 16
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6. Contractor R.B. Baker Construction, Inc.	7. Superintendent Richard Austin	8. Quality Control Monitor Buckley K. Williams
9 Temperature High 80 Low 52	10 Weather Clear	11 Hours on Job 11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Clay Borrow Material Hauling** - R B. Baker continued importing the clay borrow material to the site and stockpiling it on top of the landfill in the vicinity of Units 7 and 8 See remarks.

2. **Units 1-4 - Intermediate Cover** - R.B. Baker and TRLF continued to remove the silty material that had washed in the terraces in various areas. R.B Baker's main focus today was to achieve the required 90% density on the intermediate layer R Austin continued to compact the side slopes of Unit 8, using a D6M dozer and then an 815 compactor. The dozer made passes up and down the side slope and a density between 86 and 88% was achieved at approx 14% moisture (optimum moisture is 10 6%)

   Then, the 815 compactor was used to compact the intermediate cover by angling the passes sideways (45° angle) across the side slope The drawback to using the compactor is that it tills up the upper six inches of the soil, so the compactor was used to determine if the bottom 6" (of the 12" intermediate layer) could be compacted The soil compacted by the compactor had 19-20% moisture and a compaction of 84%. In three distinct areas, the material being compacted (as the intermediate cover) appear to vary from the proctor material (IC-1, 124 1 max den and 10.6% Opt. Moist.) See remarks.

13. Work Force

EQUIPMENT: Trackhoe____; Loader____; Dozer__1__; Compactor__1__; Sheepsfoot Roller___, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____; Track Gradall____; Rubber-Tire Gradall____, Pan___; DJB__1__, Posi-Track___; CMI ___; Mixer ___; Vibratory Roller ___; Traffic Roller___; Steel Wheel Roller___, Paver____; Pumps ___; Water-wagon___; Fuel Truck__1__; Other_____

CREWS: Intermediate Layer Crew ____; Clay Layer Crew _____; Pipe Crew___; Topsoil Crew ____; Subgrade Crew___, Crush-crete Crew___; Excavation Crew ___; Grading Crew ___; Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ___; Maintenance Crew ___, Survey Crew ___; Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ___; Sod Crew ___; Seed & Mulch Crew ____; Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

* **Rain Delays** - R Austin and B Williams concurred on the following six (6) rain days for the month of April, 1997.

1	Wednesday, 4-23-97	**2.30" of rainfall**
2.	Thursday, 4-24-97	Side slopes too wet to work
3	Saturday, 4-26-97	**Heavy rain beginning at 9:30 AM**
4	Monday, 4-28-97	**4.08" of rain over weekend and 0.45" on Monday**
5	Tuesday, 4-29-97	Side slopes too wet to work
6	Wednesday, 4-30-97	Side slopes too wet to work

* See minutes of today's Construction Progress Meeting

* **Clay Borrow Material** - B Williams observed four loads of clay material brought to the site that had a heavy mix of sand B Williams immediately informed R Austin that the material was unacceptable and it needed to be removed. R. Austin and B Williams reviewed the material together and R. Austin concurred R. Austin stated that he would spoil this material at the bottom of the stockpile (which will not be used on the side slopes) and modify his loading operation at the pit.

* **Intermediate Cover** - After today's Construction Progress Meeting, B. Williams, J Clem, J Horton, S McCallister, J Purvis, and R Austin visited the areas on Units 4 and 8 (at approx STA. 94+25N) R Austin noted that his concern is with the in-place materials that are not representative of the proctor, which is making it hard to achieve compaction. B Williams commented that the in-place materials do have a higher moisture content than optimum but, they also vary by vertical strata with differing materials overlying each other It was agreed that the in-place materials may not accurately reflect the proctor used as the gauge for the required 90% compaction Three areas were observed, one area had a orange-brown-red clayey material and another area had a white-light grey sandy material. Two additional samples were obtained by B Williams for proctor testing. B Williams will provide advanced inspection of the intermediate layer material during construction to determine if additional proctors are necessary.

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17 Signed - Quality Control Monitor

18 Reviewed by

Juanita Bader Clem

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 5-7-97 Wednesday
		2. Report Number 17
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 81 Low 62	10 Weather Partly Cloudy	11 Hours on Job 11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Top Soil and Clay Borrow Material Hauling** - R B. Baker discontinued importing clay material this morning They resumed importing top soil material to the site and stockpiling it on top of the landfill in the vicinity of Units 7 and 8. After lunch, R.B Baker continued importing the clay borrow material.

2. **Clay Stockpile** - Using a backhoe, R.B. Baker mixed the stockpiled clay material for sampling by B Williams This sample is for proctor testing of the clay material

3. **Units 1-4 - Intermediate Cover** - R.B Baker continued to compact the intermediate layer, using a D6M dozer.

13. Work Force

EQUIPMENT: Trackhoe____; Loader____; Dozer__1__, Compactor__1__; Sheepsfoot Roller___, Rubber-Tire Backhoe____; Long-Stick Trackhoe____;Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__1__; Posi-Track___; CMI ___; Mixer ___, Vibratory Roller ___, Traffic Roller___; Steel Wheel Roller____; Paver____; Pumps ___; Water-wagon ___, Fuel Truck__1__, Other Haul Trucks

CREWS: Intermediate Layer Crew ____; Clay Layer Crew _____, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___; Excavation Crew ___; Grading Crew ___; Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ____; Maintenance Crew ___; Survey Crew ___; Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ___; Seed & Mulch Crew ____, Gas Well Crew ____; Other _____

14 Tests Performed

- Law completed the check point on the intermediate cover material The sample falls on the IC-1 proctor curve, therefore no proctor test was conducted. The two additional samples taken yesterday are being tested for proctor values.

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 5-8-97 Thursday
		2. Report Number 18
3 ET&M No E96-92-4	4. Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 81 Low 62	10 Weather Mostly Sunny	11 Hours on Job 11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Top Soil and Clay Borrow Material Hauling** - R B Baker continued importing top soil and clay material to the site. They are stockpiling it on top of the landfill in the vicinity of Units 7 and 8 (partial)

2. **Units 1-4 - Intermediate Cover** - R B Baker continued to compact the intermediate layer, using a D6M dozer. Proctor values for IC-2 (orange-grey-brown clay) and IC-3 (light grey sand) were as follows: 123 0 PCF at 11 7 optimum moisture and 120 7 PCF at 10 6 optimum moisture, respectively. B Williams tested the in-place intermediate layer using the IC-2 proctor and the nuclear density was 83% at 16 6% moisture and a shelby tube/speedy moisture test was done in the same location and had similar results 83% density at 19% moisture In both cases the existing material was above optimum moisture (11 7%)

   Late in the afternoon, R. Austin informed B. Williams that R B Baker will attempt to use a vibratory roller and/or a D8 dozer on the slope (NOTE. Operating weight for the D6 dozer (which R B Baker is currently using) is approx. 36,000 pounds, a D8 dozer's operating weight is approx 80,000 pounds)

3. **Erosion Control** - A load of hay bales were delivered to the site today

13. Work Force

EQUIPMENT: Trackhoe____; Loader____; Dozer__1__; Compactor 1__, Sheepsfoot Roller__; Rubber-Tire Backhoe____; Long-Stick Trackhoe____,Motorgrader____; Track Gradall____; Rubber-Tire Gradall____, Pan___; DJB__1__; Post-Track___, CMI ___, Mixer ___; Vibratory Roller __; Traffic Roller___; Steel Wheel Roller___; Paver____; Pumps ___; Water-wagon ___; Fuel Truck__1__; Other Haul Trucks

CREWS: Intermediate Layer Crew ____, Clay Layer Crew _____; Pipe Crew___; Topsoil Crew ____, Subgrade Crew___; Crush-crete Crew___; Excavation Crew ____, Grading Crew ___, Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ____; Maintenance Crew ___; Survey Crew ___; Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____; Sod Crew ____; Seed & Mulch Crew ____, Gas Well Crew ___; Other _____

14. Tests Performed

- Law completed the proctor values for IC-2 and IC-3

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

Date & Day of Week	5-9-97 Friday
2. Report Number	19

3 ET&M No E96-92-4	4. Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 88 Low 60	10 Weather Mostly Sunny	11 Hours on Job 11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Top Soil and Clay Borrow Material Hauling** - R B. Baker continued importing top soil and clay material to the site. They are stockpiling it on top of the landfill in the vicinity of Units 7 and 8. Questionable clay material was stockpiled with the top soil material

2. **Units 1-4 - Intermediate Cover** - R.B. Baker attempted to use a D8N dozer (operating weight of 80,000+ pounds) to compact the intermediate cover on Units 4 and 8 Of the nine tests taken, three passed, four were within one pound of passing the 90% minimum and the other two were 83-85% due to high moisture (20 9 and 18 2%, respectively) J. Teague of Law was present for density testing. The intermediate layer was inspected at each density location and it appeared that the material was fairly consistent. It was determined that as the moisture decreases towards optimum, the density gets better However, the problem is how to dry the material uniformly. R. Austin stated that if the material is dried to get the wet areas closer to optimum, then the drier materials will get too dry and start 'fluffing' R Austin stated that he will attempt to use a vibratory roller to compact the side slopes and bring the moisture up to the surface. R. Austin stated that he may have to pull the vibratory roller up the slope using a dozer

3. **Erosion Control** - R.B. Baker began installing hay bales in the roadside swales at each storm drainage structure as shown on the Erosion Control and Sediment Plan

13. Work Force

EQUIPMENT: Trackhoe____; Loader____, Dozer__1__; Compactor__1__; Sheepsfoot Roller___; Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____; Track Gradall____; Rubber-Tire Gradall____; Pan___, DJB__1__; Posi-Track___, CMI ___, Mixer ___; Vibratory Roller ___, Traffic Roller___; Steel Wheel Roller____, Paver____, Pumps ___; Water-wagon ___; Fuel Truck__1__; Other Haul Trucks

CREWS: Intermediate Layer Crew ____; Clay Layer Crew _____, Pipe Crew___; Topsoil Crew ____; Subgrade Crew___; Crush-crete Crew___; Excavation Crew ____, Grading Crew ___; Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ____; Maintenance Crew ___; Survey Crew ___; Liner Crew___,Liner Clean-Off Crew___; Dewatering Crew ____; Sod Crew ____; Seed & Mulch Crew ____; Gas Well Crew ____, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 5-10-97 Saturday
		2. Report Number 20
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6. Contractor **R.B. Baker Construction, Inc.**	7. Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature Unknown High Low	10 Weather Unknown	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Top Soil Clay Borrow Material Hauling** - R B. Baker continued importing top soil and clay material to the site. They are stockpiling it on top of the landfill in the vicinity of Units 7 and 8.

2. **Units 7, 8 & 4 - Intermediate Cover** - R B Baker used a vibratory roller to compact the side slopes of the landfill The roller was able to climb the slopes and compact the intermediate layer

13. Work Force

EQUIPMENT: Trackhoe____; Loader____, Dozer__1__, Compactor__1__, Sheepsfoot Roller___, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____; Track Gradall___; Rubber-Tire Gradall___; Pan___; DJB__1__; Posi-Track___; CMI ___; Mixer ___; Vibratory Roller __1__, Traffic Roller___; Steel Wheel Roller___; Paver____; Pumps ___; Water-wagon ___, Fuel Truck__1__; Other Haul Trucks _____

CREWS: Intermediate Layer Crew ____; Clay Layer Crew _____, Pipe Crew___, Topsoil Crew ____; Subgrade Crew___; Crush-crete Crew___; Excavation Crew ___; Grading Crew ___; Dress Crew ___; Concrete Crew ___; Erosion Control Crew ____; Clean-up Crew ____; Maintenance Crew ___, Survey Crew ___; Liner Crew___,Liner Clean-Off Crew___; Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___; Gas Well Crew ___, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 5-11-97 Sunday
		2. Report Number 21
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5. Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7. Superintendent Richard Austin	8. Quality Control Monitor Buckley K Williams
9 Temperature Unknown High Low	10 Weather Unknown	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No work observed

13. Work Force

EQUIPMENT: Trackhoe____, Loader____, Dozer__1__; Compactor 1__, Sheepsfoot Roller__; Rubber-Tire Backhoe____; Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____; Pan___; DJB__1__, Posi-Track___, CMI __; Mixer ___; Vibratory Roller __; Traffic Roller___, Steel Wheel Roller___; Paver____, Pumps ___; Water-wagon ___, Fuel Truck__1__, Other Haul Trucks _____

CREWS: Intermediate Layer Crew ____; Clay Layer Crew _____, Pipe Crew___, Topsoil Crew ____; Subgrade Crew___, Crush-crete Crew___; Excavation Crew ____; Grading Crew ___, Dress Crew ___; Concrete Crew ___; Erosion Control Crew ____; Clean-up Crew ___; Maintenance Crew ___; Survey Crew ___; Liner Crew___,Liner Clean-Off Crew___; Dewatering Crew ___; Sod Crew ___, Seed & Mulch Crew ___; Gas Well Crew ___; Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1. Date & Day of Week 5-12-97 Monday
		2. Report Number 22
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6. Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 80 Low 68	10 Weather Intermittent rain all day - 0 59"	11 Hours on Job 10

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Top Soil Clay Borrow Material Hauling** - R.B. Baker continued importing top soil and clay material to the site. They are stockpiling it on top of the landfill in the vicinity of Units 7 and 8. Hauling was stopped at approx. 3 30 PM due to continuing rainfall

2. **Gas Wells** - Koda Drilling mobilized to the site and began cutting slots in the 8" CPVC pipe in accordance with the specifications. B. Williams met with Marty Weder of Koda and reviewed the requirements of the gas well construction

3. **Units 7, 8 and 4 - Intermediate Cover** - B Williams took six density tests of the intermediate cover on the third and fourth terraces, after R B Baker completed two (2) passes with the vibratory roller. Four of the six tests passed with the other two at 88% compaction. R. Austin stated that he wanted to the use the vibratory roller to increase the compaction in the failing areas, however, rainfall prevented the use of the vibratory roller

13. Work Force

EQUIPMENT: Trackhoe____; Loader____, Dozer__1__; Compactor__1__, Sheepsfoot Roller___, Rubber-Tire Backhoe____; Long-Stick Trackhoe____,Motorgrader____; Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__1__; Posi-Track___; CMI ___; Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon ___, Fuel Truck__1__, Other Haul Trucks, Drill ng

CREWS: Intermediate Layer Crew __1__, Clay Layer Crew _____; Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ____; Grading Crew ___; Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___; Dewatering Crew ___, Sod Crew ___; Seed & Mulch Crew ___, Gas Well Crew __1__, Other _____

14. Tests Performed

* Proctor value of clay stockpile material was 116 pcf at 13 2% optimum moisture (CL-3)

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* **Clay Material** - B Williams informed R. Austin of the proctor values for the clay material, sampled from the stockpile on site. Because of the low moisture and high proctor value, B. Williams discussed the use of this material with R. Austin. R. Austin took note of the comment and asked to be informed when the Percent Fines and Atterberg Limits were complete (early tomorrow morning)

* **Side Slope Settlement** - On Friday, 5-9-97, R. Austin informed J Purvis and B. Williams that Bradshaw surveyors have completed the construction staking for R B. Baker and there are several areas in which the existing side slopes are lower than design grade After initial review, it appears that the first terrace is on grade, but the 2nd, 3rd and 4th terraces are low by 0.20', 0 40' and 0 85', respectively. R Austin and J Purvis asked B Williams to review SSS's stake out of the terraces for TRLF After review with Tom Smith with SSS, B Williams informed R Austin (J Purvis on vacation) that the notes regarding the March 20, 1997 stake-out indicate no errors. B Williams stated that upon review with J Clem, it appears that there is incremental settlement from the second to the forth terrace. B Williams stated that the intermediate layer must be on grade prior to density testing. R. Austin replied that it appears that the top of the terraces are low (the terraces show a slight hump in the slope) and material may only have to added to the upper 15' of the terrace.

R. Austin commented that he will set stakes tomorrow to determine how much extra material will be needed.

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 5-13-97 Tuesday
		2. Report Number 23
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 80 Low 62	10 Weather Mostly Sunny	11 Hours on Job 12 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Top Soil and Clay Borrow Material Hauling** - R.B. Baker was unable to import the top soil and clay material to the site this morning, due to wet conditions on site and at the clay borrow pit (0 59" or rainfall yesterday)

2. **Gas Wells** - Koda Drilling completed the slotting of the 8" CPVC pipe including cleaning the pipe of shavings Couplings were glued on the pipe and stainless steel screws were placed for security. Koda then constructed gas well GW-5 and most of well GW-8. During construction of well GW-5, Koda began excavation at elevation 204 0 and drilled down approx 57' to reach the bottom bore hole elevation of 147 0 A 36" steel casing was used for the bore hole

   Once the desired depth of the hole was reached, approx. 6" of #3 rock was placed in the bottom and approx 28.5' of slotted 8" CPVC piping and 36 5' of solid pipe was placed and centered in the hole. The #3 rock was then placed for an overall depth of rock of 30.5' (as per detail). R.B Baker placed the one foot thick sand layer above the #3 rock and Koda placed twenty bags of Holeplug (bentonite) around the 8" pipe (to make up the required 2' layer). Approx. 8' of solid pipe was exposed above existing ground (with a temporary PVC cap).

   Koda also completed the excavation of well GW-8 and placed the 8" CPVC pipe and #3 aggregate. See Job site safety. The existing surface elevation for well GW-8 was 204.0 (3' below the proposed surface elevation of 207.0). Therefore, the boring was completed to a depth of 50' from existing surface elevation so the bottom elevation of the well was at the design elevation of 154 0 Once the desired depth of the hole was reached, approx. 6" of #3 rock was placed in the bottom and then approx 26 5' of slotted 8" CPVC piping and 34 0' of solid pipe was placed and centered in the hole.

   B Williams field verified that the gas wells were constructed in the approximate locations indicated on Construction Sheet No 3.

3. **Units 7, 8 and 4 - Intermediate Cover** - No work was completed today due to the wet conditions of the side slopes Approx. 0 59" of rainfall was received on site yesterday

13. Work Force

EQUIPMENT: Trackhoe____, Loader____, Dozer__1__, Compactor 1__; Sheepsfoot Roller__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__1__, Posi-Track___; CMI ___, Mixer ___; Vibratory Roller _1_; Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon ___, Fuel Truck_1__, Other Haul Trucks , Drill rig

CREWS: Intermediate Layer Crew ____, Clay Layer Crew _____; Pipe Crew___, Topsoil Crew ____, Subgrade Crew___; Crush-crete Crew___; Excavation Crew ____; Grading Crew ___; Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ____, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ____, Gas Well Crew __1__, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

- Since R B Baker was unable to complete the general backfill for gas wells GW-5 and GW-8 today, B Williams cautioned R Austin that R B Baker needs to secure the excavated hole. A metal grate was placed over the excavation and R. Austin noted that he will rope off the excavation B Williams stated that R B Baker should complete the general backfill as soon as possible

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

- See minutes of today's Construction Progress Meeting.

- **Clay Material** - Due to the high proctor value and low optimum moisture of the clay material sampled from the on-site stockpile, J. Horton stated in today's meeting that the placement of the clay test strip and subsequent clay production must be closely monitored to ensure that sandy material is kept to a minimum. J. Horton also noted that as soon as R B Baker places the clay material for the test strip, a sample should be taken for proctor testing.

- **Side Slope Settlement** - J Clem, B Williams and R. Austin reviewed the proposed side slope grading along the bearing line (Section 11) J Clem noted that the slope between the second and third terraces is not a 3 1 slope due to the settlement of the existing closure in this vicinity It was agreed that the clay material (on the slope above the second terrace) must be tied-in to the existing clay material, in the middle of the second terrace. Extra clay will be necessary to ensure a minimum 12" thickness of clay at the tie-in. J. Clem also stated that the depth of the second terrace between Section 11 and 12 may be shallowed to a 1.5' depth instead of the typical 2.5' depth, but positive drainage must be maintained for the underdrain. R. Austin agreed.

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 5-14-97 Wednesday
		2. Report Number 24
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 84 Low 66	10 Weather Mostly Sunny	11 Hours on Job 9

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Top Soil and Clay Borrow Material Hauling** - R B Baker resumed importing topsoil and clay material to the site, stockpiling the material on top of the landfill in the vicinity of Units 7-8 (partial) See remarks

2. **Gas Wells** - Koda and R B Baker completed the installation of #3 aggregate, sandpack and bentonite in gas well GW-8 Approx 7 50 cubic yards of aggregate was added for an overall depth of 28 5', then one foot of sand was placed and twenty (20) bags of Holeplug (bentonite) was placed evenly around the 8" PVC pipe in the presence of B Williams

   Koda then drilled gas well GW-9 The existing ground elevation was 207 0 (3' below the proposed surface elevation of 210 0) Therefore, the boring was completed to a depth of 51' from existing surface elevation so the bottom elevation in the well was at the design elevation of 156 0 Once the desired depth of the hole was reached, approx. 6" of #3 rock was placed in the bottom and then 26 5' of slotted 8" CPVC piping and approx. 35' of solid pipe was placed and centered in the hole Approx. 7 50 cubic yards of #3 rock was then placed for an overall depth of rock of 28 5' (as per detail)

   Koda drilled gas well GW-10 The existing ground elevation was 206 0 (4' below the proposed surface elevation of 210 0) Therefore, the boring was completed to a depth of 47 0' from existing surface so the bottom elevation of the well was at 159 0 Once the desired depth of the hole was reached, approx. 6" of #3 rock was placed in the bottom and then 25 5' of slotted 8" CPVC piping and approx. 33' of solid pipe was placed and centered in the hole Approx. 7 25 cubic yards of #3 rock was then placed for an overall depth of rock of 27 5' (as per detail)

   Koda drilled gas well GW-25 The existing ground elevation was 204 5 (5 5' below the proposed surface elevation of 210 0) Therefore, the boring was completed to a depth of 42 5' from existing surface so the bottom elevation of the well was at 162 0 Once the desired depth of the hole was reached, approx. 6" of #3 rock was placed in the bottom and then 23 5' of slotted 8" CPVC piping and approx. 32' of solid pipe was placed and centered in the hole Approx. 6 70 cubic yards of #3 rock was then placed for an overall depth of rock of 25 5' (as per detail)

   Later in the afternoon, R B Baker completed the general backfill of gas well GW-5, using intermediate cover material

3. **Units 7, 8 and 4 (partial) - Intermediate Cover** - R B Baker added extra intermediate cover to the top of terrace #4 TRLF supplied the material to R B Baker

13. Work Force

EQUIPMENT: Trackhoe____, Loader____; Dozer__1__, Compactor__1__, Sheepsfoot Roller__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____; Track Gradall____; Rubber-Tire Gradall____, Pan___, DJB__1__; Posi-Track___; CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____; Pumps ___, Water-wagon ___; Fuel Truck__1__, Other Haul Trucks, Drill ng

CREWS: Intermediate Layer Crew __1__, Clay Layer Crew _____, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___; Excavation Crew ____, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ____, Maintenance Crew ___, Survey Crew ___; Liner Crew___,Liner Clean-Off Crew___; Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew __1__; Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* **Clay Material** - J. Teague and B. Williams reviewed the clay material being imported the on-site stockpile by R.B. Baker and noticed some sandy material mixed within the clay material. B. Williams advised R. Austin that R.B. Baker should determine if this material is too sandy or will their proposed mixing operation provide a good clay material. R. Austin replied that he believes the material is good but admitted that he will have to first build the test strip to gauge the workability of the clay as well as the ability to meet the requirements of the specifications.

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by: Jeanetta Bader Clem

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1. Date & Day of Week 5-15-97 Thursday
		2. Report Number 25
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 89 Low 72	10 Weather Mostly Sunny	11 Hours on Job 10 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Top Soil and Clay Borrow Material Hauling** - R.B Baker continued importing top soil and clay material to the site They are stockpiling the material on top of the landfill in the vicinity of Units 7-8

2. **Gas Wells** - Koda constructed the gas wells on the project Gas wells GW-17, 18 and 35 were constructed and all wells were backfilled with intermediate material, after the required amounts of # 3 aggregate, sandpack, and bentonite were placed

   For gas well GW-17, the existing ground elevation was 189 0 (1' below the proposed surface elevation of 190 0) Therefore, the boring was completed to a depth of 50 0' from existing surface so the bottom elevation of the well was at 139 0 Once the desired depth of the hole was reached, approx. 6" of #3 rock was placed in the bottom and then 25 5' of slotted 8" CPVC piping and approx. 33' of solid pipe was placed and centered in the hole Approx. 7 25 cubic yards of #3 rock was then placed for an overall depth of rock of 27 5' (as per detail)

   For gas well GW-18, the existing ground elevation was 188 0 (2' below the proposed surface elevation of 190 0) Therefore, the boring was completed to a depth of 48 0' from existing surface so the bottom elevation of the well was at 140 0 Once the desired depth of the hole was reached, approx. 6" of #3 rock was placed in the bottom and then 24 5' of slotted 8" CPVC piping and approx. 33' of solid pipe was placed and centered in the hole Approx. 7 00 cubic yards of #3 rock was then placed for an overall depth of rock of 26 5' (as per detail)

   For gas well GW-35, the existing ground elevation was 188 0 (2' below the proposed surface elevation of 190 0) Therefore, the boring was completed to a depth of 50 0' from existing surface so the bottom elevation of the well was at 138 0 Once the desired depth of the hole was reached, approx. 6" of #3 rock was placed in the bottom and then 25 5' of slotted 8" CPVC piping and approx. 34' of solid pipe was placed and centered in the hole Approx. 7 25 cubic yards of #3 rock was then placed for an overall depth of rock of 27 5' (as per detail)

   B Williams observed the installation of one (1) foot of sandpack and twenty (20) bags of Holeplug (bentonite) in wells GW-25, GW-17, GW-18 and GW-35 after the placement of # 3 aggregate All materials were evenly placed around the 8" CPVC pipe and measured to confirm the two foot thickness

   R B Baker completed the general backfill of wells GW-8, GW-9, GW-10, GW-17 and GW-25 today, using intermediate cover material

3. **Units 7, 8 and 4 - Intermediate Cover** - R B Baker continued to add extra intermediate cover to Unit 8 for grading of the intermediate cover in the proposed test strip area. A dozer was used to grade the material as needed to meet the design grades R Austin provided intermediate construction staking between Sections 11 and 12

13. Work Force

EQUIPMENT: Trackhoe____; Loader____, Dozer__1__, Compactor__1__; Sheepsfoot Roller___, Rubber-Tire Backhoe____; Long-Stick Trackhoe____,Motorgrader____, Track Gradall____; Rubber-Tire Gradall____, Pan___, DJB__1__; Posi-Track___, CMI ___; Mixer ___, Vibratory Roller __1__; Traffic Roller___; Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon ___; Fuel Truck__1__, Other Haul Trucks, Drill rig

CREWS: Intermediate Layer Crew __1__, Clay Layer Crew _____, Pipe Crew___; Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ____; Grading Crew ___; Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ____; Maintenance Crew ___; Survey Crew ___, Liner Crew___;Liner Clean-Off Crew____, Dewatering Crew ____; Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew __1__, Other _____

14 Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

- **Proposed Test Strip** - R. Austin informed B. Williams that R.B. Baker anticipates completing the grading of the intermediate cover this afternoon and will be ready for as-built surveying tomorrow morning.

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor

18 Reviewed by Jeanette Baker Clem

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 5-16-97 Friday
		2. Report Number 26
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6. Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 89 Low 72	10 Weather Mostly Sunny	11 Hours on Job 11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Top Soil and Clay Borrow Material Hauling** - R B Baker continued importing top soil material to the site They are stockpiling the material on top of the landfill in the vicinity of Units 7-8

2. **Gas Wells** - Koda completed the construction of gas wells GW-18 and GW-35 B Williams observed the installation of one (1) foot of sandpack and twenty (20) bags of Holeplug (bentonite) in gas wells GW-25, GW-17, GW-18 and GW-35, after the placement of the # 3 aggregate All materials were evenly placed around the 8" CPVC pipe and measured to confirm adequate thickness Koda then demobilized from the project site

   R B Baker completed the general backfill of wells GW-18 and GW-35 today, using intermediate cover material

3. **Units 7, 8 and 4 - Intermediate Cover** - R B Baker continued to add intermediate cover material to Unit 8 for grading of the intermediate cover in the proposed test strip area R B Baker intends to use the slope between terraces #3 and 4 on Unit 8 for the test strip area

   A dozer was used to grade the material to meet the design grades A vibratory roller was then used to compact the material The required density testing was performed and met the min 90% compaction

   SSS verified horizontal control and surveyed Sections 11 and 12 for R B Baker It was discovered that the intermediate cover on the section lines were approx. 0 5' low In order to provide an acceptable area for the test strip, SSS as-built an interim location for the test strip The top of the fourth terrace was as-built 10' south of Section 12 and 125' north of Section 11 (along the berm) The toe and top of terrace #3 was as-built 10' south of Section 12 and 100' north of Section 11 (along the berm) These as-built shots met the requirements for as-built tolerance, however, where a couple of shots were out of tolerance by only one or two tenths, B Williams informed R Austin that R B Baker will have to make this difference up in the first lift of the clay layer and ETM will verify with a thickness check. R Austin agreed

13. Work Force

EQUIPMENT: Trackhoe____, Loader____, Dozer__1__, Compactor__1__, Sheepsfoot Roller__; Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____; Track Gradall____; Rubber-Tire Gradall____, Pan___, DJB__1__, Posi-Track___; CMI ___; Mixer ___, Vibratory Roller __1__; Traffic Roller___; Steel Wheel Roller___, Paver____; Pumps ___, Water-wagon ___, Fuel Truck__1__, Other Haul Trucks, Drill rig

CREWS: Intermediate Layer Crew __1__, Clay Layer Crew _____; Pipe Crew___; Topsoil Crew ____; Subgrade Crew___, Crush-crete Crew___; Excavation Crew ___, Grading Crew ___; Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ___, Maintenance Crew ___; Survey Crew ___; Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___; Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew __1__, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

- **Closure Settlement** - R. Austin informed B. Williams of his concerns regarding settlement of the landfill during construction of the side slope closures R. Austin noted that it appears the tops of terraces 1 through 4 (for Units 1-4 and 7-8), have settled as much as 0 85' in just 6-7 weeks. R Austin added that it is conceivable that his construction staking may have settled and the grades he is working with may be off. B. Williams noted that it will be up to R.B Baker to verify the grades during construction. R. Austin agreed but noted that if he has to add material because the hill is settling, he foresees a problem with adding extra material during top soil placement.

  R. Austin added that he believes that the side slopes could settle three or four tenths of a foot after TRLF releases a section, Baker reviews and accepts it, and Baker constructs the intermediate and final cover

  R. Austin requested that ETM review this scenario in the event it becomes a problem during construction. B Williams agreed.

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 5-17-97 Saturday
		2. Report Number 27
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 89 Low 72	10 Weather Mostly Sunny	11 Hours on Job 8

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Top Soil and Clay Borrow Material Hauling** - R B Baker continued importing top soil and clay material to the site They are stockpiling the material on top of the landfill in the vicinity of Units 7-8

2. **Clay Test Strip** - R B Baker began construction of the clay test strip on Unit 8 The work area approved with as-built survey is bounded by the top of the 4th terrace and the toe of the third terrace and is approx. 100' wide R Austin informed B Williams that he would like to split this area into three sections with the middle section designated the "test strip' (approx. 30' x 65') The section was split into thirds with the middle being the test strip and constructed as follows

   Northern Section - First lift of clay placed with a dozer and compacted with a dozer Five density tests were taken and two perm tubes were taken on the first lift. Then, the second lift of clay was placed and compacted using a dozer Five density tests were taken and two perm tubes were taken on the second lift.

   Middle Section (Test Strip) - The first lift of clay was placed with a dozer and compacted with a dozer and then a vibratory roller Five density tests were taken and five perm tubes were taken on the first lift. Then the smooth surface of the first lift was scarified with dozer tracks and the second lift of clay was placed with the same procedure as the first lift. Five density and five perm tubes taken on the second lift. The test strip is approx. 35' x 60'

   Southern Section - The first lift of clay was placed and compacted with a dozer Two density tests were taken on the first lift of clay but no perm tubes were taken Then the second lift of clay was placed and compacted with a dozer Then an 815 compactor (with teeth on the wheels) was used to compact the lift (to see what affect the compactor had on the density) A dozer was used to compact and smooth the surface One density test was taken (at both 6" and 12" depths) and one perm tube was taken

   NOTE All density tests passed the minimum 80% compaction requirement.
   A dozer was used to place and compact all three areas, both lifts
   J Teague of Law was present for the testing of the first lift of clay in the test strip area

13. Work Force

EQUIPMENT: Trackhoe____; Loader____; Dozer__1__, Compactor__1__; Sheepsfoot Roller___, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__1__, Posi-Track___, CMI ___; Mixer ___; Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___; Paver____; Pumps ___; Water-wagon ___, Fuel Truck__1__; Other Haul Trucks

CREWS: Intermediate Layer Crew ___; Clay Layer Crew __1__; Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___; Excavation Crew ____, Grading Crew ___, Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___; Maintenance Crew ___, Survey Crew ___; Liner Crew___,Liner Clean-Off Crew___; Dewatering Crew ____, Sod Crew ___; Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14 Tests Performed

* Density testing and permeability samples were taken for the clay test strip.

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 5-18-97 Sunday
		2. Report Number 28
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature Unknown High Low	10 Weather Unknown	11 Hours on Job 3

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No work observed

13. Work Force

EQUIPMENT: Trackhoe____, Loader____; Dozer__1__, Compactor__1__, Sheepsfoot Roller___, Rubber-Tire Backhoe____; Long-Stick Trackhoe____,Motorgrader____; Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__1__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__; Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon ___, Fuel Truck__1__, Other Haul Trucks

CREWS: Intermediate Layer Crew ____; Clay Layer Crew _____; Pipe Crew___; Topsoil Crew ____; Subgrade Crew___; Crush-crete Crew___, Excavation Crew ____, Grading Crew ___; Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ____; Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___; Other _____

14 Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by: Juanita Bader Clem

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 5-19-97 Monday
		2. Report Number 29
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7. Superintendent Richard Austin	8 Quality Control Monitor John Teague
9 Temperature N/A High Low	10 Weather N/A	11 Hours on Job N/A

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 R B Baker continued to import clay and top soil material to the site and stockpiling it.

2 R Austin set grade stakes on the slopes of Units 3 and 4, north of Downcomer D-85

3 R B Baker continued to grade and compact the intermediate cover, north of Downcomer D-85

13. Work Force

EQUIPMENT: Trackhoe____, Loader____; Dozer__1__, Compactor 1__, Sheepsfoot Roller__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__1__; Posi-Track___, CMI __; Mixer ___, Vibratory Roller _1_, Traffic Roller___; Steel Wheel Roller___, Paver____; Pumps ___, Water-wagon ___, Fuel Truck_1_, Other Haul Trucks

CREWS: Intermediate Layer Crew __1__; Clay Layer Crew _____; Pipe Crew___, Topsoil Crew ____; Subgrade Crew___, Crush-crete Crew___, Excavation Crew ____, Grading Crew __; Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ____, Maintenance Crew ___; Survey Crew ___; Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____; Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by Juanitta Baden

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 5-20-97 Tuesday
		2. Report Number 30
3 ET&M No. E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor John Teague
9 Temperature N/A High Low	10 Weather N/A	11 Hours on Job N/A

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 R B Baker continued to import clay and top soil material to the site and stockpiling it.

2 R Austin set grade stakes on the slopes of Units 1 and 2, north of Downcomer D-85

3 R B Baker continued to grade and compact the intermediate cover, north of Downcomer D-85

13. Work Force

EQUIPMENT: Trackhoe____; Loader____, Dozer_1__, Compactor_1__, Sheepsfoot Roller__; Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____; Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__1__; Posi-Track___, CMI ___, Mixer ___; Vibratory Roller _1_; Traffic Roller___; Steel Wheel Roller____, Paver____; Pumps ___, Water-wagon ___, Fuel Truck_1__, Other Haul Trucks

CREWS: Intermediate Layer Crew _1_, Clay Layer Crew _____, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___; Excavation Crew ____, Grading Crew ___, Dress Crew ___; Concrete Crew ___; Erosion Control Crew ____; Clean-up Crew ___; Maintenance Crew ___, Survey Crew _½_; Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ___; Sod Crew ___, Seed & Mulch Crew ___; Gas Well Crew ___; Other _____

14 Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

- See minutes of today's Construction Progress Meeting.

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by: Juanita Bader Cox

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 5-21-97 Wednesday
		2. Report Number 31
3 ET&M No. E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor John Teague
9 Temperature N/A High Low	10 Weather N/A	11 Hours on Job N/A

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 R B Baker continued to import clay and top soil material to the site and stockpiling it. See remarks.

2 R B Baker continued to grade and compact the intermediate cover, north of Downcomer D-85

13. Work Force

EQUIPMENT: Trackhoe_1_, Loader____; Dozer_1___, Compactor_1__, Sheepsfoot Roller__; Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____; Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__1__, Post-Track___; CMI __, Mixer ___, Vibratory Roller _1_; Traffic Roller___; Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon ___, Fuel Truck_1__, Other Haul Trucks

CREWS: Intermediate Layer Crew__1_; Clay Layer Crew _____, Pipe Crew___, Topsoil Crew ____; Subgrade Crew___; Crush-crete Crew___; Excavation Crew ____; Grading Crew __; Dress Crew ___, Concrete Crew ___; Erosion Control Crew ____, Clean-up Crew ____; Maintenance Crew ___, Survey Crew ___; Liner Crew___;Liner Clean-Off Crew____, Dewatering Crew ____; Sod Crew ____; Seed & Mulch Crew ____, Gas Well Crew ___; Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* **Clay Material** - J. Teague informed R Austin that it appears that some of the clay material on the west end of the stockpile is a sandier looking clay J. Teague informed R. Austin that he should review this material to ensure that he is comfortable with using the material R Austin took note of the comment and added that he would review it.

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by: Jeanita Bader Cox

GENERAL QUALITY ONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 5-22-97 Thursday
		2. Report Number 32
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 84 Low 72	10 Weather Partly Cloudy	11 Hours on Job 9

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Clay and Top Soil Material** - R.B Baker continued to import the clay and top soil material to the project site R B Baker continued to stockpile the clay material on the west end of the landfill, close to Units 12-20 R Austin noted that he has enough clay stockpiled on the east end to construct Units 1-4 and partial Units 7 and 8 See remarks

2. **Units 1 and 2 - Intermediate Cover** - R B Baker continued to grade and compact the intermediate cover on these units from the downcomer section (D-85) towards the north in preparation for as-built surveying this afternoon and tomorrow morning

13. Work Force

EQUIPMENT: Trackhoe__1__; Loader____, Dozer__1__, Compactor__1__, Sheepsfoot Roller___; Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____; Rubber-Tire Gradall____, Pan___, DJB__1__, Post-Track___; CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___; Water-wagon ___, Fuel Truck__1__, Other Haul Trucks

CREWS: Intermediate Layer Crew__1__, Clay Layer Crew _____, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___; Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ____, Maintenance Crew ___, Survey Crew ___; Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ____, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

* **Clay Material** - B. Williams again informed R. Austin that it appears some of the clay material on the west end of the stockpile is a sandier looking clay. B. Williams informed R. Austin that he should review this material. R. Austin took note of the comment and added that he would review it.

* **Survey Stakeout** - Sunshine State Surveyors verified the stake-out performed for TRLF on Section 13-17 (Units 12-14) Upon verification, it was discovered that the second terrace (first terrace from the bottom of the landfill) had settled approx. 0 10', the third terrace had settled approx. 0 15'-0 20' and the third terrace had settled approx. 0 25'-0 30' SSS marked the revised grade and/or cut or fill marks on the construction stakes for TRLF's use

* **Test Strip Permeabilities** - Of the first 8 clay permeability results for the clay test strip, there was one perm that failed to meet the requirements of 1 0 x 10^{-7} cm/sec That test was located on the second lift and the resultant data was 1 7 x 10^{-6} cm/sec J McMahan and R Austin of R B Baker were informed of this test result. A determination on the acceptability of the test strip and a remedy for the one failed perm will be determined tomorrow when the last two permeability results (for a total of ten) are complete

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1. Date & Day of Week 5-23-97 Friday
		2. Report Number 33
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 84 Low 72	10 Weather Partly Cloudy	11 Hours on Job 12

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Clay and Top Soil Material** - R B Baker continued to import the clay and top soil material to the project site R B Baker continued to stockpile clay material on the west end of the landfill, close to Units 12-20 See remarks.

2. **Units 3, 4, 7 & 8 - Intermediate Cover** - R B Baker continued to grade and compact the intermediate cover on these units from the downcomer section (D-85) towards the north in preparation for the as-built survey SSS as-built the intermediate layer and all shots were found acceptable (NOTE A few shots were outside the tolerance but R Austin agreed to make up that difference in the first six-inch lift of clay)

3. **Units 4 & 8 - Clay Layer** - After the as-built survey, R B Baker began placing the first 6" lift of clay on the side slopes of Units 4 and 8, south of the test strip area See remarks

13. Work Force

EQUIPMENT: Trackhoe__1__; Loader____; Dozer__1__; Compactor__1__, Sheepsfoot Roller___, Rubber-Tire Backhoe____; Long-Stick Trackhoe____,Motorgrader____; Track Gradall____; Rubber-Tire Gradall____, Pan___; DJB__1__, Post-Track___, CMI ___; Mixer ___; Vibratory Roller __1__; Traffic Roller___; Steel Wheel Roller___; Paver____; Pumps ___; Water-wagon ___; Fuel Truck__1__; Other Haul Trucks

CREWS: Intermediate Layer Crew__½__; Clay Layer Crew __1__, Pipe Crew___, Topsoil Crew ____; Subgrade Crew___; Crush-crete Crew___; Excavation Crew ___; Grading Crew ___; Dress Crew ___; Concrete Crew ___; Erosion Control Crew ____; Clean-up Crew ___; Maintenance Crew ___; Survey Crew ___; Liner Crew___,Liner Clean-Off Crew___; Dewatering Crew ___; Sod Crew ___; Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14. Tests Performed

- Density of intermediate cover. First lift of clay-nuclear density and shelby tube and microwave testing.
- Late in the afternoon, J. Teague of Law informed B. Williams that a new clay proctor (CL-4) has been completed for the material sampled in the test strip area. J Teague informed B. Williams to use the proctor (110 0 pcf max. density).

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

- **Clay Test Strip** - B Williams discussed the acceptability of the clay in the test strip area as follows: J Horton stated that the clay is a sandier clay material (35-43% fines) than previously encountered on TRLF projects. Therefore, density will play a major role in attaining permeability J Horton stated that it appears the minimum density for the clay will need to be set at 90-92%maximum density J Horton stated that R B Baker should review whether they can live with that density J Horton added that once the density is set, it can not be arbitrarily changed. It must remain unless another test strip is performed.

  With regards to the existing test strip and the one failed perm, J Horton stated that R B Baker must rework the failed area to achieve the minimum density (to be set by J Horton), then additional field density tests and one more permeability sample must be taken to meet the required ten (10) passing permeability tests J Horton stated that he would finalize the minimum density number this morning

  B Williams then reviewed the situation with R Austin and J McMahan (whom was on site). Both agreed to the procedure for accepting the existing test strip but were concerned about setting the minimum density too high B Williams stated that as per J Horton, the density can not be changed but additional proctors may be taken if the clay changes (i e a higher fines content) Both stated that they understood

  At approx. 10 45 AM, J Horton informed B Williams that his recommendation for the clay density will be a minimum of 91% B Williams then informed R Austin that the minimum required density for the clay layer will be 91% for the entire project unless R.B Baker elects to perform another test strip R Austin agreed to the 91% and stated that he will proceed with production clay at his own risk. B Williams stated that R B Baker must rework the clay area within the test strip at the failed permeability test (second lift) and additional density tests and one additional permeability test will be conducted R Austin agreed but stated he will rework the test strip area next week. B Williams reiterated to R Austin that R B Baker is taking a risk by proceeding with the production clay without having the test strip completed R Austin replied that he is aware that he is proceeding at his own risk but he feels with the 91% compaction, the clay material will perform well

- **Clay Stockpile Material** - B Williams and R Austin reviewed some of the material imported from the clay pit and unloaded in the clay stockpile. B Williams informed R. Austin that this material appeared unacceptable because of its sandy nature Upon review, R. Austin agreed and stated that he would remove the material from the stockpile and adjust his excavation at the borrow pit. R Austin added that he has instructed the pit operator as to the quality of material required for this project.

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1. Date & Day of Week	2. Report Number
5-24-97 Saturday	34

3 ET&M No.	4 Short Title - Trail Ridge Landfill	5 Place
E96-92-4	Incremental Closure	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Buckley K. Williams
9 Temperature	10 Weather	11 Hours on Job
High 84 Low 72	Partly Cloudy	11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Clay and Top Soil Material** - R.B Baker continued to import the top soil material to the project site. R B. Baker continued to stockpile the material on the west end of the landfill, close to Units 12-20

2. **Units 4 & 8 - Clay Layer** - R B Baker continued to place the first 6" lift of clay on the side slopes of Units 4 and 8, completing the installation to within 20' north of section 6 (downcomer D-85) B Williams of ETM was present to conduct field density, permeability sampling and thickness checks as needed

   After the first lift of clay was completed and tested, R B Baker scarified the first lift of clay using dozer tracks and a backhoe bucket (with teeth) Then the second lift of clay was placed using a DJB and dozer The second lift was placed from the test strip area (in Unit 8) to approx. the curve on Unit 4

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____; Dozer__1__; Compactor 1__, Sheepsfoot Roller__; Rubber-Tire Backhoe____; Long-Stick Trackhoe____,Motorgrader____, Track Gradall____; Rubber-Tire Gradall____; Pan___, DJB__1__; Posi-Track___, CMI __; Mixer ___, Vibratory Roller _1_; Traffic Roller___; Steel Wheel Roller___; Paver____, Pumps ___, Water-wagon ___, Fuel Truck__1__; Other Haul Trucks

CREWS: Intermediate Layer Crew ____; Clay Layer Crew__1__; Pipe Crew___; Topsoil Crew ____, Subgrade Crew___; Crush-crete Crew___; Excavation Crew ____, Grading Crew __; Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ___; Maintenance Crew ___; Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ___; Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14. Tests Performed

- First and second lift of clay-nuclear density, Shelby tube, microwave testing, Atterberg limits, percent fines and permeability sampling.

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

- NOTE. R B Baker will not be working on Monday, May 26, 1997 (Memorial Day)

- **Nuclear Gauge Testing Comparison with Shelby Tube Method and Microwave Moisture Test (ASTM Method D4643-93)** - B Williams took a Shelby tube sample at each nuclear density test location Using the new CL-4 proctor (110 0 pcf), the clay material met the required 91% density A comparison between the moisture content of the nuclear gauge and the moisture content determined by the microwave oven procedure resulted in the density machine having a higher moisture reading (between 1 1% and 6 1% higher) Samples of all moisture determinations were kept for lab oven drying in Law's lab next week. After those determinations have been made, then a correction factor can be set in the nuclear gauge to accurately read the moisture of the clay material (only)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1. Date & Day of Week	
5-25-97 Sunday	
2. Report Number	
35	

3. ET&M No	4 Short Title - Trail Ridge Landfill	5 Place
E96-92-4	Incremental Closure	5110 US 301, Baldwin, Florida
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Buckley K. Williams
9 Temperature Unknown High Low	10 Weather 1 05" of rainfall	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No work observed

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor 1__, Sheepsfoot Roller__; Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____; Track Gradall____, Rubber-Tire Gradall____, Pan___; DJB__1__; Posi-Track___; CMI __, Mixer ___; Vibratory Roller _1_; Traffic Roller___; Steel Wheel Roller____, Paver____, Pumps ___; Water-wagon ___, Fuel Truck__1__; Other Haul Trucks

CREWS: Intermediate Layer Crew ____, Clay Layer Crew _____, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___; Crush-crete Crew___; Excavation Crew ___; Grading Crew __, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ___; Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___; Sod Crew ___; Seed & Mulch Crew ___, Gas Well Crew __; Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by:

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1. Date & Day of Week 5-26-97 Monday
		2. Report Number 36
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6. Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8. Quality Control Monitor Buckley K. Williams
9 Temperature Unknown High Low	10 Weather Unknown	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No work observed - Memonal Day

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor__1__; Sheepsfoot Roller__; Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____; Rubber-Tire Gradall____; Pan___, DJB__1__, Post-Track___, CMI ___, Mixer ___; Vibratory Roller __1__; Traffic Roller___; Steel Wheel Roller___, Paver____; Pumps ___, Water-wagon ___, Fuel Truck__1__, Other Haul Trucks

CREWS: Intermediate Layer Crew ____; Clay Layer Crew _____; Pipe Crew___; Topsoil Crew ____, Subgrade Crew___; Crush-crete Crew___; Excavation Crew ____; Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ____, Maintenance Crew ___; Survey Crew ___; Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____; Gas Well Crew ____, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 5-27-97 Tuesday
		2. Report Number 37
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 92 Low 77	10 Weather AM - Sunny PM - Rain 0 61"	11 Hours on Job 11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Test Strip** - Baker reworked the one area of the test strip where the permeability did not meet the specification (second lift - upper right corner of test strip), using a vibratory roller The density was checked using a nuclear gauge and shelby tube and was found to be 92-93% of the max. density B Williams then took a clay sample for permeability testing

2. **Downcomer D-85 - Excavation** - R B Baker began excavating the waste as needed for the future installation of this downcomer pipe (Section 6) A backhoe was used to excavate the in-place materials to make room for the downcomer pipe as well as 12" of clay and 12" of initial cover to be provided underneath the pipe

3 No hauling of top soil or clay materials was conducted today due to recent rains Approx. 1 05" of rainfall fell on the project site on Sunday, 5-25-97

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____; Dozer__1__, Compactor__1__, Sheepsfoot Roller___, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__1__, Posi-Track___; CMI ___, Mixer ___; Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___; Water-wagon ___, Fuel Truck__1__, Other_____

CREWS: Initial Layer Crew ____; Clay Layer Crew __1__, Pipe Crew___; Topsoil Crew ____; Subgrade Crew___, Crush-crete Crew___, Excavation Crew __1__; Grading Crew ___, Dress Crew ___, Concrete Crew ___; Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___; Liner Crew___,Liner Clean-Off Crew___; Dewatering Crew ___; Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___; Other _____

14 Tests Performed

- After recompacting the test strip area in the vicinity of failed permeability #6, B Williams tested the density using the nuclear gauge and shelby tube method The required 91% density was achieved and a permeability sample 6A was taken for permeability testing

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

- See minutes of today's Construction Progress Meeting

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 5-28-97 Wednesday
		2 Report Number 38
3. ET&M No. E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 92 Low 77	10 Weather Trace showers all day	11 Hours on Job 10 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 No hauling of top soil or clay materials was conducted today due to recent rainfall Trace rains were received on the project site, intermittently throughout the day

2 No work was conducted today due to wet conditions

13. Work Force

EQUIPMENT: Trackhoe__1__; Loader____; Dozer__1__; Compactor___, Sheepsfoot Roller__; Rubber-Tire Backhoe____; Long-Stick Trackhoe____,Motorgrader____, Track Gradall____; Rubber-Tire Gradall____, Pan___, DJB__1__, Posi-Track___; CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller____, Paver____; Pumps ___, Water-wagon ___; Fuel Truck_1__, Other_____

CREWS: Initial Layer Crew ___; Clay Layer Crew ____, Pipe Crew___, Topsoil Crew _____, Subgrade Crew___, Crush-crete Crew___; Excavation Crew ___; Grading Crew ___, Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____; Dewatering Crew ___; Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 5-29-97 Thursday
		2. Report Number 39
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 84 Low 70	10 Weather Trace rain	11 Hours on Job 11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 No hauling of top soil or clay materials was conducted today due to wet conditions at the clay borrow pit.

2. **Downcomer D-85 - Initial Cover and Clay Layer** - R B Baker began grading and compacting the initial cover placed under the proposed downcomer location at D-85 (Section 6) from Terrace #4 to Terrace #1 After compaction, density testing and thickness checks, R B Baker proceeded with the installation of the first lift of clay at the downcomer location After the first lift was placed using a DJB and dozer, a vibratory roller was used to compact the material to the required density Permeability samples were taken at each terrace (one per 75')

   R B Baker began placement of the second lift of clay, after the testing was completed on the first of clay The clay was scarified using a D6 dozer and then the same method was used to place and compact the second lift of clay

3. **Unit 3 - Initial Cover** - R B Baker graded the initial cover material on Unit 3, north of Downcomer D-85

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe____; Long-Stick Trackhoe____,Motorgrader___, Track Gradall___; Rubber-Tire Gradall___; Pan___; DJB__1__; Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon ___, Fuel Truck__1__, Other_____

CREWS: Initial Layer Crew __1__, Clay Layer Crew __1__, Pipe Crew___, Topsoil Crew ____; Subgrade Crew___, Crush-crete Crew___; Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___; Maintenance Crew ___, Survey Crew ___; Liner Crew___;Liner Clean-Off Crew___; Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14. Tests Performed

- Permeability samples, P-14, 15 and 16 for the first lift of clay under the proposed Downcomer D-85

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

- **Clay work at Downcomer D-85** - During the installation of the clay layer at the top of the downcomer location, a dozer was used to push the clay down the side slopes of the landfill B Williams observed that the dozer had to back off the clay material to allow the DJB to dump the clay on the top of the hill B Williams cautioned R Austin about sandy material on tracks of dozer which could contaminate the clay layer R Austin noted that the sandy material was minimal and if needed, he would remove the excess sandy material B Williams concurred that the sand contamination was minimal but warned that this situation must be monitored

- **As-Built Tolerances** - R Austin inquired whether R B Baker could supplement the areas that are below design tolerance (- 20') for the initial layer R B Baker has been allowed to make up the thickness in the first lift of clay only R Austin requested the liberty of making up the thickness in either clay or top soil material (with a minimum 12" clay thickness) R Austin stated that this request is mainly for the work on the backslope of the terrace where, during compaction operations, the top of the backslope will tend to be lower (more rounded than shown on the plans)

  Upon review with J Clem, B Williams informed R Austin that the thickness must be made up in the first lift of clay to ensure that in the terraces the 2 5' depth of the terrace is maintained not only in the initial and top soil layers but the clay layer as well R Austin took note of the comment

- **Top Soil Material** - B Williams informed R Austin that the top soil material sampled from the stockpile had a 0 7% organics content (minimum 1 5% is required)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
5-30-97 Friday	
2. Report Number	
40	

3 ET&M No.	4 Short Title - Trail Ridge Landfill	5 Place
E96-92-4	Incremental Closure	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Buckley K Williams
9 Temperature	10 Weather	11 Hours on Job
High 84 Low 70	Partly Sunny	11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Clay and Top Soil Hauling** - R B Baker resumed importing of clay and top soil material to the site. They are stockpiling the material on the west end of the landfill (close to Units 15-20)

2. **Downcomer D-85 - Clay Layer** - R B Baker completed the compaction of the second lift of clay at the downcomer location from the fourth to first terrace A vibratory roller was used to compact the material to the required density. Thickness checks were conducted and permeability samples were taken at the rate of one per terrace (one per 75')

   R B Baker located the existing forcemains at the anchor berm location (at section 6) B Williams was present during this work. See remarks R B Baker then excavated the waste from the first terrace to the anchor berm and placed and compacted the initial cover

3. **Unit 7 - Clay Tie-in to Existing Closure (Unit 6)** - R B Baker excavated along the second terrace between Sections 11 and 12 to locate the existing clay layer at the top of terrace two This closure section was constructed approx. three years ago The clay material was found and a backhoe was used to clean the edge for a good tie-in B Williams observed that some of the clay was not at a consistent location at the top of the terrace and R B Baker had to dig down the slope approx. 3-4 feet to find the clay After review by B Williams to ensure adequate clay was found for the tie-in, R B Baker began placing the first lift of clay on Unit 7 between sections 11 and 12 The new clay was then tied into the existing clay

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____; Dozer__1__; Compactor___, Sheepsfoot Roller___; Rubber-Tire Backhoe____; Long-Stick Trackhoe____,Motorgrader___, Track Gradall___; Rubber-Tire Gradall___; Pan___, DJB__1__; Posi-Track___, CMI ___, Mixer ___; Vibratory Roller _1_; Traffic Roller___; Steel Wheel Roller___; Paver____, Pumps ___, Water-wagon ___, Fuel Truck__1__, Other Haul Trucks

CREWS: Initial Layer Crew ___, Clay Layer Crew __1__, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___; Excavation Crew __1__, Grading Crew ___; Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___; Dewatering Crew ____, Sod Crew ___; Seed & Mulch Crew ___, Gas Well Crew ___,
Other _____

14. Tests Performed

- Permeability samples, P-17, 18 and 19 for the second lift of clay under the proposed downcomer D-85

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

- **Existing Forcemain Locations** - When R B Baker uncovered the existing forcemains at Downcomer D-85 location, B Williams suggested to R B Baker that the location and depth of the forcemains should be referenced or recorded for future reference when the closure work continues along the east anchor berm

- **Test Strip** - B Williams informed R Austin that the permeability result for the retest of the one failed perm in the test strip passed The permeability is 1 9 x 10^{-6} cm/sec

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 5-31-97 Saturday
		2. Report Number 41
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6. Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor John Teague
9 Temperature N/A High Low	10 Weather Partly Cloudy	11 Hours on Job 8

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Clay and Top Soil Hauling** - R B Baker continued importing the clay and top soil material to the site They are stockpiling the material on the west end of the landfill (close to Units 15-20)

2. **Downcomer D-85 - Initial Cover and Clay Layer** - R B Baker completed the compaction of the initial cover from the anchor berm to terrace one After compaction testing and thickness checks, R B Baker placed and compacted the first lift of clay in this area

3. **Unit 7 & 3 - Clay Layer** - R B Baker continued placing the first lift of clay on Units 7 and 3 up to the turn location of Unit 3 After grading, compaction, and density testing of the first lift of clay, the thickness was checked and a permeability sample taken Then the second lift of clay was placed on Unit 7 between sections 11 and 12 and compacted prior to density and permeability testing The second lift of clay was tied into the existing clay layer along Terrace 3 at the tie-in to the existing closure unit.

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___; Rubber-Tire Gradall____, Pan___; DJB__1__, Posi-Track___; CMI ___, Mixer ___, Vibratory Roller __1__; Traffic Roller___; Steel Wheel Roller____, Paver____; Pumps ___; Water-wagon ___, Fuel Truck__1__, Other Haul Trucks

CREWS: Initial Layer Crew __1__, Clay Layer Crew __2__, Pipe Crew___, Topsoil Crew ____; Subgrade Crew___, Crush-crete Crew___; Excavation Crew ___, Grading Crew ___, Dress Crew ___; Concrete Crew ___; Erosion Control Crew ____; Clean-up Crew ___, Maintenance Crew ___; Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___; Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____; Gas Well Crew ___;
Other _____

14. Tests Performed

- Permeability samples P-20, 21 and 22 for the first lift of clay at Downcomer D-85 (below the first terrace) and the first and second lifts of clay in Unit 7.

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	2. Report Number
6-1-97 Sunday	42

3 ET&M No	4 Short Title - Trail Ridge Landfill	5 Place
E96-92-4	Incremental Closure	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Buckley K Williams
9 Temperature N/A High Low	10 Weather Rain 1 19"	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No work observed

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1___, Compactor___, Sheepsfoot Roller__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall____, Pan___, DJB__1__; Post-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon ___, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ____, Pipe Crew___, Topsoil Crew ____, Subgrade Crew__, Crush-crete Crew___; Excavation Crew ___; Grading Crew ___, Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ___; Maintenance Crew ___, Survey Crew ___; Liner Crew___,Liner Clean-Off Crew___; Dewatering Crew ___; Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____
_____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 6-2-97 Monday
		2. Report Number 43
3. ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 83 Low 72	10 Weather Partly Cloudy	11 Hours on Job 10

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 No work was completed today due to recent rainfall. Approx. 1 19" of rainfall was received on the project site yesterday As per R. Austin, conditions were too wet to place equipment on the side slopes of the landfill Also, the clay borrow pit was too wet for hauling of clay and top soil materials

13. Work Force

EQUIPMENT: Trackhoe__1__; Loader____, Dozer__1__, Compactor___; Sheepsfoot Roller___, Rubber-Tire Backhoe____; Long-Stick Trackhoe____,Motorgrader___; Track Gradall____; Rubber-Tire Gradall____, Pan___, DJB__1__; Post-Track___; CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___; Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon ___, Fuel Truck_1_, Other_____

CREWS: Initial Layer Crew ___, Clay Layer Crew ____, Pipe Crew___, Topsoil Crew ____; Subgrade Crew___, Crush-crete Crew___; Excavation Crew ___, Grading Crew ___; Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____; Sod Crew ____; Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

- **Rain Delays** - R. Austin submitted his request for rain delay impacts for the project. Upon review, B Williams concurred on the following six days

  Thursday, May 1, 1997
  Friday, May 2, 1997
  Saturday, May 3, 1997
  Monday, May 12, 1997
  Tuesday, May 13, 1997
  Wednesday, May 28, 1997

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 6-3-97 Tuesday
		2. Report Number 44
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7. Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 83 Low 72	10 Weather Partly Cloudy	11 Hours on Job 11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Clay and Top Soil Hauling** - R B Baker resumed importing the top soil and clay materials to the project site They are stockpiling the material on the west end of the landfill, close to Units 12-20

2. **Units 1-4 - Initial Cover** - R B Baker used a backhoe to remove the wet material that has washed down into the bottom of each terrace Late in the afternoon, R B Baker resumed grading the initial cover between the second and third terraces from Section 11 to Section 8 in preparation for as-built surveying tomorrow

3. **Units 7 & 8 - Clay Layer** - R B Baker attempted to dry the clay by tracking over it, using a D6 dozer and added clay to meet the required thickness

13. Work Force

EQUIPMENT: Trackhoe__1__; Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe____; Long-Stick Trackhoe____,Motorgrader___, Track Gradall____; Rubber-Tire Gradall____, Pan___, DJB__1__; Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___; Steel Wheel Roller____, Paver____, Pumps ___; Water-wagon ___, Fuel Truck__1__, Other Haul Trucks

CREWS: Initial Layer Crew _1_; Clay Layer Crew __1__, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___; Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___; Sod Crew ____, Seed & Mulch Crew ___; Gas Well Crew ___;
Other _____

14 Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* See minutes of today's Construction Progress Meeting

* **Clay Permeabilities** - B Williams informed R Austin that permeability tests P-14 through P-19 all passed The fines content for all six of these tests (and the last nine) were between 44% and 48%

* **Clay Layer Density Requirements** - It was agreed by all parties in today's weekly meeting that the required minimum density for the clay layer could be lowered from 91% to 90% This was done at R Austin's request since the clay being placed is a 'fatter' clay (higher fines content) than the clay used in the test strip area The test strip included one passing permeability result with a density of 90 0% and a fines content of approx. 43% Since the last nine (9) permeabilities all passed with the fines content in the 44% to 48% range, the density could be lowered to reflect the passing permeability at this lower density

  J Horton (Soils Quality Assurance Engineer) stated that ETM and LAW would reserve the right to take additional permeability samples or require a 91% density if the clay material changes to a 'sandier' clay

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44-JU3 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 6-4-97 Wednesday
		2. Report Number 45
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 86 Low 66	10 Weather Partly Cloudy - 0 05" of rainfall	11 Hours on Job 10 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Clay and Top Soil Hauling** - R B Baker continued importing the top soil and clay materials to the project site They are stockpiling the material on the west end of the landfill, close to Units 12-20

2. **Units 1-4 - Initial Cover** - R B Baker continued to grade and compact the initial cover between Terrace #3 and the bottom of the landfill from Section 11 to Section 6 A vibratory roller was used to compact the layer to the required 90% minimum density

   Sunshine State Surveyors as-built the top of initial cover in various areas at Sections 6, 7, 8, 9, 10 and 11 A few shots were low (below tolerance) which, at the option of R Austin of R B Baker, will be corrected by adding extra clay material to the first lift of clay B Williams will check those areas for the required clay thickness

   R B Baker also excavated the tie-in area between Terraces #2 and #3 along Section 11 The existing clay material was found and the proposed initial cover was transitioned within the proposed construction area. Subsequent to the as-built survey, R B Baker placed clay at this tie-in so there was an approx. 5' overlap of new clay material over the existing clay material B Williams was present during this tie-in to verify that the existing clay was scarified and the new clay worked to form a homogeneous layer

3. **Unit 3 - Clay Layer** - In the afternoon, R B Baker began placing the first lift clay on Unit 3 from the corner towards Downcomer D-85 A DJB unloaded the clay material and a dozer graded the material along the slope from top to bottom B Williams observed that the clay material appears to have a high fines content, consistent with the CL-4 proctor

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor___; Sheepsfoot Roller___, Rubber-Tire Backhoe____; Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___; Pan___, DJB__1__; Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___; Steel Wheel Roller___; Paver____, Pumps ___, Water-wagon ___, Fuel Truck_1_; Other Haul Trucks

CREWS: Initial Layer Crew _1_; Clay Layer Crew _1_, Pipe Crew___, Topsoil Crew ____; Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___; Grading Crew ___; Dress Crew ___; Concrete Crew ___; Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___;Liner Clean-Off Crew___; Dewatering Crew ___, Sod Crew ___; Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14. Tests Performed

* Initial Cover density testing and thickness checks on Unit 3, north of Downcomer D-85

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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45-JU4 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1. Date & Day of Week 6-5-97 Thursday
		2. Report Number 46
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5. Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 74 Low 64	10 Weather Continuing rainfall - 0 35"	11 Hours on Job 10

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Clay and Top Soil Hauling** - R B Baker continued importing the top soil and clay material to the project site They are stockpiling the material on the west end of the landfill, close to Units 15-20

2. **Unit 3 - Clay Layer** - In the early morning, R B Baker completed in the installation of the first lift of clay on Unit 3 from the corner up to Downcomer D-85 This was done to protect the initial cover in Terrace #2 No other clay work was completed today

3. **Construction Staking** - R Austin of R B Baker performed construction staking of Units 12, 13 and 14 between the construction staking provided by Sunshine State Surveyors This was done as an agreement between J Purvis and R Austin

   R Austin also placed construction stakes on Units 1, 2 and 3

   No other work was performed today due to rainfall

13. Work Force

EQUIPMENT: Trackhoe__1__; Loader____; Dozer__1__, Compactor___; Sheepsfoot Roller___; Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__1__; Posi-Track___, CMI ___; Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___; Paver____, Pumps ___, Water-wagon ___, Fuel Truck_1_, Other Haul Trucks

CREWS: Initial Layer Crew ___; Clay Layer Crew _½_; Pipe Crew___, Topsoil Crew ____; Subgrade Crew___, Crush-crete Crew___; Excavation Crew ___; Grading Crew ___; Dress Crew ___; Concrete Crew ___; Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___; Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___; Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___; Gas Well Crew ___;
Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* **Clay Permeabilities** - B Williams informed R Austin that permeability tests P-20, 21 and 22 passed and each had a fines content above 44%

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Juanita Baden Cox

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1. Date & Day of Week 6-6-97 Friday
		2. Report Number 47
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 72 Low 64	10 Weather Trace showers all day	11 Hours on Job 9

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 Due to inclement weather, no work was performed today R Austin informed B Williams that R B Baker will not work this weekend due to continuing wet conditions and forecasted rainfall over the weekend.

13. Work Force

EQUIPMENT: Trackhoe__1__; Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller__; Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___; Rubber-Tire Gradall____, Pan___; DJB__1__, Posi-Track___; CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___; Steel Wheel Roller___; Paver____; Pumps ___; Water-wagon ___, Fuel Truck_1__, Other_____

CREWS: Initial Layer Crew ___, Clay Layer Crew ____, Pipe Crew___; Topsoil Crew ____; Subgrade Crew___; Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___; Erosion Control Crew ____; Clean-up Crew ___, Maintenance Crew ___; Survey Crew ___; Liner Crew___,Liner Clean-Off Crew___; Dewatering Crew ___; Sod Crew ___, Seed & Mulch Crew ___; Gas Well Crew ___;
Other _____

14 Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

- **Nuclear Gauge Calibration** - B Williams provided Bryant Wildes of Law with recent nuclear gauge moisture readings and a comparison of on-site microwave moisture testing and laboratory oven dry testing of recent clay samples Upon his review, B Wildes informed B Williams that the nuclear gauge machine with the adjusted moisture offset of k = -3 3, is providing average moisture readings of the clay material within one percent (1%) of the average readings of the microwave and oven dry methods B Wildes stated that although an unusual reading may be obtained due to the variability of the test sample, he believes the nuclear gauge with the moisture offset factor is an acceptable means of determining moisture/density relationships of the clay layer B Wildes stated that B Williams should verify nuclear gauge readings once every ten (10) density tests using the on-site microwave method B Wildes noted that the microwave method is an acceptable substitute for the laboratory oven dry method of determining moisture of the clay samples

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
6-7-97 Saturday	
2. Report Number	
48	

3 ET&M No	4 Short Title - Trail Ridge Landfill	5 Place
E96-92-4	Incremental Closure	5110 US 301, Baldwin, Florida
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Buckley K. Williams
9 Temperature Unknown	10 Weather	11 Hours on Job
High Low	Unknown	0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No work observed

13. Work Force

EQUIPMENT: Trackhoe__1__; Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe____; Long-Stick Trackhoe____,Motorgrader____, Track Gradall____; Rubber-Tire Gradall____, Pan___; DJB__1__; Posi-Track___; CMI ___; Mixer ___, Vibratory Roller _1_, Traffic Roller___; Steel Wheel Roller___, Paver____; Pumps ___; Water-wagon ___, Fuel Truck_1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ____, Pipe Crew___, Topsoil Crew ____; Subgrade Crew__, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ___; Maintenance Crew ___, Survey Crew ___; Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ___; Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___;
Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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48-JU7 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 6-8-97 Sunday
		2. Report Number 49
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8. Quality Control Monitor Buckley K. Williams
9 Temperature Unknown High Low	10 Weather Unknown	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No work observed

13. Work Force

EQUIPMENT: Trackhoe__1__; Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___; Pan___, DJB__1__; Posi-Track___; CMI ___, Mixer ___; Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___; Paver____; Pumps ___, Water-wagon ___, Fuel Truck_1__, Other_____

CREWS: Intermediate Layer Crew ___; Clay Layer Crew ___, Pipe Crew___, Topsoil Crew ____, Subgrade Crew__; Crush-crete Crew___; Excavation Crew ___, Grading Crew __; Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___; Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___,
Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 6-9-97 Monday
		2. Report Number 50
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7. Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 82 Low 66	10 Weather Mostly Cloudy	11 Hours on Job 11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Material Hauling** - R.B Baker continued to import top soil and clay materials to the site They are stockpiling the materials on the west end of the site, close to Units 15-20 Rains at the clay pit stopped the hauling operation at approx. 3 00 PM

2. **Unit 2 - Clay Layer** - R B Baker continued to place clay material on Unit 2 from the Downcomer D-85 to the tie-in with Unit 7 R B Baker began using a vibratory Bomag sheepsfoot roller to compact and knead the clay material After placing the material using a DJB and dozer, the material was compacted first using the sheepsfoot roller and then using the regular smooth drum vibratory roller to seal the clay

   After achieving the required 90% density, B Williams took permeability samples P-24 and P-25 for Unit 2, north of the Downcomer D-85

3. **Units 4 & 8 - Clay Layer** - Late in the afternoon, R B Baker began placing the second lift of clay on Units 4 and 8 to get the required 12" minimum thickness

4. **Unit 8 - Clay Material on Both Sides of Test Strip Area** - R B Baker had to compact the clay material on either side of the test strip area to ensure that the density of the clay layer meets the minimum 90% NOTE The densities were first taken during the test strip construction and did meet the QA/QC minimum density of 80% Since the project density has since been set at 90%, the area must be compacted to the 90% density R B Baker used the sheepsfoot roller and vibratory roller to compact the full 12" layer of clay A backhoe was used to dig down to test the bottom 6" layer However, B Williams noticed that the clay was starting to shear, thus creating a problem with accurately testing density B Williams and R Austin agreed to rework this area

13. Work Force

EQUIPMENT: Trackhoe__1__; Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller__1__; Rubber-Tire Backhoe____; Long-Stick Trackhoe____,Motorgrader___, Track Gradall___; Rubber-Tire Gradall____, Pan___, DJB__1__; Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___; Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other Haul Trucks

CREWS: Initial Layer Crew __1__, Clay Layer Crew __2__, Pipe Crew___; Topsoil Crew ____; Subgrade Crew___, Crush-crete Crew___; Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___; Erosion Control Crew ____; Clean-up Crew ___; Maintenance Crew ___; Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___; Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___; Gas Well Crew ___;
Other _____

14 Tests Performed

- After compaction with the new sheepsfoot roller and achieving the required 90% density, B Williams took permeability samples P-23 on Unit 3 and P-24 & P-25 on Unit 2.

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

- **New Sheepsfoot Roller** - R B Baker began using a new Bomag sheepsfoot roller with 4" knobs on the drum to compact the clay layer B Williams cautioned R Austin to make sure that extra clay is placed in the first lift of clay B Williams explained this is necessary to ensure that a minimum 6" thick lift of clay is tested from the bottom of the cleats (4" knobs) and to make sure the initial cover material is not mixed into the first lift of clay R Austin concurred and noted that he has instructed his personnel to place additional clay for these reasons

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 6-10-97 Tuesday
		2. Report Number 51
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 79 Low 69	10 Weather Mostly Cloudy	11 Hours on Job 11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Material Hauling** - R B Baker continued to import top soil and clay materials to the site. They are stockpiling the materials on the west end of the site, close to Units 15-20

2. **Units 4 & 8 - Second Lift Clay Layer** - R B Baker resumed placement of the second lift of clay on Unit 4 from the tie-in with Unit 8 towards the curve A vibratory sheepsfoot roller and smooth drum roller were used to compact the clay

3. **Unit 1 - Tie-in with Unit 5 and Anchor Berm** - A backhoe was used to clean off the tie-in between Units 1 and 5 A 5-8 foot area was cleaned to expose the existing clay material in the presence of B Williams Once this tie-in was made, R B Baker cleaned the bottom of Unit 1 along the anchor berm tie-in R B Baker uncovered the anchor berm tie-in up to STA. 126+00E. R B Baker then installed the first lift of clay which was tied into the existing clay material

4. **Units 2 & 3 - Initial Cover** - R B Baker began rough grading the initial cover material south of Downcomer D-85

5. **Terraces 2 and 3 - North of Downcomer D-85** - R B Baker used a D4 dozer to finish grading the first lift of clay in the terraces on Units 2, 3 and 4

13. Work Force

EQUIPMENT: Trackhoe__1__; Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller__1__; Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___; Track Gradall___; Rubber-Tire Gradall___, Pan___, DJB__1__, Posi-Track___, CMI ___; Mixer ___, Vibratory Roller _1_, Traffic Roller___; Steel Wheel Roller___, Paver____, Pumps ___; Water-wagon _1_, Fuel Truck_1__, Other Haul Trucks

CREWS: Initial Layer Crew _1_, Clay Layer Crew _1_, Pipe Crew___, Topsoil Crew ____; Subgrade Crew___, Crush-crete Crew___, Excavation Crew 1__; Grading Crew _1_, Dress Crew ___; Concrete Crew ___; Erosion Control Crew ____, Clean-up Crew ___; Maintenance Crew ___, Survey Crew ___; Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___; Gas Well Crew ___; Other _____

14 Tests Performed

- Unit 1 - Initial cover densities and thickness checks

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

- See minutes of today's Construction Progress Meeting
- **24" RCP Construction at Compactor Access Road (S-85)** - B Williams, J Clem and R Austin reviewed this construction in the field. J Clem noted to R Austin that on the east side of the perimeter roadway, R B Baker can set the 24" RCP on the throat of the structure and then match existing grade at the MES (42' south of the structure) However, the 24" RCP on the west side of the perimeter road, R B Baker will have to cut the existing throat as needed to maintain the required 18" minimum cover over the top of the pipe R Austin agreed It was noted that R B Baker will be required to brick up and grout the structures when the 24" pipes are connected into the structures

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1. Date & Day of Week	6-11-97 Wednesday
2. Report Number	52

3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 82 Low 72	10 Weather Mostly Cloudy - 0 10"	11 Hours on Job 11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Material Hauling** - R B Baker continued to import top soil and clay materials to the site They are stockpiling the materials on the west end of the site, close to Units 15-20

2. **Unit 4 - Clay Layer** - R B Baker completed placement of the second lift of clay on Unit 4 up to Downcomer D-85 A vibratory sheepsfoot roller and smooth drum roller were used to compact the clay Density and thickness were checked by B Williams and upon satisfactory results, permeability sample P-26 was taken

3. **Unit 1 - Tie-in with Anchor Berm** - A backhoe was used to clean off the anchor berm area from approx. STA. 126+00E/95+90N to approx. STA. 92+48N A 5-8 foot area was cleaned to expose the existing clay material in the presence of B Williams B Williams observed that the top of the existing clay anchor berm varied in depth There was also a 25-30' section between approx. STA. 95+00N to 95+30N in which the excavation to the top of the existing anchor berm created a three to four foot drop from the in-place 3 1 initial cover slope uphill As previously discussed, between J Clem, R. Austin, S McCallister, J Purvis and B Williams, the clay in this area will have to 'dive-down' at the anchor berm tie-in in order to provide the required clay to clay tie-in B Williams and R Austin reviewed this area and agreed that the slope of Unit 1 should be kept as close to a 3 1 as possible and R Austin noted that he will place extra clay as needed to fill in the excavation and provide a good tie-in

   During the excavation behind the Phase IB vault box, some of the existing clay material was slightly contaminated with sand material. B Williams and R Austin agreed to overexcavate in this area and replace with approximately two to three feet of new clay material in this immediate vicinity B Williams and R Austin agreed to construct the clay layer directly behind the vault box with a slope graded north and south so surface water draining to the back of the vault box could be redirected to drain around the vault box.

4. **Units 2 & 3 - Initial Cover** - R B Baker continued grading the initial cover south of Downcomer D-85 from Section S-6 towards Section S-4 R B Baker completed the grading of Unit 4 south of Downcomer D-85 (approx. 30' in length) and upon review by B Williams, R B Baker placed the first lift of clay on this section

13. Work Force

EQUIPMENT: Trackhoe__1__; Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller__1__; Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___; Pan___, DJB__1__, Posi-Track___; CMI __; Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__; Fuel Truck__1__; Other Haul Trucks

CREWS: Initial Layer Crew __1__, Clay Layer Crew __1__, Pipe Crew___, Topsoil Crew ____; Subgrade Crew___; Crush-crete Crew___, Excavation Crew __1__, Grading Crew ___; Dress Crew ___; Concrete Crew ___; Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___; Survey Crew ___; Liner Crew___;Liner Clean-Off Crew___; Dewatering Crew ___; Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___; Other _____

14 Tests Performed

* First and second lift of clay densities and thickness checks Permeability sample P-26 was taken today

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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52-JU11 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1. Date & Day of Week 6-12-97 Thursday
		2. Report Number 53
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 88 Low 72	10 Weather Mostly Cloudy - 0 24"	11 Hours on Job 10

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Material Hauling** - R.B Baker continued to import top soil and clay materials to the site They are stockpiling the materials on the west end of the site, close to Units 15-20 B Williams observed that the clay material being imported today and over the past two days resembles the clay material represented by CL-1

2. **Unit 1 - Tie-In with Anchor Berm** - Due to this mornings rainfall, R B Baker was unable to continue placing clay on Unit 1 as well as make the tie-in to the recently excavated anchor berm along Phase IB The side slopes above Unit 1 (with first lift of clay) were too wet to run DJB's on them R B Baker attempted to resume placing clay in the afternoon, but additional rains hit the project site

3. **Downcomer D-24** - R B Baker began excavation in the proposed location of this downcomer They are working from the anchor berm up to terrace three

4. **Units 2 & 3 - Initial Cover** - R B Baker continued grading the initial cover south of Downcomer D-85 from Section S-6 towards S-4

13. Work Force

EQUIPMENT: Trackhoe__1__; Loader____; Dozer__1___, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____; Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall____, Pan___, DJB__1__; Posi-Track___, CMI ___; Mixer ___, Vibratory Roller _1_, Traffic Roller___; Steel Wheel Roller____, Paver____; Pumps ___, Water-wagon __1_, Fuel Truck__1__, Other Haul Trucks

CREWS: Initial Layer Crew __1__, Clay Layer Crew ____, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew __1__, Grading Crew ___, Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ___, Maintenance Crew ___; Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___; Gas Well Crew ___; Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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53-JU12.DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
6-13-97 Friday	
2. Report Number	
54	

3 ET&M No	4 Short Title - Trail Ridge Landfill	5 Place
E96-92-4	Incremental Closure	5110 US 301, Baldwin, Florida
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Buckley K. Williams
9 Temperature	10 Weather	11 Hours on Job
High 90 Low 72	Partly Cloudy - 0 24"	11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Material Hauling** - R B Baker continued to import top soil and clay materials to the site They are stockpiling the materials on the west end of the site, closer to Units 15-20

2. **Unit 7 & 8 - Tie-in to Existing Closure** - In the afternoon, R B Baker used a backhoe to excavate along the tie-in with the existing closure B Williams reminded R Austin about the necessity for as-builts along this tie-in R Austin replied that he had forgotten about the as-builts but would leave the tie-in exposed until Monday (for as-built survey)

3. **Downcomer D-24** - R B Baker continued to excavate waste and existing initial cover in the proposed location of this downcomer working from the anchor berm up to the third terrace After the required density was achieved (using a vibratory roller) and the minimum 12" thickness was checked, R B Baker began placing the first lift of clay in this area Rain began to fall at 4 00 PM, thus slowing the placement of clay in this location R B Baker was only able to use the sheepsfoot roller to compact the first lift of clay in this area

4. **Downcomer D-85** - R B Baker completed the installation of the second lift of clay at this downcomer location from the first terrace down to the anchor berm

5. **Units 2 & 3 - Initial Cover** - R B Baker continued grading the initial cover material, south of Downcomer D-85 from S-6 towards S-4 The area in the third terrace bottom was wet and required drying After the initial soil had dried, R B Baker compacted the material using a vibratory roller SSS as-built the initial cover on the third terrace at Sections 5 and 4 and then Baker placed clay on Unit 3, between Downcomers D-85 and D-24 All survey elevations were found to be acceptable and B Williams informed R Austin of the same

13 Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor___; Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___; DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other Haul Trucks

CREWS: Intermediate Layer Crew __1__, Clay Layer Crew ___, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew __1__, Grading Crew ___; Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14. Tests Performed

* **Downcomer D-24** - Initial cover densities and thickness checks
* **Downcomer D-85** - Second lift clay layer from anchor berm to Terrace #1 (P-27)

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* **Clay Permeabilities** - B Williams informed R Austin that permeability tests, P-23, 24 and 25 passed the specifications

* **Construction Schedule** - R Austin informed B Williams that R B Baker will be working 12 hours a day (7 00 AM to 7 00 PM), six days a week to meet the project schedule R Austin added that if the daily rains cease, R B Baker should be able to decrease the work load to five days a week

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
6-14-97 Saturday	
2 Report Number	
55	

3 ET&M No	4 Short Title - Trail Ridge Landfill	5 Place
E96-92-4	Incremental Closure	5110 US 301, Baldwin, Florida
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Buckley K Williams
9 Temperature	10 Weather	11 Hours on Job
High 90 Low 72	Partly Cloudy - 0 47"	7 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Unit 7 & 8 - Tie-in to Existing Closure** - R B Baker completed excavating along the tie-in to the existing closure along Section 12

2. **Downcomer D-24** - R B Baker began compacting the first lift of clay at this downcomer location, when rainfall hit the project site at approx 9 30 AM

3. **Unit 3 & 4 -Clay Layer** - R B Baker placed the first lift of clay on the 30' area of Unit 4 between Sections 5 and 6 Then, after passing density tests and thickness checks of the initial cover material on Unit 3, between Sections 4 and 5 (approx. 335'), R B Baker began placing the first lift of clay material, south of Downcomer D-85 Continuous rainfall beginning at 9 30 AM, stopped all work on the clay layer

4. **Unit 1 - Clay Layer** - R B Baker continued the installation of the first lift of clay on Unit 1, including tieing into the anchor berm, from approx STA. 94+50N to 92+48N However rainfall stopped this work at approx. 9 30 AM Prior to clay placement, B Williams reviewed the condition of the exposed anchor berm in this vicinity and found it to be clean

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____; Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other Haul Trucks

CREWS: Intermediate Layer Crew ___, Clay Layer Crew __2__, Pipe Crew___, Topsoil Crew ____; Subgrade Crew__; Crush-crete Crew___, Excavation Crew __½__, Grading Crew ___, Dress Crew ___, Concrete Crew ___; Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___; Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____; Gas Well Crew ___; Other _____

14 Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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55-JU14 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1. Date & Day of Week 6-15-97 Sunday
		2. Report Number 56
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature Unknown High Low	10 Weather Unknown	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No work performed

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1___, Compactor___; Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__; Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___; Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1_, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew___, Topsoil Crew ____, Subgrade Crew__, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____
_____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 6-16-97 Monday
		2. Report Number 57
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6. Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 92 Low 72	10 Weather Mostly Sunny	11 Hours on Job 12

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Material Hauling** - R B Baker resumed importing clay and top soil material to the site They are stockpiling the clay material on both sides of the landfill and the top soil on the west side of the landfill This operation is placing some clay material, better classified as CL-1 material, close to Units 1-4 and 12-14

2. **Unit 1 - Clay Layer** - R B Baker completed the installation of the first lift of clay on Unit 1, including tieing into the anchor berm, from approx. STA. 94+50N to 92+48N First, R Austin used a backhoe to clean the top of the anchor berm for the tie-in, because rains had washed some silt on top of the exposed anchor berm B Williams reviewed the condition of the exposed anchor berm in this vicinity and found it to be clean, prior to clay placement.

   R B Baker then used a sheepsfoot and smooth drum vibratory rollers to compact the clay, prior to density and permeability testing (See remarks)

3. **Unit 3 - Clay Layer** - R B Baker continued to place the first lift of clay on Unit 3, between Sections 4 and 5, (approx. 335'), south of Downcomer D-85 The entire first lift was placed, compacted using the sheepsfoot roller, and then sealed with the smooth drum vibratory roller

   In the afternoon, R B Baker began placement of the second lift of clay on Unit 3 from Section 11 up to Downcomer D-85 A sheepsfoot and smooth drum roller were used to compact the clay Before placement of the clay, R B Baker had set grade stakes measuring up from the initial cover approx 1 2' for the full 12" minimum thickness of the clay layer

4. **Downcomer D-24** - R B Baker continued to compact the first lift of clay at this downcomer location using the sheepsfoot roller and vibratory roller After soil testing by B Williams, R B Baker placed, graded and compacted the second lift of clay at this downcomer location

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1___, Compactor___, Sheepsfoot Roller__1__; Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___; Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1_, Fuel Truck__1__, Other Haul Trucks

CREWS: Intermediate Layer Crew _1___, Clay Layer Crew _1_, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___; Gas Well Crew ___; Other _____

14 Tests Performed

- **Downcomer D-24** - Density tests, thickness checks and permeability samples P-28, 29 and 30 for first lift clay
- **Unit 1** - Density tests, thickness checks and permeability samples P-31 and P-32 for first lift clay.
- Sampled initial cover material on Unit 14, representative of material TRLF is using for cover on Units 12-14 and 15-17

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

- **Unit 3 - Mixing of Initial and Clay Materials** - B Williams observed that in one area along Terrace #3, the DJB (backing down the slope to dump clay on Unit 3) was starting to rut the top of the bank near Gas Well #35 R B Baker is only placing clay on the side slope of Unit 3 from the top of Terrace #3 downwards The terrace section along the top of Unit 3 will be constructed at a later date due to high traffic during construction of the remaining clay and top soil for Units 3, 2 and 1 below B Williams stressed to R Austin that the clay may be contaminated with initial soil and if this conditions continues, R B Baker may have to remove clay on the slope of Unit 3 immediately below Terrace #3 R Austin replied that he would review this situation immediately and remove any contaminated clay

- **Clay Thickness** - During the sampling of permeability P-31 (first lift clay layer), B Williams discovered that the clay thickness of the permeability sample was approx 41/2 inches In this area R B Baker had compacted the clay using the sheepsfoot roller, which did achieve density but left the top 11/2 to 2 inches loose Therefore to test the clay layer for density (and subsequently a perm sample) the loose material had to be removed, thus leaving a thickness less than the required 6" for the first lift of clay B Williams informed R Austin of this condition and noted that the tested layer must be a minimum 6" thick. R Austin noted that he has been installing the first lift of clay material in approx. 0 7' lifts, but it appears he will have to increase this lift to 0 8' or maybe 0 9' so the compacted clay layer is a minimum 6" thick. For the area that was below the required thickness, it was noted that the 6" of material is present when compacted using a smooth drum roller R B Baker will either install the clay in higher lifts or use the smooth drum roller to compact the surface smooth so a full 6" is placed and can be tested

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17 Signed - Quality Control Monitor

18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
6-17-97 Tuesday	
2. Report Number	
58	

3 ET&M No.	4 Short Title - Trail Ridge Landfill	5 Place
E96-92-4	Incremental Closure	5110 US 301, Baldwin, Florida
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Buckley K. Williams
9 Temperature	10 Weather	11 Hours on Job
High 92 Low 72	AM - Mostly Sunny PM - 0 12"	11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Material Hauling** - R B Baker continued to import clay and top soil material to the site They are stockpiling the clay material on both sides of the landfill and the top soil on the west side of the landfill

2. **Unit 1 - Anchor Berm Tie-in** - R B Baker resumed excavation along the anchor berm to expose the existing clay for the clay layer tie-in from approx STA 92+48 (Downcomer D-85) to the south up to approx. STA. 89+00N. See remarks

3. **Unit 3 - Clay Layer** - R B Baker continued to place the second lift of clay on Unit 3 from Section 11 up to Downcomer D-85 Both sheepsfoot and smooth drum rollers were used to compact the clay Before placement of the clay, R B Baker had set grade stakes measuring up from the initial cover approx 1 2' for the full 12" minimum thickness of the clay layer

4. **Unit 1 & 2 - Initial Cover** - R B Baker resumed grading and compaction of the initial cover material on Units 1 and 2 from Downcomer D-85 to the south up to Downcomer D-24 Slight rains hit the project site at approx. 2 00 PM, slowing work on the initial cover R B Baker spent most of the day preparing the initial cover As-built survey has been scheduled for tomorrow

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___; Rubber-Tire Gradall____, Pan___, DJB__2__; Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___; Paver____, Pumps ___, Water-wagon _1_, Fuel Truck_1_, Other Haul Trucks

CREWS: Intermediate Layer Crew _1_, Clay Layer Crew _1_, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew _1_, Grading Crew ___, Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___; Survey Crew ___; Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___; Other _____

14 Tests Performed

- **Downcomer D-24** - Density tests, thickness checks and permeability samples (P-33, 34 and 35) for second lift clay
- **Unit 3** - First and second lift of clay, density tests, thickness checks and permeability samples (P-36 and 37)

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

- See minutes to today's Construction Progress Meeting.
- **Anchor Berm Tie-in - Phase IC at Vault Box** - B Williams, J Clem and R Austin reviewed the existing clay material along the back side of the Phase IC vault box R B Baker was able to find the existing anchor berm north and south of the vault box, but the material located immediately behind the vault box appeared to be a sandy clay It was agreed that the new clay layer on Unit 1 would be tied into this material and then R B Baker would grade the finished clay layer to shed water around the vault box (i e with a crown graded so water would flow north and south of the vault box) and water would not pond behind the vault box

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58-JU17 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
6-18-97 Wednesday	
2. Report Number	
59	

3 ET&M No	4 Short Title - Trail Ridge Landfill	5 Place
E96-92-4	Incremental Closure	5110 US 301, Baldwin, Florida
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Buckley K. Williams
9 Temperature	10 Weather	11 Hours on Job
High 92 Low 72	Partly Cloudy - 0 41" in afternoon	11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Material Hauling** - R B Baker continued to import clay and top soil material to the site They are stockpiling the clay material on both sides of the landfill and the top soil on the west side of the landfill.

2. **Units 1 and 2 - Initial Cover** - R B Baker completed the grading and compaction of the initial cover material on these units from Downcomer D-85 to D-24, encompassing Sections 4 and 5 After grading of the initial cover material, a vibratory roller was used to compact the materials and after density tests passed, the thickness of the material was checked SSS then as-built Terrace #1 and the anchor berm All shots were found acceptable See remarks

3. **Unit 1 and 2 - Clay Layer** - At 11 30 AM, R B Baker began placement of the first lift of clay over the approved initial cover material from Downcomer D-85 towards the south Rains hit the project site at 12 30 PM, slowing placement of the clay layer See remarks R B Baker covered clay on both units from Section 6 to approx. STA. 91+00N

4. **Unit 8 - Clay Adjacent to Test Strip** - R B Baker recompacted the clay on either side of the test strip Four tests of the bottom lift of clay are required 30" perm tubes were used to test the bottom lift versus using the nuclear gauge B Williams and R Austin discovered that when excavating down to test the bottom six inches of clay (using a backhoe) the clay tended to shear thus compromising the in-place density

13 Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other Haul Trucks _____

CREWS: Intermediate Layer Crew __1__, Clay Layer Crew __2__, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ___; Seed & Mulch Crew ___; Gas Well Crew ___, Other _____

14 Tests Performed

* **Unit 1 and 2** - Initial cover densities and thickness checks between Downcomers D-85 and D-24

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* **Initial Cover - Terrace #1** - B Williams observed a 25' section of Terrace #1 that was graded out of alignment with the rest of the terrace at approx. STA. 89+15N B Williams informed R Austin of this condition and both reviewed the subject area in the field R Austin agreed that the backslope of the terrace had a 'bulge' in it and agreed to regrade this area to properly drain R B Baker reworked this area prior to clay placement.

* **Clay Material** - R Austin informed B Williams that R B Baker will begin using the recently imported ('fatter') clay material for the first lift of clay on most of Units 1 and 2 between Downcomer D-85 and D-24 R Austin noted that he would like to use this material so in case there is a problem with getting density he can adjust his methods accordingly or another proctor can be sampled NOTE The recently imported clay material stockpiled on site closely resembles CL-1 and CL-2 proctors of 94 6 and 103 6 pcf, respectively, versus the current clay proctor of 109 9 pcf (CL-4)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor

18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	2. Report Number
6-19-97 Thursday	60

3 ET&M No	4 Short Title - Trail Ridge Landfill	5 Place
E96-92-4	Incremental Closure	5110 US 301, Baldwin, Florida
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Buckley K. Williams
9 Temperature	10 Weather	11 Hours on Job
High 92 Low 74	Partly Cloudy - 0 70"	11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Material Hauling** - R B Baker continued to import clay and top soil material to the site They are stockpiling the clay material on both sides of the landfill and the top soil on the west side of the landfill.

2. **Unit 8 - Clay Layer Tie-in** - R B Baker placed, graded and compacted the first lift clay layer tie-in along Section 12, tieing the new clay into the existing in-place clay The existing closure in this vicinity has settled as much as five (5) feet on Terrace #4 R B Baker is overlapping the new clay layer over the existing clay layer eventually creating a tie-in with approx. 18-24" of clay

3. **Units 1 and 2 - Clay Layer** - As soon as the side slopes dried enough from last nights rainfall, R B Baker resumed placing and grading the first lift of clay on both units from approx STA. 91+00N to the south up to Downcomer D-24 Both sheepsfoot and smooth drum rollers were used to compact the first lift of clay See remarks

   B Williams observed that the type of clay being placed in these two sections contain more fines than the clay previously used B Williams discussed this R Austin and he concurred, adding that he is using the 'fattier' clay in these two areas B Williams reviewed this clay compared with the jar samples of CL-2 and found the material to be consistent with the CL-2 material (with a proctor of 103 6 pcf) Using the nuclear gauge, the clay material tested at approx. 93-94% maximum density on CL-2 R Austin noted that the clay material received approx. 8 passes with the vibratory rollers (4 each with the sheepsfoot and smooth drum)

4 Heavy rains hit the project site at approx 6 00 PM

13 Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1___, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other Haul Trucks

CREWS: Intermediate Layer Crew ___, Clay Layer Crew __2__, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14. Tests Performed

- **Unit 1 & 2** - Density tests, thickness checks and sampling of Perm P-38 for first lift clay
- **Unit 8** - Sampling of bottom 6" lift clay using 30" perm tubes for laboratory testing of density and moisture on either side of test strip area (FDT #'s 18, 19, 26 and 27)

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

- **Unit 2 & 3 - Rutting of First Lift of Clay** - B Williams observed a small ten foot section of clay on the outside of Terrace #2 and several small areas in the bottom of Terrace #3, where the DJB truck was rutting the clay layer, causing the initial material to come up through the first lift of clay R Austin replied that he was aware of this condition and stated that he will have to place a thicker lift of clay in the bottom of the terraces to prevent the rutting in the future R Austin noted that he will excavate the contaminated areas and replace it with clean clay

- **Units 15-17 - Stakeout** - Sunshine State Surveyors completed the construction staking of Units 15-17, Sections 18-23 for TRLF It was discovered that at Terrace #4 on Section 19, there was a 9 and 12 foot fill shown compared to the existing hill J Purvis noted that he can not build that section because it would steepen the slope adjacent to the haul road onto the landfill Therefore he would prefer to not construct Unit 17 between Sections 19 and 20, but instead construct the downcomer pipe and cap one side of the double wye B Williams reviewed this with S McCallister and he concurred that something would have to be done to protect the clay and the downcomer B Williams noted that he would review this situation with J Clem

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60-JU19 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	2. Report Number
6-20-97 Friday	61

3 ET&M No	4 Short Title - Trail Ridge Landfill	5 Place
E96-92-4	Incremental Closure	5110 US 301, Baldwin, Florida
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Buckley K. Williams
9 Temperature	10 Weather	11 Hours on Job
High 90 Low 74	Partly Cloudy - 0 13"	10

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Material Hauling** - R B Baker did not import clay and top soil material to the site today, due to rain on site and at the borrow pit.

2. **Unit 2 - Clay Layer** - R B Baker attempted to place the second lift of clay on this unit from Section 9 around to the north up to Unit 6 However, rains hit the project at approx. 12 00 PM

   By 1 00 PM, R Austin informed B Williams that R B Baker was stopping all work for the day and weekend, due to the inclement weather

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___; Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon _1_, Fuel Truck_1__, Other Haul Trucks

CREWS: Intermediate Layer Crew ___, Clay Layer Crew _½_, Pipe Crew___, Topsoil Crew ____; Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___; Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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61-JU20 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 6-21-97 Saturday
		2. Report Number 62
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature Unknown High Low	10 Weather Unknown	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No work observed

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other Haul Trucks _____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew __2__, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___; Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14 Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by Juanita Bader Clem

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1. Date & Day of Week	2. Report Number
6-22-97 Sunday	63

3. ET&M No.	4 Short Title - Trail Ridge Landfill	5 Place
E96-92-4	Incremental Closure	5110 US 301, Baldwin, Florida
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Buckley K Williams
9 Temperature Unknown High Low	10 Weather Unknown	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No work observed

13 Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__; Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__; Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other Haul Trucks

CREWS: Intermediate Layer Crew ___, Clay Layer Crew __2__, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___; Crush-crete Crew___, Excavation Crew ___, Grading Crew ___; Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___; Seed & Mulch Crew ____, Gas Well Crew ___; Other _____

14 Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

63-JU22.DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 6-23-97 Monday
		2 Report Number 64
3 ET&M No. **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 92 Low 71	10 Weather Mostly Sunny AM, Trace rains in PM	11 Hours on Job 12

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Material Hauling** - R B Baker resumed importing clay and top soil material from the clay borrow pit. They are stockpiling the materials on the west end of the landfill, closer to Units 15-20 R Austin informed B Williams that R B. Baker should be done hauling material from the pit by the end of this week

2. **Units 1 & 2 - Clay Layer** - R B Baker began placing the second lift of clay on Units 1 and 2, working from the tie-in (behind the leachate containment area) towards the south to Downcomer D-85 The first lift of clay was scarified, using the sheepsfoot roller prior to placement of the second lift of clay B Williams confirmed with R Austin that R B Baker is using the clay material identified as CL-4 (109 9 pcf proctor) for the second lift. R Austin clarified that he will use this material for the second lift and use the 'fatter' material similar to CL-2 (103 6 pcf proctor) for the first lift of clay

   In the afternoon, R B Baker began placing the second lift of clay on these units from Downcomer D-85 towards the south The first lift of clay in this area was first scarified, using a D6 dozer B Williams observed that the D6 dozer was scarifying the clay for bonding with the second lift (See remarks) B Williams observed that some of the material appeared sandier than CL-4 and closely resembled CL-3 (116 1 pcf proctor) used on the test strip area R Austin stated that there may be a small area in which the clay is a slight bit sandier, but with the compaction procedure R B Baker is using, getting the required 90-91% density should not be a problem

3. **Units 1 & 2 - Clay Layer** - R B Baker resumed compaction of the first lift of clay on these units between approx. STA. 90+00N and Downcomer D-24, using the sheepsfoot and smooth drum rollers This section was only compacted using the sheepsfoot roller on Friday (6-20-97) due to rainfall After compaction, B Williams tested the clay for density and thickness, and obtained permeability sample P-39

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___; Paver____, Pumps ___, Water-wagon _1_, Fuel Truck__1__, Other Haul Trucks_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew _2_, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___; Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14 Tests Performed

- **Unit 1** - Density tests, thickness checks and permeability sample P-39 for first lift clay
- Unit 1 & 2 - Density tests, thickness checks and permeability samples P-40, 41, 42 and 43 for second lift clay

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

- **Bonding of Clay Lifts** - B Williams cautioned R Austin that the second lift of clay must adequately bond to the first lift of clay and R B Baker should either wet the clay down or scarify the first lift of clay prior to the placement of the second lift. R Austin agreed and stated that he most likely scarify the clay because he is unable to adequately wet the large areas he is working, since the wetted clay will probably evaporate prior to the placement of the second lift.

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 6-24-97 Tuesday
		2. Report Number 65
3. ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5. Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 92 Low 71	10 Weather Mostly Sunny AM, Cloudy PM	11 Hours on Job 11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Material Hauling** - R B Baker continued importing clay and top soil material from the clay borrow pit. They are stockpiling the materials on the west end of the landfill, closer to Units 15-20

2. **Units 1, 2 & 3 - Clay Layer** - R B Baker continued placing the second lift of clay on these units from Downcomer D-85 towards the south The first lift of clay in this area was first scarified, using a D6 dozer and eventually a backhoe (See remarks) The second lift of clay was placed on three units from approx. STA. 91+00N to the south up to Downcomer D-24 DJB's hauled the clay material from the stockpile to the side slopes and a dozer was used to grade the material into place Then, a sheepsfoot and smooth drum roller were used to compact the material Each roller is making approx. 3-4 passes on the clay material in order to achieve the required density

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___; Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other Haul Trucks

CREWS: Intermediate Layer Crew ___, Clay Layer Crew __2__, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___; Concrete Crew ___; Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___; Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___; Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

- See minutes of today's Construction Progress Meeting.
- **Bonding of Clay Lifts** - B Williams again cautioned R Austin that the second lift of clay must adequately bond to the first lift of clay and R B Baker should either wet the clay down or scarify the first lift of clay, prior to the placement of the second lift. R Austin agreed B Williams then observed R Austin using a backhoe to scarify the first lift of clay prior to the placement of the second lift
- **Sand Pockets in Terrace #2** - B Williams reminded R Austin about some small areas of clay that were previously contaminated with sand which must be removed R Austin replied that he had forgotten about these areas but stated that he will remove the contaminated material

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 6-25-97 Wednesday
		2. Report Number 66
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 92 Low 71	10 Weather Mostly Sunny	11 Hours on Job 11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Material Hauling** - R B Baker was unable to import clay and top soil material from the clay borrow pit due to heavy rains late yesterday afternoon

2. **Unit 2 - Clay Contamination** - R B Baker used a backhoe to excavate sandy clay material from the backslope of Terrace # 2 between Downcomers D-85 and D-24 The initial cover material in this area had pumped through the clay material in several small areas B Williams observed the removal of this material and the backfill, grading and compaction of clean clay material in its place

3. **Units 1 & 2 - Initial Cover** - R B Baker completed the grading and compaction of the initial cover from Downcomer D-24 to the south See remarks

4. **Units 12, 13 & 14 - Initial Cover and Downcomer D-13** - R B Baker began grading and compaction of the initial cover on all three units between Sections 13 and 17. Late in the afternoon, R B Baker began excavation of waste at the proposed Downcomer D-13 location During this operation, B Williams observed that R B Baker was not excavating deep enough to remove the waste and still provide 12" of initial cover backfill and the minimum 12" of clay under the proposed downcomer pipe R Austin reviewed this situation and concurred with B Williams that the depth was not deep enough R B Baker then proceeded to reexcavate to the correct depth

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon _1_, Fuel Truck_1__, Other_____

CREWS: Intermediate Layer Crew _2_, Clay Layer Crew ____, Pipe Crew___, Topsoil Crew _____, Subgrade Crew___; Crush-crete Crew___, Excavation Crew _½_, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ___, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14 Tests Performed

* **Units 1, 2 & 3** - Density tests, thickness checks and permeability samples (P-44, 45 and 46) for second lift clay.
* **Units 1 & 2** - Density tests and thickness checks for initial cover, south of Downcomer D-24

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* **Section 2 - Units 1 & 2** - R B Baker informed B. Williams that it appears the southern most section of Unit 2 can not be built because of the existing conditions of the existing slope of the landfill at the (SE) corner of Phase IIIA. Upon review in the field, it was determined that the section will have to be moved approx. 5-10' to the north in order for the side slope and Terrace (#2) to be built and still provide protection at the southern exposed edge of the closure B Williams reviewed this with J. Clem and afterwards advised R Austin that this adjustment can be made but the adjustment must be made for both Unit 1 and 2 in order to keep a uniform edge for future tie-in R Austin took note of the comment.

* **Unit 17 - Downcomer D-10 at Terrace #4** - J Clem informed B Williams that she discussed the closure of Unit 17 in the vicinity of the downcomer at Terrace #4 with S McCallister and G Mathes of TRLF. All parties agreed that instead of constructing the closure 22' east of the downcomer, Unit 17 will be closed approx 7' east of the centerline of Downcomer D-10 This is needed due to the existing site conditions on the landfill including the temporary stabilized slope adjacent to the haul road onto the landfill. In addition, the eastern half of the double wye at the fourth terrace would not be completed but instead capped and wrapped with filter fabric for future tie-in

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor

18 Reviewed by Juanita Baker Com

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		Date & Day of Week 6-26-97 Thursday
		2. Report Number 67
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 95 Low 71	10 Weather Mostly Sunny	11 Hours on Job 11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Material Hauling** - R B Baker was unable to import clay and top soil material from the clay borrow pit due to heavy rains late yesterday afternoon

2. **Units 12, 13 & 14 - Initial Cover and Downcomer D-13** - R B Baker completed the excavation of waste at the proposed Downcomer D-13 location R B Baker then proceeded to backfill with a minimum 12" of initial cover and compacted the material, using a smooth drum roller

   R B Baker encountered a problem achieving density on Unit 13 in the downcomer section The material appeared to be the same as IC-2 (123 0 pcf), however due to high moisture content density was only 86-87% B Williams informed R Austin that the density was below the minimum 90% and suggested the use of the sheepsfoot roller The sheepsfoot roller and the smooth drum roller were used again and B Williams retested the area using the nuclear gauge and shelby tube method Both resulted in the same density (86%) with moisture contents in the 18-20% range See remarks

   A D-6 dozer was used to rough grade the units in various areas attempting to balance up the material for as-built survey and compaction

3. **Unit 1, 2 & 3 - Initial Cover** - Sunshine State Surveyors as-built the initial cover on these units south of Downcomer D-24 During the setting of horizontal control, it was discovered that Terrace #2 at the section #2 was out of alignment approx. 2-3 feet B Williams informed R Austin of this and then R B Baker corrected this terrace and the slope below After lunch, the as-built survey was completed and all shots were found to be within tolerance

4. **Units 1, 2 & 3 - Clay Layer** - Due to the compaction problem at the Downcomer D-13 location, R B Baker switched their clay operation and began placing the first lift of clay on these units south of Downcomer D-24

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew __1__, Clay Layer Crew __1__, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew __½__, Grading Crew ___; Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___; Other _____

14 Tests Performed

- **Units 1, 2 & 3** - Density tests, thickness checks and sampling of permeability samples (P-44, 45 and 46) for second lift clay
- **Units 1 & 2** - Density tests and thickness checks for initial cover south of Downcomer D-24

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

- **Initial Cover - Unit 13 at Downcomer D-13** - R Austin expressed a concern to B Williams that if R.B Baker is having trouble getting density on this material, even using the sheepsfoot and smooth drum vibratory rollers, then he believes there will be a problem with getting density on Units 12, 13 and 14, since the material is the same B Williams noted that since the moisture is high, R B Baker may need to let the material dry to approx. 14% moisture B Williams added that most of the passing initial cover densities (at 90-92%) had moisture readings in the 12-15% range R Austin replied that he understands moisture may contribute to the problem, but when he saw the sheepsfoot roller only making penetrations in the material about ¼" to ½" deep he believes the problem is something other than moisture

  B Williams brought a sample of the material in to the Law laboratory and reviewed this material with J Teague of Law Both concluded that the material was very similar to the IC-2 and IC-4 proctors and running a check point will not reveal any pertinent information B Williams noted that he will suggest to R Austin to dry the material

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
6-27-97 Friday	
2 Report Number	
68	

3 ET&M No	4 Short Title - Trail Ridge Landfill	5 Place
E96-92-4	Incremental Closure	**5110 US 301, Baldwin, Florida**
6 Contractor	7. Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Buckley K. Williams
9 Temperature	10 Weather	11 Hours on Job
High 95 Low 71	Sunny and hot	10

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Units 1, 2 and 3 - Clay Layer** - R B Baker continued to place the first lift of clay on these units from Downcomer D-24 to the southern limits of the incremental closure (See remarks) After the first lift of clay was placed, a sheepsfoot and smooth drum roller were used to compact the clay material Density testing and checking of the first lift thickness was completed by B Williams but no second lift clay was constructed

2. **Units 12, 13 and 14 - Initial Cover** - A D6 dozer continued to grade the initial cover material on these units in various areas They are attempting to balance the material for compaction and grades

3 **Units 12, 13 & 14 - Initial Cover and First Lift Clay at Downcomer D-13** - After allowing the in-place initial cover material to dry overnight and most of the morning, B Williams rechecked the density on Unit 13 at the proposed downcomer location and found it to meet the minimum 90% compaction requirement. R B Baker then placed and graded the first lift of clay at this downcomer location and compacted it using a smooth drum vibratory roller No testing of this clay was conducted today since R B Baker ceased their operations at approx 1 00 PM

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon _1_, Fuel Truck_1_, Other_____

CREWS: Intermediate Layer Crew _1_, Clay Layer Crew _1_, Pipe Crew___, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ___, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14 Tests Performed

* **Downcomer D-13** - Density testing and thickness checks of initial cover material

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* **Initial Cover - Unit 13 at Downcomer D-13** -B Williams informed R Austin this morning that he and Law reviewed the sample material of the initial cover on Unit 13 at the D-13 Downcomer location and concluded that the material is the same as the IC-2 proctor and running another proctor was unnecessary B Williams again recommended that the material be dried out to approx. 14-15% moisture in order to achieve the required 90% density R Austin agreed to check the density again, since it did not rain last night and the sun may help dry the material this morning By 11 15 AM, B Williams rechecked the density at this location and found the moisture to be at 15 7%

  R Austin stated that his concern is not only with the density underneath the downcomer but getting density on the remainder of the hill (Units 12, 13 and 14) R Austin added that he would like to test density in an area to see if density can be achieved on this material with its current moisture content R Austin noted that the majority of the initial cover material placed in this area was placed during rainy days

* **Units 1 and 2 - Closure Construction to STA. 87+80N** - Due to the existing slope of the active landfill in the vicinity of Unit 2, Section 2, Terrace 2, B Williams informed R Austin that R B Baker is to construct both Units 1 and 2 at the southern most limit of the incremental closure to within ten (10) feet of Section 2 This will protect the proposed closure section and provide unity for future closure tie-in R Austin agreed

* **Survey for Top soil Elevations - Settlement of Landfill** - R Austin informed B Williams that his surveyors (Bradshaw Surveyors) staked the top of each terrace at Section 5 through Section 11 and marked the required fill to the top of top soil R Austin noted that it appears the landfill has settled In several areas where there is a Fill 2 0' to the top of top soil, there is still approx 12" of material that still needs to be placed At these locations, R B Baker dug down with posthole diggers to the bottom of clay and R Austin noted that there is in most cases over 12" of clay is in-place R Austin asked B Williams to review this for further discussion Later, B Williams did review the areas staked by Bradshaw and found most of the conditions as R Austin had indicated

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 6-28-97 Saturday
		2 Report Number 69
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature Unknown High Low	10 Weather Unknown	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No work observed

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI __, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon _1_, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ____, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew __, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 6-29-97 Sunday
		2 Report Number 70
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature Unknown High Low	10 Weather Unknown - 0 70"	11 Hours on Job

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No work observed

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon _1_, Fuel Truck_1_, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ____, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

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17 Signed - Quality Control Monitor

18 Reviewed by

Juanitta Baden

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 6-30-97 Monday
		2 Report Number 71
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 92 Low 71	10 Weather Mostly Cloudy - 0 04"	11 Hours on Job 11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Material Hauling** - R B Baker resumed importing the clay and top soil material to the project site They are stockpiling the materials on the east and west side of the landfill R Austin noted that he anticipates being done with the hauling this week

2. **Unit 4 - Grading** - R B Baker began using a backhoe to excavate along the backslope of this terrace in preparation for completion of the initial and clay layers

   R Austin stated that due to settlement of the landfill, there is only a 12" to 18" difference between the proposed clay elevation at the centerline of Terrace #4 and the in-place clay that has settled on the outside of Terrace #4

3. **Units 1, 2 and 3 - Clay Layer** - After the first lift of clay had dried from last night's rains, R B Baker scarified the clay (using a dozer) and then placed the second lift of clay

4 **Downcomer D-13 - Clay Layer** - R B Baker used both the sheepsfoot and smooth drum rollers to compact the first lift of clay placed at this downcomer location, last Friday During thickness checks, B Williams discovered that only 4 5" of clay was present on Unit 12 B Williams informed R Austin and he replied that additional clay would be added B Williams was able to take density tests and permeability samples at this downcomer location on Units 13 and 14

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon _1_, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew _1_, Clay Layer Crew __2__, Pipe Crew___, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ___, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* **Settlement** - B Williams reviewed the amount of settlement on Units 1 through 4 and 7 and 8 In most areas, the landfill has settled approx 6" to 18" Upon review with J Clem, B Williams advised R Austin that the design grades established for the top soil must be maintained due to minimum requirements for drainage (1% slope) B Williams added that the additional material may be made up using the top soil material R Austin noted that his concern is adding 12" to 18" of extra (top soil) material over the whole job B Williams noted that he would review this further and all parties would discuss it in tomorrow's weekly meeting R Austin agreed

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 7-1-97 Tuesday
		2 Report Number 72
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 92 Low 71	10 Weather Mostly Cloudy - 1 21"	11 Hours on Job 11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Material Hauling** - R B Baker continued importing the clay and top soil material to the project site They are stockpiling the material on the east and west side of the landfill R Austin informed ETM and TRLF in today's weekly meeting that as of today, R B Baker has completed the hauling of all material (top soil and clay) to the project site from the clay borrow pit.

2. **Unit 3** - R B Baker used a backhoe to clean the center of the proposed terrace The initial cover was previously graded, compacted and as-built to the top (backslope) of the terrace and R B Baker is cleaning and grading the inside of the terrace for as-built survey

3. **Units 13 & 14 - Initial Cover** - R B Baker concentrated the majority of their efforts performing construction staking and grading of the initial cover on Units 13 and 14, in preparation for compaction and as-built survey A D4 and D6 dozer were used to perform rough and finish grading of the initial cover material

   B Williams observed that along Section 13 at Terrace #4, the existing closure units have settled approx 4-5 feet.

4. **Downcomer D-13 - Clay Layer** - R B Baker placed the second lift of clay on Units 13 and 14 at this downcomer location but did not place the second lift on Unit 12 Instead, R B Baker completed the installation of the first lift of clay in order to bring the thickness up to the required 6" minimum Then, water (accumulated in the terraces east and west of the downcomer) was released over this clay, therefore no density testing was performed on the first lift of clay

5 Heavy rains hit the project at approx 7 15 PM

13 Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1_, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew __1__, Clay Layer Crew __1__, Pipe Crew___, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew __1__, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14 Tests Performed

* **Downcomer D-13** - Density test, thickness check and permeability sample P-49 for second lift of clay

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* See minutes of today's Construction Progress Meeting

* **Rain Days for the Month of June** - B Williams and R Austin reviewed the rainfall data for the month of June and agreed that 4 74" of rainfall was received during the month of June, and R B Baker was impacted five (5) working days

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17 Signed - Quality Control Monitor

18 Reviewed by Juanita Baker

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 7-2-97 Wednesday
		2 Report Number 73
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7. Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 94 Low 71	10 Weather Mostly Sunny	11 Hours on Job 7 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Rain Impact** - No work was performed today due to approx. 1 21"of rainfall received on the project site last night. R Austin informed B Williams that he will not work on site today, but may attempt to dress up the clay borrow pit and begin demobilization from that site

2. **Survey Check of Sections 7 and 8** - SSS verified the grade elevations established by Bradshaw Surveyors which was performed for R B Baker This check was agreed to by all parties in yesterday's meeting in order to verify R Austin contention that the entire landfill has settled between 6" and 18" from Terrace #1 to Terrace #4 B Williams was present with SSS while they checked Terraces #1-4 on Section 7 and Terraces #1-3 on Section 8 The centerlines of the terraces were not checked due to the wet conditions of the clay SSS also pulled distances of 21' and 42' easterly of each terrace on Units 2, 3 and 4 (for Section 7 only) and staked the proposed top soil grade (7' and 14' lower than the above terrace grade, respectively)

SSS checked the top soil elevations established by Bradshaw and the grades were within 0 02' and 0 05', indicating that the settlement R Austin had discovered was indeed correct for the tops of the terraces When SSS surveyed the side slopes of the Units 2, 3 and 4 (21' and 42' easterly of the above terrace), the in-place clay appeared to be closer to grade The following list shows the clay elevation difference for the 21' and 42' offsets and the in-place clay thickness at each location

Section 7	Design Elevation	As-Built Elevation	Diff.	Clay Thickness
21' east of Terrace #2	165 21	165 23	+0 02'	12"
42' east of Terrace #2	158 21	158 11	-0 10'	12½"
21' east of Terrace #3	185 20	185 57	+0 37'	15"
24' east of Terrace #3	178 20	177 88	-0 32'	12"
21' east of Terrace #4	205 20	204 92	-0 28'	15"
42' east of Terrace #4	198 20	197 68	-0 52'	14"

B Williams advised R Austin of the above information and stated that he would review this information with J Clem B Williams also noted that SSS did check the top of Terrace #4 at Section 11 and found the grade to 0 26' higher than plan grade R Austin noted that his surveyors will be in tomorrow and he will have them check this stake

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew __1__, Pipe Crew___, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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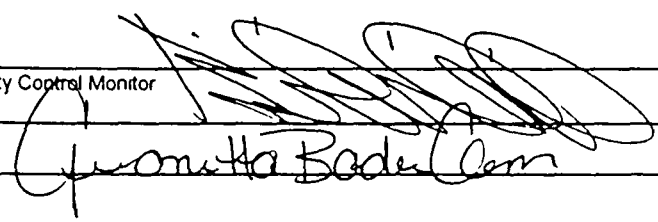
17 Signed - Quality Control Monitor

18 Reviewed by



GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 7-3-97 Thursday
		2 Report Number 74
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 97 Low 74	10 Weather Sunny and Hot	11 Hours on Job 7

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Units 12, 13 and 14 - Initial Cover** - Since R B Baker is only working a half day today (for the Fourth of July Holiday Weekend), they only rough graded the initial cover material

2. **Downcomer D-13** - R B Baker recompacted the first and second lifts of clay at this downcomer location B Williams was unable to sample for permeability for the clay due to high moisture content.

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew __1__, Clay Layer Crew __1__, Pipe Crew___, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ___, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* **Settlement Issue** - B Williams informed R Austin that he and J Clem have reviewed the survey notes from yesterday regarding settlement of the landfill B Williams informed R Austin that the settlement appears to be mainly on the terraces and it appears the side slopes of the landfill have not settled substantially B Williams informed R Austin that the design grades for the top soil elevations in the terraces must be maintained and the extra material needed (due to settlement and compaction) can be made up in top soil material B Williams reiterated to R Austin that the in-place clay in the terraces does not need to be amended as long as there is a minimum 12" of clay, the terraces are graded to the design ~1% slope and the depth in the terraces is 2 5' B Williams did note that J Clem has conceded that if in order to maintain the ~1% slope in the terraces, if the depth in the terraces must be lowered, the depth can be lowered to an absolute minimum depth of 2 0'

R Austin took note of the comments but asked if additional material will be needed on the side slopes of the landfill B Williams commented that as long as there is a minimum 24" of top soil on the side slopes and the slope between terraces is a 3 1 slope or flatter, it does not appear that additional material will be needed on the side slopes of the Units

R Austin then asked if ETM would recommend additional payment for the extra top soil material needed in the terraces to bring settlement up to design grade R Austin's calculations of one extra foot of material over a 15' wide terrace (approx 5,000 linear feet) for the job would be approx 2,777 cubic yards B Williams replied that ETM's position is that the extra material required due to settlement does not warrant additional compensation B Williams explained that as stated in the pre-construction meeting, the design grades would not be changed due to settlement but the Contractor would not be responsible for settlement until the top soil as-builts have been surveyed and found acceptable R Austin stated that it is R B Baker's position that they are not responsible for settlement, especially when the settlement is of an unknown capacity, and would be looking to discuss this issue further B Williams took note of the comment.

Regarding the construction of the backslope of Terrace #4, B Williams explained that R B Baker is to construct the initial cover material to the design grades even though the overall depth of the (partially built) terrace would be less than the proposed 2 5' depth R Austin took note of the comment.

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 7-4-97 Friday
		2 Report Number 75
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature Unknown High Low	10 Weather Unknown	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No Work Observed - Fourth of July Holiday

13 Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ____, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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17 Signed - Quality Control Monitor

18 Reviewed by

75-JL4 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 7-5-97 Saturday
		2 Report Number 76
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature Unknown High Low	10 Weather Unknown	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No Work Observed

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ____, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ___, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor

18 Reviewed by: Juanitta Bader

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 7-6-97 Sunday
		2 Report Number 77
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7. Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature Unknown High Low	10 Weather 1 55" of rain over weekend	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No Work Observed

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI __, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon _1_, Fuel Truck_1_, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew _2_, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew __, Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___; Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor

18 Reviewed by Juanita Boden

77-JL6 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 7-7-97 Monday
		2 Report Number 78
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 88 Low 70	10 Weather Mostly Sunny AM, Rain in PM 0 20"	11 Hours on Job 10

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Compactor Access Road - 24" RCP Crossings** - R B Baker's pipe crew arrived on site and began construction of the 24" RCP crossings on both sides of the perimeter roadway at the proposed compactor access road location R B Baker had hoped to start construction of Downcomer D-85 today but rains over the weekend prevented that work See remarks

   R B Baker was only able to lay four joints of pipe on each side of the road because of the mitered end sections were not the correct type During excavation of silty material in the ditch bottom on the landfill side of the perimeter roadway, R B Baker accidentally cut the existing 2" PVC SCH 40 watermain B Williams observed this situation and upon review with R Austin, agreed that the 2" watermain, although not in direct conflict with the 24" RCP run of pipe, will be in conflict with the proposed 18" HDPE Downcomer D-85 pipe B Williams cautioned R Austin about the electrical lines in the vicinity of the proposed downcomer

2. **Top Soil** - R B Baker prepared to receive peat moss on site to supplement the top soil on site

3 **Units 12, 13 and 14** - R B Baker attempted to remove excess overburden material along the tie-in with Units 9, 10 and 11, however, rains over the past weekend and today slowed this work

4 By 2 00 PM, R B Baker halted all work on the project due to continuing rains

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew __1__, Pipe Crew__1__, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

- **24" RCP Construction** - B Williams observed that the mitered end sections for the RCP crossings were constructed incorrectly (with the bells facing downstream) B Williams informed R Austin of this situation and R Austin confirmed that he was aware of this situation R Austin added that he ordered the pipe that way because he thought the ditches were flowing away from the 24" RCP R Austin asked if the pipe could be laid backwards B Williams replied that the pipe must be laid the correct way, with bells facing upstream R Austin agreed to order new mitered end sections

  B Williams reminded R Austin and the pipe foreman (Eugene) that the 24" RCP pipe must have the required 18" minimum cover It was noted that at the crown of the pipe to be installed across the access road, the 24" RCP pipe (on the west side of the perimeter roadway) would have the minimum 18" of cover B Williams also stated that this run of pipe should have a minimum 0 1' of fall from the mitered end into Structure S-85 The 24" RCP connecting into S-86 (east side of perimeter roadway) will also have the required 18" minimum cover and the minimum 0 1' of slope

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor

18 Reviewed by Jeanitta Boden

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1. Date & Day of Week	
7-8-97 Tuesday	
2 Report Number	
79	

3 ET&M No	4 Short Title - Trail Ridge Landfill	5 Place
E96-92-4	Incremental Closure	5110 US 301, Baldwin, Florida
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Buckley K Williams
9 Temperature	10 Weather	11 Hours on Job
High 92 Low 73	Partly Cloudy	8 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Compactor Access Road - 24" RCP Crossings** -R B Baker installed the correct mitered end sections on both runs of 24" RCP to Structures S-85 and S-86

2. **Downcomer D-85 - 18" HDPE** - R B Baker excavated around Structure S-85 for the installation of the Downcomer D-85 Upon excavation, it was discovered that the existing 2" watermain was in direct conflict with the downcomer pipe The 2" watermain was then cut and will be relocated at a later date R B Baker also uncovered a set of six conduits containing electrical and alarm wiring for the various vault boxes The six conduits were located approx 7' west of the structure While excavating uphill from the six conduits, R B Baker cut another conduit with one pair of shielded cable, presumably an alarm wire This conduit was only 9-12" below grade instead of the usual 18" depth of cover (See remarks)

   R B Baker continued to prepare the bedding for the 18" downcomer pipe R Austin figured the grades for the pipe to be laid in order to achieve the required minimum 12" of clay below the pipe and the minimum 18" of cover B Williams cautioned R Austin and the pipe foreman with regards to the edge of the liner in the vicinity of the anchor berm From as-built information, B Williams provided R B Baker with the approximate location and depth of the edge of the liner but cautioned them that these were just estimates from the as-built information R B Baker proceeded to use a probing rod to ensure that the liner edge is located prior to excavation NOTE R B Baker did not encounter the liner edge during this excavation

   Two Fife Pipe representatives arrived on site this afternoon and began working on welding the straight runs of HDPE pipe to the prefabricated wyes Fife also had to field construct the 18° bend for the pipe connection at the structure

3. **Units 1-4 and 7-8 - Clay Layer** - R B Baker continued to check grades on all of the terraces to ensure the proper clay thickness and percent grade (1% slope) for the underdrains in the terraces R Austin informed ETM that he is adjusting the grades due to settlement in the terraces R Austin noted that he is using an average settlement of 6" for Terrace #1 and 1 0' for Terrace #2

   A backhoe was also used to cleaning silty material from the bottom of the terraces and spreading the material on the slope A dozer was then used to retrack the slopes as needed in preparation for finished clay grading

4. **Units 12, 13 and 14 - Tie-in with Units 9, 10 and 11** - A backhoe cleaned the existing cover materials along this tie-in so a proper clay to clay tie-in could be made Upon excavation of the tie-in, it was discovered that the existing terraces have settled progressively from the first terrace (Terrace #2) up to Terrace #4 (approx 4-5')

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew __1__, Pipe Crew__1__, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___, Other __Fife Pipe (½ day)_____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* See minutes of today's Construction Progress Meeting

* **Settlement** - The issue of continuing settlement of the landfill was reviewed in today's construction meeting S McCallister requested that ETM and TRLF discuss this issue with the DEP prior to placing thousands of yards of extra dirt to meet design (top soil) grade which within months will no longer be at design grade due to settlement J Clem expressed concern that the grades should not be adjusted if the future terraces above the closure would also be lowered (a major loss of airspace)

  ETM and TRLF attempted to contact Richard Tedder with the DEP this afternoon but he was out of the office for the rest of the day ETM then informed R Austin that if R B Baker needs an answer regarding what elevation they must meet with the top soil, they are to proceed with the design grades on Terrace #1 (as per R Austin this terrace is 6" low) R Austin agreed and stated to B Williams that he will place top soil on Unit 1 and Terrace #1 (as per the 24" thickness) and proceed up Unit 2 but not including Terrace #2, until a decision regarding the grades can be made R Austin noted he will not proceed past Terrace #2 in case he needs to go back and add material to Terrace #1 (above the 24" thickness) to meet design grades B Williams took note of the comment but reiterated that as of this point, ETM requires proceeding with the design grade on Terrace #1 only

* **Electrical/Alarm Conduits** - B Williams contacted Randy Strausser of Miller Electric and asked if he could visit the site to verify the alarm cable (at the Downcomer D-85 locations) has been cut or if the line is a dead line Miller Electric was also requested to provide a quote to install seal-offs at the alarm panel, per a request from J Purvis and S McCallister of TRLF

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 7-9-97 Wednesday
		2 Report Number 80
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 92 Low 73	10 Weather Partly Cloudy	11 Hours on Job 12

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Downcomer D-85 - 18" HDPE** - R B Baker installed the first section of 18" HDPE pipe today from Structure S-85 up to and including the wye section at Terrace #2 R B Baker then backfilled around the pipe with top soil material outside of the anchor berm and with clay from the anchor berm to the top They compacted the clay using vibratory impact compactors

   Two Fife Pipe representatives continued welding the straight runs of HDPE pipe to the prefabricated wyes and the 18° bend for the 30" Downcomer D-24 Fife Pipe welded the flanges onto the straight runs of pipe to connect the sections of pipe (for the 18" downcomer) at the flanges

3. **Units 1-4 and 7-8 - Clay Layer** - R B Baker continued to check grades on all of the terraces to ensure the proper clay thickness and percent grade (1% slope) for the underdrains in the terraces A small D4 dozer was used to grade the terraces

   A backhoe continued to clean silty material from the bottom of the various terraces and spread the material on the slope A dozer was then used to retrack the slopes in preparation for finished clay grading

4. **Unit 1 - Top Soil** - R B Baker began placing the stockpiled top soil (previously placed outside the anchor berm) onto the slope at the bottom of Unit 1

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon __1_, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew __1__, Pipe Crew__1__, Top soil Crew __1__, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___, Other __Fife Pipe_____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* **Fittings for Lateral Drains at Downcomer Terraces** - Upon review in the field, R Austin and B Williams concluded that the fittings R B Baker has on site are approx. 45° bends which will require an adjustment B Williams informed R Austin that he would have to review this with J Clem, prior to allowing the 45° bends to be used It appears that the bends should be approx 78° bends (opposite angle of wye angle at downcomer pipe)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by Juanitta Baker Clem

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 7-10-97 Thursday
		2 Report Number 81
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 92 Low 73	10 Weather Partly Cloudy	11 Hours on Job 9 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Downcomer D-85 - 18" HDPE** - R B Baker continued to construct the 18" downcomer pipe from the second terrace to the fourth terrace R B Baker discovered that the bends of the prefabricated 18" wyes were 22° bends rather than the 18 5° bends as shown on the plans After fitting the wye in place, R B Baker confirmed that the incorrect angles would not work. Therefore, Fife Pipe had to reconstruct the angles to match the 3 1 slope B Williams confirmed that a minimum 12" of clay was in-place under each downcomer section

   R B Baker compacted clay around the 18" pipe using a vibratory drum roller and jumping jack (impact drivers)

2. **Units 1-4 and 7-8 - Clay Layer** - R B Baker continued to check grades on all of the terraces to ensure the proper clay thickness and percent grade (1% slope) for the underdrains in the terraces A small D4 dozer was used to grade the terraces After working Units 1 and 2, north of Downcomer D-85, R B Baker started finish grading the clay on both units south of Downcomer D-85

3. **Units 4 and 8 - Clay Layer** - R B Baker constructed the clay layer on the backslope of Terrace #4 at the top of the landfill Due to settlement, the difference in elevation between the top and centerline of Terrace #4 varies between 1 5 and 2 5 feet.

4. **Unit 1 - Top Soil** - R B Baker began placing the stockpiled top soil material on Unit 1 from the tie-in with Unit 5 toward the south Grade stakes were placed to ensure the minimum 24" of top soil depth is met and a D4 dozer was used to grade the material from the first terrace down to the anchor berm

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Post-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon _1_, Fuel Truck_1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew _2_, Pipe Crew_1_, Top soil Crew _1_, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew __, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _Fife Pipe_____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* **Fittings for Lateral Drains at Downcomer Terraces** - Upon review with J Clem, B Williams informed R Austin that the 45° bends as delivered to the site are not acceptable It appears 78° bends are needed in order to allow the bend and 5' of pipe to fit in the terrace centerline as per the detail R Austin took note of the comment and stated that he will have Fife Pipe review the angle and supply the proper bend as necessary

* **End Piping for Downcomer D-85** - R Austin informed B Williams that it appears the length of the piping shown for the end piping is incorrect as shown on the plans since the angle of this end piping is 10° versus 18 5° (for a 3 1 slope) R Austin asked if ETM could review this to make sure the angle of the pipe is correct or if it should be changed to a 18 5° bend Upon review, B Williams informed R Austin that the 18" pipe at the end of Downcomer D-85 is sticking through the top soil layer and not on the clay layer, thus the 10° angle is correct B Williams did note that it appears approx 3' of piping will need to be added to make the length of pipe fit R Austin agreed

  B Williams also clarified that the pipe must be backfilled so the clay wedge over the pipe is continuous throughout the terrace across the downcomer pipe This is needed to prevent the area over the downcomer pipe from becoming a weeping (erosion) point. R Austin agreed but noted that when the clay and top soil is constructed at the end of Downcomer D-85, it will be above the surrounding garbage B Williams agreed but noted that the slope west of the end of the pipe must be built per the detail

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor

18 Reviewed by Jeanetta Boden Clem

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
7-11-97 Friday	
2 Report Number	
82	

3 ET&M No	4 Short Title - Trail Ridge Landfill	5 Place
E96-92-4	Incremental Closure	5110 US 301, Baldwin, Florida
6 Contractor	7 Superintendent	8 Quality Control Monitor
R. B. Baker Construction, Inc.	Richard Austin	Buckley K Williams
9 Temperature	10 Weather	11 Hours on Job
High 92 Low 73	Partly Cloudy	12

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Downcomer D-24** - R B Baker began construction of the 30" HDPE downcomer from Structure S-24 up to and including the third terrace The length of the pipe from the structure to the first terrace (up to the beginning of the double wye) was approx. 92' and because of this length, welding of the pipe by Fife Pipe was slow Once the welding was completed, it took two trackhoes to carry the more than 115' of pipe (including double wye section) down the hill and set in place When placing the pipe, Baker discovered that the pipe length was 4' too short, therefore, Fife Pipe had to set-up their equipment at the bottom of the hill and add the 4' section of pipe Baker then installed the first section of pipe at approx 2 30 PM Then the next two sections were installed and bolted together by 8 30 PM R B Baker will backfill and compact around the pipes tomorrow

2. **Units 1-4 and 7-8 - Clay Layer** - Baker continued to check grades for all of the terraces to ensure the proper clay thickness and percent grade (1% slope) for the underdrains in the terraces A small D4 dozer was used to grade the terraces

3. **Unit 1 - Top Soil** - Baker continued placing the stockpiled top soil material on Unit 1 from the tie-in with Unit 5 toward the south Grade stakes were placed to ensure the minimum 24" of top soil depth is met and a D4 dozer was used to grade the material from the first terrace down to the anchor berm

13. Work Force

EQUIPMENT: Trackhoe 2, Loader 1, Dozer 2, Compactor ___, Sheepsfoot Roller 1, Rubber-Tire Backhoe ___, Long-Stick Trackhoe ___, Motorgrader ___, Track Gradall ___, Rubber-Tire Gradall ___, Pan ___, DJB 2, Posi-Track ___, CMI ___, Mixer ___, Vibratory Roller 1, Traffic Roller ___, Steel Wheel Roller ___, Paver ___, Pumps ___, Water-wagon 1, Fuel Truck 1, Other ___

CREWS: Intermediate Layer Crew ___, Clay Layer Crew 1, Pipe Crew 1, Top soil Crew 1, Subgrade Crew ___, Crush-crete Crew ___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ___, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___; Liner Crew ___, Liner Clean-Off Crew ___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other Fife Pipe

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* **Terrace #1 - Unit 7 tie-in with Unit 6** - B Williams reminded R Austin that Baker must construct the terrace tie-in so there is a backslope of no less than 1 5' in depth B Williams reminded R Austin that the depth of this terrace could be lowered to 1 5' (for the length of this tie-in only) due to the settlement of Unit 6 and the steepness of Unit 7 in this area

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor

18 Reviewed by Juanitta Baden Clem

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 7-12-97 Saturday
		2 Report Number 83
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 92 Low 73	10 Weather Partly Cloudy	11 Hours on Job 8

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Downcomer D-24** - R B Baker completed the backfill and compaction of clay around this pipe and the double wye sections at each terrace Baker placed extra clay around the double wye stub-outs from the 30" trunk line Baker will be leaving these stub-outs open for drainage purposes, but clay is needed around the pipes to ensure that storm water does not get underneath the downcomer section Baker also compacted clay around the stub-outs for the 18" Downcomer D-85 (NOTE Compaction was achieved using an impact driven jumping jack wacker)

2. **Unit 1 - Top Soil** - Baker continued placing the stockpiled top soil material on Unit 1 from approx STA 90+00N to the southern limit of this unit. Grade stakes were placed to ensure the minimum 24" of top soil depth is met and a D4 dozer was used to grade the material from the first terrace down to the anchor berm

3 **Unit 7, Terrace #2 - Underdrain Pipe and Filter Sand** - The pipe crew began installation of the underdrain pipe in Terrace #2 from the tie-in with the existing closed unit to the south, to the high point (Section 11) A template was constructed by Baker and attached to a backhoe bucket to cut the 3 1 slopes of the terrace R Austin informed B Williams that he has adjusted the grade in the terrace to ensure a minimum 1% slope and the minimum 12" of clay

Baker completed the underdrain excavation and B Williams confirmed the required 12" of clay material in the bottom and side slopes of the terrace Baker then placed the filter sand to a depth of 6" over the underdrain pipe and backfilled over it with top soil material to protect the filter sand from contamination during a rain event (silt from clay layer above the terrace)

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew__1__, Top soil Crew __1__, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* **Clay Thickness** - During thickness checks of the clay layer, B Williams observed that there was approx 9" of clay along the top of Terrace #1 at the southern limit of Unit 1 (10' north of Section 2) B Williams dug additional test holes to isolate the deficiency and determined that the clay thickness problem was isolated to the top of the terrace B Williams informed R Austin of this situation and noted that additional clay is needed at the top of the terrace R Austin replied that he would scarify and add the additional clay and compact it, prior to covering with top soil material

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 7-13-97 Sunday
		2 Report Number 84
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature Unknown High Low	10 Weather Unknwon	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No Work Observed

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___; Clay Layer Crew ___, Pipe Crew___, Topsoil Crew ____, Subgrade Crew_ _, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___, _Other _____
_____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by Yvonnitta Braun

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
7-14-97 Monday	
2. Report Number	
85	

3 ET&M No	4 Short Title - Trail Ridge Landfill	5 Place
E96-92-4	Incremental Closure	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Buckley K Williams
9 Temperature	10 Weather	11 Hours on Job
High 92 Low 73	Partly Cloudy	11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Unit 1 - Clay Layer and Top Soil** - After reworking the southern edge of Unit 1 at the first terrace (in order to provide the required 12" minimum clay thickness), Baker resumed covering the remainder of Unit 1 with top soil up to, but not including, the first terrace The first terrace will be covered with top soil after the underdrain is installed After Baker compacted the additional clay, B Williams rechecked the thickness of the clay to ensure the required thickness

   Grade stakes were placed to ensure the minimum 24" of top soil depth is met A D4 dozer was used to grade the material from the first terrace down to the anchor berm

   Late in the afternoon, Baker began supplementing the in-place top soil with peat moss The peat moss was spread using a dozer and discs will be used to plow the material into the top soil

2. **Unit 1, Terrace #1 - Underdrain Pipe and Filter Sand** - The pipe crew began construction of the underdrain pipe in Terrace #1 from Downcomer D-85 towards the north up to and including the tie-in with the existing closed Unit #5 (at Section 11) First, Baker installed the 18" x 6" wye section (with rubber gaskets) at the 18" stub-outs and overexcavated to ensure the laterals were encased in clay Baker then checked grade in the terrace centerline using a level and began excavation of the terrace swale, using the template constructed by Baker and attached to a backhoe bucket to cut the 3 1 slopes of the terrace

   After laying the first 125' of underdrain pipe in Terrace #1, R Austin discovered that the grade was too high, thus having too much clay underneath the pipe (1 4'-1 6') and not having the required cover over the pipe Baker pulled up all of this pipe and filter sand and relaid this section

   Baker completed the underdrain excavation and B Williams confirmed that there was the required 12" of clay material in the bottom and side slopes of the terrace Baker then placed the filter sand to a depth of 6" over the underdrain pipe and backfilled with top soil material to protect the filter sand from contamination during rain (silt from clay layer above terrace) Clean-outs were placed every 100 linear feet of underdrain pipe and located for future reference by Baker

   Baker had to adjust the high point in Terrace #1 to maintain the 12" of clay and the 2 5' depth in the terrace R Austin informed B Williams this was needed due to uneven settlement of the terrace

3. **Unit 7 - Top Soil Layer** - Baker began placement of top soil material on this unit from the tie-in with the existing closure hill towards the north B Williams observed some desiccation cracks (see remarks) and after bringing to R Austin attention, Baker reworked the surface of the clay to fill all cracks, prior to top soil placement

4. **Units 13 and 14 - Initial Cover** - Baker resumed grading and compacting of the initial cover material on these two units, in preparation for the as-built survey

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew _½___, Clay Layer Crew __2__, Pipe Crew__1__, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ___, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* **Desiccation Cracks** - B Williams informed R Austin that all desiccation cracks greater than ½" in depth must be reworked by either filling with clay material or wetting and resealing the surface R Austin noted that Baker will backdrag clay material into the cracks and recompact the surface, using a smooth drum roller

* **Downcomer/Underdrain Piping Supplies** - In discussions with R Austin, it appears that Baker and Fife Pipe are having difficulty getting all the required bends and appurtenances for the downcomer/underdrain piping system for the site The following items are lacking in either quantity or quality 6" gaskets, 6" wyes, 18" bends for laterals (in terrace centerline), stainless steel bolt assemblies, and 6" 45 degree bends

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor

18 Reviewed by Jeanitta Baden Clem

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 7-15-97 Tuesday
		2 Report Number 86
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 92 Low 73	10 Weather Partly Cloudy	11 Hours on Job 11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Unit 1, Terrace #1 - Underdrain Pipe and Filter Sand** - R B Baker completed the installation of the underdrain pipe and related appurtenances and filter sand in Terrace #1 from Downcomer D-24 to Downcomer D-85 In order to set grade and check the slope of the proposed underdrain, R B Baker dug down to the top of the initial cover, measured up the minimum 12" of clay and set grade Then a level and rod were used to ensure the terrace bottom was excavated (using the template on the backhoe bucket) to the required 1% minimum slope R B Baker personnel checked grade every 10' to make sure the ditch was rising a minimum 0 1' After the ditch was excavated, B Williams checked the thickness of the clay layer to ensure the required 12" of clay was maintained

   R B Baker started laying pipe in Terrace #1 from the double wye to the terrace, laying approx 24' of solid underdrain pipe from the wye to the terrace and then placing a 45° bend in the terrace centerline Then the remainder of the underdrain was laid with clean-outs every 100' (measured from the 45° bend) R B Baker then placed the filter sand to a depth of 6" over the underdrain pipe and backfilled with top soil material to protect the filter sand from contamination during rain (silt from clay layer above terrace)

   R B Baker attempted to lay the underdrain from Downcomer D-24 towards the south but at approx 1 00 PM, the loader used to place the filter sand broke down R B Baker then ceased the underdrain installation for the day

2. **Unit 1 & 2 - Top Soil Layer** - Baker began placement of top soil material on Unit 2 from the tie-in with the existing closure towards the south up to Downcomer D-85 R B Baker also continued supplementing of the in-place top soil on Unit 1 by adding peat moss and mixing it, using a dozer and plow discs

3. **Compactor Access Road - 24" RCP** - The pipe crew began bricking up and grouting the 24" RCP pipes in drainage Structures S-86 and S-85

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon _1_, Fuel Truck_1_, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew _1_, Pipe Crew_1_, Top soil Crew _1_, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14 Tests Performed

* **Units 12, 13 and 14** - Density tests of initial cover material
* **Crush Crete Material** - Sampled for LBR and gradation testing

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* See minutes of today's Construction Progress Meeting

* **Settlement Issue** - As discussed in today's meeting, the DEP has agreed to allow adjustment to the final grades to accommodate for settlement that the site is experiencing during construction This adjustment will not result in loss of future airspace during incremental closure above Terrace #4, i.e the grades above Terrace #4 will not have to be modified

  It was agreed in today's meeting, that R B Baker will have their surveyors stake the terraces to determine the amount of settlement per terrace Each terrace will be adjusted as needed to meet the settlement Unless extreme differential settlement is encountered, adjustment of final grades will be continuous throughout each terrace, i e the whole terrace will be adjusted the same amount

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor

18 Reviewed by: Juanita Baker

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 7-16-97 Wednesday
		2 Report Number 87
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 94 Low 73	10 Weather Partly Cloudy - Trace rains	11 Hours on Job 10 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Unit 1, Terrace 1 and Unit 8, Terrace 3 - Underdrain Pipe and Filter Sand** - R B Baker completed the installation of the underdrain pipe including related appurtenances and filter sand in Terrace 1 from Downcomer D-24 to the south and backfilling of previously laid underdrain between Downcomer D-24 and Downcomer D-85 R B Baker continued to set grade from the initial cover material up (with a minimum 12" of clay), checking clay thickness every 50' They are using a level and rod to ensure the terrace bottom was excavated (using the template on the backhoe bucket) to the 1% minimum slope R B Baker personnel checked grade every 10' for the 1% slope After the ditch was excavated, B Williams continued to check the thickness of the clay layer to ensure the required 12" of clay was maintained

   R B Baker installed the underdrain pipe in Terrace 3 from the existing closure section (tieing on to the existing underdrain pipe) to the high point at Section 11 There was a 50' section in which the thickness of the clay was less than the required twelve inches B Williams informed R Austin of this situation and after further review in the field, it was decided to overexcavate as needed and backfill with the required 12" of clay After the clay was replaced, a sheepsfoot roller was used to compact the clay

   Cleanouts were constructed every 100' (for Unit 8, Terrace 3 a cleanout was placed at the high point and 100' south) and after backfilling with filter sand to a depth of 6" over the underdrain pipe, top soil was placed over the pipe to protect the filter sand from contamination during a rain event (silt from clay layer on above slope)

   R B Baker then proceeded with underdrain installation on Unit 3, Terrace 3

2. **Unit 1 & 2 - Top Soil Layer** - R B Baker completed the placement of top soil material on Unit 2 from Downcomer D-24 to the proposed compactor access road at Downcomer D-85 Prior to placement of top soil material, the clay excavated during underdrain construction in Terrace 1 was spread across Unit 2 and the surface was reworked to alleviate any desiccation cracks B Williams walked the clay surface prior to top soil placement to inspect the surface for desiccation cracks R B Baker also continued supplementation of the in-place top soil material on Unit 1 by adding peat moss and mixing, using a dozer and plow discs

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1_, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew_2_, Top soil Crew __2_, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14 Tests Performed

* **Top Soil Sample** - After mixing of peat moss to supplement the top soil sampled material on Unit 1 for pH and organics testing

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by Juanita Baden Cross

87 JL16 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 7-17-97 Thursday
		2 Report Number 88
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 94 Low 73	10 Weather Partly Cloudy	11 Hours on Job 8

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Unit 3, Terrace 3 - Underdrain Pipe and Filter Sand** - R B Baker completed the installation of the underdrain pipe including related appurtenances and filter sand in Terrace 3 from Downcomer D-85 to the north, connecting to the previously laid underdrain in the same terrace at Unit 7 R B Baker continued to set grade from the initial cover material up (with a minimum 12" of clay), checking clay thickness every 50' They are using a level and rod to ensure the terrace bottom was excavated (using the template on the backhoe bucket) to the 1% minimum slope R B Baker personnel checked grade every 10' for the 1% slope After the ditch was excavated, B Williams continued to check the thickness of the clay layer to ensure the required 12" of clay was maintained

   Cleanouts were constructed every 100' and after backfilling with filter sand to a depth of 6" over the underdrain pipe, top soil was placed over the pipe to protect the filter sand from contamination during a rain event (silt from clay layer on above slope)

2. **Units 1 & 2 - 18" Lateral Side Drains in Terraces 1 and 2** - R B Baker began construction of the 18" lateral side drains for Downcomer D-85 at Terraces 2 and 3 The new 78° bends were used to construct the 18" side drains from the single Wye up to the centerline of the terrace Approx 16' of pipe was used between the single Wye and 78° bend and then approx. 5' of pipe was added to the end of the pipe (in the terrace centerline) so the inlet is fifteen feet from the centerline of the downcomer After this construction, the pipes were backfilled with clay and after compacting with a vibratory compactor, top soil was placed and the berm over the side drains was rough graded

   R B Baker then began construction of the 18" lateral side drains for Terraces 1 and 2 at Downcomer D-24

3. **Unit 1, 7 & 8 - Top Soil Layer** - A backhoe was used to level the stockpiled top soil along the tie-in with the existing closure section at Units 7 and 8 (Section 12), by moving the excess material onto the new closure section

   R B Baker began placement of top soil material on Unit 3 from Downcomer D-85 towards the north Prior to top soil placement, R B Baker reworked the clay layer and B Williams checked the clay thickness B Williams then walked the clay surface prior to top soil placement to inspect the surface for desiccation cracks

   R B Baker added material to account for settlement of the landfill at Terrace 1 (see remarks) Unit 1 in preparation for as-built surveying The extra material was added and blended into the in-place top soil material

4. **Cleaning of Ditch at Leachate Containment Area** - R B Baker used a backhoe to remove the majority of the silt from the existing ditch paving near the leachate containment area

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew__2__, Top soil Crew __1__, Subgrade Crew___, Crush-crete Crew___, Excavation Crew __1__, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* **Unit 1 - Existing Pipe and Electrical** - B Williams, J Purvis, S McCallister and R Austin reviewed the existing pipe located at Structure S-99 at the SE corner of the Leachate Containment Area and whether this pipe and associated rip rap headwall should be removed S McCallister informed B Williams that he would rather leave the pipe because the existing slope is stabilized and removing the pipe will steepen the slope above the structure S McCallister added that the pipe and rip rap headwall does not look bad and J Purvis added TRLF may construct some landscaping in this vicinity in the future S McCallister also stated that by not removing the pipe and headwall the existing electrical and alarm cable can remain in place B Williams took note of the comment and informed R Austin that the pipe could remain in place

* **Settlement of Terrace 1** - R B Baker had their surveyor, Bradshaw Surveyors, check the settlement on Terraces 1 through 4 on the east side of the landfill In order to accelerate the adjusting of the design grades for top soil (due to settlement), R B Baker concentrated on providing ETM with the survey information on Terrace 1 first Bradshaw re-staked all the sections and then marked the design top soil grade at the top of the terrace at each section Bradshaw also set the 'adjusted' grade R B Baker is working with (at the top of the terrace at each section) and the two were compared for settlement determinations (NOTE The 'adjusted' grade is the proposed grade R B Baker determined by digging down to the top of initial cover and adding three feet (1' for clay layer + 2' for top soil layer) After taking into account the apparent settlement at the low points (downcomers) and making sure a minimum 1% grade (within the terrace) and the 24" thickness of top soil are maintained, it was determined that the design grades for the first terrace could be lowered 0 30' Upon review with J Clem, B Williams informed R Austin of this situation R Austin was unhappy with this adjustment because in some areas there was settlement as much as 0 96' After reviewing the specific sections which controlled the adjustment, R Austin agreed to the 0 30' adjustment.

* **Unit 1 - Top Soil Testing** - B Williams informed R Austin that the sample of the top soil material (after peat moss supplementation) for Unit 1 met the project specifications for pH (5 0 to 7 0) and organics content (1 5% to 10%)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by Juanita Bader Clem

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 7-18-97 Friday
		2 Report Number 89
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 94 Low 73	10 Weather Partly Cloudy - 0 13"	11 Hours on Job 11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Unit 3, Terrace 3 - Underdrain Pipe and Filter Sand** - R B Baker completed the installation of the underdrain pipe including related appurtenances and filter sand in Terrace 3 from Downcomer D-85 to the north, connecting to the previously laid underdrain in the same terrace at Unit 7 R B Baker continued to set grade from the initial cover material up (with a minimum 12" of clay), checking clay thickness every 50' They are using a level and rod to ensure the terrace bottom was excavated (using the template on the backhoe bucket) to the 1% minimum slope R B Baker personnel checked grade every 10' for the 1% slope After the ditch was excavated, B Williams continued to check the thickness of the clay layer to ensure the required 12" of clay was maintained

   Cleanouts were constructed every 100' and after backfilling with filter sand to a depth of 6" over the underdrain pipe, top soil was placed over the pipe to protect the filter sand from contamination during a rain event silt from clay layer on above slope)

2. **Units 1 & 2 - 18" Lateral Side Drains in Terraces 1 and 2** - R B Baker completed construction of the 18" lateral side drains for Downcomer D-24 at Terrace 1 and 2 and at Downcomer D-85 at Terrace 3 The 78° bends were used to construct the 18" side drains from the double/single Wyes up to the centerline of the terrace Approx 16' of pipe was used between the Wye and 78° bend and then approx 5' of pipe was added to the end of the pipe (in the terrace centerline) so the inlet is fifteen feet from the centerline of the downcomer The pipes were then backfilled with clay and after compacting with a vibratory compactor, top soil was placed and the berm over the side drains was rough graded

3 **Units 2 & 3 - Top Soil Layer** -R B Baker completed the placement of top soil material on Unit 3 from Downcomer D-85 towards the north, up to the tie-in with Unit 7 B Williams then walked the clay surface, prior to top soil placement, to inspect the surface for desiccation cracks

   After completing the placement of top soil on Unit 3, R B Baker proceeded to finish grade the top soil from the centerline of Terrace 1 up to and including Unit 2, south of Downcomer D-85 Peat moss was added to the top soil on Unit 2 from Downcomer D-85 to the north (up to the tie-in with Unit 6) and between Downcomers D-24 and D-85

4 **Unit 1 - Top Soil Grading and Sod Placement** - R B Baker completed the finish grading of the top soil layer on Unit 1 including the top of Terrace 1 After as-built survey was completed by Sunshine State Surveyors and all shots were found to be within tolerances (with design grade being lowered 0 30' due to settlement - See Report #88), R B Baker's subcontractor, Florida Carter, began placement of bahia sod on Unit 1 from the tie-in with Unit 5 (at Section 11) towards the south

   Prior to sod placement, Florida Carter distributed fertilizer and Aquasorb B Williams cautioned both R Austin and Florida Carter supervisor, Sue Carter, that all fertilizer must be placed prior to sod placement and all sod squares must be abutting, with no gaps They agreed

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ____, Clay Layer Crew ___, Pipe Crew__2__, Top soil Crew__1__, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew __1__, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew____, Sod Crew __1__, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* **Top Soil Testing** - B Williams informed R Austin that the second sample of the top soil material met the project specifications with a pH of 5 7 and an organics content of 1 5% However, the material did not have peat moss supplemented B Williams informed R Austin that this material is marginal and may require peat moss supplementation with a slight change in the material R Austin noted that he will add peat moss to the top soil to ensure that the organics is at or above the minimum 1 5%

* **Settlement of Terrace 2** - After reviewing survey information provided to ETM by Bradshaw Surveyors via R Austin, B Williams informed R Austin that the design grades for the top soil elevations on Terrace 2 could be lowered 0 50' B Williams reviewed the grades with J Clem and found an apparent consistent settlement in the terrace, and in order to maintain the minimum 1% slope and 24" top soil thickness, the grades could only be lowered 0 50' R Austin agreed to adjust the grades

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor

18 Reviewed by Juanita Baden Clem

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 7-19-97 Saturday
		2 Report Number 90
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 94 Low 73	10 Weather Partly Cloudy - 0 13"	11 Hours on Job 7 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Units 2 & 3 - Top Soil Layer** - R B Baker plowed the peat moss into the top soil on Unit 2 and continued to grade this unit

2. **Unit 1 - Top Soil Grading and Sod Placement** - R B Baker completed the finish grading of the top soil layer on Unit 1 from Downcomer D-24 to the southern limits of the unit Florida Carter continued to place fertilizer and bahia sod squares on Unit 1 from approx. STA. 93+10N to the south R Austin informed B Williams that the sod will be placed to within 6-7' of the top of Terrace 1 until the final grading within the centerline of Terrace 1 is complete

R Austin asked B Williams how far as-builts have been taken on Unit 1 B Williams informed R Austin that as-built shots are only needed on Section 4 (15' north and south of section and at anchor berm), Section 3 (top of Terrace 1 and anchor berm) and Section 2 (top of Terrace 1 and anchor berm) R Austin noted that he will allow Florida Carter to lay sod on the finished graded areas all the way to Section 2 B Williams warned R Austin that R B Baker is laying sod at their own risk because the as-built shots have not been taken R Austin agreed NOTE As-builts for the sections mentioned above are scheduled for Monday afternoon

3. **Unit 2 - Terrace 3** - A backhoe was used to excavate the centerline of the terrace in order to grade the initial cover for clay layer placement

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon _1_, Fuel Truck_1_, Other_____

CREWS: Intermediate Layer Crew __½__, Clay Layer Crew ___, Pipe Crew___, Top soil Crew __2__, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14 Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

90-JL19 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 7-20-97 Sunday
		2 Report Number 91
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5. Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature Unknown High Low	10 Weather Unknown	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No Work Observed

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ____, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14 Tests Performed

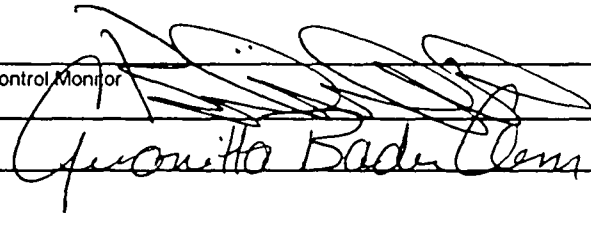
15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor

18 Reviewed by



GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 7-21-97 Monday
		2 Report Number 92
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 94 Low 73	10 Weather Partly Cloudy	11 Hours on Job 11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Units 2 & 3 - Top Soil Layer** - R B Baker completed plowing in the peat moss into the top soil on Unit 2 from the tie-in with Unit 6 to Downcomer D-24 and continued to grade this unit Dozers were used to finish grade the centerline of Terrace 1 and the top of Terrace 2 R B Baker prepared the slope (Unit 2) between these two locations for the as-built survey This afternoon, Sunshine State Surveyors completed the as-built survey of the centerline of Terrace 1 and the top of Terrace 2 from Downcomer D-85 to the north tie-in with Unit 6 All grades were within tolerances (with an adjustment throughout the second terrace of -0 50') and all thickness checks met the minimum 24" of top soil thickness on Unit 2 NOTE The southern limit of Units 1 and 2 are being terminated 20' north of Section 2, due to the existing landfill slope at this location

   After reworking the clay layer on Unit 2, south of Downcomer D-24, top soil was placed on this slope from the downcomer to the southern limits of the unit (approx 15') B Williams walked the clay layer prior to top soil placement to inspect for desiccation cracks A sheepsfoot roller was used to compact the clay, prior to top soil placement

2. **Unit 1 - Sodding** - Florida Carter had a small crew today and they worked on filling gaps in the previously laid sod and completing the minor sodding around the vault boxes on Unit 1

3 **Unit 2/Terrace 2 - Underdrain Pipe and Filter Sand** - R B Baker completed the installation of the underdrain pipe including related appurtenances and filter sand in Terrace 2 from Downcomer D-24 to the north up to and including to the previously laid underdrain pipe at Downcomer D-85 R B Baker continued to set grade from the initial cover material up (with a minimum 12" of clay), checking clay thickness every 50' They are using a level and rod to ensure the terrace bottom was excavated (using the template on the backhoe bucket) to the required 1% minimum slope R B Baker personnel checked grade every 10' for the 1% slope After the ditch was excavated, B Williams continued to check the thickness of the clay layer to ensure the required 12" of clay was maintained

4 **Units 12, 13 and 14 - Tie-in** - A backhoe was used to clean the tie-in along Units 9, 10 and 11 and to uncover the existing anchor berm at the base of Unit 12

5 **Unit 3/Terrace 3 - Clay Layer** - After grading the backslope of Terrace 3 from Section 5 toward the south, R B Baker began placing the clay layer in this section from the top of terrace to the centerline of the terrace

13 Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew __1__, Pipe Crew__1__, Top Soil Crew __2__, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew __1__, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor

18 Reviewed by

92 JL21 FNL

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 7-22-97 Tuesday
		2 Report Number 93
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 94 Low 78	10 Weather Partly Cloudy - 0 40" late in afternoon	11 Hours on Job 11

12 JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Units 2 & 3 - Top Soil Layer** - Baker continued to grade the top soil layer on Unit 2 from Downcomer D-85 towards the south, past Downcomer D-24 Sunshine State Surveyors completed the as-built survey of the centerline of Terrace 1 and the top of Terrace 2 from Downcomer D-85 to Downcomer D-24 All grades met the tolerances (with an adjustment on the second terrace of -0 50') and all thickness checks revealed the minimum 24" of top soil on Unit 2 NOTE The southern limit of Units 1 and 2 are being terminated 20' north of Section 2, due to the existing conditions of the landfill slope at this location

2. **Units 1 & 2 - Sodding** - Florida Carter arrived on site with a full crew and began placing bahia sod squares on Terrace 1 and Unit 2 (up to but not including Terrace 2) from the tie-in with Unit 6 towards the south Fertilizer and Aquasorb were distributed at the required rate of 850 pounds per acre, prior to sod placement

3 **Unit 3/Terrace 3 - Underdrain Pipe and Filter Sand** - Baker completed the installation of the underdrain pipe including related appurtenances and filter sand in Terrace 3 from Downcomer D-85 to the south (approx 30') and to the north up to the tie-in with the previously laid underdrain pipe at Unit 7 Baker also installed the last 18" lateral side drain at Terrace 3 and compacted clay around both the 6" underdrain pipe and lateral side drain Baker continued to set grade from the initial cover material up (with a minimum 12" of clay), checking clay thickness every 50' They are using a level and rod to ensure the terrace bottom was excavated (using the template on the backhoe bucket) to the required 1% minimum slope Baker personnel checked grade every 10' for the 1% slope After the ditch was excavated, B Williams continued to check the thickness of the clay layer to ensure the required 12' of clay was maintained

Baker then backfilled the underdrain pipe and filter sand with top soil material to protect the system in case of a rain event

5 **Unit 3/Terrace 3 - Clay Layer** - Baker continued to place and compact the clay layer on the backslope of Terrace 3 from Section 5, up to Downcomer D-24

6 **Units 12, 13 and 14 - Initial Cover and Downcomer D-13** - Baker began finish grading of the initial cover material on these units After reworking the clay in the proposed Downcomer D-13 location, Baker used a sheepsfoot and smooth drum roller to recompact the clay for density testing and permeability sampling

13 Work Force

EQUIPMENT. Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew __1__, Clay Layer Crew __2__, Pipe Crew__1__, Top Soil Crew__1__, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew __1__, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14 Tests Performed

- **Downcomer D-13** - Density tests, thickness checks and sampling of Permeability P-50 (first lift) and P-51 (second lift) of the clay layers under the proposed downcomer

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

- See minutes of today's Construction Progress Meeting
- **Terrace 3 and 4 (East Side of Landfill) - Adjusted Design Elevations** - At 9 45 AM, R Austin gave B Williams the difference in elevations from the design (top soil) grade to the adjusted grades for Terraces 3 and 4 These elevations were requested by ETM to determine the amount of settlement on the landfill and the required adjustment of design grade to maintain 24" of top soil and 1% slope throughout the terrace After review by B Williams and J Clem, ETM informed R Austin and J McMahan that the design elevations of the top soil for Terrace 3 could be lowered 0 75' and for Terrace 4, 1 6' Both agreed with this adjustment
- **Survey Schedule** - R Austin scheduled as-builts for tomorrow morning at approx 2 15 PM today After consulting with Tom Smith of Sunshine State Surveyors, B Williams informed R Austin that surveyors were unavailable tomorrow afternoon (NOTE Less than 24 hours notice was given for this survey request)
- **Underdrain Construction at D-85 (Terrace 4)** - Upon review by ETM and TRLF, it was agreed that the underdrain construction at this location would be stubbed out at the centerline of the proposed fourth terrace centerline and then plugged No underdrain construction will be required along the centerline of the fourth terrace in the vicinity of Downcomer D-85 Also, the Compactor Access Road will be constructed to the top of the fourth terrace and then tied into the existing top of the landfill for operational access

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

93 JL22 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 7-23-97 Wednesday
		2 Report Number 94
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 94 Low 78	10 Weather Partly Cloudy	11 Hours on Job 11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Unit 3 - Top Soil Layer** - Baker worked on grading the top soil layer on Unit 3 between Sections 11 and 12 Due to last night's rainfall, work on the top soil was limited

2 **Unit 2 - Sodding** - Florida Carter completed bahia sod placement on Unit 2 from the north tie-in with Unit 6 to Downcomer D-85 Due to heavy rains at the sod fields, Florida Carter was only able to get three truckloads of sod today and will not be able to get any loads tomorrow

3 **Units 12, 13 and 14 - Initial Cover and Downcomer D-13** - Baker began finish grading the initial cover on these units After reworking the clay in the proposed Downcomer D-13 location, Baker used a sheepsfoot and smooth drum roller to recompact the clay for density testing and permeability sampling

Sunshine State Surveyors completed the as-built survey on Unit 14 from the tie-in with the existing closure to Section 15 B Williams reviewed all as-built shots and found them to be within tolerances As per R Austin, areas that were low (outside of the 0 20' tolerance) will be made up in clay thickness

4 **Units 15, 16 and 17 - Initial Cover** - Baker assisted TRLF in rough grading the initial cover on these units from the haul road location towards the west

5 **Downcomer Piping** - The pipe crew completed the installation of underdrain and lateral side drain piping at Terrace 3 at Downcomer D-85, including building up of the clay backslope as per the design plans (Sheet 18) All bolts were installed on the blind flange of the 30" downcomer pipe The pipe crew also completed the installation of the underdrain piping at Terrace 4 at Downcomer D-85 This underdrain pipe was constructed up to the centerline of the fourth terrace and then capped The clay was used to backfill over the pipe and was compacted using an impact driven compactor

Baker also completed the compacting of the backfill over the 24' RCP on the west side of the perimeter roadway across the Compactor Access Road

13 Work Force

EQUIPMENT. Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew __1__, Clay Layer Crew __, Pipe Crew__1__, Top Soil Crew__1__Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew __1__, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14 Tests Performed

* 24" RCP - Backfill density over pipe on west side of perimeter road at Compactor Access Road

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* **Grouting Downcomer at S-24** - During the grouting of the 30" HDPE downcomer pipe into Structure S-24A, B Williams observed that there was water at the bottom of the hole and asked how Baker completed the grouting under the pipe on the outside of the structure The pipe foreman noted that they threw a hole bag of cement under the pipe and worked it into the connection B Williams explained that this was unacceptable since the seal on the outside of the structure under the pipe could not be completed due to the high water level B Williams informed R Austin of this situation and Baker proceeded to properly dewater the hole and grout the bottom side of the pipe on the outside of the structure

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94 JL23 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 7-24-97 Thursday
		2 Report Number 95
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 94 Low 78	10 Weather Partly Cloudy - 0 03"	11 Hours on Job 8

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Units 3 and 7 - Top Soil Layer** - Baker continued to grade the top soil layer over Units 3 and 7, specifically working along Terrace 2 at the Unit 7/Unit 6 tie-in Baker was able to get the full 2 5' depth in Terrace 2 at this location (previously, it was believed this terrace would have to be modified to allow a 2 0' depth) Baker then continued to place top soil material as well as grade Units 3 and 8 from the centerline of Terrace 2 to the top of Terrace 3

2 **Units 12, 13 and 14 - Initial Cover and First Lift Clay** - Baker completed the final grading and compaction of the initial cover material on these units Sunshine State Surveyors (SSS) completed the as-built survey on Units 13 and 12 from the tie-in with the existing closure to Section 17, including all anchor berm shots During surveying, it was discovered that the centerline of Terrace 2 was approx 0 30' too high B Williams informed R Austin of this and Baker proceeded to rework these areas with a backhoe and recompacted using a vibratory roller SSS then completed the as-built survey B Williams reviewed all as-built shots and found them to be within the tolerances for grade As per R Austin, areas that were low (outside of the 0 20' tolerance) will be made up in clay thickness

Baker began placement of the first lift of clay material on Units 13 and 14, after survey and density testing Prior to clay placement, all density and thickness checks were completed and found acceptable

3 **Material Hauling** - Baker began importing the crushed concrete material for construction of the Compactor Access Road They are stockpiling the material in the old liner lay-down area

13 Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew _1_, Clay Layer Crew __1__, Pipe Crew___, Top Soil Crew __1__, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14 Tests Performed

- **Underdrain Filter Sand** - Took sample UFS-3 for conformance testing
- **Units 12 & 13** - Initial cover thickness checks and density testing

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor

18 Reviewed by Juanita Baden Cam

95 JL24 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	2 Report Number
7-25-97 Friday	96

3 ET&M No	4 Short Title - Trail Ridge Landfill	5 Place
E96-92-4	Incremental Closure	5110 US 301, Baldwin, Florida
6 Contractor	7 Superintendent	8 Quality Control Monitor
R B. Baker Construction, Inc.	Richard Austin	Buckley K Williams
9 Temperature	10 Weather	11 Hours on Job
High 94 Low 78	Partly Cloudy - 0 01"	12

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Unit 2 - Sodding** - Florida Carter began delivering sod pallets to the job this morning, but did not lay sod on Unit 2 until approx 12 30 PM Sod was placed from Downcomer D-85 south, approx 150' At approx 3 30 PM, Florida Carter's bobcat machine broke an axle and all sodding operations were ceased See remarks

2. **Units 3 and 7 - Top Soil Layer** - Baker completed the grading of the top soil material from the centerline of Terrace 2 to the top of Terrace 3 on these units, from the tie-in with the existing closure (Section 12) to Downcomer D-85 Baker provided a 10'-15' transition from the new closure section, to existing closure section at Section 12, which has settled approx 1 5'-2 0' on Terrace 2 and approx 2 5'-3 0' on Terrace 3

   Sunshine State Surveyors completed the as-built survey of the final cover on Units 2 and 3 and the initial cover on Terrace 3 from Downcomer D-24 to the south B Williams reviewed all survey information and found all shots to be within grade tolerances for the adjusted design final cover grades

   B Williams showed R Austin that there was excess material in a 15' area in the Terrace 2 backslope (north of the 18" downcomer drain pipe at Downcomer D-85) and it looked like a bulge was created in the slope Upon review, R Austin agreed to regrade this area

2 **Units 12, 13 and 14 - First Lift Clay** - Baker completed the first lift of clay on Units 12, 13 and 14 B Williams observed the placement of the clay material, took thickness checks, and conducted density testing Permeability sampling were commensurate with the construction Baker continued to compact the clay using sheepsfoot and smooth drum vibratory rollers Each roller made three passes over the clay with the sheepsfoot roller being used first

   B Williams observed that the clay material appeared to change to a 'fattier' clay with a higher percent fines than the previous clay proctors CL-3 and CL-4 After compaction of the clay with a sheepsfoot and smooth drum roller, B Williams tested the areas for density and found that using the CL-2 proctor (103 6 pcf at 20 8 opt moist), the clay material met the required 90% density After 2 additional passes using the smooth drum vibratory roller, B Williams observed the density did not rise significantly and the top of the clay had begun to break up which indicates that the CL-2 proctor is correct B Williams sampled the clay material for percent fines testing to confirm the change in the material to a CL-2 proctor

   NOTE Baker is using the last of the clay from the stockpile on the east side of the landfill This clay was brought in last in during the stockpiling of clay and top soil materials on the west side of the landfill

3 **Material Hauling** - Baker continued importing the crushed concrete material for construction of the Compactor Access Road They are stockpiling it in the old liner lay-down area

13 Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____
CREWS: Intermediate Layer Crew ___, Clay Layer Crew __2__, Pipe Crew___, Top Soil Crew __1__, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew __1__, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14 Tests Performed

- **Underdrain Filter Sand** - Sampled UFS-3 for conformance testing
- **Units 12, 13 & 14** - First lift clay thickness checks, density testing and permeability sampling

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

- At approx 3 30 PM, Florida Carter was using a Bobcat machine to carry pallets of sod up the side slopes of Units 1 and 2 when it's axle broke, causing it to roll down to the hill The operator did not appear injured but was shaken up R Austin informed J Purvis and Billy Purvis of this situation

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

- **Sodding Operation** - Progress of the sodding operation has been slowed dramatically over the past several days and R Austin has noted his concern over this issue The sod fields have been flooded slowing the delivery of sod, and today's accident further slowed the work Florida Carter personnel left the job site by 4 30 PM, just when Baker was going to use a backhoe to aid in the setting of sod pallets on the landfill (Note the Bobcat did not arrive on site until 12 00 PM and broke by 3 30 PM - See Job Safety above)

  B Williams informed R Austin that the section of sod that the Bobcat was traversing over on Unit 1 (approx 40' north of the Phase IIIA vault box) will have to be replaced because of the damage to the sod R Austin agreed, adding that he has already discussed this with his subcontractor and the sod will be replaced

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor

18 Reviewed by Juanita Baden Cam

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
7-26-97 Saturday	
2 Report Number	
97	

3 ET&M No	4 Short Title - Trail Ridge Landfill	5 Place
E96-92-4	Incremental Closure	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R B. Baker Construction, Inc.	Richard Austin	Buckley K Williams
9 Temperature	10 Weather	11 Hours on Job
High 94 Low 78	Partly Cloudy	4

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Unit 7 - Sodding** - Florida Carter continued to place bahia sod pieces on Units 2, 3 and 7 Baker used a backhoe to aide in the distribution of sod pallets

13. Work Force

EQUIPMENT. Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ____, Pipe Crew____, Top soil Crew _____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew __½__, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

97-JL26 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 7-27-97 Sunday
		2 Report Number 98
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature Unknown High Low	10 Weather 1 06" of rainfall	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No Work Observed

13 Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__1___, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI __, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon _1_, Fuel Truck_1_, Other_____

CREWS. Intermediate Layer Crew ___, Clay Layer Crew ____, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew __, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor

18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 7-28-97 Monday
		2 Report Number 99
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 94 Low 78	10 Weather Partly Cloudy	11 Hours on Job 10

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Sodding** - Florida Carter picked up their broken Bobcat machine and began removing sod from the site (See remarks) No sod was laid today due to the wet conditions on site Baker must redress the eroded areas, prior to sod placement.

2 **Units 2, 3 & 7 - Top Soil Layer** - In the afternoon, Baker began dressing the top soil on the slopes in preparation for sod placement to resume tomorrow See remarks

3. **Units 12, 13 and 14 - Clay Layer** - Due to the wet conditions of the first lift clay, Baker was only able to set grade stakes to aid in the placement of the second lift of clay

4 **Units 15, 16 and 17 - Initial Cover** - Baker began checking grades of the initial cover from Section 18 to Section 21 Baker is assisting TRLF in checking the grades to ensure settlement has not affected the initial cover grades Late in the afternoon, TRLF began adding fill material to the eastern end of Unit 17 to build Terrace 4 to approx 7' east of Downcomer D-10 (Section 20)

R Austin informed B Williams that it appears the grade on the top of Terrace 4 has dropped approx 0 80' R Austin also noted that additional material needs to be placed by TRLF to bring the fourth terrace out approx 7' east of the Downcomer D-10 section R Austin added that he will have his surveyors (Bradshaw) to stake Sections 18 through 21 tomorrow

NOTE TRLF is continuing to add (2'-4') material to Units 18 through 20

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew __½__, Clay Layer Crew __½__, Pipe Crew___, Top soil Crew __½__, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14 Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

* **Safety Concerns** - An employee of Florida Carter injured himself on Saturday, 7-26-97, when the loader he was driving did not have adequate brakes to stop the loader from sliding backwards down the side slope

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

* **Sodding Operation** - R Austin informed B Williams that the sodding operation is not going well for Florida Carter R Austin clarified that late Saturday afternoon, Florida Carter's loader almost flipped down the side slopes of the landfill in the vicinity of Downcomer D-85 and in fact, the loader rolled down the slope and broke the eastern 24" RCP mitered end section at the Compactor Access Road Apparently, the operator was injured and had to be taken off site by Emergency Services J Purvis and Billy Purvis of TRLF expressed their concerns to R Austin regarding the safety of the operators and that a better effort must be made to ensure safe operating conditions on site

  R Austin added that he and Sonny Daniels with Baker, met with Florida Carter representatives to discuss the safety concerns and progress of the work Florida Carter was only able to sod approx 150' of Unit 7 on Saturday R Austin added that Baker has informed Florida Carter that unless they commit their efforts to doing a quality job, Baker will use another sodding company

  B Williams expressed concern to R Austin that the quality of the sod must be maintained and that the sod pallets on site must be laid as soon as possible (to avoid violation of the 72-hour sod rule) R Austin agreed and noted that he has stressed to Florida Carter that they must warrant the sod being laid and if sod needs to be replaced, they will do so at their own cost.

  B Williams reviewed the sod pallets on site and it appeared that the sod was suitable for laying Late this morning, R Austin noted to B Williams that Florida Carter will be removing some of the sod pallets from the site and replacing with new sod Florida Carter should begin laying sod tomorrow morning

* **Eroded Top Soil - 1 06" Rainfall** - B Williams reviewed the previously prepared areas where Baker planned to place sod this week B Williams informed R Austin that the recent rains have eroded the top of Terrace 2 B Williams added that erosion scars must be redressed, prior to sod placement (which is to resume tomorrow) R Austin agreed and added that he will review this area

  B Williams also reminded R Austin of a slight bulge in the backslope of Terrace 2 approx 25' north of the lateral side drain at Downcomer D-85 R Austin agreed that he would review and correct the situation as needed

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 7-29-97 Tuesday
		2 Report Number 100
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor R.B. Baker Construction, Inc.	7 Supenntendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 92 Low 78	10 Weather Partly Cloudy	11 Hours on Job 12

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Sodding** - No sod was placed today due to equipment problems with Florida Carter Their Bobcat machine will not be fixed until tomorrow and R Austin informed B Williams that Baker cannot sacrifice a backhoe to place pallets of sod at this time

2 **Units 15, 16 and 17 - Initial Cover** - Baker continued to grade and compact the initial cover material on these units They are adding material as needed to bring the terraces and side slopes up to design initial cover elevations A smooth drum vibratory roller was used to compact the side slopes and terraces The as-built survey is scheduled for tomorrow morning

After the compaction of the initial material, it was discovered that there was high moisture in the initial cover material The moisture ranged from 16% to 25% in various locations, including the proposed Downcomer D-10 location B Williams informed R Austin that this moisture is preventing Baker from achieving density and they may have to dry the material R Austin agreed but also noted that the material is changing so much and has a lot of clay in it. B Williams concurred but noted that the material is similar to one of the four initial cover proctors and once the moisture is removed, it should achieve the required 90% density

NOTE TRLF is continuing to add (2'-4') material to Units 18 through 20

3. **Downcomer D-10** - Baker used a backhoe to excavate the waste and initial cover material from this proposed downcomer location (Section 20) Baker is excavating a trench approx 12' wide in order to work their new D4 dozer down the hill during clay placement Sheepsfoot and smooth drum vibratory rollers were used to compact the replaced 18" of initial cover material under the proposed downcomer

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew _2__, Clay Layer Crew ___, Pipe Crew___, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew __1__, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

* **Safety Concerns** - After today's meeting, representatives from TRLF, Baker and Florida Carter met to discuss safety concerns regarding the sodding operation, in particular, the equipment used on the side slopes of the landfill, and supervision

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* See minutes of today's Construction Progress Meeting

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	18 Reviewed by

100 JL29 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 7-30-97 Wednesday
		2 Report Number 101
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 92 Low 78	10 Weather Partly Cloudy	11 Hours on Job 11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Unit 7 - Sodding** - Florida Carter resumed placement of bahia sod pieces on this unit from the tie-in with the existing closure (at Section 12) towards the south Florida Carter is using their Bobcat machine to place sod pallets on the side slope This Bobcat had an accident when the rear axle broke while carrying pallets up the side slopes of the landfill

   Florida Carter continued to place fertilizer and Aquasorb on the prepared top soil layer prior to sod placement

2. **Units 15, 16 and 17 - Initial Cover** - Baker continued to grade and compact the initial cover material on these units and added material as needed to bring the terraces and side slopes up to design initial cover elevations A smooth drum vibratory roller was used to compact the side slopes and terraces Sunshine State Surveyors completed the as-built survey on Units 15, 16 and 17 from Section 18 to Section 23 B Williams reviewed all as-built shots and found them to be within tolerances As per R Austin, areas that were low (outside of the 0 20' tolerance) will be made up in clay thickness

   Baker continued to compact the initial cover material on these units in order to achieve density (See remarks)

   NOTE TRLF is continuing to add (2'-4') material to Units 18 through 20

3. **Units 12, 13 & 14 - Clay Layer** - Due to the compaction problems on Units 15-17, Baker switched its operations to placing the second lift of clay on these units They are compacting using both the sheepsfoot and smooth drum vibratory rollers Prior to the placement of the second lift of clay, the first lift of clay was scarified using a D6 dozer

4 **Downcomer D-24 - Rip Rap Construction** - Baker began construction of the rip rap around the 18" lateral terrace side drains on Terrace 1 The rip rap was constructed in accordance with the construction plans including the 3' turndown from the end of the 18" HDPE pipe

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader__1__, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew __1__, Clay Layer Crew __1__, Pipe Crew___, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew __1__, Seed & Mulch Crew ___, Gas Well Crew ___, Other __Rip rap crew_____

14. Tests Performed

* **Units 15, 16 and 17** - Density testing and thickness checks of the initial cover material in various areas Sampled material for proctor/check point testing

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* **Units 15, 16 and 17 - Density of Initial Cover Material** - Baker is still having difficulties achieving the required 90% density on the initial cover layer on these Units In the early morning, Baker ripped open a section of Unit 17 (using a D4 dozer blade) that had approx. 20% moisture and let it dry out Later in the afternoon, after approx 4-5 hours drying time, Baker laid the material back down with a dozer and recompacted it using a smooth drum vibratory roller B Williams then re-checked the density and found the moisture to be in the 18% range and density to be between 82-85% R Austin questioned whether the correct proctor was being used B Williams informed R Austin that the material is similar to the proctor samples Law/ETM are using, although it does appear there is a slight variation in the clay content R Austin agreed noting that it appears the initial cover material has a lot more clay in it than usual B Williams explained to R Austin that even with the slight variation in the material, moisture is too high, thus preventing Baker from achieving density B Williams also noted that he has checked the moisture reading in the nuclear gauge with the speedy moisture test and the results were within 1% for moisture

  B Williams sampled the material where a density test was taken and took it into the lab to perform a 'check point' test to see if the material matches the proctor curves being used for this area B Williams informed R Austin that if necessary, another proctor will be performed but at this time it appears that there is too much moisture in the soil

  R Austin is very concerned because all of Units 15, 16 and 17 have been compacted, graded and as-built and the density has not been achieved Therefore, he cannot place clay Baker is running out of production work

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	2 Report Number
7-31-97 Thursday	102

3 ET&M No	4 Short Title - Trail Ridge Landfill	5 Place
E96-92-4	Incremental Closure	5110 US 301, Baldwin, Florida
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Buckley K Williams
9 Temperature High 92 Low 78	10 Weather Partly Cloudy- PM rains - 1 05"+	11 Hours on Job 7 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Unit 7 - Sodding** - Florida Carter continued placement of bahia sod pieces on this unit from the tie-in with the existing closure (at Section 12) towards Downcomer D-85 Florida Carter used their Bobcat machine to place pallets on the side slopes Florida Carter continued to place fertilizer and Aquasorb on the prepared top soil cover

   Rains hit the project at approx 1 30PM, which shut down all sodding operations

2. **Units 15, 16 and 17 - Initial Cover** -While waiting for the check point result on the initial cover material (sampled yesterday), Baker attempted to dry out the initial cover, using dozer tracks and discing hairs (but not the blade of a dozer as was done yesterday) See remarks Rains prevented Baker from attempting to further dry out or compact the initial cover material

3. **Units 12, 13 & 14 - Clay Layer** - Baker completed the placement of the second lift of clay on these units and compacted the clay using the sheepsfoot and smooth drum vibratory rollers Prior to the placement of the second lift of clay, the first lift of clay was scarified using a D6 dozer B Williams tested the clay for density, obtained permeability samples, and conducted thickness checks

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew __½__, Clay Layer Crew __1__, Pipe Crew___, Top soil Crew __½__, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ___, Sod Crew __½__, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14. Tests Performed

* **Units 15, 16 and 17** - Density testing and thickness checks of the initial cover material in various areas
* **Units 12, 13 and 14** - Thickness checks, density testing and permeability sampling of second lift clay

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* **Units 15, 16 and 17 - Initial Cover** - The preliminary checkpoint result of the material sampled yesterday came out at 119 7 pcf J Teague and B Williams reviewed the material and the density J Teague concurred that the use of the IC-2 proctor (123 0 pcf at 11 7 opt moisture) is matching the soil in question

B Williams explained to R Austin that the moisture of the material is too high and that it appears the material is consistent with the established proctors R Austin replied that he cannot understand why this material is so hard on the top that anything short of a dozer blade will not scarify the material Yet other areas where there is a grey white sandy material (IC-3 120 7 @ 10 6) are not as hard B Williams replied that Baker cannot correlate 'hardness' with density and just because a material is hard on the surface, does not mean the material has the required 90% density R Austin noted that he is frustrated with this issue because if the intent of the compaction is to have a firm stable surface, then he does not know why this material has 82-84% density

B Williams explained that some materials have the ability to bridge at the surface and this may be causing the difficulty of scarifying but still may not have the required 90% density B Williams stated that ETM/Law will work with Baker and in fact, the material sampled yesterday will be tested for a proctor value (the fifth initial cover proctor) B Williams stated that Baker must note that the moisture is the key and with 18-20% moisture, the material will not achieve density R Austin agreed that the material has excess moisture but cannot understand why it is so firm and not 'pumping' B Williams again reminded R Austin that 'hardness' does not necessarily mean density B Williams suggested that in order to eliminate the variables, he may consider the following

1) Soil type/variability - This variable will be answered by the sampling of the soil for proctor testing

2) Compaction Techniques - Baker has been able to get density on the first 7 acres of initial cover using their rolling pattern Baker is using the same compaction techniques on these units

3) Moisture Content - For the first 7 acres of initial cover, the moisture contents were below 14 2% Moisture content is the issue here and Baker must dry the material in order to get density

B Williams agreed with R Austin that the material is hard but does agree that the 90% density has been achieved R Austin stated that he believes the material is stable if he can dry the material to prove it At this time, approx 1 00' of rainfall hit the project

R Austin noted that he is agitated with this situation and has informed Sonny Daniels of Baker Due to the possibility of B Williams being unavailable in the forthcoming week, he reviewed this situation with J Teague, Bryant Wildes and J Horton of Law Engineering

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week 8-1-97 Friday		
2 Report Number 103		
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 85 Low 70	10 Weather Continuing Rainfall - 0 55"	11 Hours on Job 7

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Rain Event** - Approx. 1 60" of rainfall was received on the project site from 1 30 PM yesterday to 10 00 AM this morning B Williams and R Austin reviewed the project site and observed erosion damage at the proposed Downcomer D-10 location, where the initial cover material has washed away The majority of Units 15, 16 and 17 did not appear to have eroded According to R Austin, this is due to the higher fines content and firm, 'stable' surface

2. No work was completed due to continuing rainfall

13 Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon _1_, Fuel Truck_1_, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ____, Pipe Crew____, Top soil Crew _____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14 Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* **Units 15, 16 and 17 - Density of Initial Cover** - R Austin requested that ETM and Law review the possibility of determining 'density' of the initial cover material in another manner than requiring the 90% Modified Proctor density R Austin noted that the material on these units is very firm and stable, to the point that dozer cleats and discing hairs do not work to dry the material out Further, he cannot see why (if the material is stable) clay cannot be placed on it even without the 90% density B Williams replied that the material has too much moisture in it R Austin agreed but noted that for the benefit of the job progress, drying the material may take at least a week and he will soon be out of work R Austin continued that if the material is stable, he would like J Horton to review the situation to see if there is anything that can be done B Williams replied that he would contact J Horton

B Williams reviewed this situation with J Horton and asked that he be present for Tuesday's meeting on August 5, 1997 J Horton said he would review the material in the lab (being tested for Modified Proctor value) and would visit the site on Tuesday

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 8-2-97 Saturday
		2 Report Number 104
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature Unknown High Low	10 Weather 2 16" of rainfall	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No Work Observed

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader____, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ____, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew __, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ___, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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18 Reviewed by Juanitta Bader Conn

104 AG2 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 8-3-97 Sunday
		2 Report Number 105
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature Unknown High Low	10 Weather Unknown	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No Work Observed

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader____, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ____, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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105-AG3 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	8-4-97 Monday
2 Report Number	106

3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 92 Low 72	10 Weather Mostly Sunny	11 Hours on Job 12

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Units 3 and 7 - Final Cover** - Baker resumed dressing the top soil layer on these units in various areas Florida Carter is scheduled to begin sod placement tomorrow Florida Carter continued to receive sod pallets today

2. **Downcomer D-85 - Terrace Drain Repair** - This morning, R Austin informed B Williams that he discovered the terrace drain pipe at Terrace 3 had been damaged by Baker's backhoe He plans to uncover and replace 72° bend and pipe Baker then excavated the pipe and upon inspection, found that the 72° bend and both adaptors were damaged These fittings were then replaced and backfilled with clay

3 **Unit 17 - Initial Cover** - Baker resumed tracking this top slope in preparation for drying the material to attain density A D6 dozer was used to first scarify the surface of the initial cover on Units 16 and 17 and then discing hairs were pulled behind the dozer to further churn the material for drying purposes At the end of the day, the moisture had dropped from 20+% to approx 17-18% R Austin informed B Williams that Baker will seal the initial cover (using the smooth drum roller) to protect from overnight rains and then continue to dry the material tomorrow

After drying most of the day, Baker bladed the matenal back to grade and then recompacted Unit 16, using the smooth drum roller and Unit 17, using both the sheepsfoot and smooth drum roller

B Williams informed R Austin this morning that the last proctor sample taken on this material had a Proctor Value of 120 0 pcf at 13 1% optimum moisture

4 **Downcomer D-85 - Rip Rap** - Baker constructed a portion of the rip rap at the terrace side drains in Terraces 2 and 3 at Downcomer D-85 The rip rap was installed to control erosion and the remaining rip rap will be completed when the crushed concrete road has been constructed

Baker also regraded approx 50' of Terrace 3, just north of the terrace side drain at Downcomer D-85 Weekend rains had silted in a portion of this ditch and the regrading was required to maintain drainage

13. Work Force

EQUIPMENT: Trackhoe_2_, Loader__1__, Dozer_2___, Compactor___, Sheepsfoot Roller_1_, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1_, Fuel Truck_1__, Other_____

CREWS: Intermediate Layer Crew _1__, Clay Layer Crew ___, Pipe Crew___, Top soil Crew ____, Subgrade Crew__, Crush-crete Crew___, Excavation Crew ___, Grading Crew _1_, Dress Crew _1__, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other Rip rap crew

14. Tests Performed

* **Units 12, 13 & 14** - Density testing, thickness checks and sampling of P-56 for permeability testing on second lift of clay
* **Units 15, 16 & 17** - Density testing of initial cover

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* **Weather Impacts** - From Thursday afternoon to this morning, the project site has received approx 3 76" of rainfall This rainfall is impacting Baker's efforts to dry the initial cover material on Units 15, 16 and 17, in order to achieve density
* **Units 16 and 17 - Terraces** - B Williams cautioned R Austin about the silt in the bottom of Terraces 2 and 3 at the bottom of these units B Williams explained that the silt washed in from the weekend rains must be removed and Baker must dress the centerline of the terrace to ensure the correct 2 5' depth is maintained R Austin agreed

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 8-5-97 Tuesday
		2 Report Number 107
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 92 Low 78	10 Weather Mostly Sunny	11 Hours on Job 9 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Units 3 and 7 - Sod Placement** - Florida Carter resumed placement of bahia sod pieces on these units in various areas They are using a Bobcat machine to place pallets on the side slopes of the landfill Fertilizer and Aquasorb were distributed at the minimum rate of 850 pounds per acre and dress work was completed, prior to sod placement. See remarks

2. **Units 15, 16 & 17 - Initial Cover** - After allowing the initial cover material to dry overnight, the moisture content on Units 16 and 17 was found to be 17 5% B Williams informed R Austin that at this moisture content, density is approx 88% and in order to reach the minimum 90% density, moisture will need to be at or below approx 15 5 % R Austin agreed and then Baker proceeded to reopen the material by using the blade of the D6 dozer and then using discing hairs to further churn the material for drying

   Baker recompacted the western 150' section of Unit 15 and the minimum 90% density was achieved

   At the end of the day, the moisture had dropped from 20+% to approx 17-18% R Austin informed B Williams that Baker will seal the initial cover (using the smooth drum roller) to protect from overnight rains and then attempt to dry the material tomorrow

   After drying most of the day, Baker bladed the material back to grade and recompact Unit 16, using the smooth drum roller and Unit 17, using both the sheepsfoot and smooth drum roller

4 **Unit 15 - Anchor Berm** - Baker began (using a backhoe) to uncover the top of the existing anchor berm along the bottom of this unit, working from Section 18 towards the west

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1_, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew _2__, Clay Layer Crew ___, Pipe Crew___, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew __1__, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14 Tests Performed

* **Units 15, 16 & 17** - Density testing of initial cover

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

* See minutes of today's Construction Progress Meeting

* **Units 15, 16 and 17 - Initial Cover** - Prior to today's meeting, B Williams, J Horton and R Austin reviewed the initial cover material on these units, specifically on Unit 17 due to the difficulty of achieving density J Horton noted that it appears the material has a higher fines content than previously encountered on the project J Horton added that he believes the material has a cohesive strength enough to warrant a review of the specifications with regards to testing the initial cover material against a Modified Proctor The difference between the Modified Proctor on this material (120 1 pcf) and Standard Proctor for the clay material used on site with a similar fines content (above 40%) is approx 10 pounds per cubic foot (pcf) J Horton noted that from a soils mechanics standpoint, he could recommend a change but that the final decision would have to be made by ETM B Williams informed J Horton and R Austin that because J Clem and D Miller of ETM were out of town, no decision could be made until 8-11-97, when D Miller returns R Austin agreed and Baker continued to dry the material out

* **Unit 3 - Sod Placement - North of Downcomer D-85** - B Williams cautioned both R Austin, J McMahan and Linda Carter of Florida Carter that some of the sod (which was placed) has been on site for more than 72 hours Baker and Florida Carter are laying this sod at their own risk with regards to the survivability of the sod All parties agreed that the sod would have to be reviewed at the conclusion of the project and replaced, if needed

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 8-6-97 Wednesday
		2 Report Number 108
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor John Teague
9 Temperature High 92 Low 78	10 Weather Partly Cloudy	11 Hours on Job 12

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Units 4 and 8 - Top Soil Layer** - Baker continued to place top soil material on these units, north of Downcomer D-85

2. **Units 16 and 17 - Initial Cover** - Baker continued to dry the initial cover on these units The material was ripped open during the day to lower the moisture content and laid back down at night to protect from possible rains

13. Work Force

EQUIPMENT: Trackhoe_2_, Loader_1_, Dozer_2_, Compactor___, Sheepsfoot Roller_1_, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall____, Pan___, DJB_2_, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon _1_, Fuel Truck_1_, Other_____

CREWS: Intermediate Layer Crew _2_, Clay Layer Crew ___, Pipe Crew___, Topsoil Crew _1_, Subgrade Crew_ __, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___, _Other _____
_____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 8-7-97 Thursday
		2 Report Number 109
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor John Teague
9 Temperature Unknown High Low	10 Weather 1 97"	11 Hours on Job 8

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Rain Impact** - No work was conducted today due to approx 1 97" of rainfall received on the project site R B Baker left the site at 2 00 PM

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader__1__, Dozer__1___, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon __1_, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ____, Pipe Crew____, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 8-8-97 Friday
		2 Report Number 110
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor John Teague
9 Temperature Unknown High Low	10 Weather Unknown	11 Hours on Job 3

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Rain Impact** - Approx 0 15" of rainfall was received on the project site overnight and the Baker was unable to work today due to wet conditions According to R Austin, Baker will resume work on Monday, 8-11-97

13 Work Force

EQUIPMENT: Trackhoe__1__, Loader__1__, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI __, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ____, Pipe Crew___, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew __, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	2 Report Number
8-9-97 Saturday	111

3 ET&M No	4 Short Title - Trail Ridge Landfill	5 Place
E96-92-4	Incremental Closure	5110 US 301, Baldwin, Florida
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	John Teague
9 Temperature Unknown High Low	10 Weather Unknown	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No Work Observed

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader__1__, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck_1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14 Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 8-10-97 Sunday
		2 Report Number 112
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor John Teague
9 Temperature Unknown High Low	10 Weather Unknown	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No Work Observed

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader__1__, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ____, Pipe Crew____, Topsoil Crew _____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew _____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14 Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 8-11-97 Monday
		2 Report Number 113
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor John Teague
9 Temperature Unknown High Low	10 Weather Trace rains	11 Hours on Job 13

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Units 4 & 8 - Top Soil Layer** - Baker continued to place the 24" top soil layer on both of these units, north of Downcomer D-85

2 **Rain Recovery** - Baker repaired washouts from weekend rains including washouts of the initial cover on Units 16 and 17 Baker then regraded and recompacted the initial cover material, in order to achieve density

3. **Downcomer D-10** - After compaction was achieved on the initial cover, the first lift of clay was placed at this downcomer location and compacted Permeability samples (P-57 through 59) were sampled at this downcomer location

4 **Unit 17 - Clay Layer** - Baker began placement of the first lift of clay on this unit, after achieving density on the initial cover material

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1_, Fuel Truck_1__, Other_____

CREWS: Intermediate Layer Crew _1__, Clay Layer Crew __2__, Pipe Crew____, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14. Tests Performed

* Downcomer D-10 - First Lift of Clay - Density test and permeability samples
* Unit 17 - Initial cover density test and thickness check

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 8-12-97 Tuesday
		2 Report Number 114
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor John Teague
9 Temperature Unknown High Low	10 Weather 1 05"	11 Hours on Job 10 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Units 16 and 17 - Clay Layer** - Baker continued to place the first lift of clay on these units

2 **Units 4 and 8 - Sodding** - Florida Carter resumed placement of bahia sod pieces on these units

3 Rains hit the project site at approx 3 30 PM

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew __1__, Clay Layer Crew __2__, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew __1__, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14. Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

* See minutes of today's Construction Progress Meeting

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 8-13-97 Wednesday
		2. Report Number 115
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor John Teague
9 Temperature Unknown High Low	10 Weather 0 01"	11 Hours on Job 12 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Rain Recovery** - Baker spent most of the day recovering from yesterday's rainfall They worked approx ½ the day regrading the top soil on Units 4 and 8 for continued sod placement Baker cleaned terraces in various areas as needed

2 **Downcomer D-85 - Rip Rap Construction** - Due to the wet conditions on site, Baker began construction of the rip rap around the 18" terrace side drains in Terraces 3 and 4

3. **Unit 17 - Clay Layer** - Late in the afternoon, Baker was able to compact the clay layer on this unit for materials testing

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew __1__, Pipe Crew___, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew __1__, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___, Other __Rip rap crew_____

14 Tests Performed

* Unit 17 - Density test and permeability sample on first lift of clay

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 8-14-97 Thursday
		2. Report Number 116
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor John Teague
9 Temperature Unknown High Low	10 Weather N/A	11 Hours on Job 13

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Downcomer D-10** - Baker completed the installation and compaction of the second lift of clay on Units 15,16 and 17 at this downcomer location

2 **Units 4 and 8 - Sodding** - Florida Carter resumed placement of bahia sod pieces on these units

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI __, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew __1__, Pipe Crew___, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew __, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew __1__, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14. Tests Performed

* Downcomer D-10 - Thickness checks, density tests and permeability samples for second lift of clay

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 8-15-97 Friday
		2 Report Number 117
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor John Teague
9 Temperature Unknown High Low	10 Weather Rain in afternoon (approx 1 00")	11 Hours on Job 11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Units 15 and 16 - Initial Cover and Clay Layer** - After compaction of the initial cover material on these units, Baker began placement, grading and compaction of the first lift of clay

2 **Unit 8 - Sodding** - Florida Carter continued placement of bahia sod pieces on this unit

3 Rains hit the project site at approx 1 45 PM

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew __1__, Clay Layer Crew __2__, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew __1__, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14. Tests Performed

- Units 15 and 16 - First Lift of Clay Layer - Density and Permeability Sample

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 8-16-97 Saturday
		2 Report Number 118
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor John Teague
9 Temperature Unknown High Low	10 Weather Unknown	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No Work Observed

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew____, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 8-17-97 Sunday
		2 Report Number 119
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor John Teague
9 Temperature Unknown High Low	10 Weather 2 10" over the weekend	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No Work Observed

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew____, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 te & Day of Week 8-18-97 Monday
		2 Report Number 120
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 94 Low 74	10 Weather Mostly Sunny	11 Hours on Job 12

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Units 4 & 8 - Sod** - Florida Carter worked approximately half the day laying sod on Units 4 and 8 Prior to sod placement, Baker redressed areas as needed due to weekend rains

2. **Downcomer D-13** - R Austin set grade stakes for the excavation of this downcomer and then the pipe crew began excavation from Structure S-13 to Units 12, 13 and 14 Prior to full excavation, Baker found the of the edge of the existing liner and determined whether the liner would interfere with the proposed 30" HDPE downcomer installation (see remarks) It was determined that the edge of the liner would not conflict with the proposed pipe installation and Baker proceeded with the excavation for the downcomer B Williams was present during the excavation in the vicinity of the existing liner

   A Fife Pipe representative arrived on site and began fusion welding straight runs of 30" HDPE pipe onto the prefabricated double wyes

3. **Unit 15 - Second Lift of Clay Layer** - After lunch, Baker began placement of the second lift of clay on Unit 15 from Section 23 towards the east

13 Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew __½___, Pipe Crew__1__, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew __1__, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew __1__, Seed & Mulch Crew ____, Gas Well Crew ___, Other __Fife Pipe_____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

* **Liner Location at Downcomer D-13** - R Austin requested the location of the existing liner in the vicinity of proposed Downcomer D-13 at the anchor berm After reviewing the proposed edge of liner from the first increment of the construction, B Williams informed R Austin that the edge of the liner should be at approx STA 99+36 50N, or 71 08' north of the top of Terrace 2 (STA 98+65 42N) B Williams reminded to R Austin and the pipe foreman the importance of excavating with extreme caution and performing investigations for the liner location, using hand shovels and a small probing rod Both agreed

* **Units 12, 13 and 14 - Grade Adjustments** - R Austin submitted his survey information for Units 12, 13 and 14 to determine the adjustment to design top soil grades due to settlement After reviewing the survey information, B Williams informed R Austin that the adjustments are as follows

Terrace 2	0 40'
Terrace 3	0 80'
Terrace 4	1 0'

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 8-19-97 Tuesday
		2 Report Number 121
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5. Place **5110 US 301, Baldwin, Florida**
6 Contractor **R B Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 94 Low 74	10 Weather AM - Mostly Sunny PM - 1 00"	11 Hours on Job 11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Downcomer D-13** - Baker's pipe crew completed the excavation for the 30" HDPE downcomer pipe across Units 12, 13 and 14 Baker measured the distance between Structure S-13 and the proposed location of the double wye on Terrace 2 and then Fife fusion welded the complete section including the 18 degree bend at the structure It took two trackhoes to carry the 115' segment of pipe (including the double wye section) down the hill and set it in place Baker backfiled and compacted around the 30" pipe using an impact driven compactor

Baker and Fife then welded and set in place the next run of pipe from Terrace 2 to Terrace 3 Stainless steel bolts, nuts and washers were installed and tightened

3 **Unit 15 & 16 - Second Lift of Clay Layer** - Baker continued placing the second lift of clay on Units 15 and 16 from Section 23 towards the east A sheepsfoot roller was used to initially compact the material Prior to placement of the second lift, the first lift of clay was scarified using the discing hairs

After the second lift was placed and compacted, grade stakes were installed to determine the thickness of the clay In most areas, excess clay was trimmed from Unit 15 and loaded into a DJB (using a backhoe) and placed on Units 16 and 17

Approx 1 00" of rainfall hit the project at 3 00 PM and all work was stopped for the remainder of the day

13 Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller ___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew __1__, Pipe Crew__1__, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other __Fife Pipe_____

14 Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* **Downcomer D-13** - B Williams cautioned R Austin to ensure they properly backfill and compact clay under the haunches of the pipe R Austin agreed and added that they will backfill and compact using the jumping jack compactors

* See minutes of today's Construction Progress Meeting

* **Initial Cover Material - Fines Content** - In today's meeting, Doug Miller stated that he had discussed the initial cover material on the west slope with Jim Horton of Law They determined that approx 80% of the material has a fine content above 30% Doug Miller stated that the requirement of density on this material should be tested using the Standard Proctor

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 8-20-97 Wednesday
		2 Report Number 122
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 94 Low 74	10 Weather Mostly Sunny	11 Hours on Job 11 5

12 JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Downcomer D-13 and D-10** - Due to yesterday's rainfall, no pipe could be laid on the slopes of the landfill Fife Pipe welded one joint (40' long) of 30" HDPE pipe onto each of the three double wye sections for the proposed Downcomer D-10 Only one section of pipe (for Unit 14) is remainsfor Downcomer D-13

2. **Unit 15 & 16 - Second Lift of Clay Layer** - Due to yesterday's rainfall, no work could be conducted on these units due to the wet conditions of the in-place clay layer

3 All sodding operations scheduled for today were postponed at least one day due to yesterday's rainfall

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Post-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew__½__, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ____, Gas Well Crew ___, Other __Fife Pipe_____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 8-21-97 Thursday
		2 Report Number 123
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 94 Low 74	10 Weather Mostly Sunny	11 Hours on Job 10

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Downcomer D-13** -Baker and Fife Pipe completed the installation of the last section of 30" HDPE downcomer pipe on Unit 14 After placement of the stainless steel bolts, nuts and washers, Baker began backfilling and compaction along the downcomer pipe using a jumping jack wacker

2. **Downcomer D-10** - Baker completed the excavation for this downcomer pipe including the excavate around Structure S-10 in order to open the knockout section within this structure (to accept the proposed 30" HDPE downcomer pipe)

3. **Unit 15, 16 & 17 - Second Lift of Clay Layer** - Baker resumed the grading and compaction of the second lift of clay on these units Excess clay material was taken from Units 15 and 16 and placed on Unit 17 After compaction using the sheepsfoot and smooth drum rollers the required density tests, thickness checks and permeability samples were taken

4. **Unit 12 - Top Soil Layer** - Late in the day, Baker began placement of the 24" Top Soil Layer r on this unit They are working from the tie-in with Unit 9 towards the west

5. **Units 4 & 8** - Due to wet conditions, no dressing of the top soil material or placement of sod was completed today

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew __1__, Pipe Crew__1__, Topsoil Crew __1__, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _Fife Pipe_____

14. Tests Performed

* Units 15 and 16 - Thickness checks, density tests and sampling of permeabilities P-66 and P-67 for the second lift of clay on these units

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 8-22-97 Friday
		2 Report Number 124
3 ET&M No E96-92-4	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place 5110 US 301, Baldwin, Florida
6 Contractor R.B. Baker Construction, Inc.	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 94 Low 74	10 Weather Mostly Sunny	11 Hours on Job 11

12 JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Downcomer D-10** - Baker and Fife Pipe completed the installation of this downcomer from Structure S-10 up to and including the fourth terrace After the pipe was placed the stainless steel bolts, nuts and washers were installed, Baker backfilled the pipe with clay and compacted using a jumping jack compactor B Williams verified the minimum 12" clay thickness under the proposed 30" downcomer prior to downcome instalation

3 **Unit 17 - Second Lift of Clay Layer** - Late in the afternoon, Baker completed the grading and compaction of the second lift of clay on Unit 17 using a smooth drum roller

4 **Unit 12 - Top Soil Layer** - Baker continued the placement of the 24" Top Soil Layer on this unit They are working from the tie-in with Unit 9 towards the west B Williams verified that a minimum of 1 5' of cover was placed over the installed 30" HDPE Downcomer D-13

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader__1__, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon __1_, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew __1__, Pipe Crew__1__, Topsoil Crew __2__, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___, Other _Fife Pipe_____

14. Tests Performed

- Units 17 - Thickness checks, density tests and sampling of permeability P-68 for the second lift of clay

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

- **Structure S-10** - After review with J Purvis and S McCallister of TRLF, B Williams requested of R Austin that Baker submit a price for cutting a throat in the east side of this structure to accept drainage from the west side of the access road onto the landfill Originally, the roadside swale in this vicinity drained to the east, but since the access road blocks this drainage and will be in place for approximately ten years, TRLF requested that the throat be cut to provide temporary drainage in this area R Austin noted that while his pipe crew is on site, he will cut the throat and handle the change to the contract at a later date B Williams took no exception

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 8-23-97 Saturday
		2 Report Number 125
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 94 Low 74	10 Weather Mostly Sunny	11 Hours on Job 7

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Unit 12/Terrace 2 - Underdrain Pipe and Filter Sand** - Baker's pipe crew began installation of the 6" underdrain pipe and filter sand After placing the 18" x 6" wye and solid underdrain piping, Baker used a laser to guide in excavation of the clay for the underdrain pipe Previously, Baker had shot grade elevations using a level and rod After the laser was set on the required 1% grade, a backhoe (with a special template) was used to excavate the clay in the terrace After excavation and prior to pipe placement, B Williams verified that the minimum 12" of clay was present

   After the entire terrace was excavated and the filter sock and were laid in place, Baker backfilled the pipe with required filter sand (making sure the minimum 6" of sand was placed over the pipe) Baker then covered the filter sand with top soil material to protect against contamination from clay silt from the upper slopes during a potential rain storm

2. **Units 12 and 15 - Top Soil Layer** - Baker continued the placement of the 24" Top Soil Layer on both units from the anchor berm up to the top of Terrace 2 Top soil will not be placed in Terrace 2 until the underdrain construction is complete B Williams verified that the minimum 1 5' of cover was placed over the in place 30" HDPE pipes (Downcomer D-13 and D-10) Baker also supplemented the top soil material on Unit 12 with peat moss and mixed it in place, using a dozer and discing hairs

5. **Units 4 and 8 - Sodding** - Florida Carter resumed placement of bahia sod pieces on these units All eroded areas were dressed (using a dozer or hand rakes) prior to sod placement

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1_, Fuel Truck_1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew_1_, Topsoil Crew__2_, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew __1__, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14. Tests Performed

* Unit 12 - Sampled Top Soil for pH and organics testing

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 8-24-97 Sunday
		2 Report Number 126
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor John Teague
9 Temperature Unknown High Low	10 Weather Unknown	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No work observed

13 Work Force

EQUIPMENT: Trackhoe__1__, Loader__1__, Dozer__1__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew___, Topsoil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

126-AG24 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
8-25-97 Monday	
2 Report Number	
127	

3 ET&M No	4 Short Title - Trail Ridge Landfill	5 Place
E96-92-4	Incremental Closure	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R B. Baker Construction, Inc.	Richard Austin	Buckley K Williams
9 Temperature	10 Weather	11 Hours on Job
High 94 Low 74	Mostly Sunny	11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Unit 12/Terrace 2 - Underdrain Pipe and Filter Sand** - Baker's pipe crew continued installation of the 6" underdrain pipe and filter sand After placing the 18" x 6" wye and solid underdrain piping, Baker used a laser to guide in the excavation of the clay, from Downcomer D-13 towards the west After excavation and prior to pipe placement, B Williams verified that the minimum 12" of clay was present

   After the entire terrace was excavated and the filter sock and clean- out were laid in place, Baker backfilled the pipe with filter sand (making sure the minimum 6" of sand was placed over the pipe) Baker then covered the filter sand with top soil material to protect against contamination from clay silt from the upper slopes during potential rains

   Baker also installed the 18" HDPE lateral side drains on Terrace 2 at Downcomer D-13

2 **Units 12 and 15 - Top Soil Layer** - Baker continued the placement of the 24" Top Soil Layer on both units, from the anchor berm up to the top of Terrace 2 Sunshine State Surveyors as-built the final cover on Unit 12, from the anchor berm shot to the top of Terrace 2 All shots were acceptable, except the anchor berm shots were approx. 0 5'-0 7' high due to existing field conditions and to maintain top soil cover over the existing clay anchor berm

   Top Soil sample taken on Unit 12 met the requirements for pH and organics

13 Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew__1__, Topsoil Crew __2__, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___; Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___; Gas Well Crew ___, Other _____

14. Tests Performed

* Sample UFS-4 taken of the underdrain filter sand material which was imported to the site today

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

127-AG25 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 8-26-97 Tuesday
		2 Report Number 128
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 90 Low 64	10 Weather Mostly Sunny	11 Hours on Job 11

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Unit 15/Terrace 2 - Underdrain Pipe and Filter Sand** - Baker's pipe crew continued installation of the 6" underdrain pipe and filter sand After placing the 18" x 6" wye and solid underdrain piping, Baker used a laser to guide in the excavation of the clay from Downcomer D-10 towards the west After excavation and prior to pipe placement, B Williams verified that the minimum 12" of clay was present

   After the entire terrace was excavated and the filter sock and clean- out were laid in place, Baker backfilled the pipe with filter sand (making sure the minimum 6" of sand was placed over the pipe) Baker then covered the filter sand with top soil material to protect against contamination from clay silt, from the upper slopes during potential rains

2. **Unit 15 - Top Soil Layer** - Baker continued the placement of the 24" top soil layer on this unit from the anchor berm up to the top of Terrace 2 Late in the afternoon, Baker began supplementing the in-place top soil material with peat moss and mixing it in place, using a dozer and discing hairs

3. **Unit 12 - Sodding** - Florida Carter began placement of bahia sod pieces on this unit, from the tie-in with Unit 9 towards the west and from the top of Terrace 2 to within 20' of the roadside swale See remarks

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew__1__, Topsoil Crew __1__, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___; Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___; Maintenance Crew ___, Survey Crew ___; Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew __1___, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14. Tests Performed

* Sample UFS-5 taken of the underdrain filter sand material which was imported to the site today

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

* See minutes of today's Construction Progress Meeting In today's meeting, the gas flares were approved for installation and the level indicators for the Leachate Storage Tanks will be incorporated into a change order

* **Sodding Operation** - B Williams explained to R Austin that according to Florida Carter's site supervision, they have not been placing the required fertilizer on the top soil prior to sod placement R Austin was very disturbed at this and said that he will contact Jim Carter regarding this issue B Williams noted that fertilizer must be placed according to the specifications and even the sod in place must have the fertilizer applied to it R Austin agreed

* **Erosion** - B Williams cautioned R Austin that in several areas there appears to be slight erosion under the in-place sod above the terraces in Units 1-4 B Williams stated that this may become an issue with regards to erosion control and maintenance of the closure section R Austin agreed to look at the areas and get with Florida Carter to repair as needed

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
8-27-97 Wednesday	
2 Report Number	
129	

3 ET&M No	4 Short Title - Trail Ridge Landfill	5 Place
E96-92-4	Incremental Closure	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Supenntendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Buckley K Williams
9 Temperature	10 Weather	11 Hours on Job
High 90 Low 64	Mostly Sunny	11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Unit 15/Terrace 2 - Underdrain Pipe and Filter Sand** - Baker's pipe crew completed the installation of the 6" underdrain pipe and filter sand in terrace 2 on both sides of Downcomer D-10 Baker used a laser to guide in the excavation of the clay from Downcomer D-10 towards the west After excavation and prior to pipe placement, B Williams verified that the minimum 12" of clay was present After the entire terrace was excavated and the filter sock and clean out were laid in place, Baker backfilled the pipe with filter sand (making sure the minimum 6" of sand was placed over the pipe) Baker then covered the filter sand with top soil material to protect against contamination from clay silt from the upper slopes during potential rains

   The pipe crew then completed the installation of the 18" lateral side drains in Terrace 2 at Downcomer D-10 including the clay encasement of the underdrain and terrace piping as well as backfilling with top soil material NOTE The underdrain construction on the east side of the Downcomer D-10 in Terrace 2 consisted of the 18"x6" wye, 6" solid piping, 6" bend and cap Underdrain piping was installed in the terrace, east of Downcomer D-10 due to the limits of the proposed closure in the vicinity of the access road into the landfill

2. **Unit 15 & 16 - Top Soil Layer** - Baker continued the placement of the 24" Top Soil Layer on Unit 15, from the anchor berm up to the top of Terrace 2 Baker completed the grading and mixing of peat moss material in preparation for the as-built survey and sod placement tomorrow Baker then proceeded with placement of top soil material in Terrace 2 and on Unit 16 (See remarks)

3. **Unit 13 - Top Soil Layer** - Baker began the placement and grading of the 24" top soil layer on Unit 13 from Terrace 2 to Terrace 3, Baker also began supplementing the in-place top soil material with peat moss and mixing it using a dozer and discing hairs

4 **Unit 12 - Sodding** - Florida Carter continued placement of bahia sod pieces on this unit, from the tie-in with Unit 9 towards the west and from the top of Terrace 2 to within 20' of the roadside swale Prior to sod placement, fertilizer (20-3-6) was spread at the proper application rate of 650 pounds/acre

13 Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ____, Pipe Crew__1__, Topsoil Crew__3__, Subgrade Crew___; Crush-crete Crew___; Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___; Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew __1__, Seed & Mulch Crew ____; Gas Well Crew ___, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

* **Unit 16 - Clay Layer** - B Williams cautioned R Austin yesterday and today that Baker must rework the surface of the in-place clay layer on this unit prior to top soil placement due to desiccation cracks R Austin agreed and Baker used a D6 dozer to track and backdrag the clay surface, prior to top soil placement B Williams reviewed the clay layer after the rework.

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by Jeanette Baden Cam

129-AG27 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 8-28-97 Thursday
		2 Report Number 130
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 90 Low 64	10 Weather Mostly Sunny	11 Hours on Job 11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Unit 13/Terrace 3 - Underdrain Pipe and Filter Sand** - Baker's pipe crew completed the installation of the 6" underdrain pipe and filter sand in terrace 3 on both sides of Downcomer D-13 Baker used a laser to guide in the excavation of the clay After excavation and prior to pipe placement, B Williams verified that the minimum 12" of clay was present After the entire terrace was excavated and the filter sock and clean- out were laid in place, Baker backfilled the pipe with filter sand (making sure the minimum 6" of sand was placed over the pipe) Baker then covered the filter sand with top soil material to protect against contamination from clay silt from upper slopes during potential rains

2. **Unit 16 - Top Soil Layer** - Baker completed the placement of the 24" top soil layer on Unit 16 from Terrace 2 to 3 Late in the afternoon, Baker began supplementing the in-place top soil material with peat moss and mixing it using a dozer and discing hairs The top soil was sampled for pH and organic content testing

   The top soil material sample taken on Unit 15 met the requirements for pH and organic content

   Sunshine State Surveyors as-built the final cover material on Unit 15 and all survey shots were found to be acceptable

4. **Unit 12 & 15 - Sodding** - Florida Carter completed the majority of bahia sod placement on Unit 12, from the top of Terrace 2 to within 20' of the roadside swale Florida Carter began placing bahia sod pieces on Unit 15, working from Section 18 towards the west and from within 15' of the roadside swale to the top of Terrace 2 Prior to sod placement, fertilizer (20-3-6) was spread by hand (see remarks)

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon __1_, Fuel Truck_1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ____, Pipe Crew__1__, Topsoil Crew__2__, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew __1__, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14. Tests Performed

* Units 13 and 15 - Top Soil samples

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

* **Unit 15 - Fertilizer Application** - B Williams cautioned Florida Carter representatives to make sure they are applying the specified amount of fertilizer Florida Carter's foreman agreed to contact his office and apply the specified amount of fertilizer.

* R Austin left the project site today at noon

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GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
8-29-97 Friday	
2 Report Number	
131	

3 ET&M No	4 Short Title - Trail Ridge Landfill	5 Place
E96-92-4	Incremental Closure	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Buckley K Williams
9 Temperature	10 Weather	11 Hours on Job
High 90 Low 64	Mostly Sunny	8 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Unit 16/Terrace 3 - Underdrain Pipe and Filter Sand** - Baker's pipe crew completed the installation of the 6" underdrain pipe and filter sand in terrace 3 on both sides of Downcomer D-10 Baker used a laser to guide in the excavation of the clay After excavation and prior to pipe placement, B Williams verified that the minimum 12" of clay was present After the entire terrace was excavated and the filter sock and clean- out were laid in place, Baker backfilled the pipe with filter sand (making sure the minimum 6" of sand was placed over the pipe) Baker then covered the filter sand with top soil material to protect against contamination from clay silt from the upper slopes during potential rains

   The pipe crew completed the installation of the 18" lateral side drains in Terrace 3 at Downcomer D-10 including the clay encasement of the underdrain and terrace piping as well as backfilling with top soil material

2. **Unit 16 - Top Soil Layer** - Baker began finish grading of the top soil layer material from Terrace 2 to 3
3. **Unit 15 - Sodding** - Florida Carter completed the majority of bahia sod placement on Unit 15 from the top of Terrace 2 to within 20' of the roadside swale Prior to sod placement, fertilizer (20-3-6) was spread by hand (see remarks)

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ____, Pipe Crew__1__, Topsoil Crew__1__, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___; Liner Crew___,Liner Clean-Off Crew___; Dewatering Crew ____, Sod Crew __1__, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

* **Unit 4, 8 & 15 - Watering of Sod** - R Austin of Baker was not on site today B. Williams informed Superintendent, Carl Martin that it appears the sod being laid on Unit 15 and the previously laid sod on Units 4 and 8, needs to be watered Carl Martin agreed and said that he would discuss this issue with Florida Carter Later, Carl Martin informed B Williams that Florida Carter is aware of this condition and depending on weekend rains, they will water the sod to maintain a stand of grass

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	2 Report Number
8-30-97 Saturday	132

3 ET&M No	4 Short Title - Trail Ridge Landfill	5 Place
E96-92-4	Incremental Closure	5110 US 301, Baldwin, Florida
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B Baker Construction, Inc.	Richard Austin	Buckley K Williams
9 Temperature Unknown High Low	10 Weather Unknown	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Unit 15 - Sodding** - Florida Carter completed the majority of bahia sod placement on Unit 15 from the top of Terrace 2 to within 20' of the roadside swale Prior to sod placement, fertilizer (20-3-6) was spread by hand

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ____, Pipe Crew___, Topsoil Crew____, Subgrade Crew__, Crush-crete Crew___, Excavation Crew ___; Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew __1__, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 8-31-97 Sunday
		2 Report Number 133
3. ET&M No **E96-92-4**	4. Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Supenntendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature Unknown High Low	10 Weather Unknown	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No work observed

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ____, Pipe Crew___, Topsoil Crew___, Subgrade Crew_ __, Crush-crete Crew___; Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatenng Crew ____, Sod Crew ____, Seed & Mulch Crew ____; Gas Well Crew ___, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

17 Signed - Quality Control Monitor

Quonitta Bodenheimer

Original - Retain on Job Site
Copy - File

133-AG31 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 9-1-97 Monday
		2 Report Number 134
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature Unknown High Low	10 Weather Unknown	11 Hours on Job 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No Work Observed - Labor Day

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon __1__, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ____, Pipe Crew___, Topsoil Crew___, Subgrade Crew__, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___; Erosion Control Crew ____, Clean-up Crew ___; Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____; Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

134-SP1 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 9-2-97 Tuesday
		2 Report Number 135
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 90 Low 64	10 Weather Mostly Sunny	11 Hours on Job 12

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Units 18, 19 and 20 - Initial Cover** - Baker continued to grade, excavate and compact the initial cover on these units, from the northwest corner of the project to Downcomer D-5 (See remarks) Baker excavated several loads of excess material from Unit 19

   TRLF continued to place initial cover material on Units 18, 19 and 20, south of Downcomer D-5

2. **Structure S-10** - Baker's pipe crew completed the cutting of a throat in the eastern side of Structure S-10 (in order to maintain drainage on the west side of the access landfill road)

3. **Downcomer D-13** - The pipe crew completed the construction of the 18" HDPE lateral side drains on Terrace 4

4. **Units 13 and 16** - Sunshine State Surveyors as-built of the top soil layer on these units and all shots were found to be acceptable, except for the eastern end of Unit 16 B Williams informed R Austin that Baker has not constructed the top soil layer to Section 19 and this must be as-built at a later date R Austin agreed

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___; Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon __1_, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ____, Pipe Crew__1__, Top soil Crew__1__, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

- See minutes of today's Construction Progress Meeting

- **Units 18-20 - Settlement** - R Austin informed J Clem and B Williams that it appears there may be a problem constructing only a portion of these units due to continual settlement of the landfill R Austin had planned to prepare the initial cover material at the northwest corner of the landfill to Section 27 (a mid section between the high and low in the terrace) and then grade the remainder later, since TRLF is continuing to place and grade initial cover material south of Section 27
  Upon further review by J Clem, B Williams and R Austin, it was agreed that Baker could not build only a portion of these units and must grade the initial cover material from the high point to the low pont at downcomer (D-5) If only a portion was built, the intermittent settlement of the landfill would not allow the required 1% drainage in the terraces R Austin said that he will talk with J Purvis and help TRLF so they do not keep Baker from proceeding

  Later, J Purvis informed B Williams that he had spoken with R Austin regarding this issue and TRLF should be complete with their work (from the northwest corner) to the downcomer by tomorrow morning

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor
	18 Reviewed by

GENERAL QUALITY ONTROL MONITOR'S DAILY REPORT

		ate & Day of Week 9-3-97 Wednesday
		2 Report Number 136
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R B Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K. Williams
9 Temperature High 90 Low 64	10 Weather Mostly Sunny	11 Hours on Job 10

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Unit 13 - Sodding** - Florida Carter began placing bahia sod pieces on this unit from the tie-in with Unit 10 towards Downcomer D-10, from Terrace 2 to Terrace 3 Prior to sod placement, fertilizer was distributed as needed

2. **Units 18-20 - Initial Cover** - R B Baker continued to grade and compact the initial cover material on these units TRLF continued to place additional initial cover material from Downcomer D-5 towards the west

13. Work Force

EQUIPMENT: Trackhoe__2__, Loader__1__, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller ___, Paver____, Pumps ___, Water-wagon _1_, Fuel Truck_1_, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ____, Pipe Crew___, Top soil Crew_1_, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew _1_, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14 Tests Performed

* Units 19 and 20 - Thickness checks and density testing of initial cover layer

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

* **Initial Cover** - Prior to testing of the initial cover on Units 19 and 20, B Williams reviewed the material with bag samples to determine the appropriate Proctor (Standard or Modified)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 9-4-97 Thursday
		2 Report Number 137
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley K Williams
9 Temperature High 90 Low 64	10 Weather Mostly Cloudy - 0 05"	11 Hours on Job 12 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Unit 3 - Clay Layer and Top Soil Layer** - Baker was scheduled to begin placement of the 24" top soil cover on this unit Prior to top soil placement, B Williams and R Austin found that in some areas the thickness of the clay was less than the required 12" The clay thickness ranged from 9" to 13 ½" Baker then proceeded to place, grade and compact additional clay in the areas that were deficient After this work, B Williams reverified the clay thickness and found it to be acceptable

Baker then proceeded with placement of top soil on this unit, working from Downcomer D-85 towards the south

2. **Unit 13 - Sodding** - Florida Carter resumed placing bahia sod pieces on this required unit from Terrace 2 to Terrace 3 A bob cat loader was used to distribute sod pallets from the top of the landfill Fertilizer was distributed prior to sod placement

Florida Carter also began placing in sod pieces on Unit 12 to fill in gaps in the sod and remove overlaid sod

3 Rains hit the project site at approx 1 15 PM

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon ___, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ____, Pipe Crew____, Topsoil Crew__1__, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew _1__, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
9-5-97 Friday	
2 Report Number	
138	

3 ET&M No	4 Short Title - Trail Ridge Landfill	5 Place
E96-92-4	Incremental Closure	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Supenntendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 90 Low 64	Partly Cloudy	12

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Unit 3 - Top Soil Layer** - Baker completed the installation and grading of the top soil material from south of Section S-5 to Section S-4 Rip rap bags were installed around the inlet at Section S-4 (Downcomer D-24)

   Sunshine State Surveyors surveyed this unit and all shots were found to be acceptable All thickness checks revealed the required 24" thickness

2. **Unit 16 - Sodding** - Florida Carter began sodding of this unit from approx Section S-22 to just west of Section S-20

3. **Unit 14 - Top Soil Layer** - Baker began installation of top soil on this unit today

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon ___, Fuel Truck_1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew _____, Pipe Crew___, Topsoil Crew_1__, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew _1___, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 9-6-97 Saturday
		2 Report Number 139
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R B. Baker Construction, Inc.**	7 Supenntendent Richard Austin	8 Quality Control Monitor Ken Bunnell
9 Temperature High 90 Low 64	10 Weather Partly Cloudy	11 Hours on Job 10

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Unit 14 - Top Soil Supplementation** - Baker began supplementing the in-place top soil material with peat moss and mixing it in-place, using discing hairs Top Soil sample VC-10 was taken pH and organics testing

2. **Units 15, 16, 17, 18, 19 and 20 - First Lift of Clay** - Baker began placement of the first lift of clay at the northwest corner of the landfill (at the interface of these six units)

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon ___, Fuel Truck_1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew _____, Pipe Crew___, Topsoil Crew_1__, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew _____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew _1__, Seed & Mulch Crew ____, Gas Well Crew ___, Other

14. Tests Performed

Unit 14 - Samples Top Soi for pH and organics testing

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor
	18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week 9-7-97 Sunday	
2 Report Number 140	
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure
5 Place **5110 US 301, Baldwin, Florida**	
6 Contractor **R.B. Baker Construction, Inc.**	7 Supenntendent Richard Austin
8 Quality Control Monitor Ken Bunnell	
9 Temperature Unknown High Low	10 Weather Unknown
11 Hours on Job 0	

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No work observed

13 Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon ___, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew _____, Pipe Crew___, Topsoil Crew____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

140-SP7 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 9-8-97 Monday
		2 Report Number 141
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7. Superintendent Richard Austin	8 Quality Control Monitor Buckley Williams/Ken Bunnell
9 Temperature High 90 Low 64	10 Weather Partly Cloudy	11 Hours on Job 12

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1. **Units 18, 19 and 20 - First Lift of Clay** - Baker continued to place and compact the first lift of clay on these units from the northwest corner of the landfill towards the south, up to Downcomer D-5 After grading the material with a D6 dozer, a sheepsfoot and smooth drum roller were used to compact the material Permeability samples P69-P71 were taken today

2. **Units 18, 19 and 20 - Initial Cover** - In the afternoon, Baker began grading the initial cover material south of Downcomer D-5

3 **Unit 14 - Top Soil Layer** - Baker performed minor grading of the top soil cover material

4 **Unit 3 - Sodding** - Late in the afternoon, Florida Carter started sod placement on this unit

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller____, Paver____, Pumps ___, Water-wagon ___, Fuel Truck__1__, Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew _____, Pipe Crew___, Topsoil Crew__1__, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew __1__, Seed & Mulch Crew ____, Gas Well Crew ___, Other _____

14. Tests Performed

Units 18-20 - Permeability samples p-69 - p-71 were taken for the first lift of clay

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor
	18 Reviewed by

141 SP8 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 9-9-97 Tuesday
		2 Report Number 142
3 ET&M No **E96-92-4**	4 Short Title - Trail Ridge Landfill Incremental Closure	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R.B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Buckley Williams/Ken Bunnell
9 Temperature High 90 Low 64	10 Weather Partly Cloudy	11 Hours on Job

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Units 18, 19 and 20 - First and Second Lift of Clay** - Baker continued to compact the first lift of clay on these units from the northwest corner of the landfill towards Downcomer D-5 A sheepsfoot and smooth drum roller were used to compact the material

2. **Units 18, 19 and 20 - Initial Cover** - Baker completed the grading and compacting of the initial cover material south of Downcomer D-5 Sunshine State Surveyors surveyed this initial cover material but most grades were found to be above tolerance R Austin was informed and he stated that he would regrade, recompact the areas and then survey the area tomorrow

3 **Downcomer D-5** - Baker excavated the in-place initial cover material and waste for the proposed downcomer A minimum of 12" of initial cover material was placed back and compacted at the proposed downcomer location in preparation for the first lift of clay Density on this material was achieved

4 **Unit 3 - Sodding** - Florida Carter completed the bahia sod placement on this unit

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader____, Dozer__2__, Compactor___, Sheepsfoot Roller__1__, Rubber-Tire Backhoe____, Long-Stick Trackhoe____,Motorgrader___, Track Gradall____, Rubber-Tire Gradall____, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller _1_, Traffic Roller___, Steel Wheel Roller___, Paver____, Pumps ___, Water-wagon ___, Fuel Truck_1__, Other_____

CREWS: Intermediate Layer Crew _1_, Clay Layer Crew __1__, Pipe Crew___, Topsoil Crew___, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___,Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew _1__, Seed & Mulch Crew ____, Gas Well Crew ___; Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

- See minutes of today's Construction Progress Meeting
- **Edge of Liner** - B Williams informed R Austin that the approximate edge of the existing liner in the vicinity of Downcomer D-5 at STA 100+64 5E at elevation 153 5

17 Signed - Quality Control Monitor

Original - Retain on Job Site
Copy - File

142 SP9 DFT

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
9-10-97 Wednesday	
2 Report Number	
143	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R B Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 90 Low 68	Partly Cloudy	12

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Unit 3** - Carter completed sod placement up to Terrace 3, except Sections S-4 and S-5 which are not final graded at this time

2 **Unit 14** - Carter started sod placement on this unit They worked approximately a half day

3 **Units 18, 19, and 20** - Baker placed the first and second lifts of clay at the Downcomer D-5 location Compaction tests, thickness checks and permeability sampling were performed

Baker began placement of the second 6" lift of clay, starting at Section S-22

Sunshine State Surveyors as-built the initial cover on Terraces 2, 3, and 4 from Downcomer D-5 to Section S-24 this afternoon Several locations were not within tolerance and will be reworked The as-builts are rescheduled for tomorrow morning

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader___, Dozer__2___, Compactor__1__, Sheepsfoot Roller__1__, Rubber-Tire Backhoe _____, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ____, Fuel Truck___,
Other_____

CREWS Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew___, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___; Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew __1__, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14 Tests Performed

First Lift of Clay Layer - Remaining compaction, thickness, and permeability tests were taken up to Downcomer D-5 on Units 18, 19, and 20 Permeability sample P-72 was taken

First and Second Lift of Clay at Downcomer D-5 - Compaction, thickness, and Permeabilities P-73 through P-78 were taken

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor Ken Burnett 18 Reviewed by Juanita Bodenhamer

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
9-11-97 Thursday	
2 Report Number	
144	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 88 Low 70	Partly Cloudy	12

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Unit 14** - Carter completed sod placement up to Terrace 4 on this unit

2 **Units 18, 19, and 20** - Sunshine State Surveyors as-built the initial cover from the downcomer at Section S-26 to Section S-24

Baker placed the first 6" lift of clay on the slopes and terraces between Sections S-24 and S-26

Baker began placement of the second 6" lift of clay, starting from Section S-22 working towards Section S-26

13. Work Force

EQUIPMENT. Trackhoe_1_, Loader___, Dozer_2_, Compactor_1_, Sheepsfoot Roller_1_, Rubber-Tire Backhoe _____, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB_2_, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ___, Fuel Truck___,
Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew_½_, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew _1_, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14 Tests Performed

Units 18, 19, and 20 - Compaction tests and thickness checks were taken on initial cover between Sections S-26 and S-24

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor Ken Burnell

18 Reviewed by Jeanette Bader Jones

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
9-12-97 Friday	
2 Report Number	
145	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Supenntendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 91 Low 70	Partly Cloudy	12

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Units 18, 19, and 20 -** Baker completed grading and compaction of the first 6" lift of clay from Section S-26 to S-24 Compaction, thickness and permeability sampling and testing was performed commensurate with construction

Baker continued placement of the second 6" lift of clay and completed the second lift today, including compaction and grading Testing was performed on the second lift including compaction, thickness checks, and permeability sampling

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader___, Dozer__2__, Compactor__1__, Sheepsfoot Roller__1__, Rubber-Tire Backhoe _____, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller __1__, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ___, Fuel Truck___,
Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew___, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ____, Other _____

14 Tests Performed

Units 18, 19, and 20 - Compaction, thickness and permeability sampling - first lift from Section S-24 to S-26
Permeabilities P-79 and P-80 Compaction, thickness and permeability sampling - second lift

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor

18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
9-13-97 Saturday	
2 Report Number	
146	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature UNKNOWN	10 Weather	11 Hours on Job
High Low	Unknown	0

12 JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No Work Observed

13. Work Force

EQUIPMENT. Trackhoe___, Loader___, Dozer___, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe _____, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB____, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ___, Fuel Truck___,
Other_____

CREWS. Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew___, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ___,
Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
9-14-97 Sunday	
2 Report Number	
147	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature UNKNOWN	10 Weather	11 Hours on Job
High Low	Unknown	0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No Work Observed

13. Work Force

EQUIPMENT: Trackhoe___, Loader___, Dozer___, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe _____, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB___, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ___, Fuel Truck___,
Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew____, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor Ken Campbell 18 Reviewed by Juanita Baden Jones

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
9-15-97 Monday	
2 Report Number	
148	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 92 Low 71	Partly Cloudy	11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Unit 18** - Baker placed, mixed, and graded top soil on Unit 18 up to Section S-26 A sample (VC-11) was obtained to test for organics and pH compliance

2 **Rainfall** - A trace of rain with no accumulation was received on site today

3 **Gas Vent Flares** - Baker received the gas flares today

13 Work Force

EQUIPMENT Trackhoe_1_, Loader___, Dozer_2_, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe _____, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB_2_, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ____, Fuel Truck___,
Other_____
CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew___, Top soil Crew _1_, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ____, Other _____

14 Tests Performed

- Vegetative Cover - Sample VC-11 was obtained from Unit 18 for laboratory testing for pH and organic content

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor Ken Bannegg 18 Reviewed by Lucinda Baden

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

		1 Date & Day of Week 9-16-97 Tuesday
		2 Report Number 149
3 ET&M No **E96-92-4**	4 Short Title **TRLF - Incremental Closure**	5 Place **5110 US 301, Baldwin, Florida**
6 Contractor **R B. Baker Construction, Inc.**	7 Superintendent Richard Austin	8 Quality Control Monitor Ken Bunnell
9 Temperature High 92 Low 71	10 Weather Partly Cloudy	11 Hours on Job 11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Unit 18** - Baker completed mixing and grading of the top soil on Unit 18 with the exception of the downcomer D-5 at Section S-26

2 **Unit 17** - Baker began placement of top soil material on this unit and began grading

13. Work Force

EQUIPMENT. Trackhoe 1, Loader___, Dozer 2, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe _____, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB 2, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ____, Fuel Truck___,
Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew___, Top soil Crew 1, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14 Tests Performed

- Vegetative Cover - Sample VC-12 was obtained from Unit 17 for laboratory testing for pH and organics content.
- Thickness checks of the top soil layer on Unit 18 were taken

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
9-17-97 Wednesday	
2 Report Number	
150	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Supenntendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 92 Low 69	Partly Cloudy	12

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Unit 18** - Florida Carter began placement of sod on this unit

2 **Unit 17** - Baker continued grading the top soil and began grading Terrace 4 Rip rap was placed at the downcomer inlets on this unit

13 Work Force

EQUIPMENT: Trackhoe_1_, Loader___, Dozer_2_, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe _____, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB_2_, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ____, Fuel Truck___,
Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew___, Top soil Crew _1_, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ____, Other _____

14 Tests Performed

- Vegetative Cover - Sample VC-12 was obtained from Unit 17 for laboratory testing for pH and organics content

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor Ken Burnett

18 Reviewed by Juanita Bodenhamer

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
9-18-97 Thursday	
2 Report Number	
151	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 90 Low 68	Partly Cloudy	11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Unit 17** - Baker continued grading top soil until Sunshine State Surveyors arrived to take as-builts Section S-20 was low on Terrace 3 on both sides of the downcomer, and on Terrace 4 of the downcomer Thickness checks at each location indicated that the top soil thickness is at least 24" as required

2 **Unit 18** - Florida Carter continued placement of sod on this unit

3 **Unit 20** - The Change Order which allows completion of Unit 20 (between S-24 and S-25) was approved today Baker completed the grading and compaction of the initial cover As-builts were performed and Baker placed the first and second lifts of clay on this area All required testing was performed commensurate with construction

4 **Swale** - Baker graded the swale at the base of the landfill on the north side between Sections S-20 and S-22

13. Work Force

EQUIPMENT: Trackhoe_1_, Loader___, Dozer_2_, Compactor_1_, Sheepsfoot Roller_1_, Rubber-Tire Backhoe _____, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB_2_, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ___, Fuel Truck___,
Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew___, Top soil Crew _1_, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ____, Other _____

14 Tests Performed

- Compaction Test - Unit 20 between Sections S-24 and S-25 on initial cover and both lifts of clay Thickness tests were performed also

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor Ken Bunnell

18 Reviewed by Juanita Baden Cerr

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
9-19-97 Friday	
2 Report Number	
152	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 90 Low 69	Partly Cloudy	11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Unit 18** - Florida Carter continued placing sod on Unit 18 from the top of the swale (at the base of the landfill) to a few feet short of the top Terrace 1

2 **Swales** - Baker continued to grade the swales at the base of the landfill, on the north and west sides

13. Work Force

EQUIPMENT Trackhoe__1__, Loader___, Dozer__2__, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe _____, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ___, Fuel Truck___,
Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew___, Top soil Crew ___, Subgrade Crew___, Crush-crete Crew__, Excavation Crew ___, Grading Crew __1__, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor Ken Barnett

18 Reviewed by Juanita Baden Cam

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
9-20-97 Saturday	
2 Report Number	
153	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature UNKNOWN	10 Weather	11 Hours on Job
High Low	Unknown	0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No Work Observed

13. Work Force

EQUIPMENT: Trackhoe___, Loader___, Dozer___, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe _____, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB____, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ___, Fuel Truck___,
Other_____

CREWS Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew____, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ____, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor

18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
9-21-97 Sunday	
2 Report Number	
154	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Supenntendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature UNKNOWN	10 Weather	11 Hours on Job
High Low	Unknown	0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No Work Observed

13 Work Force

EQUIPMENT Trackhoe___, Loader___, Dozer____, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe _____, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall __, Pan___, DJB____, Posi-Track___, CMI __, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ___, Fuel Truck___,
Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew____, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew __, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew __, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor Ken Bunnell 18 Reviewed by: Juanita Baden Cam

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
9-22-97 Monday	
2 Report Number	
155	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 90 Low 79	Partly Cloudy - 0 12" rain	11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Repairs** - Baker repaired the 2" water main in the roadside swale between Sections S-5 and S-6 An RCP mitered end section on the east side of the perimeter road between Sections S-5 and S-6 was also repaired today

2 **As-Built Surveying** - Sunshine State Surveyors as-built the roadside swales at the toe of the landfill between Sections S-20 and S-26

3 **Roadside Swales** - Baker continued grading of the swales from Section S-13 to Section S-17

4 **Downcomer** - Baker's pipe crew began excavation for Downcomer D-5 Fife Pipe was unable to make it to the site Therefore, no downcomer pipe was installed

13 Work Force

EQUIPMENT: Trackhoe_2_, Loader_1_, Dozer_1_, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe _____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall___, Pan___, DJB_2_, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ____, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ___, Fuel Truck___,
Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew____, Top soil Crew ___, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ___, Maintenance Crew ___, Survey Crew _1_, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ____, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor Ken Bunyard 18 Reviewed by Jeanitta Baden Cox

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
9-23-97 Tuesday	
2 Report Number	
156	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 90 Low 78	Partly Cloudy - 0 15" rain	11 5

12 JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Downcomer** - Baker installed the 30" HDPE Downcomer D-5 at Section S-26 Fife Pipe fusion welded the section of 30" HDPE pipe Baker used stainless steel bolts to connect the flanged sections Clay was placed and compacted around each section

Terrace and underdrains were not installed at this time

2 **Sod Placement** - Florida Carter placed sod in the swales from south of Section S-26 to Section S-24, and from north of Section S-26 around to Section S-24

3 **Roadside Swales** - Baker cleaned out the roadside swales on the east side of the landfill from Section S-1 to S-8

4 **As-Built Surveying** - Sunshine State Surveyors as-built the roadside swales on the north side of the landfill from Section S-13 to Section S-17

13 Work Force

EQUIPMENT: Trackhoe 2, Loader 1, Dozer 1, Compactor ___, Sheepsfoot Roller ___, Rubber-Tire Backhoe ___, Long-Stick Trackhoe ___, Motorgrader ___, Track Gradall ___, Rubber-Tire Gradall ___, Pan ___, DJB 2, Posi-Track ___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller ___, Steel Wheel Roller ___, Paver ___, Pumps ___, Water-wagon ___, Fuel Truck ___,
Other (1) Fuser

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew ___, Top soil Crew ___, Subgrade Crew ___, Crush-crete Crew ___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ___, Clean-up Crew ___, Maintenance Crew ___, Survey Crew 1, Liner Crew ___, Liner Clean-Off Crew ___, Dewatering Crew ___, Sod Crew 1, Seed & Mulch Crew ___, Gas Well Crew ___,
Other (1) Storm Drainage Crew

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc.)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor Ian Burgell 18 Reviewed by Jeanitta Baden Dem

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
9-24-97 Wednesday	
2 Report Number	
157	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 92 Low 78	Partly Cloudy	11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Units 18, 19 and 20** - Baker began installation of the underdrain system The underdrain pipe and sand were installed in Terrace 2 from Section S-26 to S-24 and from Section S-26 to S-29 and then to S-23 Baker graded the clay at the terraces at a minimum 1% slope prior to installation of the underdrain pipe The thickness of the clay layer was checked periodically by K Bunnell Baker began placement of top soil as soon as underdrain was installed

2 **Sod Placement** - Florida Carter placed sod in the roadside swale on the north side of the landfill between Sections S-13 and S-17 They also began sod placement on Unit 17

13 Work Force

EQUIPMENT. Trackhoe_2_, Loader_1_, Dozer_1_, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe _____, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB___, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ____, Fuel Truck___,
Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew___, Top soil Crew _1_, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew _1_, Seed & Mulch Crew ___, Gas Well Crew ___, Other ___Storm Drainage Crew (1)_____

14 Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor Ken Bunnell 18 Reviewed by Jeanette Baden Dan

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
9-25-97 Thursday	
2 Report Number	
158	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 92 Low 78	Partly Cloudy	11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Units 18, 19 and 20** - Baker completed the installation of underdrain on Unit 19, Terrace 2, and began installing the underdrain on Unit 20, Terrace 3 Baker continued placement of top soil on Unit 19

2 **Roadside Swales** - Baker completed regrading of the roadside swales on the east side of the landfill from Section S-3 to Section S-8

3 **Sod Placement** - Florida Carter began placing sod in the roadside swales from Section S-3 to Section S-8, and completed sod placement on Unit 17

4 **Overseed and Fertilizer** - Florida Carter overseeded and fertilized Units 1-4, 7-8, 12-14, 15-17 (up to Section S-21 on Unit 17 and up to Sections S-22 on Unit 16) and 18 as well as the roadside swales Florida Carter did not provide the verification of the application rates which were requested in advance of application

13 Work Force

EQUIPMENT. Trackhoe___, Loader___, Dozer___, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe _____, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB___, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ____, Fuel Truck___,
Other_____

CREWS: Intermediate Layer Crew ___; Clay Layer Crew ___, Pipe Crew___, Top soil Crew ___, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew _1_, Seed & Mulch Crew ___, Gas Well Crew ___, Other Storm Drainage Crew (1)

14. Tests Performed

- **Underdrain Sand Samples** - Samples UF-57 and UF-58 were obtained for testing

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor Ken Buswell 18 Reviewed by Jeanitta Bader Cox

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
9-26-97 Friday	
2 Report Number	
159	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 89 Low 78	Cloudy - 0 60" rainfall	11 5

12 JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Units 19 and 20** - Baker completed installation of the underdrain system on Unit 20, Terrace 3 Baker continued placement of top soil on Units 19 and 20

13 Work Force

EQUIPMENT: Trackhoe_2_, Loader___, Dozer_1_, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe _____, Long-Stick Trackhoe_1_,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB_2_, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ____, Fuel Truck___,
Other_____

CREWS Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew___, Top soil Crew _1_, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ____, Other __Storm Drainage Crew (1)_____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor Ken Bunnell 18 Reviewed by Jeanette Baden Cann

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
9-27-97 Saturday	
2 Report Number	
160	
3 ET&M No	4 Short Title	5 Place
E96-92-4	TRLF - Incremental Closure	5110 US 301, Baldwin, Florida
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 89 Low 74	Cloudy - Rainy	5.0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 Baker's pipe crew was on site today to work on downcomer connections to drainage structures at the base of the landfill Rain hindered progress No other work was performed on site today (Note Rainfall from 7 00 PM Friday until 12 00 noon Saturday was 1 0 inches)

13 Work Force

EQUIPMENT: Trackhoe___, Loader____, Dozer____, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe _____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____, Rubber-Tire Gradall___, Pan___, DJB___, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ____, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ____, Fuel Truck____,
Other_____

CREWS. Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew____, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ____, Other ____Storm Drainage Crew (1)_____

14. Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor Ken Dunnoff

18 Reviewed by Juanita Baden Clem

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
9-28-97 Sunday	
2 Report Number	
161	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Supenntendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature UNKNOWN High Low	10 Weather Unknown	11 Hours on Job 0

12 JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No Work Observed

13 Work Force

EQUIPMENT: Trackhoe___, Loader___, Dozer___, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe _____, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB___, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ___, Pumps ___, Water-wagon ___, Fuel Truck___,
Other_____

CREWS Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew___, Top soil Crew ___, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ___, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___, Liner Clean-Off Crew___; Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
9-29-97 Monday	
2 Report Number	
162	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 88 Low 73	Sunny	11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Units 19 and 20** - Baker repaired minor erosion of the top soil layer and continued placement of top soil on Units 19 and 20 Baker's pipe crew continued installation of the terrace side drains on Terraces 3 and 4

2 **Unit 3** - Baker graded the top soil at Section S-3, Terrace 3

3 Florida Carter supplied verification of fertilizer and seed used during application on 9-25-97 Quantities indicate the specified application rate was used for both seed and fertilizer

4 Baker began pumping water from the stormwater pond Discharge samples were taken and checked against background samples taken from the bridge on Fifeton Rd S Samples were found to be less than 29 NTU's above the background A log will be kept of the sampling (AM and PM) while water is being discharged

13. Work Force

EQUIPMENT: Trackhoe 2, Loader___, Dozer 2, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe _____, Long-Stick Trackhoe 1 ,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB___, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ____, Fuel Truck___,
Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew___, Top soil Crew ___, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ___, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ____, Other (1) Storm Drainage Crew

14 Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor Ken Bunnell

18 Reviewed by Juanita Boden

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
9-30-97 Tuesday	
2 Report Number	
163	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 90 Low 74	Sunny	11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Units 19 and 20** - Baker continued placement and grading of top soil on Units 19 and 20 Baker's pipe crew completed the terrace side drains and downcomer tie-ins at the drainage structures in the swales

2 **Unit 12** - Baker regraded the edge of this unit at Section S-17

3 **Unit 17** - Baker regraded the edge of this unit at Section S-19

4 Baker continued to discharge water from the stormwater pond Samples indicate turbidity is within the tolerance of 29 NTU's above background

5 Additional thickness checks were taken to verify top soil thickness at the following locations

Section S-7 - Centerline Terrace 3	25"
Section S-9 - Anchor Berm	28"
Section S-11 - Centerline Terrace 3	25"
Section S-12 - Berm Terrace 2	24 1/2"

13. Work Force

EQUIPMENT: Trackhoe_2_, Loader___, Dozer_2_, Compactor___, Sheepsfoot Roller__, Rubber-Tire Backhoe _____, Long-Stick Trackhoe_1_,Motorgrader___, Track Gradall___, Rubber-Tire Gradall__, Pan___, DJB_2_, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ___, Fuel Truck___,
Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew____, Top soil Crew _1_, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___; Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew __, Gas Well Crew ___, Other ___(1) Storm Drainage Crew_____

14 Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor Ken Burnsall 18 Reviewed by Jeanette Baden Lum

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
10-1-97 Wednesday	
2 Report Number	
164	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 89 Low 71	Sunny	11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Units 19 and 20** - Baker continued grading of the top soil on Units 19 and 20 Sunshine State Surveyors performed as-builts on Unit 19 Unit 20 is not complete at this time

2 Baker continued to discharge water from the stormwater pond Samples indicate turbidity is within the tolerance of 29 NTU's above background

13. Work Force

EQUIPMENT: Trackhoe__1__, Loader___, Dozer__2__, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe _____, Long-Stick Trackhoe____,Motorgrader____, Track Gradall____; Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ___, Fuel Truck___,
Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew___, Top soil Crew ___, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ____, Other _____

14 Tests Performed

- **Unit 19** - Top soil thickness checks and sample for pH and organics
- **Unit 20** - Top soil thickness checks and sample for pH and organics

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor Ken Burnett 18 Reviewed by Lyonnitta Baden-Dorn

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
10-2-97 Thursday	
2 Report Number	
165	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 89 Low 70	Sunny	11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Units 19 and 20** - Baker continued grading the top soil on Unit 20 Sunshine State Surveyors performed as-builts on Unit 20 from Section S-24 to S-27. Section S-27 to S-28 was not ready at this time Florida Carter completed sod placement in the swales on the east side of the landfill and began sod placement on Unit 19

2 Baker continued to discharge water from the stormwater pond Samples indicate turbidity is within the tolerance of 29 NTU's above background

13. Work Force

EQUIPMENT: Trackhoe_1_, Loader_1_, Dozer_1_, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe _____, Long-Stick Trackhoe_1_,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB_2_, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ____, Fuel Truck____,
Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew___, Top soil Crew ___, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew _1_, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor Ken Burnell 18 Reviewed by Juanita Boden

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
10-3-97 Friday	
2 Report Number	
166	
3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 88 Low 65	Sunny	11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Units 19 and 20** - Baker finished grading the top soil on Unit 20 Sunshine State Surveyors as-built Unit 20 from Section S-27 to S-28 Florida Carter continued sod placement on Unit 19

2 **Compactor Access Road** - Baker began work on the compactor access road today

13. Work Force

EQUIPMENT: Trackhoe_1_, Loader___, Dozer_1_, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe _____, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall__, Pan___, DJB_2_, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ___, Fuel Truck___,
Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew___, Top soil Crew ___, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew __, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew _1__, Seed & Mulch Crew __, Gas Well Crew ___ , Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor

18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
10-4-97 Saturday	
2 Report Number	
167	
3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 88 Low 68	Sunny/Partly Cloudy	9 0

12 JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Compactor Access Road** - Baker completed the subgrade, placed the Marafi geotextile fabric and began placement of the crushed concrete material The first lift (18") was completed to the top of Terrace 2

2 **Unit 19** - Florida Carter continued sod placement on Unit 19

3 **Rainfall** - An occasional light rain fell throughout the day with no accumulation

4 Baker continued to discharge water from the stormwater pond Samples are taken at the beginning and end of the work day Samples indicate turbidity is within the tolerance of 29 NTU's above background

13. Work Force

EQUIPMENT. Trackhoe_1_, Loader___, Dozer_1_, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe _____, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB_2_, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ___, Fuel Truck___,
Other_____

CREWS· Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew___, Top soil Crew ___, Subgrade Crew___, Crush-crete Crew_1_, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___; Dewatering Crew ____, Sod Crew _1___, Seed & Mulch Crew ___, Gas Well Crew ____, Other _____

14 Tests Performed

- **Compactor Access Road** - Subgrade compaction tests 259-262
  Crushed concrete compaction tests 263 and 264

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor

18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
10-5-97 Sunday	
2 Report Number	
168	

3 ET&M No	4 Short Title	5 Place
E96-92-4	TRLF - Incremental Closure	5110 US 301, Baldwin, Florida
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 89 Low 70	Sunny	2

12 JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

Baker continued to discharge stormwater from the stormwater pond Samples were taken to check turbidity which was within discharge limits No other work in progress

13 Work Force

EQUIPMENT: Trackhoe___, Loader___, Dozer___, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe _____, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB___, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ___, Pumps ___, Water-wagon ___, Fuel Truck___,
Other_____

CREWS Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew___, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___; Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14. Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor Ken Bunnell 18 Reviewed by Juanita Baden Cam

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
10-6-97 Monday	
2 Report Number	
169	

3 ET&M No	4 Short Title	5 Place
E96-92-4	TRLE - Incremental Closure	5110 US 301, Baldwin, Florida
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 89 Low 68	Sunny	12 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Compactor Access Road** - Baker completed placement of the crushed concrete on the compactor access road in two 12" lifts

2 Baker continued to discharge water from the stormwater pond Samples were taken to test turbidity which was within the discharge limits

13 Work Force

EQUIPMENT: Trackhoe_1_, Loader___, Dozer__1__, Compactor___, Sheepsfoot Roller___, Rubber-TireBackhoe ___, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB_2_, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ____, Fuel Truck____,
Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew____, Top soil Crew ___, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ____, Other ___(1) Limerock/Crush-Crete Crew_____

14. Tests Performed

- Compactor Access Road - Crushed concrete thickness checks (1st lift) see density sheet for results

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor Ken Burnett 18 Reviewed by Juanita Baden Cem

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
10-7-97 Tuesday	
2 Report Number	
170	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 88 Low 66	Sunny	12 0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Stormwater System** - Baker began work on the stormwater modifications today by removing silt deposits from the north end of the stormwater pond

2 **Units 19 and 20** - Florida Carter continued sod placement on Units 19 and 20

13 Work Force

EQUIPMENT: Trackhoe__1__, Loader___, Dozer__1__, Compactor___, Sheepsfoot Roller___; Rubber-TireBackhoe ___; Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ____, Fuel Truck____,
Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew____, Top soil Crew __1__, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___; Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14. Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor Ken Bunnell 18 Reviewed by Juanita Baden Cox

BLANKRPT FRM

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1. Date & Day of Week	
10-8-97 Wednesday	
2 Report Number	
171	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 89 Low 69	Sunny/Windy	11.0

12 JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Stormwater System** - Baker continued removal of silt deposits from the north end of the stormwater pond

2 **Compactor Access Road** - Florida Carter started sod placement along the compactor access road Baker placed rip rap bags at the terrace on the north side of the compactor access road to direct runoff to the downcomer

3 **Sediment and Erosion Control** - Baker's subcontractor began installation of the silt fence along the limits of construction for sediment and erosion control

4 Baker began discharging water from the stormwater pond at 8 30 AM Samples were taken in the morning and evening to check turbidity The results were within the discharge limits

13 Work Force

EQUIPMENT: Trackhoe_1_, Loader___, Dozer__1__, Compactor___, Sheepsfoot Roller___, Rubber-TireBackhoe ___, Long-Stick Trackhoe_1_,Motorgrader___, Track Gradall___, Rubber-Tire Gradall__, Pan___, DJB_2_, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ____, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ____, Fuel Truck____,
Other_____

CREWS Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew____, Top soil Crew ___, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___; Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew __1__, Seed & Mulch Crew __; Gas Well Crew ____, Other _____

14 Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor Ken Bennett 18 Reviewed by Jeanetta Baden Cann

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1. Date & Day of Week	
10-9-97 Thursday	
2 Report Number	
172	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 89 Low 68	Sunny	11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Stormwater System** - Baker continued removal of silt deposits from the north end of the stormwater pond

2 **Units 19 and 20** - Florida Carter continued sod placement on Units 19 and 20

3 Baker continued to discharge water from the stormwater pond Samples were taken in the morning and evening for turbidity testing and results were within discharge limits

13 Work Force

EQUIPMENT Trackhoe_1_, Loader___, Dozer_1_, Compactor___, Sheepsfoot Roller___, Rubber-TireBackhoe ___, Long-Stick Trackhoe_1_,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB_2_, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps _1_, Water-wagon ____, Fuel Truck____,
Other_____

CREWS· Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew____, Top soil Crew ___, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____; Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew _1_, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14. Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor Ken Bunnell 18 Reviewed by Granville Baden Clerk

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1. Date & Day of Week	
10-10-97 Friday	
2 Report Number	
173	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 89 Low 69	Sunny	10 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Stormwater System** - Baker continued to remove silt deposits from the north end of the stormwater pond

2 **Units 19 and 20** - Florida Carter continued placement of sod on Units 19 and 20

3 Baker continued to discharge water from the stormwater pond and samples were taken for turbidity Results were within discharge limits

13. Work Force

EQUIPMENT: Trackhoe_1_, Loader___, Dozer_1_, Compactor___, Sheepsfoot Roller___, Rubber-TireBackhoe ___, Long-Stick Trackhoe_1_,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB___, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps _1_, Water-wagon ___, Fuel Truck___,
Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew____, Top soil Crew ___, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew _1_, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor Ken Bunnell 18 Reviewed by Quanitta Baden Cross

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
10-11-97 Saturday	
2 Report Number	
174	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 88 Low 69	Sunny/Cloudy	8 0

12 JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Stormwater System** - Baker completed removal of silt deposits from the north end of the stormwater pond and began clean up

2 Baker began grouting the rip rap bags in the terraces

3 Baker continued discharge water from the stormwater pond Samples were taken to test turbidity and results were within discharge limits

4 Light rain with no accumulation

13 Work Force

EQUIPMENT: Trackhoe__1__, Loader___, Dozer__1__, Compactor___, Sheepsfoot Roller___, Rubber-TireBackhoe ___; Long-Stick Trackhoe__1__,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ____, Fuel Truck____,
Other_____

CREWS: Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew____, Top soil Crew ___, Subgrade Crew____, Crush-crete Crew____, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew____, Liner Clean-Off Crew____, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ____,
Other _____(1) Storm Drainage Crew_____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor Ken Bennett

18 Reviewed by Quonitta Baden Penn

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
10-12-97 Sunday	
2 Report Number	
175	

3 ET&M No	4 Short Title	5 Place
E96-92-4	TRLF - Incremental Closure	5110 US 301, Baldwin, Florida
6 Contractor	7 Superintendent	8 Quality Control Monitor
R B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 88 Low 65	Sunny/Cloudy	1 0

12 JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Stormwater Pond** - A visit was made to the project site to check the water discharge from the stormwater pond The pump was not running Therefore, no discharge samples were taken and no work observed

13 Work Force

EQUIPMENT: Trackhoe_1_, Loader___, Dozer__1__, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe ___, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB_2_, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ___, Fuel Truck___,
Other_____

CREWS Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew___, Top soil Crew _1_, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ____, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor Ken Bunnell 18 Reviewed by Juanitta Baden Clem

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
10-13-97 Monday	
2 Report Number	
176	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 89 Low 65	Sunny	11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Stormwater Pond** - Baker graded the slopes on the north end of the stormwater pond Baker continued to discharge water from the stormwater pond Samples continued to be taken both morning and evening to check turbidity The discharge was within allowable limits

2 **Rip Rap** - Baker began grouting the rip rap at the downcomers and around gas wells

3 **Erosion Control** - Baker completed installation of the silt fence for erosion control around new construction on the top of the landfill Baker began cleaning out structures and cross-drains

13 Work Force

EQUIPMENT Trackhoe__1__, Loader___, Dozer__1__, Compactor___, Sheepsfoot Roller___, Rubber-TireBackhoe ___, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB___, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps __1__, Water-wagon ____, Fuel Truck____,
Other_____

CREWS Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew____, Top soil Crew ___, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew __1__, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ____,
Other ___(1) Ditch Rip Rap Crew_____

14. Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor Ken Bunnell 18 Reviewed by Cyronitta Baden Cam

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
10-14-97 Tuesday	
2 Report Number	
177	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 88 Low 63	Sunny	11 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Erosion Control** - Baker began installation of hay bales behind the silt fence on the top of Terrace 4 for erosion control

2 **Structures** - Baker continued cleaning out structures to remove silt from construction

3 **Gas Well Flares** - Baker began installation of the flare flanges on the gas wells and began assembling the gas flares

4 **Sod Placement** - Florida Carter placed sod on the east end of Units 15, 16 and 17

6 **Stormwater Pond** - Baker continued discharge of stormwater from the stormwater pond Samples were taken to check turbidity The discharge was within allowable limits

13 Work Force

EQUIPMENT· Trackhoe_1_, Loader___, Dozer__1__, Compactor___, Sheepsfoot Roller__, Rubber-TireBackhoe ___, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall__, Pan___, DJB___, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ____, Fuel Truck____,
Other_____

CREWS Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew___, Top soil Crew ___, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew __, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew _1__, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew __, Gas Well Crew ___, Other ____(1) Storm Drainage Crew_____

14. Tests Performed

15. Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
10-15-97 Wednesday	
2 Report Number	
178	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 87 Low 68	Sunny/Cloudy/Rain - 0 22"	10 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Erosion Control** - Baker continued installation of hay bales behind the silt fence on the top of Terrace 4

2 **Gas Well Flares** - Baker continued work on flare installation on the gas wells

3 **Compactor Access Road** - Baker excavated a section of the perimeter road to begin construction of the concrete slab for the Compactor Access Road

4 **Sod Placement** - Florida Carter began replacing sod at various locations throughout the project

13 Work Force

EQUIPMENT: Trackhoe__1__, Loader___, Dozer__1__, Compactor___, Sheepsfoot Roller___, Rubber-TireBackhoe ___, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan ___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps __1__, Water-wagon ____, Fuel Truck____,
Other_____

CREWS Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew____, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew __1__, Seed & Mulch Crew ___, Gas Well Crew ____, Other _____

14. Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor 18 Reviewed by

BLANKRPT FRM

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
10-16-97 Thursday	
2 Report Number	
179	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 84 Low 66	Cloudy	10 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Erosion Control** - Baker continued to install hay bales behind silt fence at the top of Terrace 4

2 **Gas Well Flares** - Baker completed installation of gas flares on the new wells (8) except Well W-8 which had a broken ignitor This ignitor must be replaced The remaining 7 well flares were lit mid-afternoon

3 **Compactor Access Road** - Baker's subcontractor, R & E Concrete began forming the concrete pad for the Compactor Access Road

4 **Stormwater Pond** - Baker continued to discharge water from the stormwater retention pond Samples were taken to check turbidity The discharge was within the allowable limits

13 Work Force

EQUIPMENT: Trackhoe___, Loader___, Dozer__1__, Compactor___, Sheepsfoot Roller__, Rubber-TireBackhoe ___, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall__, Pan___, DJB____, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ____, Traffic Roller___, Steel Wheel Roller ____, Paver ____, Pumps __1__, Water-wagon ____, Fuel Truck____,
Other_____

CREWS Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew____, Top soil Crew _1__, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ____,
Other ____(1) Concrete/Headwall Crew, (1) Gas Well Flare Crew_____

14 Tests Performed

- **Compactor Access Road** - Subgrade compaction test for Compactor Access Road concrete pad

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor

18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
10-17-97 Friday	
2 Report Number	
180	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 82 Low 63	Cloudy	10 5

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Stormwater** - Baker finished cleaning structures and cross-drains Baker's subcontractor R & E Concrete began extending the stormwater pond filter bed manifold pipes today Water discharge from the stormwater pond was discontinued this morning due to turbid samples

2 **Sod Placement** - Florida Carter continued replacement and repair of sod areas

13 Work Force

EQUIPMENT Trackhoe___, Loader__1__, Dozer__1__, Compactor___, Sheepsfoot Roller___, Rubber-TireBackhoe ___, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB__2__, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ___, Fuel Truck___,
Other_____

CREWS Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew____, Top soil Crew ___, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew __1__, Seed & Mulch Crew ___, Gas Well Crew ____, Other __(1) Storm Drainage Crew_____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor

18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
10-18-97 Saturday	
2 Report Number	
181	

3 ET&M No	4 Short Title	5 Place
E96-92-4	TRLF - Incremental Closure	5110 US 301, Baldwin, Florida
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 80 Low 68	Cloudy/Rain - 0.06"	0

12 JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No Work Observed

13 Work Force

EQUIPMENT: Trackhoe___, Loader___, Dozer___, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe _____, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB___, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ___, Fuel Truck___,
Other_____

CREWS Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew____, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ____, Other _____

14. Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor Ken Bunnell

18 Reviewed by Juanita Bader Clem

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
10-19-97 Sunday	
2 Report Number	
182	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 78 Low 63	Sunny/Windy	0

12 JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No Work Observed

13 Work Force

EQUIPMENT: Trackhoe___, Loader___, Dozer___, Compactor___, Sheepsfoot Roller___, Rubber-Tire Backhoe _____, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB____, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ___, Fuel Truck___,
Other_____

CREWS Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew____, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ____, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor

18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
10-20-97 Monday	
2 Report Number	
183	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R B. Baker Construction, Inc	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 79 Low 59	Sunny	12 0

12 JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Compactor Access Road** - Baker's subcontractor, R & E Concrete Construction, worked on the concrete pad at the Perimeter Road

13 Work Force

EQUIPMENT Trackhoe___, Loader___, Dozer____, Compactor___, Sheepsfoot Roller___, Rubber-TireBackhoe ___, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB___, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ____, Traffic Roller___, Steel Wheel Roller ____, Paver ____ Pumps ___ Water-wagon ____, Fuel Truck____
Other_____

CREWS Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew____, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ____, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor Ken Burnett

18 Reviewed by Juanita Baden Cons

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
10-21-97 Tuesday	
2 Report Number	
184	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B Baker Construction, Inc	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 80 Low 59	Sunny	11 5

12 JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Compactor Access Road** - Baker's subcontractor, R & E Concrete Construction, installed the reinforcing steel and railroad rails and poured the concrete A 4,000 PSI mix was used Test cylinders were made to verify the concrete strength

2 **Seeding & Overseeding** - Florida Carter hydroseeded around the north end of the stormwater pond They also overseeded and fertilized sections of the closure not completed during the previous application Replacement of stressed sod was completed prior to overseeding Bags and tags were supplied for hydroseeding and overseeding to demonstrate compliance with the specifications

13 Work Force

EQUIPMENT Trackhoe___, Loader___, Dozer____, Compactor___, Sheepsfoot Roller__, Rubber-TireBackhoe ___, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB____, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ____ Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ____, Fuel Truck____,
Other_____

CREWS Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew____, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew _1_, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew _1__, Seed & Mulch Crew __, Gas Well Crew ____, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor

18 Reviewed by

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
10-22-97 Wednesday	
2 Report Number	
185	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Supenntendent	8 Quality Control Monitor
R.B. Baker Construction, Inc	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 79 Low 56	Sunny	11 5

12 JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Stormwater Modifications** - Baker's subcontractor, R & E Concrete Construction, continued work on installation of the manifold extensions Sections of schedule 80 pipe have been pre-drilled on site Perforations are as shown on the contract drawings

2 **Clean-Up** - Baker worked on site clean-up today

13 Work Force

EQUIPMENT Trackhoe___, Loader___, Dozer___, Compactor___, Sheepsfoot Roller___, Rubber-TireBackhoe ___, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan ___, DJB___, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller ___, Paver ____, Pumps ___, Water-wagon ____, Fuel Truck____,
Other_____
CREWS Intermediate Layer Crew ___ Clay Layer Crew ___ Pipe Crew___, Top soil Crew ___, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ____, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16. Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor Ken Burnett 18 Reviewed by Juanitta Baden

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
10-23-97 Thursday	
2 Report Number	
186	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 80 Low 56	Sunny	11 5

12 JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Stormwater Modifications** - Baker's subcontractor, R & E Concrete Construction, completed 95% of the manifold extension today

2 **Compactor Access Road** - Baker installed the bollard posts for the compactor access signs at the top and bottom of the access road Signs have not been attached Forms were removed from the concrete pad at the perimeter road crossing

3 **Clean-Up** - Baker continued site clean-up

13 Work Force

EQUIPMENT Trackhoe___, Loader___, Dozer____, Compactor___, Sheepsfoot Roller__, Rubber-TireBackhoe ___, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall__, Pan___, DJB____, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ____, Traffic Roller___, Steel Wheel Roller ____, Paver ____, Pumps ___, Water-wagon ____ Fuel Truck____,
Other_____

CREWS Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew____, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew __, Gas Well Crew ____, Other _____

14. Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor Ken Bunnell 18 Reviewed by Juanitta Baden

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
10-24-97 Friday	
2 Report Number	
187	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 82 Low 57	Cloudy	10 5

12 JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Stormwater Modifications** - Baker's subcontractor, R & E Concrete Construction, completed the manifold extension today

2 **Compactor Access Road** - Baker reworked the limerock and placed slag around the concrete pad at the Perimeter Road and Compactor Access Road intersection Prior to placement of the slag, Mirafi fabric was placed Baker painted the bollard posts at the top and bottom of the access road Baker installed the marker posts along the access road at 25 foot intervals

3 **Remaining Work** - Bollard signs
Reflective markers
Crushed concrete to edge of concrete
Aluminum baffle in Structure S-85

4 **Rainfall** - A light rain began at 5 00 PM

13 Work Force

EQUIPMENT. Trackhoe____, Loader___, Dozer____, Compactor___, Sheepsfoot Roller___, Rubber-TireBackhoe ___, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB____, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ____, Traffic Roller___, Steel Wheel Roller ____, Paver _____, Pumps ___, Water-wagon ____, Fuel Truck____,
Other_____

CREWS Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew____, Top soil Crew ____, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ____,
Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor Ken Bunnell

18 Reviewed by Juanita Baden Cann

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
10-25-97 Saturday	
2 Report Number	
188	

3 ET&M No	4 Short Title	5 Place
E96-92-4	TRLF - Incremental Closure	5110 US 301, Baldwin, Florida
6 Contractor	7 Superintendent	8 Quality Control Monitor
R B Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 88 Low 70	Sunny/Cloudy	0

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Compactor Access Road** - Baker's subcontractor, Miller Electric, made the electrical repair for the pump station One inch conduit was installed through the two inch sleeve installed across the Compactor Access Road

13 Work Force

EQUIPMENT Trackhoe___, Loader___, Dozer___, Compactor___, Sheepsfoot Roller___, Rubber-TireBackhoe ___, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB___, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller___, Paver ___, Pumps ___ Water-wagon ___, Fuel Truck___,
Other_____

CREWS Intermediate Layer Crew ___, Clay Layer Crew ___ Pipe Crew___ Top soil Crew ___, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ___, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor Ken Burnett 18 Reviewed by Juanita Baker Conn

BLANKRPT FRM

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
10-26-97 Sunday	
2 Report Number	
189	

3 ET&M No	4 Short Title	5 Place
E96-92-4	TRLF - Incremental Closure	5110 US 301, Baldwin, Florida
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 85 Low 66	Cloudy	0

12 JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

No Work Observed

13 Work Force

EQUIPMENT Trackhoe___, Loader___, Dozer___, Compactor___, Sheepsfoot Roller___, Rubber-TireBackhoe ___, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB___, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ____, Traffic Roller___, Steel Wheel Roller ____, Paver ____, Pumps ___, Water-wagon ____, Fuel Truck____,
Other_____

CREWS Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew____, Top soil Crew ___, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ____, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ____, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ____, Sod Crew ____, Seed & Mulch Crew ___, Gas Well Crew ____, Other _____

14 Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site
Copy - File

17 Signed - Quality Control Monitor Ken Bennett

18 Reviewed by Juanita Baden

BLANKRPT FRM

GENERAL QUALITY CONTROL MONITOR'S DAILY REPORT

1 Date & Day of Week	
10-27-97 Monday	
2 Report Number	
190	

3 ET&M No	4 Short Title	5 Place
E96-92-4	**TRLF - Incremental Closure**	**5110 US 301, Baldwin, Florida**
6 Contractor	7 Superintendent	8 Quality Control Monitor
R.B. Baker Construction, Inc.	Richard Austin	Ken Bunnell
9 Temperature	10 Weather	11 Hours on Job
High 75 Low 65	Cloudy/Rain - 4 2"	8

12. JOB SITE OBSERVATION
(Describe Work in Progress Observed by Quality Control Monitor)

1 **Demobilization** - Baker began demobilization from the site

13 Work Force

EQUIPMENT Trackhoe___, Loader___, Dozer___, Compactor___, Sheepsfoot Roller___, Rubber-TireBackhoe ___, Long-Stick Trackhoe___,Motorgrader___, Track Gradall___, Rubber-Tire Gradall___, Pan___, DJB___, Posi-Track___, CMI ___, Mixer ___, Vibratory Roller ___, Traffic Roller___, Steel Wheel Roller___, Paver ___, Pumps ___, Water-wagon ___, Fuel Truck___,
Other_____

CREWS Intermediate Layer Crew ___, Clay Layer Crew ___, Pipe Crew___, Top soil Crew ___, Subgrade Crew___, Crush-crete Crew___, Excavation Crew ___, Grading Crew ___, Dress Crew ___, Concrete Crew ___, Erosion Control Crew ___, Clean-up Crew ___, Maintenance Crew ___, Survey Crew ___, Liner Crew___, Liner Clean-Off Crew___, Dewatering Crew ___, Sod Crew ___, Seed & Mulch Crew ___, Gas Well Crew ___,
Other _____

14. Tests Performed

15 Job Safety (Uncorrected Hazards, Lost Time, Accidents)

16 Remarks (Comments, General Discussions, Field Changes, Deficiencies, etc)

Original - Retain on Job Site Copy - File	17 Signed - Quality Control Monitor Ian Burnell 18 Reviewed by Juanita Baden Cam

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INITIAL COVER

The initial cover consisted of sandy to clayey soil from off-site sources The locations of density testing and thickness measurements of the initial cover layer are shown on the plan included in this section The density test results and thickness measurement results are also included in this section The Field Density Test Reports are included in Appendix A

I have reviewed the documentation and test data of the Quality Control Monitor and based upon that data, find that the construction is substantially in accordance with the Quality Assurance / Quality Control Plan

James A Horton, P E
Registered, FL 23315

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INITIAL COVER DATA SHEET

CLIENT England, Thims & Miller, Inc
PROJECT Trail Ridge Landfill Incremental Closure
PROJECT NO 40562-7-3268

Date	Field Density No	Location Station	Depth or Elevation	Thickness (Inches)	Density (% Compaction)
6/18/97	1A	126+00E @ 89+30N	Top of Finished Initial Cover	17	91
6/18/97	2A	125+40E @ 89+30N	Top of Finished Initial Cover	18	92
6/14/97	3A	124+70E @ 90+00N	Top of Finished Initial Cover	15	91
5/9/97	4C	122+10E @ 95+70N	Top of Finished Initial Cover	13	90
5/12/97	5C	122+20E @ 95+90N	Top of Finished Initial Cover	13	90
5/16/97	6B	122+25E @ 95+35N	Top of Finished Initial Cover	14	93
5/12/97	7A	122+70E @ 94+30N	Top of Finished Initial Cover	13	92
5/9/97	8B	123+00E @ 93+90N	Top of Finished Initial Cover	15	92
5/12/97	9B	123+30E @ 93+80N	Top of Finished Initial Cover	15	91
5/9/97	10A	123+20E @ 93+90N	Top of Finished Initial Cover	15	91
5/16/97	11A	122+40E @ 94+75N	Top of Finished Initial Cover	16	91
5/12/97	12	122+90E @ 94+45N	Top of Finished Initial Cover	15	90
5/16/97	13	122+25E @ 95+50N	Top of Finished Initial Cover	14	90
5/16/97	14	121+90E @ 95+75N	Top of Finished Initial Cover	13	90
5/16/97	15	122+50E @ 95+00N	Top of Finished Initial Cover	13	91
5/20/97	40A	123+65E @ 92+65N	Top of Finished Initial Cover	12	91
5/20/97	41	123+85E @ 94+40N	Top of Finished Initial Cover	14	92
5/20/97	42	124+35E @ 93+25N	Top of Finished Initial Cover	14	95
5/20/97	43	123+15E @ 95+00N	Top of Finished Initial Cover	17	94
5/20/97	44	124+50E @ 94+05N	Top of Finished Initial Cover	16	95
5/20/97	45	123+85E @ 93+60N	Top of Finished Initial Cover	13	90
5/29/97	54A	123+70E @ 92+48N	Top of Finished Initial Cover	12	91
5/29/97	55	124+45E @ 92+48N	Top of Finished Initial Cover	12	90
5/29/97	56	125+30E @ 92+48N	Top of Finished Initial Cover	12	90
5/29/97	57	126+00E @ 92+48N	Top of Finished Initial Cover	12	90
5/31/97	70	126+30E @ 92+48N	Top of Finished Initial Cover	18	90
6/4/97	77	125+35E @ 93+05N	Top of Finished Initial Cover	17	90

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INITIAL COVER DATA SHEET

CLIENT England, Thims & Miller, Inc
PROJECT Trail Ridge Landfill Incremental Closure
PROJECT NO 40562-7-3268

Date	Field Density No	Location Station	Depth or Elevation	Thickness (Inches)	Density (% Compaction)
6/4/97	78	125+40 @ 94+05N	Top of Finished Initial Cover	16	91
6/4/97	79	125+05E @ 94+75N	Top of Finished Initial Cover	18	92
6/4/97	80	124+30E @ 94+90N	Top of Finished Initial Cover	13	91
6/10/97	87	126+10E @ 92+90N	Top of Finished Initial Cover	15	91
6/10/97	88	126+10E @ 94+10N	Top of Finished Initial Cover	15	92
6/10/97	89	125+85E @ 95+65N	Top of Finished Initial Cover	18	93
6/10/97	90	125+00E @ 95+65N	Top of Finished Initial Cover	16	91
6/13/97	93	124+70E @ 88+80N	Top of Finished Initial Cover	17	90
6/13/97	94	125+45E @ 88+80N	Top of Finished Initial Cover	18	90
6/13/97	95	126+15E @ 88+80N	Top of Finished Initial Cover	16	90
6/14/97	97	124+65E @ 91+50N	Top of Finished Initial Cover	16	90
6/14/97	98	124+60E @ 89+50N	Top of Finished Initial Cover	16	90
6/18/97	113	125+35E @ 91+55N	Top of Finished Initial Cover	12	91
6/18/97	114	126+10E @ 91+90N	Top of Finished Initial Cover	17	91
6/18/97	115	126+05E @ 90+35N	Top of Finished Initial Cover	16	90
6/18/97	116	125+30E @ 90+45N	Top of Finished Initial Cover	18	90
6/26/97	135	126+05E @ 88+05N	Top of Finished Initial Cover	16	90
6/26/97	136	125+40E @ 88+10N	Top of Finished Initial Cover	16	90
6/26/97	137	111+63E @ 97+50N	Top of Finished Initial Cover	13	90
6/27/97	138B	111+63E @ 98+30N	Top of Finished Initial Cover	14	90
6/26/97	139	111+63E @ 99+10N	Top of Finished Initial Cover	13	90
7/15/97	149	112+50E @ 97+50N	Top of Finished Initial Cover	18+	90
7/15/97	150	111+20E @ 97+45N	Top of Finished Initial Cover	18+	92
7/15/97	151	112+85E @ 98+20N	Top of Finished Initial Cover	18+	90
7/15/97	152	111+90E @ 98+25N	Top of Finished Initial Cover	18+	91
7/24/97	153A	110+85E @ 98+25N	Top of Finished Initial Cover	16	91
7/24/97	154A	112+70E @ 99+10N	Top of Finished Initial Cover	17	91

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INITIAL COVER DATA SHEET

CLIENT England, Thims & Miller, Inc
PROJECT Trail Ridge Landfill Incremental Closure
PROJECT NO 40562-7-3268

Date	Field Density No	Location Station	Depth or Elevation	Thickness (Inches)	Density (% Compaction)
6/18/97	1A	126+00E @ 89+30N	Top of Finished Initial Cover	17	91
6/18/97	2A	125+40E @ 89+30N	Top of Finished Initial Cover	18	92
6/14/97	3A	124+70E @ 90+00N	Top of Finished Initial Cover	15	91
5/9/97	4C	122+10E @ 95+70N	Top of Finished Initial Cover	13	90
5/12/97	5C	122+20E @ 95+90N	Top of Finished Initial Cover	13	90
5/16/97	6B	122+25E @ 95+35N	Top of Finished Initial Cover	14	93
5/12/97	7A	122+70E @ 94+30N	Top of Finished Initial Cover	13	92
5/9/97	8B	123+00E @ 93+90N	Top of Finished Initial Cover	15	92
5/12/97	9B	123+30E @ 93+80N	Top of Finished Initial Cover	15	91
5/9/97	10A	123+20E @ 93+90N	Top of Finished Initial Cover	15	91
5/16/97	11A	122+40E @ 94+75N	Top of Finished Initial Cover	16	91
5/12/97	12	122+90E @ 94+45N	Top of Finished Initial Cover	15	90
5/16/97	13	122+25E @ 95+50N	Top of Finished Initial Cover	14	90
5/16/97	14	121+90E @ 95+75N	Top of Finished Initial Cover	13	90
5/16/97	15	122+50E @ 95+00N	Top of Finished Initial Cover	13	91
5/20/97	40A	123+65E @ 92+65N	Top of Finished Initial Cover	12	91
5/20/97	41	123+85E @ 94+40N	Top of Finished Initial Cover	14	92
5/20/97	42	124+35E @ 93+25N	Top of Finished Initial Cover	14	95
5/20/97	43	123+15E @ 95+00N	Top of Finished Initial Cover	17	94
5/20/97	44	124+50E @ 94+05N	Top of Finished Initial Cover	16	95
5/20/97	45	123+85E @ 93+60N	Top of Finished Initial Cover	13	90
5/29/97	54A	123+70E @ 92+48N	Top of Finished Initial Cover	12	91
5/29/97	55	124+45E @ 92+48N	Top of Finished Initial Cover	12	90
5/29/97	56	125+30E @ 92+48N	Top of Finished Initial Cover	12	90
5/29/97	57	126+00E @ 92+48N	Top of Finished Initial Cover	12	90
5/31/97	70	126+30E @ 92+48N	Top of Finished Initial Cover	18	90
6/4/97	77	125+35E @ 93+05N	Top of Finished Initial Cover	17	90

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INITIAL COVER DATA SHEET

CLIENT England, Thims & Miller, Inc
PROJECT Trail Ridge Landfill Incremental Closure
PROJECT NO 40562-7-3268

Date	Field Density No	Location Station	Depth or Elevation	Thickness (Inches)	Density (% Compaction)
6/4/97	78	125+40 @ 94+05N	Top of Finished Initial Cover	16	91
6/4/97	79	125+05E @ 94+75N	Top of Finished Initial Cover	18	92
6/4/97	80	124+30E @ 94+90N	Top of Finished Initial Cover	13	91
6/10/97	87	126+10E @ 92+90N	Top of Finished Initial Cover	15	91
6/10/97	88	126+10E @ 94+10N	Top of Finished Initial Cover	15	92
6/10/97	89	125+85E @ 95+65N	Top of Finished Initial Cover	18	93
6/10/97	90	125+00E @ 95+65N	Top of Finished Initial Cover	16	91
6/13/97	93	124+70E @ 88+80N	Top of Finished Initial Cover	17	90
6/13/97	94	125+45E @ 88+80N	Top of Finished Initial Cover	18	90
6/13/97	95	126+15E @ 88+80N	Top of Finished Initial Cover	16	90
6/14/97	97	124+65E @ 91+50N	Top of Finished Initial Cover	16	90
6/14/97	98	124+60E @ 89+50N	Top of Finished Initial Cover	16	90
6/18/97	113	125+35E @ 91+55N	Top of Finished Initial Cover	12	91
6/18/97	114	126+10E @ 91+90N	Top of Finished Initial Cover	17	91
6/18/97	115	126+05E @ 90+35N	Top of Finished Initial Cover	16	90
6/18/97	116	125+30E @ 90+45N	Top of Finished Initial Cover	18	90
6/26/97	135	126+05E @ 88+05N	Top of Finished Initial Cover	16	90
6/26/97	136	125+40E @ 88+10N	Top of Finished Initial Cover	16	90
6/26/97	137	111+63E @ 97+50N	Top of Finished Initial Cover	13	90
6/27/97	138B	111+63E @ 98+30N	Top of Finished Initial Cover	14	90
6/26/97	139	111+63E @ 99+10N	Top of Finished Initial Cover	13	90
7/15/97	149	112+50E @ 97+50N	Top of Finished Initial Cover	18+	90
7/15/97	150	111+20E @ 97+45N	Top of Finished Initial Cover	18+	92
7/15/97	151	112+85E @ 98+20N	Top of Finished Initial Cover	18+	90
7/15/97	152	111+90E @ 98+25N	Top of Finished Initial Cover	18+	91
7/24/97	153A	110+85E @ 98+25N	Top of Finished Initial Cover	16	91
7/24/97	154A	112+70E @ 99+10N	Top of Finished Initial Cover	17	91

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INITIAL COVER DATA SHEET

CLIENT England, Thims & Miller, Inc.
PROJECT Trail Ridge Landfill Incremental Closure
PROJECT NO 40562-7-3268

Date	Field Density No	Location Station	Depth or Elevation	Thickness (Inches)	Density (% Compaction)
7/15/97	155	111+30E @ 99+05N	Top of Finished Initial Cover	18+	90
7/15/97	156	110+25E @ 99+10N	Top of Finished Initial Cover	18+	91
8/6/97	162B	106+93 @ 97+60N	Top of Finished Initial Cover	18+	90
8/6/97	163B	106+93E @ 98+40N	Top of Finished Initial Cover	12 1/2	90
8/5/97	164B	106+93E @ 99+15N	Top of Finished Initial Cover	14	92
8/6/97	165B	106+25E @ 98+40N	Top of Finished Initial Cover	18+	90
8/11/97	166D	106+15E @ 97+55N	Top of Finished Initial Cover	18+	90
8/11/97	167B	104+75E @ 97+65N	Top of Finished Initial Cover	18+	90
7/30/97	168	103+45E @ 97+65N	Top of Finished Initial Cover	12	91
8/6/97	175A	105+25E @ 98+40N	Top of Finished Initial Cover	18+	91
8/4/97	176	103+80E @ 98+40N	Top of Finished Initial Cover	18+	90
8/4/97	177	102+75E @ 98+25N	Top of Finished Initial Cover	18+	90
8/4/97	178	106+35E @ 99+15N	Top of Finished Initial Cover	15	91
8/4/97	179	105+15E @ 99+10N	Top of Finished Initial Cover	16	90
8/4/97	180	103+50E @ 99+25N	Top of Finished Initial Cover	16	92
8/5/97	181A	102+30E @ 99+10N	Top of Finished Initial Cover	18+	90
9/3/97	202	102+33E @ 97+63N	Top of Finished Initial Cover	18+	93
9/3/97	203	102+10E @ 96+33N	Top of Finished Initial Cover	16	97
9/3/97	204	102+18E @ 95+13N	Top of Finished Initial Cover	18+	96
9/3/97	205	102+14E @ 94+40N	Top of Finished Initial Cover	18+	96
9/3/97	206	101+46E @ 94+90N	Top of Finished Initial Cover	18+	100
9/3/97	207	101+37E @ 96+25N	Top of Finished Initial Cover	18+	100
9/5/97	208	101+55E @ 97+40N	Top of Finished Initial Cover	18+	98
9/5/97	209	101+48E @ 98+40N	Top of Finished Initial Cover	18+	97
9/5/97	210	101+45E @ 99+03N	Top of Finished Initial Cover	17	93
9/5/97	211	100+85E @ 99+05N	Top of Finished Initial Cover	17	99
9/5/97	212	100+95E @ 98+58N	Top of Finished Initial Cover	18+	99
9/5/97	213	100+94E @ 97+50N	Top of Finished Initial Cover	18+	97

LAW
ENGINEERING AND ENVIRONMENTAL SERVICES
3901 Carmichael Avenue, Jacksonville, FL 32207
Phone (904) 396-5173 / Fax (904) 398-1084

INITIAL COVER DATA SHEET

CLIENT England, Thims & Miller, Inc.
PROJECT Trail Ridge Landfill Incremental Closure
PROJECT NO 40562-7-3268

Date	Field Density No	Location Station	Depth or Elevation	Thickness (Inches)	Density (% Compaction)
9/5/97	214	100+97E @ 96+47N	Top of Finished Initial Cover	17	97
9/5/97	215	100+95E @ 95+60N	Top of Finished Initial Cover	18+	99
9/5/97	216	100+90E @ 94+53N	Top of Finished Initial Cover	18+	98
9/5/97	217	101+43E @ 93+87N	Top of Finished Initial Cover	18	92
9/5/97	218	102+25E @ 93+60N	Top of Finished Initial Cover	16	96
9/9/97	225	100+95E @ 93+31N	Top of Finished Initial Cover	17	91
9/9/97	226	101+60E @ 93+31N	Top of Finished Initial Cover	15	98
9/9/97	227	102+31E @ 93+31N	Top of Finished Initial Cover	13	96
9/11/97	236	101+45E @ 92+53	Top of Finished Initial Cover	14	91
9/11/97	237	102+17E @ 92+37	Top of Finished Initial Cover	15	92
9/11/97	238	100+98E @ 92+20N	Top of Finished Initial Cover	13	91
9/11/97	239	101+48E @ 91+45N	Top of Finished Initial Cover	12	90
9/18/97	256	102+35E@91+55N	Top of Finished Initial Cover	15	92

LAW
ENGINEERING AND ENVIRONMENTAL SERVICES

COMPACTED CLAY LAYER

The clay layer material was obtained from an off-site source The borrow source was located near Lawtey, Florida on the "Lane" property and operated by R B Baker Construction Pre-qualification testing of the borrow source, including the verification of permeability of the clay material, was presented in our letter dated May 12, 1997 and included in this section The Quality Control Monitor routinely visited the borrow source in order to verify the continued homogeneity of the soil strata during excavation

A test strip was prepared using the borrow source material from the "Lane" property site The test strip was placed on May 17, 1997. Our letter dated June 18, 1997 regarding the monitoring and testing of the test strip is included in this section Note that based upon the test strip, the minimum density criteria for the clay layer was set at a minimum of 90 percent of the Standard Proctor maximum

The installed compacted clay layer testing locations are shown on the plan included in this section A summary of the density, thickness, hydraulic conductivity, moisture content, percent fines and Atterberg limits testing are also included in this section The Field Density Test Reports are included in Appendix A

I have reviewed the documentation and test data of the Quality Control Monitor and based upon that data, find that the construction is substantially in accordance with the Quality Assurance / Quality Control Plan.

James A Horton, P E
Registered, FL 23315

A. Borrow Pit Pre-Qualification

LAW
ENGINEERING AND ENVIRONMENTAL SERVICES INC

May 12, 1997

Ms Juanitta Clem
England, Thims & Miller, Inc
3131 St Johns Bluff Road
Jacksonville, Florida 32216

Subject: Clay Borrow Source Pre-Qualification
Incremental Side Slope Closure
Side Slopes 1-4, 12-17, 18-20
Trail Ridge Landfill
Jacksonville, Florida
LAW Project No 40562-7-3268

Dear Ms Clem

Law Engineering and Environmental Services, Inc , (LAW) has completed the pre-qualification testing of the potential clay borrow source Attached are a site location map, test pit location sketch, completed pre-qualification form and Proctor test results Associated index testing results are presented below

In summary, the proposed borrow source is located south of County Road 225, west of Lawtey in Bradford County, Florida As part of the site evaluation designated the Lane Pit, nine test pits were excavated The approximate locations of the test pits are shown on the attached sketch The test pits encountered from 2 to 8 1/2 feet of fine sandy overburden soils and from 1 1/2 to 6 feet of sandy clay which appeared to be acceptable as a potential clay liner material Two samples of this clay (from Test Pits 1 and 5) were submitted for Proctor, permeability and index testing The results of this testing are as follows

	Sample CL 1 (Test Pit 1)	Sample CL 2 (Test Pit 5)
Maximum Dry Density (Standard Proctor)	94 6 pcf	103 6 pcf
Optimum Moisture Content (Standard Proctor)	23 3%	20 8%
Liquid Limit	94	59
Plasticity Index	73	42
Percent Fines	62	56
Coefficient of Permeability	1 X 10^{-8} cm/sec	1 7 X 10^{-8} cm/sec
Percent Compaction (Standard Proctor)	89%	92%
Moisture Content at Compaction	30 5%	25 4%

Results of the testing are presented on various data sheets attached to this report Based on these results in our opinion the clay from this site will be acceptable for consideration as the clay liner material

We appreciate the opportunity to be of service on this phase of your project If you have any questions concerning this report please contact us

Very truly yours,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

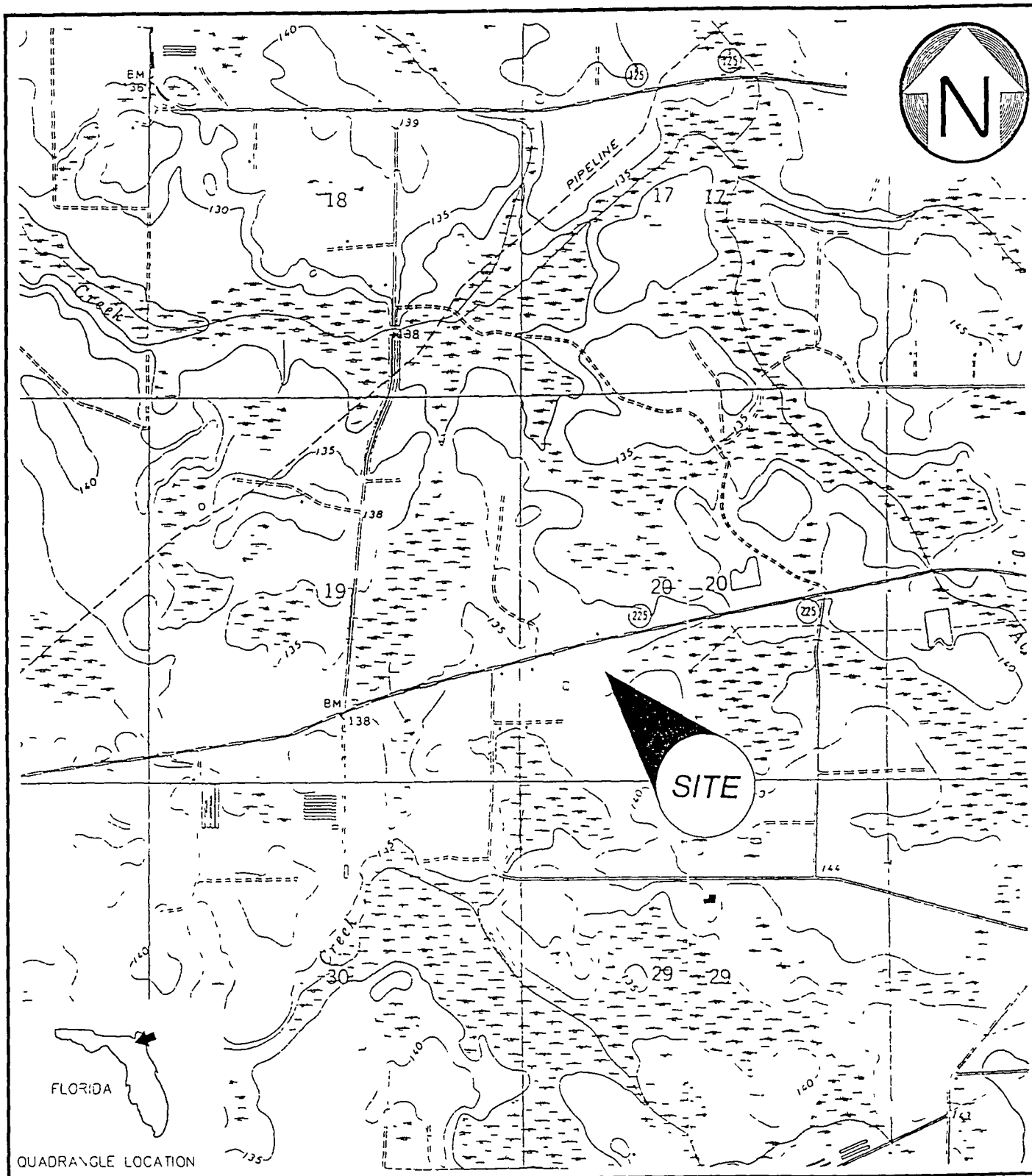
James A Horton, P E
Principal Engineer
Registered FL 23315

Bryant B Wildes
Chief Engineering Technician

dm

Attachments

user\Trailndge\trailpit



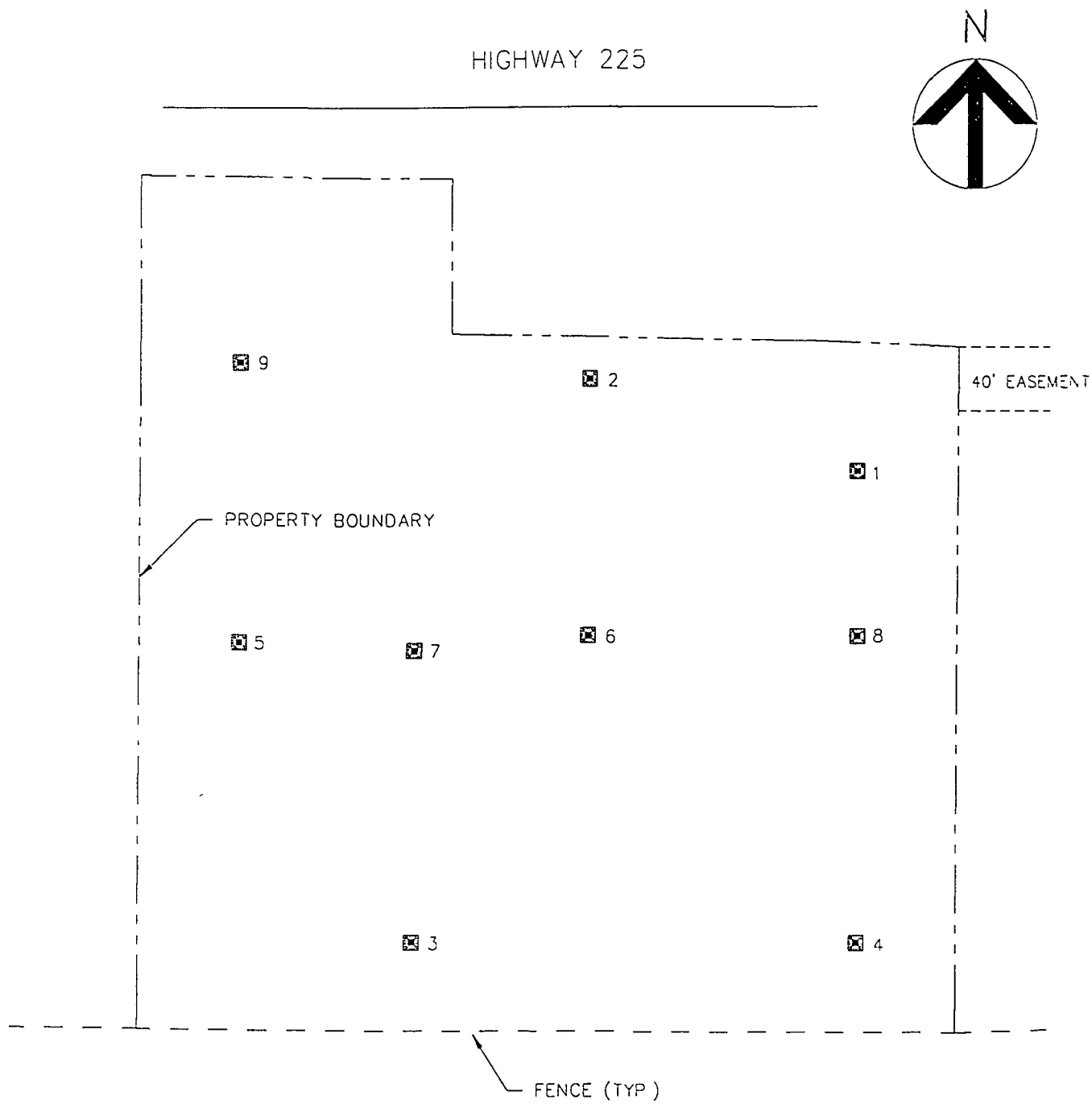
REFERENCE
RAIFORD QUADRANGLE, FLORIDA
DATED 1970, PHOTOREVISED 1984
LAWTEY QUADRANGLE, FLORIDA
DATED 1970, PHOTOREVISED 1993
TOPOGRAPHIC MAPS
U S GEOLOGICAL SURVEY

0 1000' 2000'
GRAPHIC SCALE

LAW ENGINEERING
JACKSONVILLE, FLORIDA

SITE LOCATION MAP
Trail Riage Incremental Closure
Bradford County, Florida

DRAWN JP	DATE 4/24/97	SCALE 1"=2000'
CHECKED JAH	PROJECT NO 40562-7-3268	



LEGEND

TEST PIT LOCATION

LAW
ENGINEERING AND ENVIRONMENTAL SERVICES INC

FIELD EXPLORATION PLAN

Trail Ridge Incremental Closure

Bradford County, Florida

DRAWN JP	DATE 4/24/97	SCALE 1"=100'
CHECKED JAH	PROJ NO 40562-7-3268	APPROX

TRAIL RIDGE LANDFILL SIDE SLOPE CLOSURE
CLAY BORROW SOURCE
PRE-QUALIFICATION FORM

CLAY SOURCE Lawtey, Florida

LOCATION* Lane Pit - See Attached Map

DISTANCE FROM PROJECT SITE 16 miles

ESTIMATED PROJECT QUANTITY 25,000 cu yds

ESTIMATED SOURCE QUANTITY 31,000 cu yds

NUMBER OF TEST PITS 9 (Permeability samples are from Test Pits 1 & 5)

TEST RESULTS

TEST PIT NO 1

Clay Stratum
Description
Grey,Tan and Orange Slightly Clayey Fine Sandy Clay

Depth Below Surface From 3' To 9'

Percent Fines 62%

Atterberg Limits LL = 94 PL = 21 PI = 73

Moisture Content 30 5% (Permeability test)

Hydraulic Conductivity (cm/sec)

@ 80% Standard Proctor
@ 85% Standard Proctor
@ 90% Standard Proctor 1 0 X 10^{-8} cm/sec
(89% actual density)

TEST PIT NO 2

Clay Stratum
Description
Grey and Tan Slightly Silty Fine Sandy Clay

Depth Below Surface From 2' To 6 5'

Percent Fines

Atterberg Limits

Moisture Content
Hydraulic Conductivity (cm/sec)
@ 80% Standard Proctor
@ 85% Standard Proctor
@ 90% Standard Proctor

TEST PIT NO 3

Clay Stratum
Description
Grey, Tan and Orange Sandy/Slightly Sandy Clay

Depth Below Surface From 8 5' To 10'

Percent Fines

Atterberg Limits

Moisture Content

Hydraulic Conductivity (cm/sec)

@ 80% Standard Proctor
@ 85% Standard Proctor
@ 90% Standard Proctor

TEST PIT NO 4

Clay Stratum
Description
Grey Tan and Orange Sandy/Slightly Sandy Clay

Depth Below Surface From 6' To 8 5

Percent Fines

Atterberg Limits

Moisture Content
Hydraulic Conductivity (cm/sec)
@ 80% Standard Proctor
@ 85% Standard Proctor
@ 90% Standard Proctor

TEST RESULTS (Continued)

TEST RESULTS

TEST PIT NO 5

Clay Stratum
Description
Grey,Tan Sandy/Slightly Orange and Red Sandy Clay

Depth Below Surface From 3 5'To 9'

Percent Fines 56%

Atterberg Limits LL = 59 PL = 17 PI = 42

Moisture Content 25 4% (Permeability sample)

Hydraulic Conductivity (cm/sec)

@ 80% Standard Proctor_____
@ 85% Standard Proctor_____
@ 90% Standard Proctor 1 7 X 10^{-8} cm/sec
(92% actual density)

TEST PIT NO 6

Clay Stratum
Description
Grey Tan Orange and Red Sandy/Slightly Sandy Clay

Depth Below Surface From 4' To 10'

Percent Fines_____

Atterberg Limits_____

Moisture Content_____
Hydraulic Conductivity (cm/sec)
@ 80% Standard Proctor_____
@ 85% Standard Proctor_____
@ 90% Standard Proctor_____

TEST PIT NO 7

Clay Stratum
Description
Grey, Tan, Orange and Red Sandy/Slightly Sandy Clay

Depth Below Surface From 3 5' To 8 5'

Percent Fines_____

Atterberg Limits_____

Moisture Content_____

Hydraulic Conductivity (cm/sec)

@ 80% Standard Proctor_____
@ 85% Standard Proctor_____
@ 90% Standard Proctor_____

TEST PIT NO 8

Clay Stratum
Description
Grey, Tan and Orange Sandy/Slightly Sandy Clay

Depth Below Surface From 6 5' To 10'

Percent Fines_____

Atterberg Limits_____

Moisture Content_____
Hydraulic Conductivity (cm/sec)
@ 80% Standard Proctor_____
@ 85% Standard Proctor_____
@ 90% Standard Proctor_____

TEST RESULTS (Continued)

TEST RESULTS

TEST PIT NO 9

Clay Stratum
Description
Grey Tan and Orange Sandy/Slightly Sandy Clay

Depth Below Surface From 5 5'To 9 5'

Percent Fines_____

Atterberg Limits_____

Moisture Content_____

Hydraulic Conductivity (cm/sec)

@ 80% Standard Proctor_____
@ 85% Standard Proctor_____
@ 90% Standard Proctor_____

TEST PIT NO _____

Clay Stratum
Description _____

Depth Below Surface From ___To ___

Percent Fines_____

Atterberg Limits_____

Moisture Content_____
Hydraulic Conductivity (cm/sec)
@ 80% Standard Proctor_____
@ 85% Standard Proctor_____
@ 90% Standard Proctor_____

TEST PIT NO _____

Clay Stratum
Description

_____

Depth Below Surface From _____To _____

Percent Fines_____

Atterberg Limits_____

Moisture Content_____

Hydraulic Conductivity (cm/sec)

@ 80% Standard Proctor_____
@ 85% Standard Proctor_____
@ 90% Standard Proctor_____

TEST PIT NO _____

Clay Stratum
Description _____

Depth Below Surface From _____To ____

Percent Fines_____

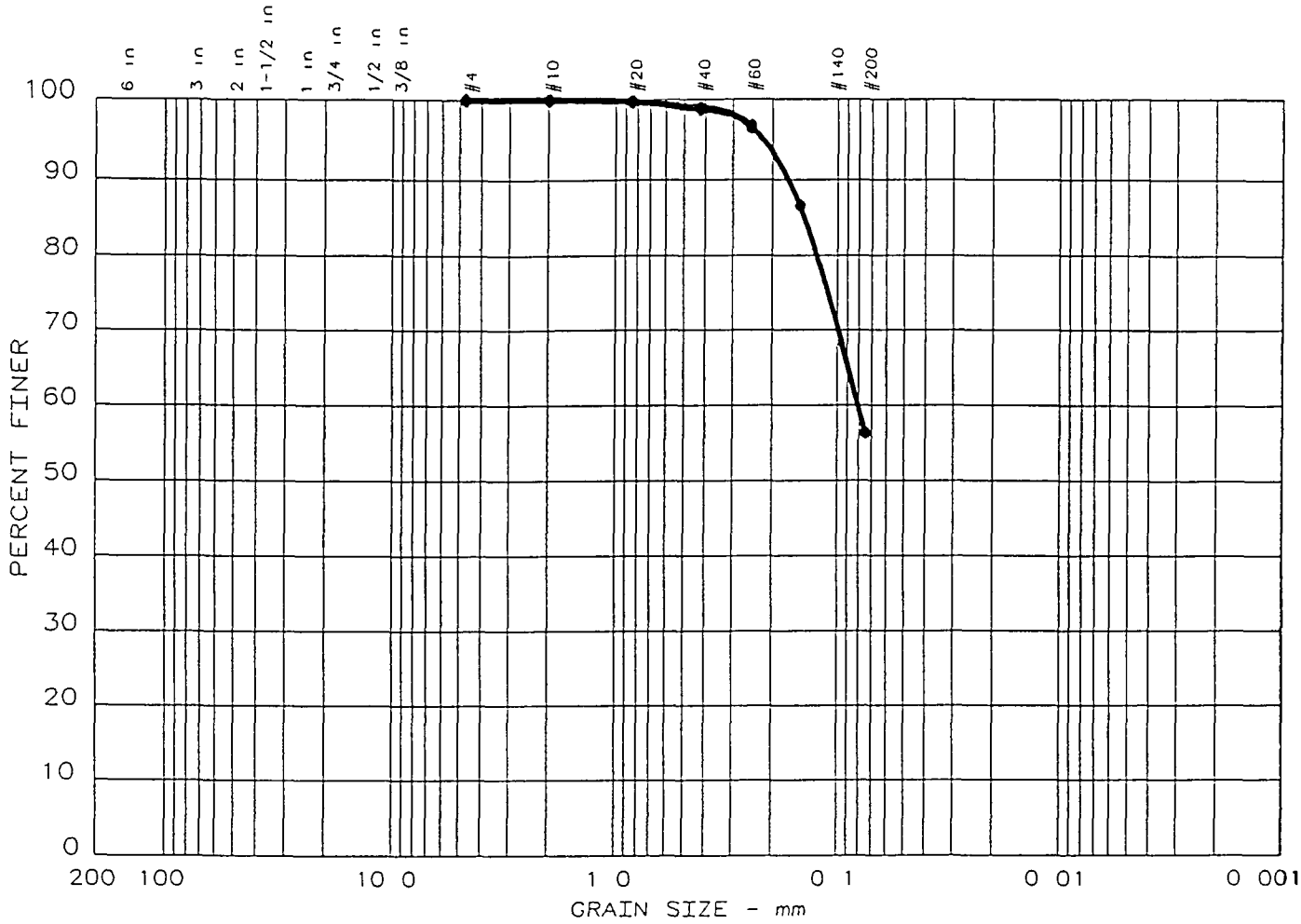
Atterberg Limits_____

Moisture Content_____
Hydraulic Conductivity (cm/sec)
@ 80% Standard Proctor_____
@ 85% Standard Proctor_____
@ 90% Standard Proctor_____

Approved by Contractor
Approved by QC Monitor
Approved by QA Engineer

userkdelformsitestpit

GRAIN SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	0 0	0 0	43 7	56 3	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
●	59	42	0 143	0 0807						

MATERIAL DESCRIPTION	USCS	AASHTO
● Red and Light Grey Very Sandy CLAY	CH	A-7-6

Project No 40562-7-3268
Project Trail Ridge Landfill Incremental Closure
Client England-Thims & Miller, Inc
● Location Test Pit No 5

Date 4-23-97

Remarks

Proctor No CL-2

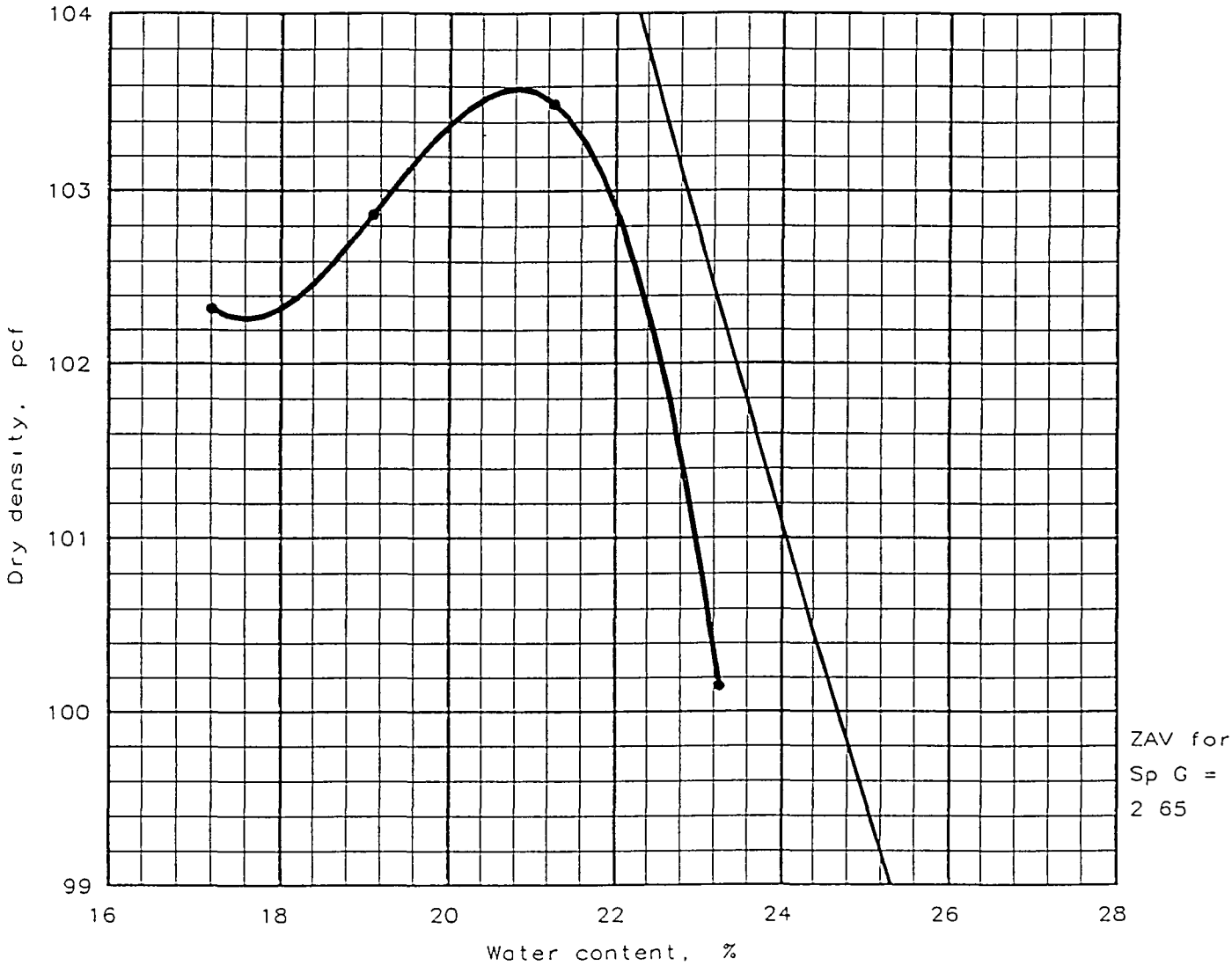
Clay Pre-Qualification

GRAIN SIZE DISTRIBUTION TEST REPORT

LAW ENGINEERING

Reviewed By

MOISTURE-DENSITY RELATIONSHIP TEST



Test specification ASTM D 698-91 Procedure A, Standard

Elev/ Depth	Classification		Nat Moist	Sp G	LL	PI	% > No 4	% < No 200
	USCS	AASHTO						
	CH	A-7-6	29 4 %		59	42	0 0 %	56 3 %

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 103 6 pcf Optimum moisture = 20 8 %	Red and Light Grey Very Sandy CLAY

Project No 40562-7-3268
Project Trailridge Landfill Incremental Closure
Client England-Thims & Miller Inc
Location Test Pit No 5

Date 4-17-97

Remarks

Proctor No CL-2

Pre-Qualification

MOISTURE-DENSITY RELATIONSHIP TEST

LAW ENGINEERING INC.

Reviewed By

B. Test Strip

LAW
ENGINEERING AND ENVIRONMENTAL SERVICES

MEMORANDUM

To Juanitta Clem
England, Thims and Miller

From Jim Horton

Date November 14, 1997

Re **Test Strip Density Testing**

This correspondence is to confirm our telephone conversation on November 12, 1997 The results of the field and laboratory density testing of the test strip was reported in our Test Strip Qualification report dated June 18, 1997 Laboratory densities were measured as a correlation to the field densities When the test strip was installed, a study was in progress to determine the appropriate moisture correlation factor to apply to the field nuclear gauge moisture measurements Based on the results of the test strip, a minimum of 90 percent of the Modified Proctor maximum dry density was established for the clay layer The measured test strip field densities varied from 87 percent to 92 percent while the associated laboratory densities varied from 90 percent to 94 percent Once the nuclear density gauge moisture correlation factor was determined and applied to the test strip field densities, all of the densities exceeded 90 percent minimum Therefore, all areas of the test strip were considered acceptable without further compaction

LAW
ENGINEERING AND ENVIRONMENTAL SERVICES INC

June 18, 1997

Ms Juanitta Clem
England, Thims & Miller, Inc
3131 St Johns Bluff Road
Jacksonville, Florida 32216

Subject Clay Test Strip Qualification
Incremental Closure Construction
TrailRidge Landfill
Jacksonville, Florida
LAW Project No 40562-7-3268

Dear Ms Clem

Law Engineering and Environmental Services, Inc , (LAW) has completed the testing of the clay test strip materials at the subject site Attached is the test strip qualification form The measured laboratory dry density for these samples indicated values between 90% and 94% of the Standard Proctor maximum dry density Field density values varied between 87% and 92% Samples of the clay liner were obtained for permeability testing The coefficient of permeability values obtained for these samples varied from 1 7 X 10^{-8} to 9 4 X 10^{-8} cm/sec

In summary, the test strip permeabilities meet the specified requirement at densities varying from 90 to 94 percent of the standard Proctor maximum Based on these results, we consider the test strip acceptable and recommend a minimum density criteria for the clay of 90 percent of the standard Proctor maximum

We appreciate the opportunity to be of continuing service on this phase of your project If you have any questions concerning this report please contact us

Sincerely,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES

James A Horton, P E
Principal Geotechnical Engineer
Registered Florida 23315

Bryant B Wildes
Chief Engineering Technician

dm

Attachment

user\const\Trailrid 97\stripfor

3901 CARMICHAEL AVENUE • JACKSONVILLE FL 32207
(904) 396 5173 • FAX (904) 396 5703 OR 399 3176

TRAILRIDGE LANDFILL
INCREMENTAL CLOSURE CONSTRUCTION
TEST STRIP FORM

TEST STRIP NO 1	DATE 6/18/97
LOCATION Area established by points 121+82E, 95+80N/ 122+37E, 95+85N/ 121+90E, 95+48N/ 121+41E, 95+60N	
SIZE (20' X 60'minimum) (1200 ft^2) 28 ½ X 53 (1510 ft^2)	
TYPE OF EQUIPMENT USED dozer and sheeps foot roller	
PASS/FAIL? Pass	

TEST RESULTS

Lift No 1	Lift No 2
Percent Fines 39% - 43%	Percent Fines 35% - 40%
Atterberg Limits 35 - 43	Atterberg Limits 35 - 40
Moisture Content 18% - 21%	Moisture Content 19% - 23%
Field Density (@ 5 locations) 89% 89% 89% 89% 91%	Field Density (@ 5 locations) 92% 87% 87% 88% 90%
Thickness (@ 5 locations) 7 1/2" 7 1/2" 7 1/2" 7 1/2" 7"	Thickness (@ 5 locations) (Total) 14" 13 1/2" 13 3/4" 13 3/4" 14"
Hydraulic Conductivity (@ 5 locations) P1 3 7 X 10^{-8} cm/sec P2 3 8 X 10^{-8} cm/sec P3 9 3 X 10^{-8} cm/sec P4 1 9 X 10^{-8} cm/sec P5 1 9 X 10^{-8} cm/sec	Hydraulic Conductivity (@ 5 locations) P6A 1 9 X 10^{-8} P7 5 7 X 10^{-8} P8 3 8 X 10^{-8} P9 9 4 X 10^{-8} P10 3 7 X 10^{-8}

Approved by Contractor _____
Approved by QC Monitor _____
Approved by QA Engineer _____

C. Clay Layer

LAW
ENGINEERING AND ENVIRONMENTAL SERVICES
3901 Carmichael Avenue, Jacksonville, FL 32207
Phone (904) 396-5173 / Fax (904) 398-1084

TEST DATA SHEET
CLAY LAYER
FIRST LIFT

CLIENT England, Thims & Miller, Inc.
PROJECT Trail Ridge Landfill Incremental Closure
PROJECT NO 40562-7-3268

Location by Station[1]	FDT No [2]	Percent Compaction	Moisture Content	Permeability Sample No	Coefficient of Permeability (cm/sec)	Thickness[4] (Inches)	Index[3] Sample No	% Passing No 200 Sieve	Liquid Limit	Plastic L imit	Plastic Index
121+90E@96+10N	16A	90	18 5	--	--	7	--	--	--	--	--
122+25E@95+90N	17A	94	15 4	--	--	7	--	--	--	--	--
122+25E@96+10N	18A	92	19 7	--	--	6-3/4	--	--	--	--	--
121+95E@95+85N	19B	94	18 6	--	--	6-3/4	--	--	--	--	--
122+10E@96+00N	20A	93	20 9	--	--	7-1/2	--	--	--	--	--
121+90E@95+70N	21	91	22 3	P-1	$3\ 7 \times 10^{-8}$	7-1/2	I-1	39 37	59	21	38
121+95E@95+55N	22	92	22 5	P-2	$3\ 8 \times 10^{-8}$	7-1/2	I-2	41 79	57	22	35
122+10E@95+70N	23	90	21 7	P-3	$9\ 3 \times 10^{-8}$	7-1/2	I-3	43 62	60	21	39
122+35E@95+65N	24	92	18 4	P-5	$1\ 9 \times 10^{-8}$	7	I-5	43 29	63	20	43
122+35E@95+80N	25	91	19 8	P-4	$1\ 9 \times 10^{-8}$	7-1/2	I-4	42 39	59	21	38
122+00E@95+25N	26A	94	17 9	--	--	7-1/4	--	--	--	--	--
122+30E@95+40N	27A	92	19 3	--	--	6-3/4	--	--	--	--	--
122+20E@95+05N	46	91	23 9	--	--	6	I-11	44 10	--	--	--
122+85E@94+45N	47	97	19 4	--	--	6	--	--	--	--	--
122+55E@94+35N	48A	92	23 8	--	--	6	--	--	--	--	--
123+35E@93+90N	49	97	20 0	P-11	$9\ 4 \times 10^{-9}$	6	I-12	45 12	65	22	43
123+85E@93+60N	50	95	21 3	--	--	6	I-13	39 90	--	--	--
123+80E@92+90N	51	95	23 6	P-12	$1\ 9 \times 10^{-8}$	7	I-14	44 47	60	22	38

Notes 1 Locations are based upon the local grid coordinates
2 Field Density Test Numbers are included for reference to test data in Appendix A
3 Sample Numbers are included for reference to hydraulic conductivity test data or the index test data on the reports included later in this section
4 Thickness is measured to the nearest 1/4-inch

LAW
ENGINEERING AND ENVIRONMENTAL SERVICES
3901 Carmichael Avenue, Jacksonville, FL 32207
Phone (904) 396-5173 / Fax (904) 398-1084

TEST DATA SHEET

CLAY LAYER

FIRST LIFT

CLIENT England, Thims & Miller, Inc.

PROJECT Trail Ridge Landfill Incremental Closure

PROJECT NO 40562-7-3268

Location by Station[1]	FDT No [2]	Percent Compaction	Moisture Content	Permeability Sample No	Coefficient of Permeability (cm/sec)	Thickness[4] (Inches)	Index[3] Sample No	% Passing No 200 Sieve	Liquid Limit	Plastic L imit	Plastic Index
122+75E@96+00N	71	91	21 8	--	--	7-1/2	I-23	44 60	--	--	--
123+35E@94+80N	72	92	22 5	P-20	6 6x10 ^{8}	8-1/2	I-24	43 90	87	21	66
124+00E@94+20N	74	93	21 0	--	--	6-1/4	I-26	44 50	--	--	--
124+65E@93+05N	81	93	22 6	P-23	9 8x10 ^{8}	6	I-29	45 35	75	21	54
125+40E@92+90N	82	95	20 5	--	--	6	I-30	42 55	--	--	--
125+45E@93+95N	83	92	21 1	P-24	1 9x10 ^{8}	6-1/2	I-31	43 25	82	23	59
125+10E@94+90N	84	93	22 0	--	--	7	I-32	43 26	--	--	--
124+25E@94+95N	85	91	22 7	P-25	9 7x10 ^{9}	7-1/2	I-33	46 56	82	21	61
125+05E@95+65N	102	90	21 6	--	--	7-1/2	I-41	47 26	--	--	--
125+95E@95+25N	103	90	23 4	P-31	7 9x10 ^{8}	6	I-42	47 11	81	22	59
126+05E@94+10N	104	95	18 5	--	--	7-1/4	I-43	42 21	--	--	--
126+15E@92+85N	105	95	18 7	P-32	2 0x10 ^{8}	7-3/4	I-44	53 72	90	24	66
124+55E@89+35N	109	94	18 3	P-36	3 9x10 ^{8}	6	I-48	44 99	70	20	50
124+65E@91+20N	110	94	17 8	--	--	7	I-49	41 82	--	--	--
126+05E@91+30N	117	95	22 3	--	--	6	I-52	50 49	--	--	--
125+35E@91+45N	118	94	23 3	P-38	1 0x10 ^{8}	7-1/2	I-53	42 12	62	21	41
126+25E@89+35N	119	96	19 8	P-39	9 7x10 ^{9}	7-1/4	I-54	47 72	76	21	55
125+45E@89+50N	120	94	19 5	--	--	6-1/4	I-55	53 24	--	--	--

Notes 1 Locations are based upon the local grid coordinates

2 Field Density Test Numbers are included for reference to test data in Appendix A

3 Sample Numbers are included for reference to hydraulic conductivity test data or the index test data on the reports included later in this section

4 Thickness is measured to the nearest 1/4-inch

LAW
ENGINEERING AND ENVIRONMENTAL SERVICES
3901 Carmichael Avenue, Jacksonville, FL 32207
Phone (904) 396-5173 / Fax (904) 398-1084

TEST DATA SHEET

CLAY LAYER

FIRST LIFT

CLIENT England, Thims & Miller, Inc.

PROJECT Trail Ridge Landfill Incremental Closure

PROJECT NO 40562-7-3268

Location by Station[1]	FDT No [2]	Percent Compaction	Moisture Content	Permeability Sample No	Coefficient of Permeability (cm/sec)	Thickness[4] (Inches)	Index[3] Sample No	% Passing No 200 Sieve	Liquid Limit	Plastic L imit	Plastic Index
125+45E@88+05N	140	95	24 2	--	--	6	I-70	48 93	--	--	--
126+10E@88+15N	141	93	25 1	--	--	6	I-71	54 41	--	--	--
112+35E@97+55N	157	92	22 8	--	--	7-1/2	I-79	47 33	--	--	--
112+65E@98+20N	158	93	22 3	P-52	1 3x10 ^{8}	7-1/2	I-80	45 21	85	24	61
110+80E@98+30N	159	95	23 2	--	--	7-1/2	I-81	46 75	--	--	--
112+40E@99+10N	160	92	24 5	--	--	8	I-82	49 02	--	--	--
110+65E@99+05N	161	92	25 7	P-53	6 6x10 ^{8}	8	I-83	50 16	90	25	65
105+45E@97+70N	185	92	21 0	P-60	1 0x10 ^{8}	8-1/2	I-93	50 63	87	25	62
103+95E@97+60N	186	92	24 6	--	--	7-3/4	I-94	53 08	--	--	--
104+05E@98+30N	190	90	24 5	P-64	1 0x10 ^{8}	6-3/4	I-98	52 13	102	30	72
105+85E@98+40N	191	91	24 0	--	--	9-1/2	I-99	52 10	--	--	--
104+40E@98+95N	192	92	25 4	--	--	7-1/4	I-100	49 95	--	--	--
106+10E@99+05N	193	91	23 8	P-65	2 1x10 ^{8}	8-3/4	I-101	50 51	103	27	76
102+65E@99+15N	194	91	24 2	--	--	6-1/2	I-102	48 20	--	--	--
101+78E@98+12N	219	96	22 8	P-69	9 6x10 ^{9}	6-1/2	I-110	46 12	83	25	58
102+48E@97+64N	220	94	23 1	--	--	7	I-111	49 42	--	--	--
102+25E@96+77N	221	93	23 4	P-70	9 1x10 ^{8}	6	I-112	45 78	81	24	57
102+20E@95+65N	222	94	24 8	--	--	6-1/2	I-113	45 80	--	--	--

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4 Thickness is measured to the nearest 1/4-inch

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TEST DATA SHEET
CLAY LAYER
FIRST LIFT

CLIENT England, Thims & Miller, Inc.
PROJECT Trail Ridge Landfill Incremental Closure
PROJECT NO 40562-7-3268

Location by Station[1]	FDT No [2]	Percent Compaction	Moisture Content	Permeability Sample No	Coefficient of Permeability (cm/sec)	Thickness[4] (Inches)	Index[3] Sample No	% Passing No 200 Sieve	Liquid Limit	Plastic Limit	Plastic Index
101+33E@95+40N	223	90	28 5	P-71	8.3×10^{-8}	6-1/2	I-114	49 42	90	28	62
101+38E@96+40N	224	90	27 2	--	--	6	I-115	45 75	--	--	--
100+94E@94+24N	228	95	24 0	--	--	6-1/2	I-116	49 19	--	--	--
102+10E@94+25N	229	95	23 8	P-72	1.0×10^{-8}	7	I-117	50 43	92	27	65
102+35E@92+75N	240	97	31 4	--	--	7-1/4	I-124	48 29	--	--	--
101+57E@92+75N	241	98	28 0	P-79	1.1×10^{-8}	7	I-125	46 83	82	24	58
101+17E@91+65N	242	98	31 5	--	--	6	I-126	64 98	--	--	--
101+95E@91+95N	243	98	29 9	P-80	1.0×10^{-8}	6-3/4	I-127	47 53	86	24	62
102+15E@91+50N	257	93	21 6	--	--	6-1/2	I-140	48 10	--	--	--
122+05E@95+95E	--	--	--	--	--	6	--	--	--	--	--
122+25E@95+20N	--	--	--	--	--	6-1/4	--	--	--	--	--
122+85E@95+55N	--	--	--	--	--	6-1/2	--	--	--	--	--
123+25E@94+50N	--	--	--	--	--	7	--	--	--	--	--
123+45E@93+50N	--	--	--	--	--	6	--	--	--	--	--
123+95E@92+65N	--	--	--	--	--	6-1/2	--	--	--	--	--
124+70E@93+90N	--	--	--	--	--	6-1/4	--	--	--	--	--
124+50E@92+80N	--	--	--	--	--	6	--	--	--	--	--
125+20E@94+50N	--	--	--	--	--	6-1/2	--	--	--	--	--

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TEST DATA SHEET
CLAY LAYER
FIRST LIFT

CLIENT England, Thims & Miller, Inc

PROJECT Trail Ridge Landfill Incremental Closure

PROJECT NO 40562-7-3268

Location by Station[1]	FDT No [2]	Percent Compaction	Moisture Content	Permeability Sample No	Coefficient of Permeability (cm/sec)	Thickness[4] (Inches)	Index[3] Sample No	% Passing No 200 Sieve	Liquid Limit	Plastic Limit	Plastic Index
125+30E@93+35N	--	--	--	--	--	6	--	--	--	--	--
124+60E@95+65N	--	--	--	--	--	7-1/2	--	--	--	--	--
125+80E@95+60N	--	--	--	--	--	6-1/2	--	--	--	--	--
126+05E@94+50N	--	--	--	--	--	7	--	--	--	--	--
126+05E@93+35N	--	--	--	--	--	7-3/4	--	--	--	--	--
124+60E@91+85N	--	--	--	--	--	6	--	--	--	--	--
125+35E@91+70N	--	--	--	--	--	6	--	--	--	--	--
126+20E@91+80N	--	--	--	--	--	6-1/2	--	--	--	--	--
124+40E@91+00N	--	--	--	--	--	6	--	--	--	--	--
125+50E@90+75N	--	--	--	--	--	6-1/2	--	--	--	--	--
126+25E@90+65N	--	--	--	--	--	6-3/4	--	--	--	--	--
124+80E@89+90N	--	--	--	--	--	6-1/2	--	--	--	--	--
125+40E@89+90N	--	--	--	--	--	6	--	--	--	--	--
126+20E@89+85N	--	--	--	--	--	7	--	--	--	--	--
124+80E@89+20N	--	--	--	--	--	6-1/4	--	--	--	--	--
125+40E@89+20N	--	--	--	--	--	6	--	--	--	--	--
126+10E@89+15N	--	--	--	--	--	7	--	--	--	--	--
109+90E@98+90N	--	--	--	--	--	6	--	--	--	--	--

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TEST DATA SHEET
CLAY LAYER
FIRST LIFT

CLIENT England, Thims & Miller, Inc.
PROJECT Trail Ridge Landfill Incremental Closure
PROJECT NO 40562-7-3268

Location by Station[1]	FDT No [2]	Percent Compaction	Moisture Content	Permeability Sample No	Coefficient of Permeability (cm/sec)	Thickness[4] (Inches)	Index[3] Sample No	% Passing No 200 Sieve	Liquid Limit	Plastic L imit	Plastic Index
113+10E@99+20N	--	--	--	--	--	7-1/2	--	--	--	--	--
110+60E@98+25N	--	--	--	--	--	6-1/2	--	--	--	--	--
112+90E@97+45N	--	--	--	--	--	6-1/2	--	--	--	--	--
101+60E@99+27N	--	--	--	--	--	6	--	--	--	--	--
101+08E@98+53N	--	--	--	--	--	6-1/2	--	--	--	--	--
100+95E@97+48N	--	--	--	--	--	7	--	--	--	--	--
101+50E@97+45N	--	--	--	--	--	7	--	--	--	--	--
101+07E@96+75N	--	--	--	--	--	7	--	--	--	--	--
102+30E@96+25N	--	--	--	--	--	6	--	--	--	--	--
101+28E@95+05N	--	--	--	--	--	6-3/4	--	--	--	--	--
102+35E@95+07N	--	--	--	--	--	7	--	--	--	--	--
101+45E@94+40N	--	--	--	--	--	6-1/4	--	--	--	--	--
101+40E@93+78N	--	--	--	--	--	6-1/2	--	--	--	--	--
102+20E@93+90N	--	--	--	--	--	6-1/2	--	--	--	--	--
102+35E@93+31N	--	--	--	--	--	6	--	--	--	--	--
101+60E@93+31N	--	--	--	--	--	7	--	--	--	--	--
101+05E@93+31N	--	--	--	--	--	6-1/4	--	--	--	--	--
122+05E@95+95N	--	--	--	--	--	6	--	--	--	--	--

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TEST DATA SHEET
CLAY LAYER
FIRST LIFT

CLIENT England, Thims & Miller, Inc.
PROJECT Trail Ridge Landfill Incremental Closure
PROJECT NO 40562-7-3268

Location by Station[1]	FDT No [2]	Percent Compaction	Moisture Content	Permeability Sample No	Coefficient of Permeability (cm/sec)	Thickness[4] (Inches)	Index[3] Sample No	% Passing No 200 Sieve	Liquid Limit	Plastic L imit	Plastic Index
122+25E@95+20N	--	--	--	--	--	6-1/4	--	--	--	--	--
122+85E@95+55N	--	--	--	--	--	6-1/2	--	--	--	--	--
123+25E@94+50N	--	--	--	--	--	7	--	--	--	--	--
105+10E@99-15N	--	--	--	--	--	7-1/2	--	--	--	--	--
103+35E@99+25N	--	--	--	--	--	8	--	--	--	--	-
106+35E@98+25N	--	--	--	--	--	7-1/2	--	--	--	--	--
103+35E@98+20N	--	--	--	--	--	6-1/2	--	--	--	--	--
106+20E@97+55N	--	--	--	--	--	8	--	--	--	--	--

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TEST DATA SHEET
CLAY LAYER
SECOND LIFT

CLIENT England, Thims & Miller, Inc
PROJECT Trail Ridge Landfill Incremental Closure
PROJECT NO 40562-7-3268

Location[1] by Station	FDT[2] No	Percent Compaction	Moisture Content	Permeability Sample No	Coefficient of Permeability (cm/sec)	Thickness (Inches)	Index Sample No	% Passing No 200 Sieve	Liquid Limit	Plastic L imit	Plastic Index
121+95E@96+10N	28A	96	14 0	--	--	13	--	--	--	--	--
122+00E@95+90N	29A	94	15 7	--	--	13	--	--	--	--	--
122+05E@96+00N	30A	93	15 9	--	--	14	--	--	--	--	--
122+30E@95+90N	31A	91	16 2	--	--	12-3/4	--	--	--	--	--
122+25E@96+20N	32	90	17 4	--	--	14-3/4	--	--	--	--	--
121+95E@95+70N	33	90	20 7	P-6	*1 7x10^{6}	14	I-6	36 59	60	20	40
122+00E@95+55N	34	91	23 2	P-7	5 7x10^{8}	13-1/2	I-7	39 17	59	20	39
122+10E@95+70N	35	90	21 6	P-8	3 8x10^{8}	13-3/4	I-8	39 15	58	19	39
122+30E@95+65N	36	91	22 1	P-9	9 4x10^{8}	13-3/4	I-9	35 01	57	22	35
122+30E@95+80N	37	90	19 4	P-10	3 7x10^{8}	14	I-10	40 00	61	22	39
122+20E@94+80N	38A	91	18 8	--	--	13	--	--	--	--	--
122+20E@94+80N	39A	92	18 5	--	--	13	--	--	--	--	--
122+60E@94+50N	52	94	21 3	P-13	9 3x10^{9}	13	I-15	44 06	61	22	39
121+90E@95+75N	53	94	17 8	P-6A	1 9x10^{-8}	13-1/2	I-16	38 06	57	21	36
123+40E@94+85N	75	94	18 7	--	--	13-1/2	I-27	42 20	--	--	--
122+75E@96+10N	76	95	20 7	P-22	9 1x10^{9}	13	I-28	45 60	73	22	51
122+20E@94+95N	86	92	23 9	--	--	12-1/2	I-34	46 76	--	--	--

Notes

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* This area was reworked and retested See Sample P-6A

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TEST DATA SHEET
CLAY LAYER
SECOND LIFT

CLIENT England, Thims & Miller, Inc.
PROJECT Trail Ridge Landfill Incremental Closure
PROJECT NO 40562-7-3268

Location[1] by Station	FDT[2] No	Percent Compaction	Moisture Content	Permeability Sample No	Coefficient of Permeability (cm/sec)	Thickness (Inches)	Index Sample No	% Passing No 200 Sieve	Liquid Limit	Plastic Limit	Plastic Index
123+60E@93+60N	91	92	23 4	--	--	12-1/2	I-35	43 57	--	--	--
123+85E@92+85N	92	95	21 5	P-26	$9\ 4 \times 10^{9}$	13	I-36	46 85	77	22	55
124+45E@94+10N	111	94	17 5	P-37	$1\ 9 \times 10^{8}$	12	I-50	46 67	71	21	50
124+65E@92+95N	112	95	19 0	--	--	12	I-51	46 11	--	--	--
124+60E@94+85N	121	93	13 3	--	--	12	I-56	35 64	--	--	--
125+25E@94+50N	122	94	13 8	P-40	$1\ 1 \times 10^{8}$	12-1/2	I-57	40 20	62	23	39
125+20E@93+65N	123	90	18 5	--	--	13	I-58	35 28	--	--	--
125+40E@92+80N	124	91	16 9	P-41	$5\ 4 \times 10^{8}$	12	I-59	41 36	58	21	37
126+20E@93+05N	125	91	17 0	--	--	13	I-60	46 10	--	--	--
126+05E@94+00N	126	91	15 9	P-42	$9\ 4 \times 10^{9}$	13	I-61	42 49	60	21	39
125+95E@95+25N	127	93	17 0	--	--	12	I-62	34 22	--	--	--
125+10E@95+60N	128	94	16 5	P-43	$9\ 6 \times 10^{9}$	12-1/2	I-63	47 55	76	23	53
124+55E@91+25N	129	93	17 5	P-44	$2\ 1 \times 10^{8}$	12	I-64	41 17	58	22	36
124+65E@89+40N	130	94	21 6	--	--	13	65	42 72	--	--	--
125+45E@89+70N	131	90	23 4	P-45	$9\ 6 \times 10^{-9}$	12-1/2	66	44 69	62	20	42
125+40E@91+50N	132	91	18 6	--	--	12-3/4	67	46 15	--	--	--
126+05E@91+25N	133	92	17 2	P-46	$9\ 2 \times 10^{8}$	13-1/2	68	40 57	59	22	37
126+20E@89+40N	134	93	20 9	--	--	13-1/4	69	35 70	--	--	--

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TEST DATA SHEET

CLAY LAYER

SECOND LIFT

CLIENT England, Thims & Miller, Inc.

PROJECT Trail Ridge Landfill Incremental Closure

PROJECT NO 40562-7-3268

Location[1] by Station	FDT[2] No	Percent Compaction	Moisture Content	Permeability Sample No	Coefficient of Permeability (cm/sec)	Thickness (Inches)	Index Sample No	% Passing No 200 Sieve	Liquid Limit	Plastic Limit	Plastic Index
126+10E@87+95N	145A	94	15 7	--	--	13	74	32 52	--	--	--
125+40E@88+20N	146A	94	14 5	--	--	13	75	31 59	--	--	--
112+60E@99+05N	169	92	21 1	P-54	5.0×10^{-9}	14	84	46 20	86	25	61
110+50E@99+05N	171	95	23 2	--	--	13-1/2	86	48 42	--	--	--
111+25E@97+50N	172	95	24 0	--	--	12-1/2	87	52 75	--	--	--
110+80E@98+25N	173	95	25 1	P-56	5.1×10^{-9}	13-1/2	88	56 61	106	27	79
112+70E@98+15N	174	94	25 1	--	--	13	89	48 44	--	--	--
105+60E@99+10N	195	95	17 1	--	--	12	103	52 28	--	--	--
103+10E@99+10N	196	92	18 5	P-66	2.0×10^{-8}	12	104	49 12	92	27	65
105+95E@98+25N	197	95	22 1	--	--	12-1/2	105	50 27	--	--	--
104+45E@98+50N	198	93	17 7	P-67	1.1×10^{-8}	13-1/4	106	48 45	90	25	65
103+05E@98+30N	199	93	18 9	--	--	12-3/4	107	53 99	--	--	--
103+70E@97+50N	200	97	15 6	P-68	1.9×10^{-8}	12-1/2	108	49 59	88	29	59
106+15E@97+60N	201	92	19 1	--	--	12	109	47 39	--	--	--
101+10E@98+78N	244	99	27 3	P-81	2.0×10^{-8}	12-3/4	128	51 86	105	28	77
102+33E@98+82N	245	96	26 8	--	--	12-1/2	129	46 83	--	--	--
101+38E@97+70N	246	96	27 5	--	--	13-1/2	130	46 06	--	--	--
102+35E@97+45N	247	97	28 1	P-82	1.0×10^{-8}	13	131	73 94	120	31	89

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TEST DATA SHEET

CLAY LAYER

SECOND LIFT

CLIENT England, Thims & Miller, Inc

PROJECT Trail Ridge Landfill Incremental Closure

PROJECT NO 40562-7-3268

Location[1] by Station	FDT[2] No	Percent Compaction	Moisture Content	Permeability Sample No	Coefficient of Permeability (cm/sec)	Thickness (Inches)	Index Sample No	% Passing No 200 Sieve	Liquid Limit	Plastic L imit	Plastic Index
102+08E@96+35N	248	97	26 9	--	--	12-1/2	132	45 56	--	--	--
100+95E@96+53N	249	92	23 8	P-83	$2\ 1x10^{-8}$	13	133	56 67	110	30	80
101+05E@95+55N	250	94	23 1	--	--	13-1/4	134	54 74	--	--	--
101+55E@94+35N	251	93	24 4	P-84	$1\ 1x10^{-8}$	13	135	40 44	75	25	50
100+95E@92+87N	252	95	27 9	--	--	13-1/4	136	46 77	--	--	--
102+20E@92+80N	253	97	26 9	P-85	$4\ 2x10^{-8}$	13	137	44 50	82	26	56
101+55E@92+25N	254	97	27 1	--	--	14	138	46 88	--	--	--
100+98E@91+73N	255	93	24 1	P-86	$*1\ 3x10^{-6}$	12-1/2	139	44 95	77	24	53
100+98E@91+73N	255	93	24 1	P-86A	$4\ 7x10^{-9}$	12-1/2	139	44 95	77	24	53
102+25E@91+28N	258	94	21 9	--	--	12-1/2	141	--	--	--	--
102+01E@93+31N	--	--	--	--	--	14	--	--	--	--	--
101+30E@93+31N	--	--	--	--	--	13-1/2	--	--	--	--	--
101+90E@98+37N	--	--	--	--	--	12-3/4	--	--	--	--	--
100+98E@97+95N	--	--	--	--	--	13	--	--	--	--	--
100+43E@97+05N	--	--	--	--	--	13-1/2	--	--	--	--	--
102+38E@96+95N	--	--	--	--	--	12-3/4	--	--	--	--	--
101+65E@96+65N	--	--	--	--	--	13-1/4	--	--	--	--	--
102+10E@95+77N	--	--	--	--	--	12-3/4	--	--	--	--	--
100+90E@94+47N	--	--	--	--	--	12-1/2	--	--	--	--	--

Notes

1 Locations are based upon the local grid coordinates
2 Field Density Test Numbers are included for reference to test data in Appendix A
3 Sample Numbers are included for reference to hydraulic conductivity test data or the index test data on the reports included later in this section
4 Thickness is measured to the nearest 1/4-inch
* This area was reworked and retested See sample P-86A

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TEST DATA SHEET
CLAY LAYER
SECOND LIFT

CLIENT England, Thims & Miller, Inc.
PROJECT Trail Ridge Landfill Incremental Closure
PROJECT NO 40562-7-3268

Location[1] by Station	FDT[2] No	Percent Compaction	Moisture Content	Permeability Sample No	Coefficient of Permeability (cm/sec)	Thickness (Inches)	Index Sample No	% Passing No 200 Sieve	Liquid Limit	Plastic Limit	Plastic Index
102+20E@94+48N	--	--	--	--	--	13	--	--	--	--	--
100+75E@93+77N	--	--	--	--	--	13	--	--	--	--	--
102+18E@92+30N	--	--	--	--	--	13-1/4	--	--	--	--	--
101+50E@91+52N	--	--	--	--	--	13	--	--	--	--	--
105+50E@91+52N	--	--	--	--	--	13	--	--	--	--	--
105+25E@97+65N	--	--	--	--	--	12-1/4	--	--	--	--	--
103+35E@97+60N	--	--	--	--	--	12-1/4	--	--	--	--	--
122+05E@95+45N	--	--	--	--	--	12	--	--	--	--	--
123+00E@93+90N	--	--	--	--	--	12-1/2	--	--	--	--	--
123+95E@92+35N	--	--	--	--	--	12-1/4	--	--	--	--	--
122+70E@95+65N	--	--	--	--	--	13	--	--	--	--	--
123+55E@94+40N	--	--	--	--	--	12	--	--	--	--	--
124+60E@93+65N	--	--	--	--	--	13-1/4	--	--	--	--	--
124+15E@95+10N	--	--	--	--	--	13-3/4	--	--	--	--	--
124+90E@94+55N	--	--	--	--	--	12	--	--	--	--	--
125+40E@93+20N	--	--	--	--	--	12-1/4	--	--	--	--	--
124+75E@95+60N	--	--	--	--	--	12-3/4	--	--	--	--	--
125+80E@95+50N	--	--	--	--	--	12	--	--	--	--	--

Notes

1 Locations are based upon the local grid coordinates
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3 Sample Numbers are included for reference to hydraulic conductivity test data or the index test data on the reports included later in this section
4 Thickness is measured to the nearest 1/4-inch

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TEST DATA SHEET
CLAY LAYER
SECOND LIFT

CLIENT England, Thims & Miller, Inc.
PROJECT Trail Ridge Landfill Incremental Closure
PROJECT NO 40562-7-3268

Location[1] by Station	FDT[2] No	Percent Compaction	Moisture Content	Permeability Sample No	Coefficient of Permeability (cm/sec)	Thickness (Inches)	Index Sample No	% Passing No 200 Sieve	Liquid Limit	Plastic Limit	Plastic Index
126+25E@94+50N	--	--	--	--	--	12-1/2	--	--	--	--	--
126+00E@93+35N	--	--	--	--	--	13	--	--	--	--	--
124+50E@91+60N	--	--	--	--	--	12	--	--	--	--	--
125+30E@91+95N	--	--	--	--	--	12	--	--	--	--	--
126+30E@91+70N	--	--	--	--	--	12-1/4	--	--	--	--	--
124+55E@90+70N	--	--	--	--	--	12	--	--	--	--	--
125+45E@90+45N	--	--	--	--	--	12	--	--	--	--	--
126+00E@90+95N	--	--	--	--	--	12-1/2	--	--	--	--	--
124+65E@89+85N	--	--	--	--	--	13	--	--	--	--	--
126+10E@90+05N	--	--	--	--	--	13	--	--	--	--	--
124+80E@88+60N	--	--	--	--	--	12	--	--	--	--	--
125+60E@88+95N	--	--	--	--	--	12	--	--	--	--	--
126+35E@88+60N	--	--	--	--	--	13	--	--	--	--	--
110+15E@99+30N	--	--	--	--	--	13	--	--	--	--	--
112+05E@98+85N	--	--	--	--	--	12-1/2	--	--	--	--	--
113+20E@98+20N	--	--	--	--	--	13	--	--	--	--	--
110+90E@97+45N	--	--	--	--	--	13	--	--	--	--	--
103+75E@99+00N	--	--	--	--	--	12	--	--	--	--	--

Notes

1 Locations are based upon the local grid coordinates
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3 Sample Numbers are included for reference to hydraulic conductivity test data or the index test data on the reports included later in this section
4 Thickness is measured to the nearest 1/4-inch

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TEST DATA SHEET
CLAY LAYER
SECOND LIFT

CLIENT England, Thims & Miller, Inc

PROJECT Trail Ridge Landfill Incremental Closure

PROJECT NO 40562-7-3268

Location[1] by Station	FDT[2] No	Percent Compaction	Moisture Content	Permeability Sample No	Coefficient of Permeability (cm/sec)	Thickness (Inches)	Index Sample No	% Passing No 200 Sieve	Liquid Limit	Plastic Limit	Plastic Index
105+35E@98+35N	--	--	--	--	--	12	--	--	--	--	--
102+01E@93+31N	--	--	--	--	--	14	--	--	--	--	--
101+30E@93+31N	--	--	--	--	--	13-1/2	--	--	--	--	--
100+90E@93+31N	--	--	--	--	--	12-3/4	--	--	--	--	--
101+90E@98+37N	--	--	--	--	--	13	--	--	--	--	--
100+98E@97+95N	--	--	--	--	--	13-1/2	--	--	--	--	--
100+43E@97+05N	--	--	--	--	--	12-3/4	--	--	--	--	--
102+38E@96+95N	--	--	--	--	--	13-1/4	--	--	--	--	--
101+65E@96+65N	--	--	--	--	--	12-3/4	--	--	--	--	--
102+10E@95+77N	--	--	--	--	--	12-1/2	--	--	--	--	--
100+90E@94+47N	--	--	--	--	--	13	--	--	--	--	--
102+20E@94+48N	--	--	--	--	--	13	--	--	--	--	--
100+75E@93+77N	--	--	--	--	--	13-1/4	--	--	--	--	--
102+18E@92+30N	--	--	--	--	--	13	--	--	--	--	--
101+50E@91+52N	--	--	--	--	--	13	--	--	--	--	--
105+25E@97+65N	--	--	--	--	--	12-1/4	--	--	--	--	--
103+35E@97+60N	--	--	--	--	--	12-1/4	--	--	--	--	--

Notes

1 Locations are based upon the local grid coordinates
2 Field Density Test Numbers are included for reference to test data in Appendix A
3 Sample Numbers are included for reference to hydraulic conductivity test data or the index test data on the reports included later in this section
4 Thickness is measured to the nearest 1/4-inch

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REPORT OF Permeability

Client England, Thims & Miller, Inc Date 5/21/97

Project Trailridge Landfill Incremental Closure LAW Project No 40562-7-3268
Jacksonville, Florida

The soil samples listed below were tested for Permeability (ASTM D5084) The results of these tests are as follows

Sample Identification	LOCATION	Coeffiecient of Permeability (cm/sec)
P-1	121+90E @ 95+70N	3.7×10^{-8}
P-2	121+95E @ 95+55N	3.8×10^{-8}
P-3	122+10E @ 95+70N	9.3×10^{-8}
P-4	122+35E @ 95+80N	1.9×10^{-8}
P-5	122+35E @ 95+65N	1.9×10^{-8}
* P-6	121+95E @ 95+70N	1.7×10^{-6}
P-6A	121+90E @ 95+75N	1.9×10^{-8}
P-7	122+00E @ 95+55N	5.7×10^{-8}
P-8	122+10E @ 95+70N	3.8×10^{-8}
P-9	122+30E @ 95+65N	9.4×10^{-8}
P-10	122+30E @ 95+80N	3.7×10^{-8}

* Failed - See Retest 6A

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

Bryant B Wildes
Chief Engineering Technician

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REPORT OF Soil Testing

Client England, Thims & Miller, Inc Date 5/27/97

Project Trailridge Landfill Incremental Closure LAW Project No 40562-7-3268
Jacksonville, Florida

The soil samples listed below were tested for Atterberg Limits (ASTM D-4318) and Percent Fines (ASTM D-1140) The results are as follows

SAMPLE NO	LOCATION	LIQUID LIMIT %	PLASTIC LIMIT %	PLASTICITY INDEX %	PERCENT FINES
P-1	121+90E @ 95+70N	59	21	38	39 37
P-2	121+95E @ 95+55N	57	22	35	41 79
P-3	122+10E @ 95+70N	60	21	39	43 62
P-4	122+35E @ 95+80N	59	21	38	42 39
P-5	122+35E @ 95+65N	63	20	43	43 29
P-6	121+95E @ 95+70N	60	20	40	36 59
P-6A	121+90E @ 95+75N	57	21	36	38 06
P-7	122+00E @ 95+55N	59	20	39	39 17
P-8	122+10E @ 95+70N	58	19	39	39 15
P-9	122+30E @ 95+65N	57	22	35	35 01
P-10	122+30E @ 95+80N	61	22	39	40 00

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

Bryant B Wildes
Chief Engineering Technician

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REPORT OF Permeability

Client: England, Thims & Miller, Inc — Date: 5/28/97

Project: Trailridge Landfill Incremental Closure, Jacksonville, Florida — LAW Project No 40562-7-3268

The soil samples listed below were tested for Permeability (ASTM D5084) The results of these tests are as follows

Sample Identification	LOCATION	Coeffiecient of Permeability (cm/sec)
P-11	123+35E @ 93+90N	9.4×10^{-9}
P-12	123+80E @ 92+90N	1.9×10^{-8}
P-13	122+60E @ 94+50N	9.3×10^{-9}
P-14	123+70E @ 92+48N	6.5×10^{-8}
P-15	124+50E @ 92+48N	4.7×10^{-8}
P-16	125+25E @ 92+48N	9.9×10^{-9}
P-17	125+60E @ 92+48N	4.7×10^{-9}
P-18	124+80E @ 92+48N	5.1×10^{-9}
P-19	123+60E @ 92+48N	5.1×10^{-9}
P-20	Unit 7 123+35E @ 94+80N	6.6×10^{-8}

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

Bryant B Wildes
Chief Engineering Technician

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REPORT OF Soil Testing

Client England, Thims & Miller, Inc Date 5/27/97

Project Trailridge Landfill Incremental Closure
Jacksonville, Florida
LAW Project No 40562-7-3268

The soil samples listed below were tested for Atterberg Limits (ASTM D-4318) and Percent Fines (ASTM D-1140) The results are as follows

SAMPLE NO	LOCATION	LIQUID LIMIT %	PLASTIC LIMIT %	PLASTICITY INDEX %	PERCENT FINES
P-11	123+35E @ 93+90N	65	22	43	45 12
P-12	123+80E @ 92+90N	60	22	38	44 47
P-13	122+60E @ 94+50N	61	22	39	44 06
P-14	123+70E @ 92+48N	81	22	59	48 08
P-15	124+50E @ 92+48N	84	23	61	48 26
P-16	125+25E @ 92+48N	75	21	54	45 92
P-17	125+60E @ 92+48N	72	23	49	45 49
P-18	124+80E @ 92+48N	83	22	61	48 41
P-19	123+60E @ 92+48N	84	23	61	43 68
P-20	Unit 7 123+35E @ 94+80N	87	21	66	43 90

Respectfully submitted,

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REPORT OF Permeability

Client England, Thims & Miller, Inc — Date 6/05/97

Project Trailridge Landfill Incremental Closure
Jacksonville, Florida — LAW Project No 40562-7-3268

The soil samples listed below were tested for Permeability (ASTM D5084) The results of these tests are as follows

Sample Identification	LOCATION	Coeffiecient of Permeability (cm/sec)
P-21	Unit 1 Downcomer 126+25E @ 92+48N	6.4×10^{-8}
P-22	Unit 7 122+75E @ 96+10N	9.1×10^{-9}
P-23	124+65E @ 93+05N	9.8×10^{-8}
P-24	125+45E @ 93+95N	1.9×10^{-8}
P-25	124+25E @ 94+95N	9.7×10^{-9}
P-26	123+85E @ 92+85N	9.4×10^{-9}
P-27	126+10E @ 92+48N	9.5×10^{-9}

Respectfully submitted,

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REPORT OF Soil Testing

Client England, Thims & Miller, Inc Date 6/05/97

Project Trailridge Landfill Incremental Closure
Jacksonville, Florida
LAW Project No 40562-7-3268

The soil samples listed below were tested for Atterberg Limits (ASTM D-4318) and Percent Fines (ASTM D-1140) The results are as follows

SAMPLE NO	LOCATION	LIQUID LIMIT %	PLASTIC LIMIT %	PLASTICITY INDEX %	PERCENT FINES
P-21	Unit 1 Downcomer 126+25E @ 92+48N	72	23	49	44 75
P-22	Unit 7 122+75E @ 96+10N	73	22	51	45 60
P-23	124+65E @ 93+05N	75	21	54	45 35
P-24	125+45E @ 93+95N	82	23	59	43 25
P-25	124+25E @ 94+95N	82	21	61	46 56
P-26	123+85E @ 92+85N	77	22	55	46 85
P-27	126+10E @ 92+48N	76	22	54	44 12

Respectfully submitted,

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Bryant B. Wildes

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REPORT OF Permeability

Client England, Thims & Miller, Inc Date 6/21/97

Project Trailridge Landfill Incremental Closure
Jacksonville, Florida LAW Project No 40562-7-3268

The soil samples listed below were tested for Permeability (ASTM D5084) The results of these tests are as follows

Sample Identification	LOCATION	Coeffiecient of Permeability (cm/sec)
P-28	126+05E @ 88+80N	9.7×10^{-9}
P-29	125+35E @ 88+80N	9.7×10^{-8}
P-30	124+55E @ 88+80N	1.0×10^{-8}
P-31	125+95E @ 95+25E	7.9×10^{-8}
P-32	126+15E @ 92+85N	2.0×10^{-8}
P-33	126+20E @ 88+80N	2.0×10^{-8}
P-34	125+30E @ 88+80N	9.5×10^{-9}
P-35	124+60E @ 88+80N	9.8×10^{-9}
P-36	124+55E @ 89+35N	3.9×10^{-8}
P-37	124+45E @ 94+10N	1.9×10^{-8}

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

Bryant B. Wildes

Bryant B Wildes
Chief Engineering Technician

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REPORT OF Soil Testing

Client England, Thims & Miller, Inc Date 6/17/97

Project Trailridge Landfill Incremental Closure
Jacksonville, Florida LAW Project No 40562-7-3268

The soil samples listed below were tested for Atterberg Limits (ASTM D-4318) and Percent Fines (ASTM D-1140) The results are as follows

SAMPLE NO	LOCATION	LIQUID LIMIT %	PLASTIC LIMIT %	PLASTICITY INDEX %	PERCENT FINES
P-28	126+05E @ 88+80N	72	22	50	43 46
P-29	125+35E @ 88+80N	80	22	58	47 90
P-30	124+55E @ 88+80N	70	22	48	44 73
P-31	125+95E @ 95+25E	81	22	59	47 11
P-32	126+15E @ 92+85N	90	24	66	53 72
P-33	126+20E @ 88+80N	67	21	46	39 68
P-34	125+30E @ 88+80N	86	23	63	48 60
P-35	124+60E @ 88+80N	76	20	56	44 91
P-36	124+55E @ 89+35N	70	20	50	44 99
P-37	124+45E @ 94+10N	71	21	50	46 67

Respectfully submitted,

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REPORT OF Permeability

Client: England, Thims & Miller, Inc — Date: 6/24/97

Project: Trailridge Landfill Incremental Closure, Jacksonville, Florida — LAW Project No 40562-7-3268

The soil samples listed below were tested for Permeability (ASTM D5084) The results of these tests are as follows

Sample Identification	LOCATION	Coeffiecient of Permeability (cm/sec)
P-38	125+35E @ 91+45N	1.0×10^{-8}
P-39	126+25E @ 89+35N	9.7×10^{-9}
P-40	125+25E @ 94+50N	1.1×10^{-8}
P-41	125+40E @ 92+80N	5.4×10^{-8}
P-42	126+05E @ 94+00N	9.4×10^{-9}
P-43	125+10E @ 95+60N	9.6×10^{-9}
P-44	124+55E @ 91+25N	2.1×10^{-8}
P-45	125+45E @ 89+70N	9.6×10^{-9}
P-46	126+05E @ 91+25N	9.2×10^{-8}

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

Bryant B Wildes
Chief Engineering Technician

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REPORT OF Soil Testing

Client England, Thims & Miller, Inc Date 6/24/97

Project Trailridge Landfill Incremental Closure
Jacksonville, Florida LAW Project No 40562-7-3268

The soil samples listed below were tested for Atterberg Limits (ASTM D-4318) and Percent Fines (ASTM D-1140) The results are as follows

SAMPLE NO	LOCATION	LIQUID LIMIT %	PLASTIC LIMIT %	PLASTICITY INDEX %	PERCENT FINES
P-38	125+35E @ 91+45N	62	21	41	42 12
P-39	126+25E @ 89+35N	76	21	55	47 72
P-40	125+25E @ 94+50N	62	23	39	40 20
P-41	125+40E @ 92+80N	58	21	37	41 36
P-42	126+05E @ 94+00N	60	21	39	42 49
P-43	125+10E @ 95+60N	76	23	53	47 55
P-44	124+55E @ 91+25N	58	22	36	41 17
P-45	125+45E @ 89+70N	62	20	42	44 69
P-46	126+05E @ 91+25N	59	22	37	40 57

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

Bryant B. Wildes

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Chief Engineering Technician

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REPORT OF Permeability

Client: England, Thims & Miller, Inc — Date: 7/07/97

Project: Trailridge Landfill Incremental Closure, Jacksonville, Florida — LAW Project No 40562-7-3268

The soil samples listed below were tested for Permeability (ASTM D5084) The results of these tests are as follows

Sample Identification	LOCATION	Coeffiecient of Permeability (cm/sec)
P-47	111+63E @ 97+55N	9.6×10^{-9}
P-48	111+63E @ 98+25N	1.0×10^{-8}
P-49	111+63E @ 97+35N	2.1×10^{-8}

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

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REPORT OF Soil Testing

Client England, Thims & Miller, Inc Date 7/07/97

Project Trailridge Landfill Incremental Closure
Jacksonville, Florida LAW Project No 40562-7-3268

The soil samples listed below were tested for Atterberg Limits (ASTM D-4318) and Percent Fines (ASTM D-1140) The results are as follows

SAMPLE NO	LOCATION	LIQUID LIMIT %	PLASTIC LIMIT %	PLASTICITY INDEX %	PERCENT FINES
P-47	111+63E @ 97+55N	68	23	45	45 06
P-48	111+63E @ 98+25N	71	25	46	46 38
P-49	111+63E @ 97+35N	57	21	36	35 81

Respectfully submitted,

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REPORT OF Permeability

Client England, Thims & Miller, Inc Date 7/26/97

Project Trailridge Landfill Incremental Closure
Jacksonville, Florida
LAW Project No 40562-7-3268

The soil samples listed below were tested for Permeability (ASTM D5084) The results of these tests are as follows

Sample Identification	LOCATION	Coeffiecient of Permeability (cm/sec)
P-50	111+63E @ 99+10N	9.6×10^{-9}
P-51	111+63E @ 98+30N	4.4×10^{-9}
P-52	112+65E @ 98+20N	1.3×10^{-8}
P-53	110+65E @ 99+05N	6.6×10^{-9}

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

Bryant B Wildes
Chief Engineering Technician

user\de\trailrid 97\soil rpt

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

3901 Carmichael Avenue • P O Box 5728
Jacksonville, Florida 32207
(904) 396-5173 • Fax (904) 398-1084
ONE OF THE LAW COMPANIES

REPORT OF Soil Testing

Client England, Thims & Miller, Inc Date 7/26/97

Project Trailridge Landfill Incremental Closure
Jacksonville, Florida
LAW Project No 40562-7-3268

The soil samples listed below were tested for Atterberg Limits (ASTM D-4318) and Percent Fines (ASTM D-1140) The results are as follows

SAMPLE NO	LOCATION	LIQUID LIMIT %	PLASTIC LIMIT %	PLASTICITY INDEX %	PERCENT FINES
P-50	111+63E @ 99+10N	91	25	66	49 90
P-51	111+63E @ 98+30N	106	26	80	48 62
P-52	112+65E @ 98+20N	85	24	61	45 21
P-53	110+65E @ 99+05N	90	25	65	50 16

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

Bryant B. Wildes

Bryant B Wildes
Chief Engineering Technician

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REPORT OF Permeability

Client England, Thims & Miller, Inc — Date 8/06/97

Project Trailridge Landfill Incremental Closure
Jacksonville, Florida — LAW Project No 40562-7-3268

The soil samples listed below were tested for Permeability (ASTM D5084) The results of these tests are as follows

Sample Identification	LOCATION	Coeffiecient of Permeability (cm/sec)
P-54	112+60E @ 99+05N	5.0×10^{-9}
P-55	111+63E @ 99+10N	9.6×10^{-9}
P-56	110+80E @ 98+25N	5.1×10^{-9}

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

Bryant B Wildes
Chief Engineering Technician

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REPORT OF Soil Testing

Client: England, Thims & Miller, Inc — Date: 8/06/97

Project: Trailridge Landfill Incremental Closure, Jacksonville, Florida — LAW Project No 40562-7-3268

The soil samples listed below were tested for Atterberg Limits (ASTM D-4318) and Percent Fines (ASTM D-1140) The results are as follows

SAMPLE NO	LOCATION	LIQUID LIMIT %	PLASTIC LIMIT %	PLASTICITY INDEX %	PERCENT FINES
P-54	112+60E @ 99+05N	86	25	61	46 20
P-55	111+63E @ 99+10N	92	26	66	51 04
P-56	110+80E @ 98+25N	106	27	79	56 61

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

Bryant B Wildes
Chief Engineering Technician

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REPORT OF Permeability

Client: England, Thims & Miller, Inc — Date: 8/15/97

Project: Trailridge Landfill Incremental Closure, Jacksonville, Florida — LAW Project No 40562-7-3268

The soil samples listed below were tested for Permeability (ASTM D5084) The results of these tests are as follows

Sample Identification	LOCATION	Coeffiecient of Permeability (cm/sec)
P-57	106+93E @ 97+60N	2.5×10^{-8}
P-58	106+93E @ 98+20N	1.5×10^{-8}
P-59	106+93E @ 99+10N	9.9×10^{-9}
P-60	105+45E @ 97+70N	1.0×10^{-8}
P-61	106+93E @ 97+70N	9.4×10^{-9}
P-62	106+93E @ 98+45N	9.8×10^{-9}
P-63	106+93E @ 99+00N	1.5×10^{-8}
P-64	104+05E @ 98+30N	1.0×10^{-8}
P-65	106+10E @ 99+05N	2.1×10^{-8}

Respectfully submitted,

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REPORT OF *Soil Testing*

Client England, Thims & Miller, Inc Date 8/15/97

Project Trailridge Landfill Incremental Closure LAW Project No 40562-7-3268
Jacksonville, Florida

The soil samples listed below were tested for Atterberg Limits (ASTM D-4318) and Percent Fines (ASTM D-1140) The results are as follows

SAMPLE NO	LOCATION	LIQUID LIMIT %	PLASTIC LIMIT %	PLASTICITY INDEX %	PERCENT FINES
P-57	106+93E @ 97+60N	81	25	56	45 32
P-58	106+93E @ 98+20N	83	25	58	49 41
P-59	106+93E @ 99+10N	88	26	62	48 12
P-60	105+45E @ 97+70N	87	25	62	50 63
P-61	106+93E @ 97+70N	95	29	66	50 22
P-62	106+93E @ 98+45N	98	32	66	56 87
P-63	106+93E @ 99+00N	103	30	73	53 44
P-64	104+05E @ 98+30N	102	30	72	52 13
P-65	106+10E @ 99+05N	103	27	76	50 51

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

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REPORT OF Permeability

Client England, Thims & Miller, Inc Date 8/26/97

Project Trailridge Landfill Incremental Closure
Jacksonville, Florida
LAW Project No 40562-7-3268

The soil samples listed below were tested for Permeability (ASTM D5084) The results of these tests are as follows

Sample Identification	LOCATION	Coeffiecient of Permeability (cm/sec)
P-66	103+10E @ 99+10N	2.0×10^{-8}
P-67	104+45E @ 98+50N	1.1×10^{-8}
P-68	103+70E @ 97+50N	1.9×10^{-8}

Respectfully submitted,

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Bryant B. Wildes

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REPORT OF Soil Testing

Client: England, Thims & Miller, Inc — Date: 8/26/97

Project: Trailridge Landfill Incremental Closure, Jacksonville, Florida — LAW Project No 40562-7-3268

The soil samples listed below were tested for Atterberg Limits (ASTM D-4318) and Percent Fines (ASTM D-1140) The results are as follows

SAMPLE NO	LOCATION	LIQUID LIMIT %	PLASTIC LIMIT %	PLASTICITY INDEX %	PERCENT FINES
P-66	103+10E @ 99+10N	92	27	65	49 12
P-67	104+45E @ 98+50N	90	25	65	48 45
P-68	103+70E @ 97+50N	88	29	59	49 59

Respectfully submitted,

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Bryant B Wildes
Chief Engineering Technician

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REPORT OF *Permeability*

Client England, Thims & Miller, Inc Date 9/11/97

Project Trailridge Landfill Incremental Closure
Jacksonville, Florida LAW Project No 40562-7-3268

The soil samples listed below were tested for Permeability (ASTM D5084) The results of these tests are as follows

Sample Identification	LOCATION	Coeffiecient of Permeability (cm/sec)
P-69	101+78E @ 98+12N	9.6×10^{-9}
P-70	102+25E @ 96+77N	9.1×10^{-9}
P-71	101+33E @ 95+40N	8.3×10^{-8}
P-72	102+10E @ 94+25N	1.0×10^{-8}
P-73	102+08E @ 93+31N	9.5×10^{-9}
P-74	101+30E @ 93+31N	2.0×10^{-8}
P-75	100+90E @ 93+31N	1.0×10^{-8}

Respectfully submitted,

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REPORT OF Soil Testing

Client England, Thims & Miller, Inc Date 9/11/97

Project Trailridge Landfill Incremental Closure LAW Project No 40562-7-3268
Jacksonville, Florida

The soil samples listed below were tested for Atterberg Limits (ASTM D-4318) and Percent Fines (ASTM D-1140) The results are as follows

SAMPLE NO	LOCATION	LIQUID LIMIT %	PLASTIC LIMIT %	PLASTICITY INDEX %	PERCENT FINES
P-69	101+78E @ 98+12N	83	25	58	46 12
P-70	102+25E @ 96+77N	81	24	57	45 78
P-71	101+33E @ 95+40N	90	28	62	49 42
P-72	102+10E @ 94+25N	92	27	65	50 43
P-73	102+08E @ 93+31N	96	30	66	48 72
P-74	101+30E @ 93+31N	97	28	69	48 57
P-75	100+90E @ 93+31N	106	30	76	52 62

Respectfully submitted,

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REPORT OF Permeability

Client: England, Thims & Miller, Inc — Date: 9/15/97

Project: Trailridge Landfill Incremental Closure, Jacksonville, Florida — LAW Project No 40562-7-3268

The soil samples listed below were tested for Permeability (ASTM D5084) The results of these tests are as follows

Sample Identification	LOCATION	Coeffiecient of Permeability (cm/sec)
P-76	102+42E @ 93+31N	1.0×10^{-8}
P-77	101+65E @ 93+31N	1.0×10^{-8}
P-78	100+96E @ 93+31N	1.1×10^{-8}
P-79	101+57E @ 92+75N	1.1×10^{-8}
P-80	101+95E @ 91+95N	1.0×10^{-8}
P-81	101+10E @ 98+78N	2.0×10^{-8}
P-82	102+35E @ 97+45N	1.0×10^{-8}

Respectfully submitted,

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REPORT OF Soil Testing

Client England, Thims & Miller, Inc Date 9/11/97

Project Trailridge Landfill Incremental Closure LAW Project No 40562-7-3268
Jacksonville, Florida

The soil samples listed below were tested for Atterberg Limits (ASTM D-4318) and Percent Fines (ASTM D-1140) The results are as follows

SAMPLE NO	LOCATION	LIQUID LIMIT %	PLASTIC LIMIT %	PLASTICITY INDEX %	PERCENT FINES
P-76	102+42E @ 93+31N	91	27	64	47 76
P-77	101+65E @ 93+31N	90	26	64	48 56
P-78	100+96E @ 93+31N	93	28	65	48 68
P-79	101+57E @ 92+75N	82	24	58	46 83
P-80	101+95E @ 91+95N	86	24	62	47 53
P-81	101+10E @ 98+78N	105	28	77	51 86
P-82	102+35E @ 97+45N	120	31	89	73 94

Respectfully submitted,

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REPORT OF Permeability

Client England, Thims & Miller, Inc Date 9/19/97

Project Trailridge Landfill Incremental Closure
Jacksonville, Florida
LAW Project No 40562-7-3268

The soil samples listed below were tested for Permeability (ASTM D5084) The results of these tests are as follows

Sample Identification	LOCATION	Coeffiecient of Permeability (cm/sec)
P-83	100+95E @ 96+53N	2.1×10^{-8}
P-84	101+55E @ 94+35N	1.1×10^{-8}
P-85	102+20E @ 92+80N	4.2×10^{-8}
* P-86	100+98E @ 91+73N	1.3×10^{-6}
P-86A	100+98E @ 91+73N	4.7×10^{-9}

* Failed - See Retest P-86A

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

~~Bryant B~~ Wildes
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REPORT OF Soil Testing

Client England, Thims & Miller, Inc Date 9/19/97

Project Trailridge Landfill Incremental Closure LAW Project No 40562-7-3268
Jacksonville, Florida

The soil samples listed below were tested for Atterberg Limits (ASTM D-4318) and Percent Fines (ASTM D-1140) The results are as follows

SAMPLE NO	LOCATION	LIQUID LIMIT %	PLASTIC LIMIT %	PLASTICITY INDEX %	PERCENT FINES
P-83	100+95E @ 96+53N	110	30	80	56 67
P-84	101+55E @ 94+35N	75	25	50	40 44
P-85	102+20E @ 92+80N	82	26	56	44 50
P-86	100+98E @ 91+73N	77	24	53	44 95

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

Bryant B Wildes
Chief Engineering Technician

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TOP SOIL LAYER

The top soil material was manufactured from sandy soil and peat Both materials were transported from off site and mixed on site The locations and results of the thickness measurements, organic content and pH for the top soil (vegetative cover) are included in this section

I have reviewed the documentation and test data of the Quality Control Monitor and based upon that data, find that the construction is substantially in accordance with the Quality Assurance / Quality Control Plan

James A Horton, P E.
Registered, FL 23315

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TOP SOIL LAYER DATA SHEET

CLIENT England, Thims & Miller, Inc.
PROJECT Trail Ridge Landfill Incremental Closure
PROJECT NO 40562-7-3268

Date	Location Station	Depth or Elevation	Thickness (Inches)	Vegetative Cover Sample No	pH	Percent Organics
7/16/97	126+00E@95+50N	Top of Vegetative Cover	28	VC-1	6 2	3 6
7/16/97	125+20E@95+50N	Top of Vegetative Cover	27	VC-1	6 2	3 6
7/16/97	124+55E@95+60N	Top of Vegetative Cover	24	VC-1	6 2	3 6
7/16/97	125+90E@94+25N	Top of Vegetative Cover	24	VC-1	6 2	3 6
7/16/97	126+10E@93+35N	Top of Vegetative Cover	27	VC-1	6 2	3 6
7/16/97	125+90E@92+75N	Top of Vegetative Cover	24	VC-1	6 2	3 6
7/16/97	126+00E@90+85N	Top of Vegetative Cover	28	VC-1	6 2	3 6
7/16/97	126+10E@89+20N	Top of Vegetative Cover	29	VC-1	6 2	3 6
7/16/97	126+00E@88+10N	Top of Vegetative Cover	28	VC-1	6 2	3 6
7/17/97	125+20E@90+30N	Top of Vegetative Cover	26	VC-2	5 9	1 5
7/23/97	125+50E@89+10N	Top of Vegetative Cover	25	VC-2	5 9	1 5
7/23/97	125+55E@88+30N	Top of Vegetative Cover	24	VC-2	5 9	1 5
7/23/97	125+40E@91+50N	Top of Vegetative Cover	24	VC-2	5 9	1 5
7/24/97	125+20E@93+25N	Top of Vegetative Cover	24	VC-2	5 9	1 5
7/25/97	125+30E@94+55N	Top of Vegetative Cover	25	VC-2	5 9	1 5
7/25/97	124+40E@94+80N	Top of Vegetative Cover	30	VC-2	5 9	1 5
7/22/97	124+25E@94+00N	Top of Vegetative Cover	26	VC-3	6 0	1 7
7/25/97	123+00E@95+00N	Top of Vegetative Cover	25	VC-3	6 0	1 7
7/25/97	122+85E@95+85N	Top of Vegetative Cover	26	VC-3	6 0	1 7
7/25/97	124+65E@92+95N	Top of Vegetative Cover	24	VC-3	6 0	1 7
8/19/97	122+80E@94+40N	Top of Vegetative Cover	24	VC-4	6 4	1 7
8/19/97	122+00E@95+60N	Top of Vegetative Cover	28	VC-4	6 4	1 7
8/19/97	123+65E@93+60N	Top of Vegetative Cover	25	VC-4	6 4	1 7
8/19/97	123+85E@92+85N	Top of Vegetative Cover	24-1/2	VC-4	6 4	1 7
8/23/97	112+00E@99+05N	Top of Vegetative Cover	29	VC-5	5 9	3 1
8/26/97	110+65E@99+05N	Top of Vegetative Cover	31	VC-5	5 9	3 1
8/26/97	112+95E@98+85N	Top of Vegetative Cover	29	VC-5	5 9	3 1

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TOP SOIL LAYER DATA SHEET

CLIENT England, Thims & Miller, Inc.
PROJECT Trail Ridge Landfill Incremental Closure
PROJECT NO 40562-7-3268

Date	Location Station	Depth or Elevation	Thickness (Inches)	Vegetative Cover Sample No	pH	Percent Organics
8/27/97	104+35E@99+10N	Top of Vegetative Cover	28	VC-6	6 1	6 9
8/28/97	105+80E@99+00N	Top of Vegetative Cover	27	VC-6	6 1	6 9
8/28/97	104+20E@99+30N	Top of Vegetative Cover	29	VC-6	6 1	6 9
8/28/97	102+75E@99+05N	Top of Vegetative Cover	32	VC-6	6 1	6 9
8/29/97	112+30E@98+15N	Top of Vegetative Cover	28	VC-7	6 5	2 3
9/2/97	112+75E@98+30N	Top of Vegetative Cover	28	VC-7	6 5	2 3
9/2/97	110+90E@98+10N	Top of Vegetative Cover	24	VC-7	6 5	2 3
8/29/97	105+45E@98+30N	Top of Vegetative Cover	27	VC-8	6 2	2 5
9/2/97	106+40E@98+30N	Top of Vegetative Cover	25	VC-8	6 2	2 5
9/2/97	103+15E@98+50N	Top of Vegetative Cover	24	VC-8	6 2	2 5
9/5/97	91+75N@124+70E	Top of Vegetative Cover	26	VC-9	6 0	3 6
9/5/97	90+95N@124+60E	Top of Vegetative Cover	28	VC-9	6 0	3 6
9/5/97	90+90N@124+55E	Top of Vegetative Cover	25	VC-9	6 0	3 6
9/5/97	89+20N@124+80E	Top of Vegetative Cover	24	VC-9	6 0	3 6
9/8/97	113+00E@97+40N	Top of Vegetative Cover	26	VC-10	6 1	4 1
9/8/97	112+00E@97+55N	Top of Vegetative Cover	26	VC-10	6 1	4 1
9/8/97	111+00E@97+60N	Top of Vegetative Cover	25	VC-10	6 1	4 1
9/16/97	100+95E@98+85N	Top of Vegetative Cover	28	VC-11	6 1	2 7
9/16/97	100+78E@96+93N	Top of Vegetative Cover	27-1/2	VC-11	6 1	2 7
9/16/97	100+65E@94+35N	Top of Vegetative Cover	27	VC-11	6 1	2 7
9/16/97	100+85E@92+75N	Top of Vegetative Cover	28	VC-11	6 1	2 7
9/16/97	100+85E@91+40N	Top of Vegetative Cover	26-1/2	VC-11	6 1	2 7
9/18/97	103+05E@97+67N	Top of Vegetative Cover	26	VC-12	6 0	3 7
9/18/97	102+20E@97+48N	Top of Vegetative Cover	25	VC-12	6 0	3 7
9/18/97	105+22E@97+77N	Top of Vegetative Cover	27	VC-12	6 0	3 7
9/18/97	106+55E@97+40N	Top of Vegetative Cover	31	VC-12	6 0	3 7
10/1/97	101+50E@97+80n	Top of Vegetative Cover	24	VC-13	6 1	2 2

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TOP SOIL LAYER DATA SHEET

CLIENT England, Thims & Miller, Inc.
PROJECT Trail Ridge Landfill Incremental Closure
PROJECT NO 40562-7-3268

Date	Location Station	Depth or Elevation	Thickness (Inches)	Vegetative Cover Sample No	pH	Percent Organics
10/1/97	101+40E@96+60N	Top of Vegetative Cover	26	VC-13	6 1	2 2
10/1/97	101+50E@95+40N	Top of Vegetative Cover	28	VC-13	6 1	2 2
10/1/97	101+60E@94+50N	Top of Vegetative Cover	27	VC-13	6 1	2 2
10/1/97	101+40E@93+60N	Top of Vegetative Cover	27	VC-13	6 1	2 2
10/1/97	101+50E@92+70N	Top of Vegetative Cover	26	VC-13	6 1	2 2
10/1/97	101+50E@91+60N	Top of Vegetative Cover	27	VC-13	6 1	2 2
10/1/97	102+30E@97+30N	Top of Vegetative Cover	25	VC-14	6 8	7 2
10/1/97	102+20E@96+60N	Top of Vegetative Cover	24	VC-14	6 8	7 2
10/1/97	102+40E@95+40N	Top of Vegetative Cover	26	VC-14	6 8	7 2
10/1/97	102+40E@94+60N	Top of Vegetative Cover	26	VC-14	6 8	7 2
10/1/97	102+50E@93+50N	Top of Vegetative Cover	28	VC-14	6 8	7 2
10/1/97	102+35E@92+60N	Top of Vegetative Cover	29	VC-14	6 8	7 2
10/1/97	102+20E@91+30N	Top of Vegetative Cover	28	VC-14	6 8	7 2
10/2/97	100+80E@93+31N	Top of Vegetative Cover	24	VC-12	6 0	3 7

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REPORT OF Topsoil Testing

Client England, Thims & Miller Date 5/28/97

Project Trailridge Landfill Incremental Closure LAW Project No 40562-7-3268

As requested, Law Engineering and Environmental Services, Inc , (LAW) has completed percent organic and Ph testing of soil samples obtained by our field representative from on site stockpiles on December 30, 1996 The samples were tested in general accordance with ASTM D 2974 and ASTM E 70 The results are outlined below

Sample No	Location	Percent Organic	Required Percent Organic	Ph	Required Ph Limits
1	Proposed Topsoil	0 70%	1 5-10 0	7 0	5-8

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

Bryant B Wildes

Bryant B Wildes
Chief Engineering Technician

user\deltrailrid 97\topsoil

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

3901 Carmichael Avenue • P O Box 5728
Jacksonville, Florida 32207
(904) 396-5173 • Fax (904) 398-1084
ONE OF THE LAW COMPANIES

REPORT OF Organic and PH Testing

Client England, Thims & Miller Date 7/17/97

Project Trailridge Landfill Incremental Closures LAW Project No 40562-7-3268

As requested by Mr Buckley Williams, ETM, Law Engineering and Environmental Services, Inc , (LAW) has completed percent organic and Ph testng of vegetative cover material obtained by Mr Buckley Williams on July 16, 1997 The results are outlined below

Sample No	Location (Station)	Percent Organic	Ph
VC-1	95+50N @ 126+00E	3 6%	6 2

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

Bryant B Wildes
Chief Engineering Technician

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

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Jacksonville, Florida 32207
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ONE OF THE LAW COMPANIES

REPORT OF Organic and PH Testing

Client England, Thims & Miller Date 7/18/97

Project Trailridge Landfill Incremental Closures LAW Project No 40562-7-3268

As requested by Mr Buckley Williams, ETM, Law Engineering and Environmental Services, Inc , (LAW) has completed percent organic and Ph testng of vegetative cover material obtained by Mr Buckley Williams on July 17, 1997 The results are outlined below

Sample No.	Location (Station)	Percent Organic	Ph
VC-2	90+30N @ 125+20E	1 5%	5 9

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

Bryant B Wildes
Chief Engineering Technician

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

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Jacksonville, Florida 32207
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ONE OF THE LAW COMPANIES

REPORT OF Organic and PH Testing

Client England, Thims & Miller Date 7/23/97

Project Trailridge Landfill Incremental Closures LAW Project No 40562-7-3268

As requested by Mr Buckley Williams, ETM, Law Engineering and Environmental Services, Inc , (LAW) has completed percent organic and Ph testng of vegetative cover material obtained by Mr Buckley Williams on July 22, 1997 The results are outlined below

Sample No	Location (Station)	Percent Organic	Ph
VC-3	124+25E @ 94+00N	1 68%	6 0

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

Bryant B Wildes
Chief Engineering Technician

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

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Jacksonville, Florida 32207
(904) 396-5173 • Fax (904) 398-1084
ONE OF THE LAW COMPANIES

REPORT OF Organic and PH Testing

Client England, Thims & Miller Date 8/08/97

Project Trailridge Landfill Incremental Closures LAW Project No 40562-7-3268

As requested by Mr Buckley Williams, ETM, Law Engineering and Environmental Services, Inc , (LAW) has completed percent organic and Ph testing of vegetative cover material obtained by Mr John Teague (LAW) on August 6, 1997 The results are outlined below

Sample No	Location (Station)	Percent Organic	Ph
VC-4	122+80E @ 94+40N	1 68%	6 4

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

Bryant B. Wildes

Bryant B Wildes
Chief Engineering Technician

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

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Jacksonville, Florida 32207
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ONE OF THE LAW COMPANIES

REPORT OF Organic and PH Testing

Client England, Thims & Miller Date 8/27/97

Project Trailridge Landfill Incremental Closures LAW Project No 40562-7-3268

As requested by Mr Buckley Williams, ETM, Law Engineering and Environmental Services, Inc , (LAW) has completed percent organic and Ph testing of vegetative cover material obtained on August 25, 1997 The results are outlined below

Sample No	Location (Station)	Percent Organic	Ph
VC-5	112+00E @ 99+05N	3 1%	5 9

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

Bryant B Wildes
Chief Engineering Technician

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

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Jacksonville, Florida 32207
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ONE OF THE LAW COMPANIES

REPORT OF Organic and PH Testing

Client England, Thims & Miller Date 8/28/97

Project Trailridge Landfill Incremental Closures LAW Project No 40562-7-3268

As requested by Mr Buckley Williams, ETM, Law Engineering and Environmental Services, Inc , (LAW) has completed percent organic and Ph testing of vegetative cover material obtained on August 27, 1997 The results are outlined below

Sample No	Location (Station)	Percent Organic	Ph
VC-6	104+35E @ 99+10N	6 9%	6 1

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

Bryant B Wildes
Chief Engineering Technician

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

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Jacksonville, Florida 32207
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ONE OF THE LAW COMPANIES

REPORT OF Organic and PH Testing

Client England, Thims & Miller Date 9/04/97

Project Trailridge Landfill Incremental Closures LAW Project No 40562-7-3268

As requested by Mr Buckley Williams, ETM, Law Engineering and Environmental Services, Inc , (LAW) has completed percent organic and Ph testing of vegetative cover material obtained on August 29, 1997 The results are outlined below

Sample No	Location (Station)	Percent Organic	Ph
VC-7	112+30E @ 98+15N	2 3%	6 5
VC-8	105+45E @ 98+30N	2 5%	6 2

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

Bryant B. Wildes

Bryant B Wildes
Chief Engineering Technician

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

3901 Carmichael Avenue • P O Box 5728
Jacksonville, Florida 32207
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ONE OF THE LAW COMPANIES

REPORT OF Organic and PH Testing

Client England, Thims & Miller Date 9/05/97

Project Trailridge Landfill Incremental Closures LAW Project No 40562-7-3268

As requested by Mr Buckley Williams, ETM, Law Engineering and Environmental Services, Inc , (LAW) has completed percent organic and Ph testing of vegetative cover material obtained on Sept 4, 1997 The results are outlined below

Sample No	Location (Station)	Percent Organic	Ph
VC-9	124+65E @ 90+50N	3 6%	6 0

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

Bryant B Wildes
Chief Engineering Technician

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

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ONE OF THE LAW COMPANIES

REPORT OF Organic and PH Testing

Client England, Thims & Miller Date 9/08/97

Project Trailridge Landfill Incremental Closures LAW Project No 40562-7-3268

As requested by Mr Buckley Williams, ETM, Law Engineering and Environmental Services, Inc , (LAW) has completed percent organic and Ph testing of vegetative cover material obtained on Sept 5, 1997 The results are outlined below

Sample No	Location (Station)	Percent Organic	Ph
VC-10	112+20E @ 97+45N	4 1%	6 1

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

Bryant B Wildes
Chief Engineering Technician

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

3901 Carmichael Avenue • P O Box 5728
Jacksonville, Florida 32207
(904) 396-5173 • Fax (904) 398-1084
ONE OF THE LAW COMPANIES

REPORT OF Organic and PH Testing

Client England, Thims & Miller Date 9/17/97

Project Trailridge Landfill Incremental Closures LAW Project No 40562-7-3268

As requested by Mr Buckley Williams, ETM, Law Engineering and Environmental Services, Inc , (LAW) has completed percent organic and Ph testing of vegetative cover material obtained on September 16, 1997 The results are outlined below

Sample No	Location (Station)	Percent Organic	Ph
VC-11	100+85E @ 97+61N	2 7%	6 1

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

Bryant B. Wildes

Bryant B Wildes
Chief Engineering Technician

user\deVorms\3268PH

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

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ONE OF THE LAW COMPANIES

REPORT OF Organic and PH Testing

Client England, Thims & Miller Date 9/22/97

Project Trailridge Landfill Incremental Closures LAW Project No 40562-7-3268

As requested, Law Engineering and Environmental Services, Inc , (LAW) has completed percent organic and Ph testing of vegetative cover material obtained on September 17, 1997 The results are outlined below

Sample No	Location (Station)	Percent Organic	Ph
VC-12	105+25E @ 97+85N	3 7%	6 0

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

Bryant B. Wildes

Bryant B Wildes
Chief Engineering Technician

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LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

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ONE OF THE LAW COMPANIES

REPORT OF Organic and PH Testing

Client England, Thims & Miller Date 10/06/97

Project Trailridge Landfill Incremental Closures LAW Project No 40562-7-3268

As requested, Law Engineering and Environmental Services, Inc , (LAW) has completed percent organic and Ph testing of vegetative cover material obtained on October 2, 1997 The results are outlined below

Sample No	Location (Station)	Percent Organic	Ph
VC-13	96+87N @ 101+50E	2 2%	6 1
VC-14	95+00N @ 102+20E	7 2%	6 8

Respectfully submitted,

LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC

Bryant B Wildes

Bryant B Wildes
Chief Engineering Technician

user\de\forms\3268PH

LAW
ENGINEERING AND ENVIRONMENTAL SERVICES

DOWNCOMER PIPES AND UNDERDRAIN SAND

The downcomer pipes were installed and encased with clay material obtained from the borrow source operated by R B Baker Construction Information concerning the borrow source is included in the section entitled Compacted Clay layer

The locations and results of the thickness, hydraulic conductivity, percent fines, Atterberg limits, and constant head permeability test and moisture-density-relationship for the clay layer under the downcomers are included in this section

The pre-qualification of the underdrain sand as well as the constant head permeability test results for the underdrain sand are included in this section

I have reviewed the documentation and test data of the Quality Control Monitor and based upon that data, find that the construction is substantially in accordance with the Quality Assurance / Quality Control Plan

James A Horton, P E.
Registered, FL 23315

Downcomer Pipes

LOW
ENGINEERING AND ENVIRONMENTAL SERVICES
3901 Carmichael Avenue, Jacksonville, FL 32207
Phone (904) 396-5173 / Fax (904) 398-1084

TEST DATA SHEET
CLAY LAYER AT DOWNCOMER
FIRST LIFT

CLIENT England, Thims & Miller, Inc
PROJECT Trail Ridge Landfill Incremental Closure
PROJECT NO 40562-7-3268

Location[1] by Station	FDT[2] No	Percent Compaction	Moisture Content	Permeability Sample No	Coefficient of Permeability (cm/sec)	Thickness[4] (Inches)	Index[3] Sample No	% Passing No 200 Sieve	Liquid Limit	Plastic Limit	Plastic Index
123+70E@92+48N	58	91	23 5	P-14	$6\ 5x10^{-8}$	7	I-17	48 08	81	22	59
124+20E@92+48N	59	91	24 2	--	--	7	--	--	--	--	--
124+50E@92+48N	60	92	24 1	P-15	$4\ 7x10^{8}$	7	I-18	48 26	84	23	61
124+80E@92+48N	61	91	23 8	--	--	7	--	--	--	--	--
125+25E@92+48N	62	91	21 0	P-16	$9\ 9x10^{-9}$	7	I-19	45 92	75	21	54
125+55E@92+48N	63	91	21 5	--	--	7	--	--	--	--	--
126+25E@92+48N	73	93	23 0	P-21	$6\ 4x10^{-8}$	6-3/4	I-25	44 75	72	23	49
126+05E@88+80N	99	90	22 9	P-28	$9\ 7x10^{9}$	7-1/2	I-38	43 46	72	22	50
125+35E@88+80N	100	91	20 0	P-29	$9\ 7x10^{-8}$	8	I-39	47 90	80	22	58
124+55E@88+80N	101	93	20 7	P-30	$1\ 0x10^{-8}$	7	I-40	44 73	70	22	48
111+63E@97+55N	142	92	21 6	P-47	$9\ 6x10^{-9}$	7	I-72	45 06	68	23	45
111+63E@98+25N	143	90	24 2	P-48	$1\ 0x10^{-8}$	7	I-73	46 38	71	25	46
111+63E@99+10N	144A	91	18 2	P-50	$9\ 6x10^{-9}$	6	I-77	49 90	91	25	66
106+93E@97+60N	182	94	23 5	P-57	$2\ 5x10^{-8}$	10	I-90	45 32	81	25	56
106+93E@98+20N	183	93	23 2	P-58	$1\ 5x10^{-8}$	6-1/4	I-91	49 41	83	25	58
106+93E@99+10N	184	94	23 8	P-59	$9\ 9x10^{-9}$	7	I-92	48 12	88	26	62
102+08E@93+31N	230	98	22 5	P-73	$9\ 5x10^{-9}$	7	I-118	48 72	96	30	66
101+30E@93+31N	231	94	24 6	P-74	$2\ 0x10^{8}$	7-1/4	I-119	48 57	97	28	69
100+90E@93+31N	232	94	26 3	P-75	$1\ 0x10^{8}$	7	I-120	52 62	106	30	76

Notes 1 Locations are based upon the local grid coordinates
2 Field Density Test Numbers are included for reference to test data in Appendix A
3 Sample Numbers are included for reference to hydraulic conductivity test data or the index test data on the reports included later in this section
4 Thickness is measured to the nearest 1/4-inch

LOW
ENGINEERING AND ENVIRONMENTAL SERVICES
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Phone (904) 396-5173 / Fax (904) 398-1084

TEST DATA SHEET

CLAY LAYER AT DOWNCOMER

SECOND LIFT

CLIENT England, Thims & Miller, Inc

PROJECT Trail Ridge Landfill Incremental Closure

PROJECT NO 40562-7-3268

Location[1] by Station	FDT[2] No	Percent Compaction	Moisture Content	Permeability Sample No	Coefficient of Permeability (cm/sec)	Thickness[4] (Inches)	Index[3] Sample No	% Passing No 200 Sieve	Liquid Limit	Plastic Limit	Plastic Index
125+60E@92+48N	64A	92	22 0	P-17	$4\ 7x10^{-9}$	13	I-20	45 49	72	23	49
125+20E@92+48N	65	91	22 5	--	--	13	--	--	--	--	--
124+80E@92+48N	66	93	23 1	P-18	$5\ 1x10^{-9}$	14	I-21	48 41	83	22	61
124+45E@92+48N	67	93	23 5	--	--	15	--	--	--	--	--
124+00E@92+48N	68	96	20 4	--	--	15	--	--	--	--	--
123+60E@92+48N	69	94	24 2	P-19	$5\ 1x10^{-9}$	14	I-22	43 68	84	23	61
126+10E@92+48N	96	95	19 8	P-27	$9\ 5x10^{-9}$	13	I-37	44 12	76	22	54
126+20E@88+80N	106	96	20 2	P-33	$2\ 0x10^{-8}$	12	I-45	39 68	67	21	46
125+30E@88+80N	107	95	17 3	P-34	$9\ 5x10^{-9}$	12	I-46	48 60	86	23	63
124+60E@88+80N	108	97	17 8	P-35	$9\ 8x10^{-9}$	12-1/2	I-47	44 91	76	20	56
111+63E@97+35N	147	96	18 1	P-49	$2\ 1x10^{-8}$	13-1/4	I-76	35 81	57	21	36
111+63E@98+30N	148A	94	16 7	P-51	$4\ 4x10^{-9}$	13	I-78	48 62	106	26	80
111+63E@99+10N	170	92	25 1	P-55	$9\ 6x10^{-9}$	13	I-85	51 04	92	26	66
106+93E@97+70N	187	90	25 1	P-61	$9\ 4x10^{-9}$	18	I-95	50 22	95	29	66
106+93E@98+45N	188	92	24 7	P-62	$9\ 8x10^{-9}$	15	I-96	56 87	98	32	66
106+93E@99+00N	189	93	25 4	P-63	$1\ 5x10^{-8}$	12-1/2	I-97	53 44	103	30	73
102+42E@93+31N	233	93	25 0	P-76	$1\ 0x10^{-8}$	13	I-121	47 76	91	27	64
101+65E@93+31N	234	94	25 7	P-77	$1\ 0x10^{-8}$	12-1/2	I-122	48 56	90	26	64
100+96E@93+31N	235	95	25 2	P-78	$1\ 1x10^{-8}$	14	I-123	48 68	93	28	65

Notes 1 Locations are based upon the local grid coordinates
2 Field Density Test Numbers are included for reference to test data in Appendix A
3 Sample Numbers are included for reference to hydraulic conductivity test data or the index test data on the reports included later in this section
4 Thickness is measured to the nearest 1/4-inch

Underdrain Sand

LAW
ENGINEERING AND ENVIRONMENTAL SERVICES
3901 Carmichael Avenue, Jacksonville, FL 32207
Phone (904) 396-5173 / Fax (904) 398-1084

Report of Constant Head Permeability Testing

CLIENT England, Thims & Miller, Inc
PROJECT Trail Ridge Landfill Incremental Closure
PROJECT NO 40562-7-3268

Sample No (Load No)	UFS-1	UFS-2	UFS-3	UFS-4	UFS-5	UFS-6	UFS-7	UFS-8
Location of Samples	Load 1-stockpile	Load 2-stockpile	Load 3-stockpile	Load 4-stockpile	Load 5-stockpile	Load 6-stockpile	Load 7-stockpile	Load 8-stockpile
Permeameter No	7	4	7	7	7	7	7	7
Maximum Dry Density of Sample (lbs/cu ft)	107 8	107 8	107 8	107 8	107 8	107 8	107 8	107 8
Weight Permeameter and Sample (gr)	1237 0	1236 0	1215 9	1222 7	1225 7	1220 0	1226 3	1227 4
Weight Permeameter (gr)	627 1	657 8	625 1	625 9	625 7	625 9	625 4	625 6
Permeameter Volume (cubic ft)	0 0109	0 0103	0 0109	0 0109	0 0109	0 0109	0 0109	0 0109
Sample Weight (gr)	609 9	578 2	590 8	596 8	600 0	594 1	600 9	601 8
Sample Wet Density (lbs/cu ft)	123 4	123 8	119 5	120 7	121 4	120 2	121 5	121 7
Wet Weight	259 4	451 7	249 1	237 5	247 8	216 2	200 0	200 0
Dry Weight	227 1	393 6	223 9	211 3	221 1	193 0	176 6	177 2
Sample Moisture Content (%)	14 2	14 7	11 3	12 4	12 1	12 0	13 3	12 9
Sample Dry Density (lbs/cu ft)	108 0	107 9	107 4	107 4	108 3	107 3	107 3	107 8
Percent Compaction (max 100 9) (%)	100	100	100	100	100	100	100	100
Area of Sample (sq cm)	21 29	21 09	21 29	21 29	21 09	21 29	21 09	21 09
Water Discharge (ml)	60 0	63 0	53 2	60 0	58 0	55 0	55 3	52 4
Time of Discharge (sec)	60 0	60 0	60 0	60 0	60 0	60 0	60 0	60 0
Distance Between Manometers (In)	2 75	2 75	2 75	2 75	2 75	2 75	2 75	2 75
Difference in Head (In)	2 5	2 4	2 6	1 5	1 3	1 1	1 4	1 6
Coefficient of Permeability	5 2E-02	5 7E-02	4 4E-02	8 6E-02	9 7E-02	1 1E-01	8 6E-02	7 1E-02

THE Feldspar CORPORATION

A subsidiary of ZEMEX Corporation

EPK Clay Division
Post Office Box 8, Edgar, FL 32049
(904) 481-2421 FAX (904) 481-2334

☒ NO EXCEPTION TAKEN ☐ MAKE CORRECTIONS NOTED
☐ REJECTED ☐ REVISE AND RESUBMIT
☐ SUBMIT SPECIFIED ITEM

Check is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of his work with that of all other trades and the safety precautions and programs in connection with the work.

BY: CLOUD, THIF S & MILLER, INC
Date 5/16/97
By Juanita Bodenheimer

#2 FWA GRADE SAND

(FINE WHITE AGGREGATE SAND)

SUGGESTED
USES INCLUDE

- FILTER SAND - UNDER DRAIN
- BLOCK MANUFACTURING SAND
- SELECTED CONCRETE MIXER-SAND

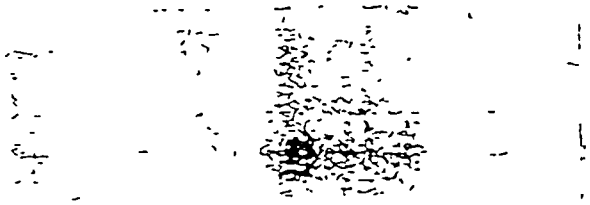
SCREEN ANALYSIS

SEIVE NO.	% PASSING
4	100 0
6	99.3
8	97 9
16	79 8
20	62.9
30	48.0
40	37 4
50	30.1
70	21.8
100	5.5
140	0.7

EFFECTIVE SIZE 0.17

UNIFORMITY COEFFICIENT 4.59

PERCULATION RATE 130 FT. PER DAY



MOISTURE CONTENT: 2-5%

MEETS D.O.T
SPECIFICATION 902-1.3

The information and data contained herein are believed to be accurate The Feldspar Corporation makes no guarantee or warranty whatsoever for fitness for a particular purpose, either alone or in combination with any other material(s) or in any process

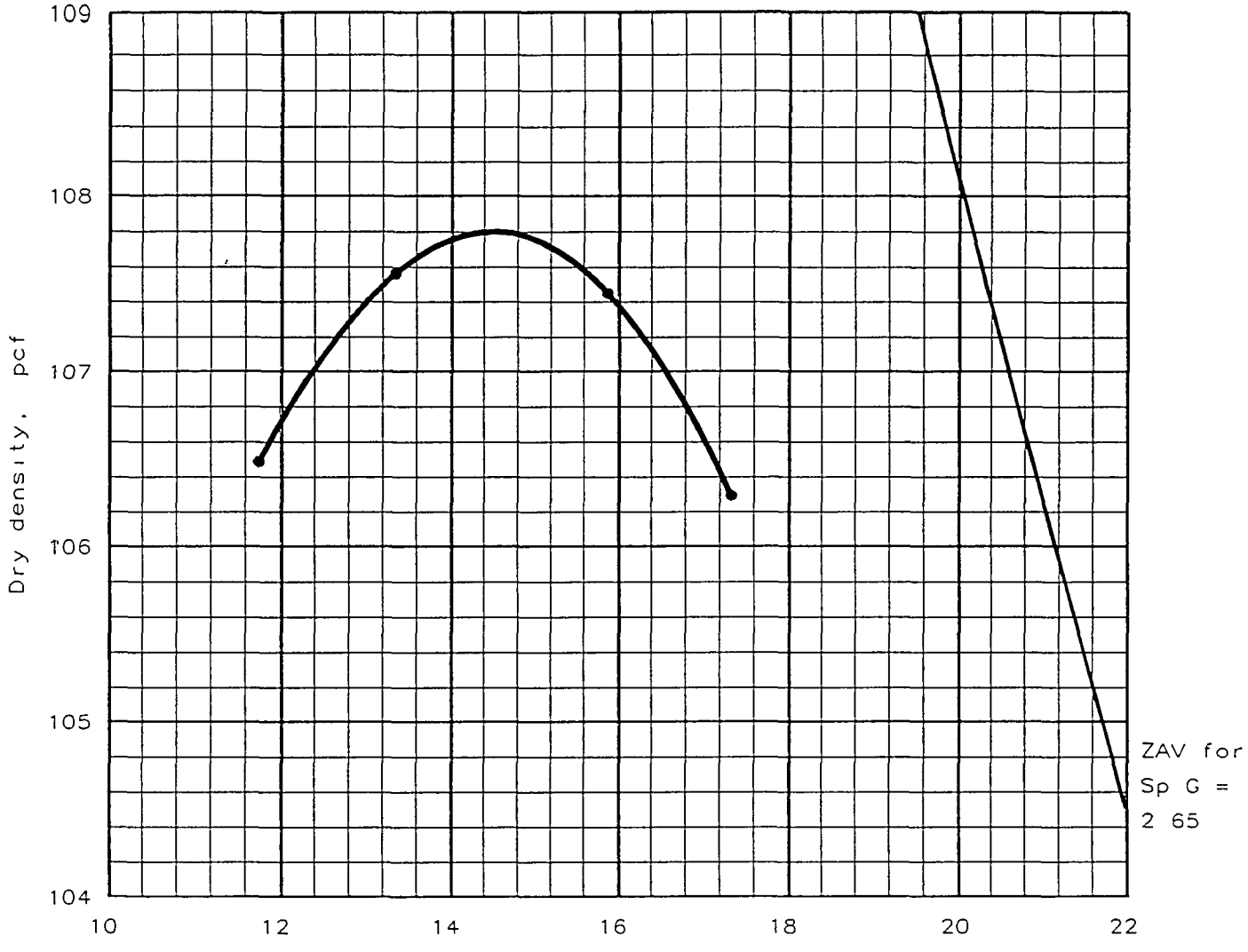
Warning: This product contains free silica (quartz) Repeated and prolonged inhalation of dust in excess of TLV-TWA may cause delayed lung injury (silicosis) Refer to Material Data Safety Sheet and applicable OSHA/MSHA/NIOSH health standards for silica dust.

B P 1-88

771-6112

SUBMITTAL NO. 06

MOISTURE-DENSITY RELATIONSHIP TEST



Test specification ASTM D 1557-91 Procedure A, Modified

Elev/ Depth	Classification		Nat Moist	Sp G	LL	PI	% > No 4	% < No 200
	USCS	AASHTO						
	SP	A-1-b					0 4 %	0 0 %

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 107 8 pcf Optimum moisture = 14 5 %	Light Tan Medium SAND

Project No 40562-7-3268
Project TrailRidge Landfill Incremental Closure
Client England Thims & Miller, Inc
Location On-Site Stockpile

Date 7-21-97

Remarks

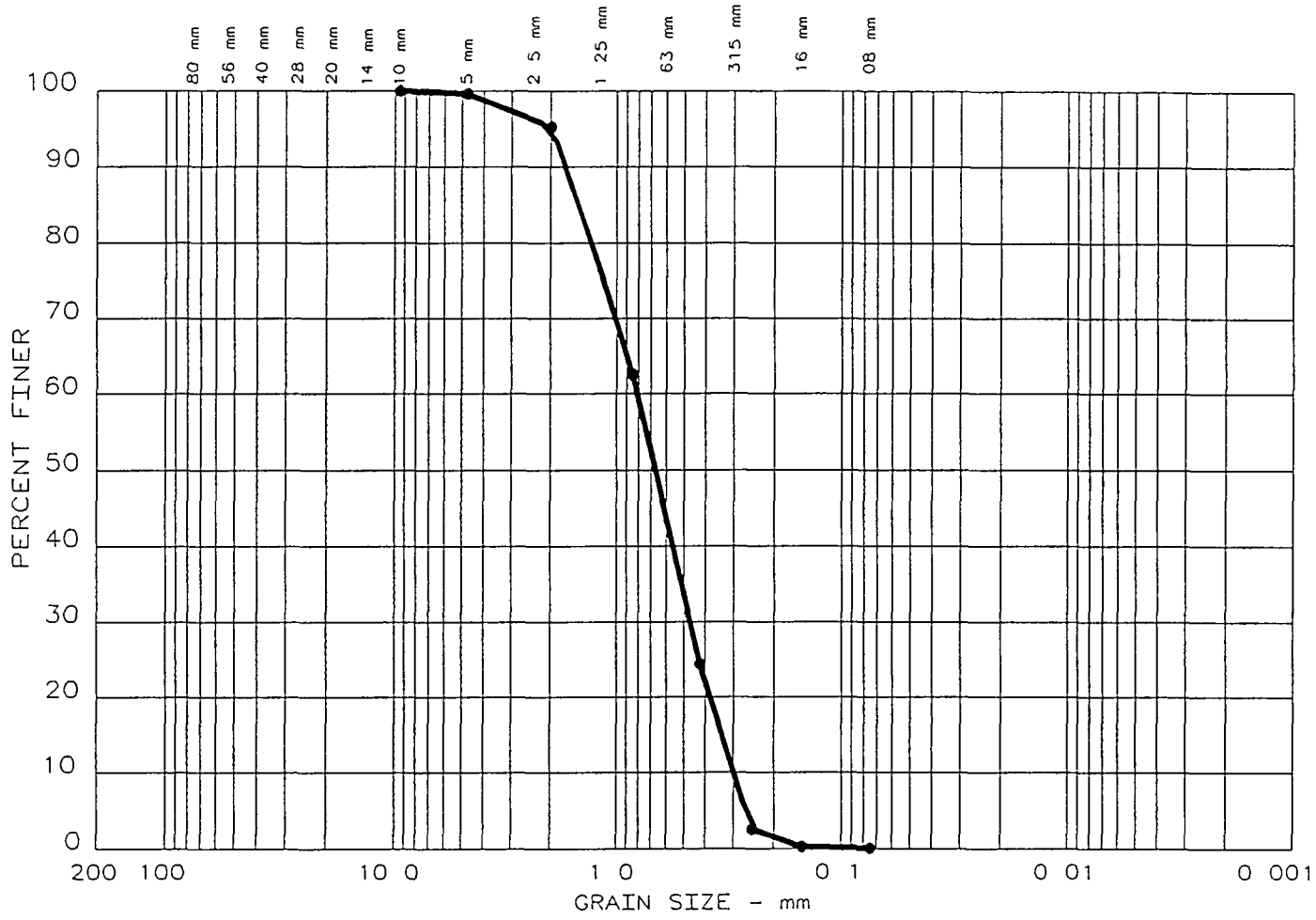
Proctor No UFS-1

MOISTURE-DENSITY RELATIONSHIP TEST

LAW ENGINEERING INC.

Reviewed By Bryant B. Wilder

GRAIN SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
•	0 0	0 4	99 6	0 0	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
•			1 50	0 808	0 670	0 469	0 338	0 300	0 91	2 7

MATERIAL DESCRIPTION	USCS	AASHTO
• Light Tan Medium to Fine SAND	SP	A-1-b

Project No 40562-7-3268
Project TrailRidge Incremental Closure
Client England Thims & Miller
• Location Underdrain Filter Sand

Date 7-21-97

Remarks

Sample No UFS-1

GRAIN SIZE DISTRIBUTION TEST REPORT

LAW ENGINEERING

Reviewed By Bryant B Wilder

LAW
ENGINEERING AND ENVIRONMENTAL SERVICES

GAS VENTS

The gas vents were drilled and installed by Koda Drilling, Inc The pre-qualification of the gravel and bentonite as well as the certification of the drillers are included in this section Also included in this section are the grain size distribution tests on the gravel used in the installation of the gas vents and the gas vent construction logs as prepared by the installer Temporary flares, Landfill Technology Model CF-5 have been installed on the gas wells during this closure

I have reviewed the documentation and test data of the Quality Control Monitor and based upon that data, find that the construction is substantially in accordance with the Quality Assurance / Quality Control Plan

James A. Horton, P E
Registered, FL 23315

CONRAD YELVINGTON
DISTRIBUTORS, INC

April 22, 1997

Note: This material is acceptable and the specs have been modified to require a FDOT No. 3 stone

Jay McMahan
R B Baker
4221 Baymeadows Road
Jacksonville, FL 32217
TEL 912/964-6513
FAX 912/964-6531

Dear Mr Baker

Ref Modified #4 Granite Specifications for the Trailridge Landfill, Maxville, Florida

This is to inform you on our modified #4 Granite material complies with non-calcareous requirements A typical gradation and physical properties are as follows,

SIEVE SIZE	% PASSING MOD #4
3"	100
1/2"	100
2"	92
1 1/2"	57
1"	10
3/4"	5
1/2"	<2

Specific Gravity - maximum 2 68
Absorption - <2%
Sodium Soundness Sulfate Loss <3%
LA Abrasion 18
Unit Weight - 165 lbs cu ft

Should you have any questions, please contact me at your earliest convenience

Sincerely

CONRAD YELVINGTON DIST , INC

Kim Thompson
Director of Technical Services/
Corporate Sales Manager

☒ NO EXCEPTION TAKEN ☒ MAKE CORRECTIONS NOTED
☐ REJECTED ☐ REVISE AND RESUBMIT
☐ SUBMIT SPECIFIED ITEM

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents Any action shown is subject to the requirements of the plans and specifications Contractor is responsible for Dimensions which shall be confirmed and correlated at the job site Fabrication processes and techniques of construction coordination of his work with that of all other trades and safety precautions are the sole responsibility of the Contractor This review shall not relieve the Contractor of his responsibility for errors or omissions in the Shop Drawings or in Contract Documents

E [illegible] & MILLER INC
Date 5/8/97
By Jeanitta Bader

KRUAKER.MM

SUBMITTAL NO. GW3

Baroid Industrial Drilling Products

HOLEPLUG®

Graded Bentonite

Baroid's HOLEPLUG® size-graded bentonite is a naturally-occurring clay which is used to seal and plug earthen boreholes. HOLEPLUG is mined from specially-selected ore bodies which exhibit a high swell capability, but at a slower rate than drilling mud grade bentonite. HOLEPLUG will fall through a column of water standing in the hole and reach the bottom of the hole with minimum hydration or water swelling. Complete fill of the annular space can be achieved, and bridging of the particles in the upper hole is minimized. Complete fill of the annular space is necessary to form an effective, long-term plug in compliance with environmental regulatory requirements.

HOLEPLUG is available in two particle size grades:

- HOLEPLUG 3/4" (100% of particles pass through 3/4" screen; all particles retained on 3/8" screen)
- HOLEPLUG 3/8" (100% of particles pass through 3/8" screen, all particles retained on 1/4" screen).

The size of the open annular space will determine which size should be used. When the annular space is 3/4" or more, HOLEPLUG 3/8" should be used When the annular space is 1-1/2" or more, HOLEPLUG 3/4" should be used

Major Advantages:

- Prevents entry of surface water into boreholes
- Prevents vertical movement of fluids in the hole between porous zones
- Forms a permanent, flexible downhole seal
- Facilitates pipe recovery
- Allows hole reentry
- Superior alternative to pelletized bentonite due to easier application
- Simple to apply and no mixing expense
- Weatherproof, easy-to-open packaging
- More cost-effective compared to pelletized bentonite

Recommended Uses:

- Highly recommended for environmental monitoring well applications
- Sealing outside casing annulus
- Sealing above gravel packs
- Plugging decommissioned bore holes
- Sealing around conductor pipe
- Sealing lost circulation zones
- Shutting off artesian wells

NOTE

This product has been certified by the National Sanitation Foundation (NSF) to contribute no adverse health problems to ground water when used as the manufacturer recommends for the construction of potable water wells.

EXCEPTIONS TAKEN
REJECTED
REVISE AND
RESUBMIT
Other comments: Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for Dimensions which shall be confirmed and correlated at the job site, fabrication processes and techniques of construction, coordination of his work with that of all other trades and the satisfactory performance of his work
ENGLAND, THIMS & MILLER, INC
Date 5/8/97
By Juanita Baden

SUBMITTAL NO. GW2

Physical Characteristics:

Bulk Density, uncompacted

HOLEPLUG 3/4"	71 8 lb/ft³
HOLEPLUG 3/8"	68 8 lb/ft³
Moisture	17%
Permeability of resulting plug	
	K = 1.5 x 10⁻⁵ cm/sec
Appearance	beige to tan powder
Specific Gravity	2.5 to 2.6

Mineralogical Analysis (x-ray diffraction) – (typical Wyoming bentonite)

85%	Montmorillonite
5%	Quartz
5%	Feldspars
2%	Cristobalite
2%	Illite
1%	Calcium and Gypsum

Chemical Analysis (typical)

SiO_2	55 44%
Al_2O_3	20 14%
Fe_2O_3	3 67%
CaO	0 49%
MgO	2 49%
Na_2O	2.76%
K_2O	0 60%
Bound water	5.50%
Moisture (@ 220°F)	8 00%
TOTAL	99 09%

Environmental Information:

HOLEPLUG graded bentonite is a natural, unaltered mineral with no added chemicals or contaminants HOLEPLUG does not spoil or ferment

HOLEPLUG graded bentonite is environmentally safe and complies with the EPA's protocol for TCLP (toxicity characterization leaching procedure) Lab report available on request.

HOLEPLUG graded bentonite is non-toxic (96-hour LC_{50} on *Mysidopsis bahia* is greater than 100,000 ppm)

Packaging:

HOLEPLUG graded bentonite is packaged in multiwall paper bags containing 50 pounds (22.7 kg).

Availability:

HOLEPLUG may be purchased through Baroid Service Centers or from QUIK-GEL® Distributors

Because the conditions of use of this product are beyond seller's control, the product is sold without warranty either express or implied and upon condition that purchaser make its own tests to determine the suitability for purchaser's application Purchaser assumes all risk of use and handling of this product This product will be replaced if defective in manufacture or packaging or if damaged. Except for such replacement, seller is not liable for any damages caused by this product or its use. The statements and recommendations made herein are believed to be accurate No guarantee of their accuracy is made, however.

Baroid Drilling Fluids, Inc.
P O Box 1675
Houston, Texas 77251
Customer Service (713) 987-4547

Baroid Drilling Fluids, Inc.
410 17th St , Suite 1870
Denver, Colorado 80202
(303) 825-5712

®BAROID HOLEPLUG and QUIK-GEL are registered trademarks of Baroid Technology, Inc.
Copyright © 1992, Baroid Drilling Fluids, Inc.

Rev 9/92 HDF-006
Printed in U.S.A.

Certificate of Completion

Health and Environmental Technology Center

(formerly Oklahoma Asbestos / Safety Training Center)

a service of Moore-Norman Area Vocational Technical Center,

600 West Rock Creek Road, Norman, OK 73069 (405) 364-5763 ext. 337

This is to certify that

MARTY WEDER

has completed the

HAZARDOUS WASTE OPERATIONS EMERGENCY RESPONSE

"HAZWOPER"

8 HOUR REFRESHER COURSE

In Accordance with OSHA Regulation 29CFR1910.120 (c)

935316

and has passed all applicable written and practical examinations

Frank L. Coulter

Superintendent

Tom Kennedy

Assistant Superintendent

Program Coordinator

COURSE DATE: SEPTEMBER 11, 1996

MAY 8 1997 15:42 02PM K & BAKER CONSTRUCT
8174618711 KODA DRILLING PAGE 03

Certificate of Completion

Health and Environmental Technology Center

(formerly Oklahoma Asbestos / Safety Training Center)

a service of Moore-Norman Area Vocational Technical Center

600 West Rock Creek Road, Norman, OK 73069 (405) 364-5763 ext. 337

This is to certify that

TONY STYLES

has completed the

HAZARDOUS WASTE OPERATIONS EMERGENCY RESPONSE

"HAZWOPER"

Initial 40 Hour Training Course

In Accordance with OSHA Regulation 29CFR1910.120 (e)

931204

and has passed all applicable written and practical examinations

Frank L Cantler

Superintendent

Tom Kennedy

Assistant Superintendent

Program Coordinator

COURSE DATES: September 9-13, 1996

MAY. 8. 1997 5:47 01PM R B BAKER CONSTRUCT NO.290 P 3
8/MAY/97 15:47 01PM 3174618711 KODA DRILLING PAGE 02

GAS EXTRACTION WELL NO 5
CONSTRUCTION LOG

Trail Ridge Landfill

Drilling Date 5-13-97 (Start)
5-13-97 (Finish)
Drilling Contractor Koda Drilling, Inc
Name of Driller M Weder

Gas Well No GW-5

Gas Well Coordinates 97+24 97 (N)
112+52 69 (E)

Final Ground Surface Elevation 205 8

Total Depth of Borehole 58 8' (Below ground surface)

Length of Solid Pipe 3 0' Above Ground
29 8' Below Ground

Length of Slotted Pipe 28 5'

Amount of Gravel 8 CY

Borehole Diameter 36 inch

Well Pipe Diameter 8 inch

Well Pipe Material CPVC SCH 80

Depth of Backfill Materials* 25 8'

Refuse Temperature during Drilling 102° - 130° F

Notes Drilling and installation observed by QC Monitor

* Includes Final Cover

Log Approved By Richard Curtis

GAS EXTRACTION WELL NO 8
CONSTRUCTION LOG

Trail Ridge Landfill

Drilling Date 5-13-97 (Start)
5-13-97 (Finish)
Drilling Contractor Koda Drilling, Inc
Name of Driller M Weder

Gas Well No GW-8

Gas Well Coordinates 97+38 40 (N)
104+91 75 (E)

Final Ground Surface Elevation 207 2

Total Depth of Borehole 53 2' (Below ground surface)

Length of Solid Pipe 3 0' Above Ground
27 2' Below Ground

Length of Slotted Pipe 25 5'

Amount of Gravel 7 4 CY

Borehole Diameter 36 inch

Well Pipe Diameter 8 inch

Well Pipe Material CPVC SCH 80

Depth of Backfill Materials* 26 7'

Refuse Temperature during Drilling 90° - 130° F

Notes Drilling and installation observed by QC Monitor

* Includes Final Cover

Log Approved By Richard Weeks

GAS EXTRACTION WELL NO 9
CONSTRUCTION LOG

Trail Ridge Landfill

Drilling Date 5-14-97 (Start)
5-14-97 (Finish)
Drilling Contractor Koda Drilling, Inc
Name of Driller M Weder

Gas Well No GW-9

Gas Well Coordinates 97+25 20 (N)
102+71 65 (E)

Final Ground Surface Elevation 212 8

Total Depth of Borehole 56 8' (Below ground surface)

Length of Solid Pipe 3 0' Above Ground
29 8' Below Ground

Length of Slotted Pipe 26 5'

Amount of Gravel 7 5 CY

Borehole Diameter 36 inch

Well Pipe Diameter 8 inch

Well Pipe Material CPVC SCH 80

Depth of Backfill Materials* 32 3'

Refuse Temperature during Drilling 90° - 130° F

Notes Drilling and installation observed by QC Monitor

* Includes Final Cover

Log Approved By Richard Austin

GAS EXTRACTION WELL NO 10
CONSTRUCTION LOG

Trail Ridge Landfill

Drilling Date 5-14-97 (Start)
5-14-97 (Finish)
Drilling Contractor Koda Drilling, Inc
Name of Driller M Weder

Gas Well No GW-10

Gas Well Coordinates 94+92 90 (N)
102+49 35 (E)

Final Ground Surface Elevation 209 2

Total Depth of Borehole 50 2' (Below ground surface)

Length of Solid Pipe 3 0' Above Ground
25 2' Below Ground

Length of Slotted Pipe 24 5'

Amount of Gravel 7 35 CY

Borehole Diameter 36 inch

Well Pipe Diameter 8 inch

Well Pipe Material CPVC SCH 80

Depth of Backfill Materials* 25 7'

Refuse Temperature during Drilling 100° - 150° F

Notes Drilling and installation observed by QC Monitor

* Includes Final Cover

Log Approved By

GAS EXTRACTION WELL NO 17
CONSTRUCTION LOG

Trail Ridge Landfill

Drilling Date 5-14-97 (Start)
5-15-97 (Finish)
Drilling Contractor Koda Drilling, Inc
Name of Driller M Weder

Gas Well No GW-17

Gas Well Coordinates 94+79 89 (N)
123+01 40 (E)

Final Ground Surface Elevation 189 0

Total Depth of Borehole 50 0' (Below ground surface)

Length of Solid Pipe 3 0' Above Ground
25 0' Below Ground

Length of Slotted Pipe 24 5'

Amount of Gravel 7 3 CY

Borehole Diameter 36 inch

Well Pipe Diameter 8 inch

Well Pipe Material CPVC SCH 80

Depth of Backfill Materials* 23 0'

Refuse Temperature during Drilling 103° - 155° F

Notes Drilling and installation observed by QC Monitor

* Includes Final Cover

Log Approved By

GAS EXTRACTION WELL NO 18
CONSTRUCTION LOG

Trail Ridge Landfill

Drilling Date 5-15-97 (Start)
5-15-97 (Finish)
Drilling Contractor Koda Drilling, Inc
Name of Driller M Weder

Gas Well No GW-18

Gas Well Coordinates 92+96 85 (N)
124+33 75 (E)

Final Ground Surface Elevation 190 3

Total Depth of Borehole 50 3' (Below ground surface)

Length of Solid Pipe 3 0' Above Ground
25 3' Below Ground

Length of Slotted Pipe 24 5'

Amount of Gravel 7 0 CY

Borehole Diameter 36 inch

Well Pipe Diameter 8 inch

Well Pipe Material CPVC SCH 80

Depth of Backfill Materials* 24 8'

Refuse Temperature during Drilling 120° - 145° F

Notes Drilling and installation observed by QC Monitor

* Includes Final Cover

Log Approved By

GAS EXTRACTION WELL NO 25
CONSTRUCTION LOG

Trail Ridge Landfill

Drilling Date 5-14-97 (Start)
5-14-97 (Finish)
Drilling Contractor Koda Drilling, Inc
Name of Driller M Weder

Gas Well No GW-25

Gas Well Coordinates 92+55 31 (N)
102+45 78 (E)

Final Ground Surface Elevation 208 6

Total Depth of Borehole 47 1' (Below ground surface)

Length of Solid Pipe 3 0' Above Ground
23 1' Below Ground

Length of Slotted Pipe 23 5'

Amount of Gravel 6 7 CY

Borehole Diameter 36 inch

Well Pipe Diameter 8 inch

Well Pipe Material CPVC SCH 80

Depth of Backfill Materials* 25 1'

Refuse Temperature during Drilling 120° - 145° F

Notes Drilling and installation observed by QC Monitor

* Includes Final Cover

Log Approved By

GAS EXTRACTION WELL NO 35
CONSTRUCTION LOG

Trail Ridge Landfill

Drilling Date 5-15-97 (Start)
5-15-97 (Finish)
Drilling Contractor Koda Drilling, Inc
Name of Driller M Weder

Gas Well No GW-35

Gas Well Coordinates 90+73 85 (N)
124+33 01 (E)

Final Ground Surface Elevation 189 9

Total Depth of Borehole 51 9' (Below ground surface)

Length of Solid Pipe 3 0' Above Ground
25 9' Below Ground

Length of Slotted Pipe 25 5'

Amount of Gravel 7 3 CY

Borehole Diameter 36 inch

Well Pipe Diameter 8 inch

Well Pipe Material CPVC SCH 80

Depth of Backfill Materials* 25 4'

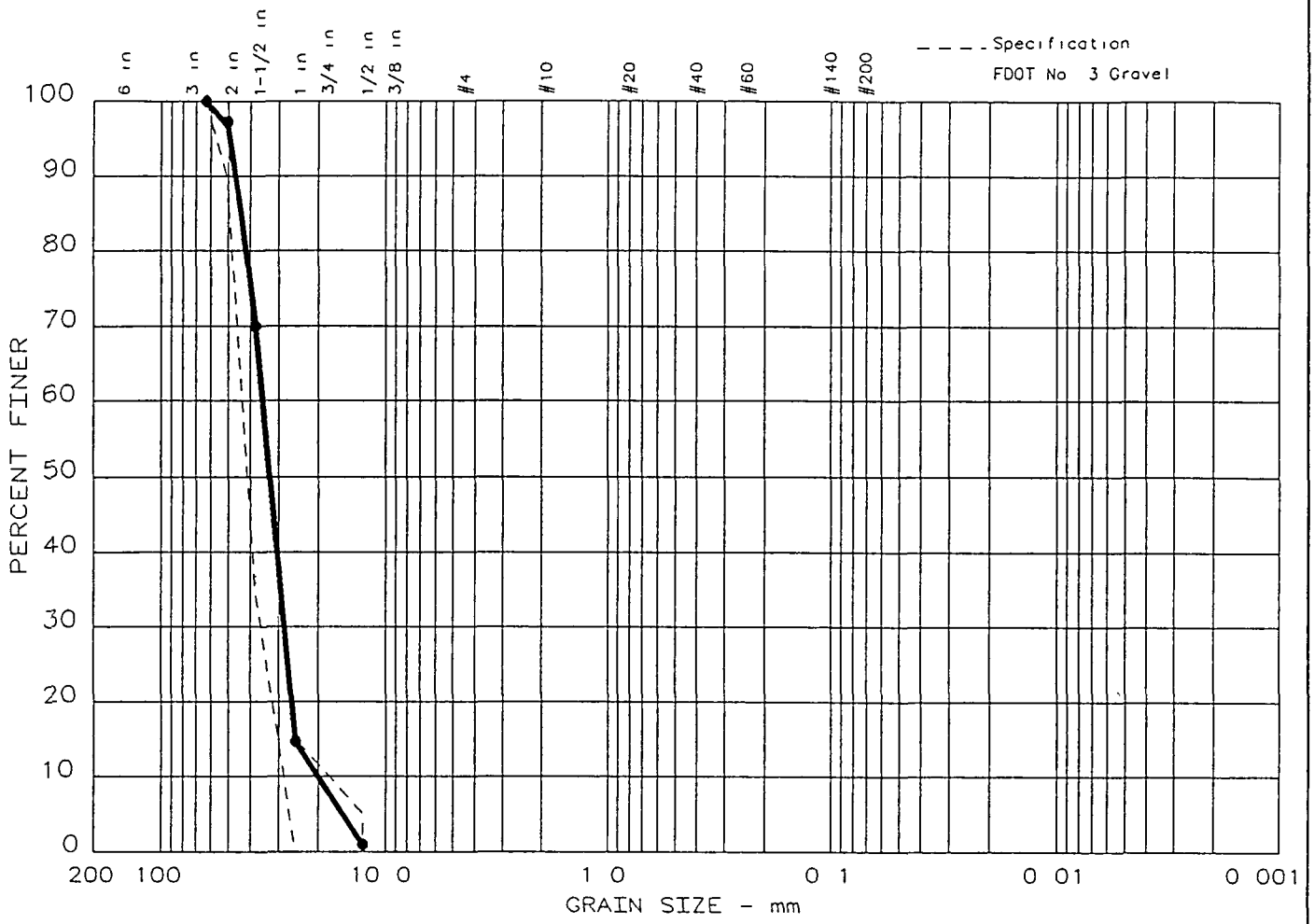
Refuse Temperature during Drilling 120° - 145° F

Notes Drilling and installation observed by QC Monitor

* Includes Final Cover

Log Approved By

PARTICLE SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	0 0	100 0	0 0			GP		

SIEVE inches size	PERCENT FINER ●		
2 5	100 0		
2	97 3		
1 5	70 0		
1	14 7		
0 5	0 9		
	GRAIN SIZE		
D_{60}	35 4		
D_{30}			
D_{10}	19 9		
	COEFFICIENTS		
C_c	1 14		
C_u	1 8		

SIEVE number size	PERCENT FINER ●		

Sample information
● Stockpile
Granite, Gas Well

Remarks
Sample No 1
Insoluable Residue 99 7

LAW ENGINEERING

Project No 40562-7-3268
Project TrailRidge Landfill Incremental Closures
Client England Thims & Miller
Date 7-30-97 Reviewed By BBW

March 8, 1997 - Construction Site Prior to Incremental Closure

May 30, 1997 - Construction Site with Incremental Closure of Units 1-4 in Progress

June 30, 1997 - Construction Site with Incremental Closure of Units 1-4 and 12-14 in Progress

July 29, 1997 - Construction Site with Incremental Closure of Units 1-4 and 12-17 in Progress

July 29, 1997 - Construction Site with Incremental Closure of Units 12-17 in Progress

August 27, 1997 - Construction Site during Incremental Closure - Units 1-4 near completion and Units 12-17 in Progress

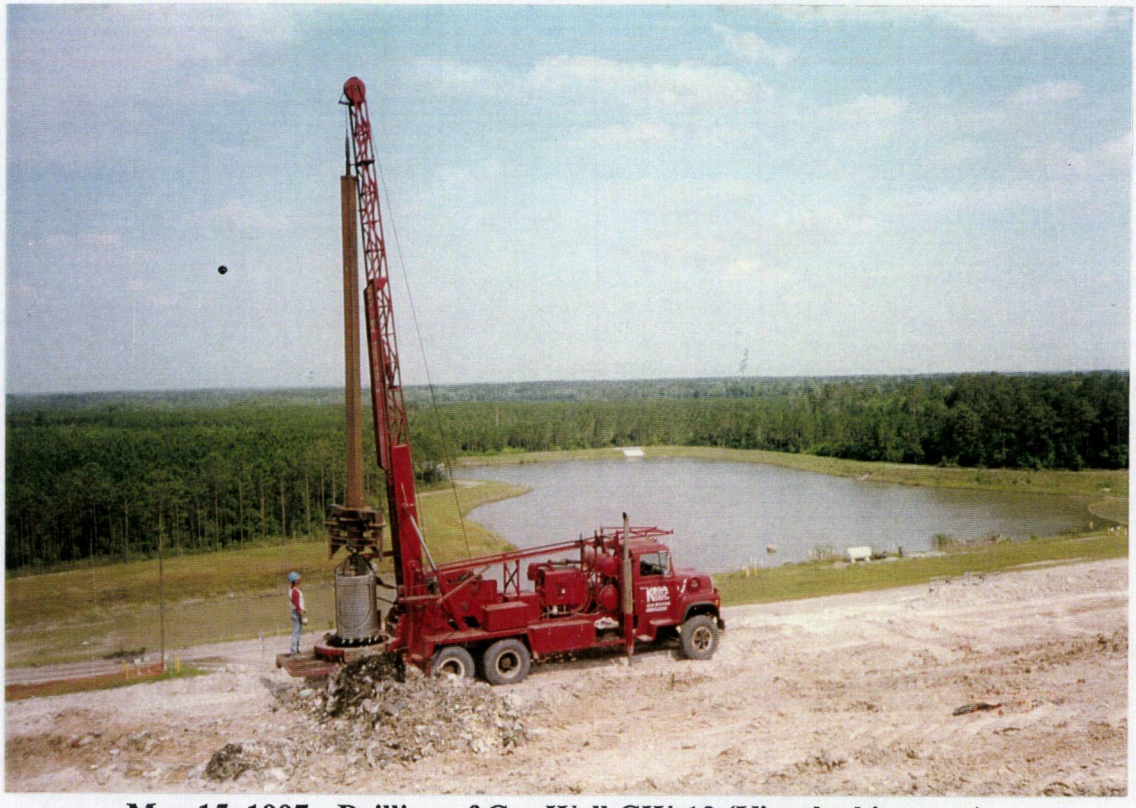
August 27, 1997 - Construction Site with Incremental Closure of Units 12-17 in Progress

September 29, 1997 - Construction Site - Incremental Closure of Units 1-4 and 12-17 Near Completion

September 29, 1997 - Construction Site - Incremental Closure of Units 18-20 in Progress

November 5, 1997 - Construction Site with Incremental Closure Substantially Complete

November 5, 1997 - Construction Site with Incremental Closure Substantially Complete



May 15, 1997 - Drilling of Gas Well GW-18 (View looking east)

May 15, 1997 - Placement of 8" CPVC pipe for Gas Well GW-17

May 16, 1997 - Placement of aggregate for Gas Well GW-35

May 16, 1997 - Grading and Compaction of Initial Cover Prior to Test Strip Construction

May 17, 1997 - Construction of Clay Test Strip

May 23, 1997 - Compaction of the Clay Layer

July 9, 1997 - Compaction of Clay around Downcomer D-85 on Unit 1

July 10, 1997 - Installation of Downcomer D-85 across Unit 3

July 11, 1997 - Installation of Downcomer D-24 across Unit 2

August 25, 1997 - Grading of Top Soil on Unit 12

August 26, 1997 - Amendment of Top Soil with Peat Moss

August 26, 1997 - Sod Placement

August 29, 1997 - Grading of Terrace Prior to Underdrain Installation

August 29, 1997 - Installation of Underdrain and Sand (Note: Top Soil on Lower Unit)

August 29, 1997 - Installation of Rip Rap around Downcomer Inlet (on Unit 12, Terrace 2)

September 24, 1997 - Completed Compactor Access Road

September 25, 1997 - Completed Stormwater Management System Modification

September 25, 1997 - Completed Stormwater Management System Modification

Appendix A
Report of Field Density Tests

LAW ENGINEERING

Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT. England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests Performed on 04/22/97					
1	12.4	109.3	1	88<	90	3	*
2	15.0	105 1	1	85<	90	3	*
3	15 1	103.6	1	84<	90	3	*

TEST LOCATIONS.

1	89+30N @ 126+00E	- Retested	Test No. 1A on 6/18/97
2	89+30N @ 125+40E	- Retested	Test No. 2A on 6/18/97
3	90+00N @ 124+70E	- Retested	Test No. 3A on 6/18/97

TEST COMPARED TO

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 1	124 1	10.6

REMARKS

Performed In General Accordance With.
3 - ASTM D2922
<Denotes less than specified compaction
* Finished Initial Cover.

RESPECTFULLY SUBMITTED:

Bryant B. Wildes

Bryant B. Wildes

LAW ENGINEERING

Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 05/06/97			
4	14.0	108.9	1	88 <<	90	3	*
5	14.0	107 0	1	86 <<	90	3	*
6	13 6	108 0	1	87 <<	90	3	*
7	22.2	102 2	2	83 <<	90	3	* -6"
8	16 4	105 8	3	88 <<	90	3	* -6"
9	22 0	98.8	2	80 <<	90	3	* -6"
		Tests	Performed	on 05/08/97			
5A	16 6	102.4	2	83 <<	90	3	*

TEST LOCATIONS

4	122+10E @ 95+70N	- Retest Test No. 4C on 5/9/97
5	122+05E @ 95+95N	- Retest Test No. 5C on 5/12/97
6	122+20E @ 95+15N	- Retest Test No. 6B on 5/16/97
7	122+60E @ 94+30N	- Retest Test No. 7A on 5/12/97
8	122+95E @ 94+05N	- Retest Test No. 8B on 5/9/97
9	123+25E @ 93+90N	- Retest Test No. 9B on 5/12/97
5A	122+10E @ 96+00N	- Retest Test No. 5C on 5/12/97

TEST COMPARED TO

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 1	124 1	10 6
IC 2	123 0	11 7
IC 3	120.7	10.7

REMARKS

Performed In General Accordance With:
3 - ASTM D2922

<< Denotes Less than Specified Compaction

* Finished Initial Cover

RESPECTFULLY SUBMITTED·

Bryant B. Wildes

Bryant B Wildes

LAW ENGINEERING

Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO:** 40562-7-3268

PROJECT Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests Performed on 05/09/97					
4A	12.8	109 6	2	89<	90	3	*
4B	16 8	108 9	2	89<	90	3	*
4C	15 9	110.8	2	90	90	3	*
5B	20.9	102.6	2	83<	90	3	*
8A	14.9	107 8	3	89<	90	3	*
8B	11 4	111.0	3	92	90	3	*
9A	13 4	109.0	2	89<	90	3	*
10	18 2	105.0	2	85<	90	3	*

TEST LOCATIONS·

4A	95+75N @ 122+10E	- Retested Test No. 4C below
4B	95+78N @ 122+10E	- Retested Test No. 4C below
4C	95+70N @ 122+10E	
5B	95+85N @ 122+10E	- Retested Test No. 5C on 5/12/97
8A	94+10N @ 123+20E	- Retested Test No. 8B below
8B	93+90N @ 123+00E	
9A	93+80N @ 123+30E	- Retested Test No. 9B on 5/12/97
10	94+00N @ 123+30E	- Retested Test No. 10A on 5/09/97

TEST COMPARED TO

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 2	123.0	11 7
IC 3	120 7	10.6

REMARKS

Performed In General Accordance With·
3 - ASTM D2922
< Denotes less than specified compaction
* Finished Initial Cover

RESPECTFULLY SUBMITTED

Bryant B. Wildes

Bryant B. Wildes

LAW ENGINEERING

Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT. Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 05/09/97			
10A	10 8	112.3	2	91	90	3	*

TEST LOCATIONS

10 A 93+90N @ 123+20E

TEST COMPARED TO

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 2	123.0	11.7

REMARKS

Performed In General Accordance With
3 - ASTM D2922

* Finished Initial Cover.

RESPECTFULLY SUBMITTED:

Bryant B. Wildes

Bryant B Wildes

LAW ENGINEERING

Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT. England, Thims & Miller **JOB NO..** 40562-7-3268

PROJECT: Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 05/12/97			
5C	14.1	110.6	2	90	90	3	*
6A	16.3	106 6	2	87 <<	90	3	*
7A	8.2	110 8	3	92	90	3	*
9B	13.1	111 3	2	91	90	3	*
11	18.6	106.2	3	88 <<	90	3	*
12	14 9	108.7	3	90	90	3	*

TEST LOCATIONS:

5C	122+20E @ 95+90N
6A	122+25E @ 95+40N- Retested Test No. 6B on 5/16/97
7A	122+70E @ 94+30N
9B	123+30E @ 93+80N
11	122+45E @ 94+85N- Retested Test No. 11A on 5/16/97
12	122+90E @ 95+45N

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 2	123 0	11.7
IC 3	120 7	10.6

REMARKS

Performed In General Accordance With:
3 - ASTM D2922

<< Denotes Less than Specified Compaction

* Finished Initial Cover

RESPECTFULLY SUBMITTED.

Bryant B. Wildes

Bryant B. Wildes

LAW ENGINEERING

Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT. Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 05/16/97			
6B	14 0	114.2	2	93	90	3	*
11A	14.0	109 7	3	91	90	3	*
13	13.9	110 3	2	90	90	3	*
14	12 6	110.8	2	90	90	3	*
15	14 9	111.3	2	90	90	3	*

TEST LOCATIONS:

6B	122+25E @ 95+35N
11A	122+40E @ 94+75N
13	122+25E @ 95+50N
14	121+90E @ 95+75N
15	122+50E @ 95+00N

TEST COMPARED TO

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 2	123.0	11.7
IC 3	120 7	10.6

REMARKS

Performed In General Accordance With:
3 - ASTM D2922

* Finished Initial Cover

RESPECTFULLY SUBMITTED.

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LAW ENGINEERING

Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CORRECTED COPY

CLIENT. England, Thims & Miller **JOB NO** 40562-7-3268

PROJECT Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 05/17/97			
16	21 8	100.8	3	87 <<	90	3	*
17	23 4	92 1	2	89 <<	90	3	*
18	23 9	95.2	3	82 <<	90	3	*
19	22 0	98.9	3	85 <<	90	3	*
20	24 2	92.4	2	89 <<	90	3	*
21	19.0	105.5	3	91	90	3	*
22	18 7	106.3	3	92	90	3	*
23	20.5	104.5	3	90	90	3	*
24	18 9	106.9	3	92	90	3	*
25	19 8	105 8	3	91	90	3	*
26	20 5	103 9	3	89 <<	90	3	*

TEST LOCATIONS

16	121+90E @ 96+10N; Thk = 7" Retested Test No. 16A on 6/11/97
17	122+25E @ 95+90N; Thk = 7 1/4" Retested Test No. 17A on 6/11/97
18	122+25E @ 96+10N, Thk = 6 3/4" Retested Test No.18A on 6/19/97
19	121+95E @ 95+85N; Thk = 7" Retested Test No. 19B on 6/25/97
20	122+10E @ 96+00N; Thk = 7 1/4" Retested Test No. 20A on 6/11/97
21	121+90E @ 95+70N, Thk = 7 1/2", Perm #1
22	121+95E @ 95+55N, Thk.= 7 1/2", Perm #2
23	122+10E @ 95+70N; Thk.= 7 1/2", Perm #3
24	122+35E @ 95+65N; Thk = 7", Perm #5
25	122+35E @ 95+80N, LR Thk = 7 1/2", Perm #4
26	122+00E @ 95+25N, LR Thk = 7 1/4" Retested Test No. 26A on 6/19/97

TEST COMPARED TO.

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 3	116 1	13 8
CL 2	103 6	20 8

REMARKS

Performed In General Accordance With
3 - ASTM D2922

<< Denotes Less than Specified Compaction

* 1st Lift Clay Layer

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REPORT OF FIELD DENSITY TESTS

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CLIENT England, Thims & Miller **JOB NO** 40562-7-3268

PROJECT Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 05/17/97			
27	21 2	102.6	3	88 <<	90	3	*
28	22 5	99 8	3	86 <<	90	3	**
29	23 1	94 6	3	82 <<	90	3	**
30	20.7	98 2	3	85 <<	90	3	**
31	20.2	103 7	3	89 <<	90	3	**
32	17 4	104 8	3	90	90	3	*
33	20.7	104 6	3	90	90	3	*
34	18.3	105 7	3	91	90	3	*
35	17.7	104 7	3	90	90	3	*
36	18 6	105.1	3	91	90	3	*
37	19 4	104.4	3	90	90	3	*

TEST LOCATIONS

27	122+30E @ 95+40N, LR Thk.=	6 3/4" Retested Test No. 27A on 6/19/97
28	121+95E @ 96+10N; LR Thk.=	13 1/2" Retested Test No. 28A on 6/11/97
29	122+00E @ 95+90N, LR Thk =	13" Retested Test No. 29A on 6/11/97
30	122+05E @ 96+00N, LR Thk.=	14 1/2" Retested Test No. 30A on 6/11/97
31	122+30E @ 95+90N; LR Thk.=	14 1/2" Retested Test No. 31A on 6/25/97
32	122+25E @ 96+20N, LR Thk =	14 3/4"
33	121+95E @ 95+70N; LR Thk =	14", Perm #6
34	122+00E @ 95+55N, LR Thk =	13 1/2", Perm #7
35	122+10E @ 95+70N, LR Thk =	13 3/4", Perm #8
36	122+30E @ 95+65N, LR Thk.=	13 3/4", Perm #9
37	122+30E @ 95+80N; LR Thk =	14", Perm #10

TEST COMPARED TO

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 3	116 1	13 8

REMARKS

Performed In General Accordance With
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<< Denotes Less than Specified Compaction

* 1st Lift Clay Layer
** 2nd Lift Clay Layer

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REPORT OF FIELD DENSITY TESTS

CORRECTED COPY

CLIENT England, Thims & Miller **JOB NO.** 40562-7-3268

PROJECT. Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 05/17/97			
38	20 7	102.8	3	89 <<	90	3	*
39	22 1	101.9	3	88 <<	90	3	**

TEST LOCATIONS

38 122+20E @ 94+80N, LR Thk = 13" Retested Test No. 38A on 5/27/97
39 122+20E @ 94+80N, LR Thk = 13" Retested Test No. 39A on 5/27/97

TEST COMPARED TO

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 3	116 1	13.8

REMARKS

Performed In General Accordance With
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<< Denotes Less than Specified Compaction

* 2nd Lift Clay Layer
** 12" Lift Clay

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Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT. England, Thims & Miller **JOB NO.** 40562-7-3268

PROJECT. Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 05/20/97			
40	15.6	106.6	2	87 <<	90	3	*
40A	11.1	109.3	3	91	90	3	*
41	11.7	110 5	3	92	90	3	*
42	7 0	114 6	3	95	90	3	*

TEST LOCATIONS

40	123+65E @ 92+65N	- Retested Test No. 40A below
40A	123+65E @ 92+65N	
41	123+85E @ 94+40N	
42	124+35E @ 93+25N	

TEST COMPARED TO.

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 2	123 0	11.7
IC 3	120.7	10 6

REMARKS

Performed In General Accordance With:
3 - ASTM D2922

<< Denotes Less than Specified Compaction

* Finished Initial Cover

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Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT England, Thims & Miller **JOB NO..** 40562-7-3268

PROJECT. Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 05/23/97			
43	11.0	113.2	3	94	90	3	*
44	8.9	114.8	3	95	90	3	*
45	12.5	110.7	2	90	90	3	*
46	23 9	100.34	4	91	90	3	**
47	19 4	106 1	4	97	90	3	**

TEST LOCATIONS.

43	123+15E @ 95+00N	
44	124+50E @ 94+05N	
45	123+85E @ 93+60N	
46	122+20E @ 95+05N	; Thk.= 6"
47	122+85E @ 94+45N	; Thk.= 6"

TEST COMPARED TO·

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 3	120 7	10 6
IC 2	123.0	11 7
CL 4	109 9	16.7

REMARKS

Performed In General Accordance With
3 - ASTM D2922

* Top of Initial Cover
** 1st Lift Clay Layer

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REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT. Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests Performed on 05/24/97					
48	22.2	101 6	4	92	90	3	*
48A	23.9	101.4	4	92	90	3	*
49	17 8	106 5	4	97	90	3	*

TEST LOCATIONS

48 122+55E @ 94+30N, Thk.= 6"
48A 122+55E @ 94+35N; Thk.= 6"

49 123+35E @ 93+90N, Thk.= 6", Perm #11

TEST COMPARED TO.

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 4	109 9	16 7

REMARKS

Performed In General Accordance With·
3 - ASTM D2922

* 1st Lift Clay Layer

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REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT. Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 05/24/97			
50	20 2	104.4	4	95	90	3	*
51	20 3	104 1	4	95	90	3	*
52	22.2	102.9	4	94	90	3	**

TEST LOCATIONS

50 123+85E @ 93+60N, Thk.= 6"
51 123+80E @ 92+90N; Thk.= 7"; Perm #12
52 122+60E @ 94+50N; Thk.= 13"; Perm #13

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 4	109 9	16 7

REMARKS

Performed In General Accordance With:
3 - ASTM D2922

* 1st Lift Clay Layer
** 2nd Lift Clay Layer

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REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests Performed on 05/27/97					
38A	18.8	105.2	3	91	90	3	*
39A	18 5	106 4	3	92	90	3	*
53	17 0	109.3	3	94	90	3	*

TEST LOCATIONS.

38 A 122+20E @ 94+80N
39 A 122+20E @ 94+80N
53 121+90E @ 95+75N, Thk.= 13 1/2"; Perm #6A

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 3	116.1	13.8

REMARKS

Performed In General Accordance With:
3 - ASTM D2922

* 2nd Lift Clay Layer
NOTE: Perm 6A area reworked

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REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 05/29/97			
54	17.3	107.7	3	89 <<	90	3	*
54 A	16.1	109.4	3	91	90	3	*
55	15 1	108 3	3	90	90	3	*
56	15 9	108 6	3	90	90	3	*
57	15 9	108.5	3	90	90	3	*
58	23.5	99.8	4	91	91	3	**
59	24.2	99 8	4	91	91	3	**

TEST LOCATIONS:

54	123+70E @ 92+48N Retested Test No. 54A below
54 A	123+70E @ 92+48N
55	124+45E @ 92+48N
56	125+30E @ 92+48N
57	126+00E @ 92+48N
58	123+70E @ 92+48N, Thk.= 7"; Perm #14
59	124+20E @ 92+48N; Thk.= 7"

TEST COMPARED TO

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 3	120.7	10 6
CL 4	109.9	16 7

REMARKS

Performed In General Accordance With:
3 - ASTM D2922

<< Denotes Less than Specified Compaction

* Top of Initial Cover
** Top of 1st Lift Clay @ D85

RESPECTFULLY SUBMITTED

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Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT. England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT: Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 05/29/97			
60	22 9	101.4	4	92	90	3	*
61	23 8	99.8	4	91	90	3	*
62	21 0	100.0	4	91	90	3	*
63	21 5	100.0	4	91	90	3	*

TEST LOCATIONS

60 124+50E @ 92+48N; Thk.= 7", Perm #15
61 124+80E @ 92+48N; Thk = 7"
62 125+25E @ 92+48N; Thk = 7", Perm #16
63 125+55E @ 92+48N; Thk.= 7"

TEST COMPARED TO

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 4	109.9	16 7

REMARKS

Performed In General Accordance With:
3 - ASTM D2922

* 1st Lift Clay Layer @ D-85

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Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO:** 40562-7-3268

PROJECT Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests Performed on 05/30/97					
64	24.8	98 2	4	89 <<	90	3	*
64A	22.0	101 6	4	92	90	3	*
65	21 4	100 4	4	91	90	3	*
66	22.0	102.2	4	93	90	3	*

TEST LOCATIONS

64 125+60E @ 92+48N; Thk = 13" Retested Test No. 64A below
64A 125+60E @ 92+48N, Thk = 13"; Perm #17
65 125+20E @ 92+48N, Thk = 13"
66 124+80E @ 92+48N, Thk = 14", Perm #18

TEST COMPARED TO.

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 4	109 9	16.7

REMARKS

Performed In General Accordance With:
3 - ASTM D2922

<< Denotes Less than Specified Compactior

* 2nd Clay Lift @ D-85

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REPORT OF FIELD DENSITY TESTS

CLIENT England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT. Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests Performed on 05/30/97					
67	22 2	101 8	4	93	90	3	*
68	19 0	105.0	4	96	90	3	*
69	20.4	103.2	4	94	90	3	*

TEST LOCATIONS:

67 124+45E @ 92+48N; Thk.= 15"
68 124+00E @ 92+48N, Thk. = 15"
69 123+60E @ 92+48N, Thk. = 14", Perm #19

TEST COMPARED TO

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 4	109 9	16.7

REMARKS

Performed In General Accordance With:
3 - ASTM D2922

* 2nd Lift Clay @ D-85

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Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT. Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 05/31/97			
70	11.6	112.1	1	90	90	3	*
71	21.8	100 4	4	91	90	3	**
72	22.5	100.8	4	92	90	3	**
73	23 0	102 4	4	93	90	3	**
74	21 0	101 7	4	93	90	3	**
75	18 7	103 5	4	94	90	3	***
76	20 7	104.5	4	95	90	3	***

TEST LOCATIONS

70	Unit 1	Downcomer D85 126+30E @ 92+48N, Thk. = 18"+
71	Unit 7	122+75E @ 96+00N, Thk. = 7 1/2"
72	Unit 7	123+35E @ 94+80N, Thk.= 8 1/2"; Perm #20
73	Unit 1	Downcomer D85 126+25E @ 92+48N; Thk.= 6 3/4", Perm #21
74	Unit 3	124+00E @ 94+20N, Thk.= 6 1/4"
75	Unit 7	123+40E @ 94+85N, Thk. = 13 1/2"
76	Unit 7	122+75E @ 96+10N; Thk. = 13", Perm #22

TEST COMPARED TO

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 1	124 1	10.6
CL 4	109.9	16.7

REMARKS

Performed In General Accordance With
3 - ASTM D2922

* Finished Initial Cover
** 1st Lift of Clay Layer
*** 2nd Lift of Clay Layer

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Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT. England, Thims & Miller **JOB NO:** 40562-7-3268

PROJECT. Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 06/04/97			
77	13 9	111.9	1	90	90	3	*
78	11 6	112.8	1	91	90	3	*
79	12.2	114 3	1	92	90	3	*
80	12 9	112 4	1	91	90	3	*

TEST LOCATIONS

77 125+35E @ 93+05N, Thk = 17"
78 125+40E @ 94+05N, Thk. = 16"
79 125+05E @ 94+75N, Thk. = 18"
80 124+30E @ 94+90N; Thk. = 18"

TEST COMPARED TO.

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
1	124 1	10 6

REMARKS

Performed In General Accordance With
3 - ASTM D2922

* Top of Initial Cover

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REPORT OF FIELD DENSITY TESTS

CLIENT. England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT. Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 06/09/97			
81	22 6	102.0	4	93	90	3	*
82	20 5	104.0	4	95	90	3	*
83	21 1	100.8	4	92	90	3	*
84	22 0	102.2	4	93	90	3	*
85	22 7	100.4	4	91	90	3	*
86	23.9	100.7	4	92	90	3	**

TEST LOCATIONS

81 124+65E @ 93+05N; Thk. = 6", Perm #23
82 125+40E @ 92+90N; Thk. = 6"
83 125+45E @ 93+95N; Thk. = 6 1/2"; Perm #24
84 125+10E @ 94+90N, Thk = 7"
85 124+25E @ 94+95N, Thk = 7 1/2"; Perm #25
86 122+20E @ 94+95N, Thk. = 12 1/2"

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 4	109 9	16.7

REMARKS

Performed In General Accordance With
3 - ASTM D2922

* 1st Lift Clay
** 2nd Lift Clay

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REPORT OF FIELD DENSITY TESTS

CLIENT England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT: Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests Performed on 06/10/97					
87	9.7	110.2	3	91	90	3	*
88	8.1	110.5	3	92	90	3	*
89	10 7	115.2	1	93	90	3	*
90	14.2	109 5	3	91	90	3	*

TEST LOCATIONS.

87 126+10E @ 92+90N, Thk.= 15"
88 126+10E @ 94+10N; Thk = 15"
89 125+85E @ 95+65N; Thk = 18"
90 125+00E @ 95+65N, Thk = 16"

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 3	120.7	10 6
IC 1	124 1	10 6

REMARKS

Performed In General Accordance With:
3 - ASTM D2922

* Top of Initial Cover

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REPORT OF FIELD DENSITY TESTS

CLIENT England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests Performed on 06/11/97					
91	23.4	101.0	4	92	90	3	*
92	20 5	104.0	4	95	90	3	*

TEST LOCATIONS·

91 123+60E @ 93+60N, Thk = 12 1/2"
92 123+85E @ 92+85N; Thk = 13"; Perm #26

TEST COMPARED TO

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 4	109 9	16.7

REMARKS

Performed In General Accordance With:
3 - ASTM D2922

* Top of 2nd Lift Clay

RESPECTFULLY SUBMITTED:

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REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 06/11/97			
16A	18.5	105.1	3	90	90	3	*
17A	15.4	109 6	3	94	90	3	*
20A	20 9	96.3	2	93	90	3	*
28A	14 0	111.6	3	96	90	3	**
29A	15.7	109 4	3	94	90	3	**

TEST LOCATIONS.

16A	121+90E @ 96+10N;	Thk.= 7"
17A	122+25E @ 95+90N;	Thk.= 7"
20A	122+10E @ 96+00N;	Thk = 7 1/2"
28A	121+95E @ 96+10N;	Thk = 13"
29A	122+00E @ 95+90N;	Thk = 13"

TEST COMPARED TO

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 3	116 1	13.8
CL 2	103.6	20.8

REMARKS

Performed In General Accordance With:
3 - ASTM D2922

* 1st Lift Clay
** 2nd Lift Clay

RESPECTFULLY SUBMITTED:

Bryant B. Wildes

Bryant B. Wildes

LAW ENGINEERING

Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT England, Thims & Miller **JOB NO..** 40562-7-3268

PROJECT. Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR DEPTH~~
		Tests Performed on 06/11/97					
30 A	15 9	108.4	3	93	90	3	*

TEST LOCATIONS

30 A 122+05E @ 96+00N; Thk.= 14"

TEST COMPARED TO.

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 3	116 1	13.8

REMARKS

Performed In General Accordance With.
3 - ASTM D2922

* 2nd Lift Clay

RESPECTFULLY SUBMITTED.

Bryant B. Wildes
Bryant B. Wildes

LAW ENGINEERING

Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT. England, Thims & Miller **JOB NO.** 40562-7-3268

PROJECT Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR DEPTH~~
		Tests	Performed	on 06/13/97			
93	18 0	109 1	3	90	90	3	*
94	16.8	108.0	3	90	90	3	*
95	16 6	108.1	3	90	90	3	*
96	19.8	103.9	4	95	90	3	**

TEST LOCATIONS.

93 124+70E @ 88+80N; Thk.= 17"
94 125+45E @ 88+80N, Thk = 18"
95 126+15E @ 88+80N, Thk.= 16"
96 126+10E @ 92+48N; Thk = 13", Perm #27

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 3	120.7	10 6
CL 4	109.9	16.7

REMARKS

Performed In General Accordance With:
3 - ASTM D2922

* Top of Initial Cover D24
** 2nd Lift Clay D85

RESPECTFULLY SUBMITTED

Bryant B. Wildes

Bryant B. Wildes

LAW ENGINEERING

Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT. England, Thims & Miller **JOB NO..** 40562-7-3268

PROJECT. Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR DEPTH~~
		Tests	Performed	on 06/14/97			
3A	12.0	112.3	1	91	90	3	*
97	13 2	111 3	2	90	90	3	*
98	15 9	109.1	3	90	90	3	*

TEST LOCATIONS

3A	124+70E @ 90+00N; Thk = 15"
97	124+65E @ 91+50N; Thk.= 16"
98	124+60E @ 89+50N, Thk.= 16"

TEST COMPARED TO

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 1	124.1	10.6
IC 2	123 0	11.7
IC 3	120.7	10.6

REMARKS

Performed In General Accordance With
3 - ASTM D2922

* Top of Initial Cover

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Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT. Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR~~ ~~DEPTH~~
		Tests Performed on 06/16/97					
99	22.9	99 0	4	90	90	3	*
100	20 0	100.0	4	91	90	3	*
101	20.7	101.7	4	93	90	3	*
102	21.6	99.2	4	90	90	3	*
103	23 4	99.1	4	90	90	3	*
104	18 5	104 6	4	95	90	3	*
105	18 7	104.9	4	95	90	3	*

TEST LOCATIONS

99	126+05E @ 88+80N; Thk.= 7 1/2"; Perm #28
100	125+35E @ 88+80N, Thk.= 8", Perm #29
101	124+55E @ 88+80N, Thk.= 7", Perm #30
102	125+05E @ 95+65N; Thk.= 7 1/2"
103	125+95E @ 95+25E, Thk.= 6", Perm #31
104	126+05E @ 94+10N, Thk.= 7 1/4"
105	126+15E @ 92+85N, Thk.= 7 3/4", Perm #32

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 4	109.9	16 7

REMARKS

Performed In General Accordance With
3 - ASTM D2922

* 1st Lift Clay

RESPECTFULLY SUBMITTED:

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LAW ENGINEERING

Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT: Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR~~ ~~DEPTH~~
		Tests	Performed	on 06/17/97			
106	20.2	105.1	4	96	90	3	*
107	18.4	104.8	4	95	90	3	*
108	17 8	107 1	4	97	90	3	*
109	18.3	103.2	4	94	90	3	**
110	17.8	102.9	4	94	90	3	**
111	17 5	103.7	4	94	90	3	*
112	19 0	104.0	4	95	90	3	*

TEST LOCATIONS:

106 126+20E @ 88+80N, Thk = 12"; Perm #33
107 125+30E @ 88+80N, Thk = 12"; Perm #34
108 124+60E @ 88+80N, Thk.= 12 1/2", Perm #35
109 124+55E @ 89+35N, Thk.= 6"; Perm #36
110 124+65E @ 91+20N, Thk = 7"
111 124+45E @ 94+10N; Thk = 12"; Perm #37
112 124+65E @ 92+95N; Thk.= 12"

TEST COMPARED TO

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 4	109.9	16.7

REMARKS

Performed In General Accordance With
3 - ASTM D2922

* 2nd Lift Clay
** 1st Lift Clay

RESPECTFULLY SUBMITTED.

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Bryant B Wildes

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Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT. England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR~~ ~~DEPTH~~
		Tests	Performed	on 06/18/97			
1A	12.7	113.4	1	91	90	3	*
2A	12.7	114.6	1	92	90	3	*
113	11.0	111.4	2	91	90	3	*
114	10.1	112 7	1	91	90	3	*
115	10.5	111.0	1	90	90	3	*
116	13.2	111 7	1	90	90	3	*

TEST LOCATIONS:

1A	126+00E @ 89+30N, Thk.= 17"
2A	125+40E @ 89+30N, Thk.= 18"
113	125+35E @ 91+55N, Thk.= 12"
114	126+10E @ 91+90N; Thk.= 17"
115	126+05E @ 90+35N; Thk.= 16"
116	125+30E @ 90+45N, Thk.= 18"

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 1	124.1	10 6
IC 2	123.0	11 7

REMARKS

Performed In General Accordance With:
3 - ASTM D2922

* Top of Initial Cover

RESPECTFULLY SUBMITTED:

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Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT: Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR DEPTH~~
		Tests Performed on 06/19/97					
117	22.3	98.3	2	95	90	3	*
118	23 3	97.3	2	94	90	3	*

TEST LOCATIONS:

117 126+05E @ 91+30N; Thk.= 6"
118 125+35E @ 91+45N, Thk.= 7 1/2"; Perm #38

TEST COMPARED TO.

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 2	103.6	20.8

REMARKS

Performed In General Accordance With
3 - ASTM D2922

* 1st Lift Clay

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REPORT OF FIELD DENSITY TESTS

CLIENT. England, Thims & Miller **JOB NO..** 40562-7-3268

PROJECT: Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 06/19/97			
18 A	19.7	106.8	3	92	90	1	*
19 A	19 7	103.8	3	89 <<	90	1	*
26 A	17 9	109.2	3	94	90	1	*
27 A	19.3	107.4	3	92	90	1	*

TEST LOCATIONS:

18 A	122+25E @ 96+10N	* 6 3/4"	
19 A	121+95E @ 95+85N	* 6 3/4"	Retested Test No. 19B on 6/25/97
26 A	122+00E @ 95+25N	* 7 1/4"	
27 A	122+30E @ 95+40N	* 6 3/4"	

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 3	116 1	13.8

REMARKS

Performed In General Accordance With.
1 - ASTM D2937

<< Denotes Less than Specified Compaction

* 1st 6" Lift of Clay

RESPECTFULLY SUBMITTED:

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Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT. England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT. Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 06/23/97			
119	19.8	99.8	2	96	90	3	*
120	19 5	103.0	4	94	90	3	*
121	13.3	107.7	3	93	90	3	**
122	13.8	109.1	3	94	90	3	**
123	18.5	105.1	3	90	90	3	**
124	16.9	105.4	3	91	90	3	**
125	17.0	105.6	3	91	90	3	**
126	15.9	105.3	3	91	90	3	**
127	17.0	107.5	3	93	90	3	**
128	16.5	109.4	3	94	90	3	**

TEST LOCATIONS.

119	126+25E @ 89+35N; Thk.= 7 1/4", Perm #39
120	125+45E @ 89+50N; Thk.= 6 1/4"
121	124+60E @ 94+85N; Thk.= 12"
122	125+25E @ 94+50N; Thk.= 12 1/2", Perm #40
123	125+20E @ 93+65N; Thk.= 13"
124	125+40E @ 92+80N; Thk.= 12"; Perm #41
125	126+20E @ 93+05N, Thk.= 13"
126	126+05E @ 94+00N, Thk.= 13"; Perm #42
127	125+95E @ 95+25N, Thk.= 12"
128	125+10E @ 95+60N, Thk.= 12 1/2"; Perm #43

TEST COMPARED TO

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 2	103.6	20 8
CL 4	109.9	16 7
CL 3	116 1	13 8

REMARKS

Performed In General Accordance With
3 - ASTM D2922

* 1st Lift Clay
** 2nd Lift Clay

RESPECTFULLY SUBMITTED.

Bryant B Wildes

Bryant B Wildes

LAW ENGINEERING

Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT. Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	~~ELEVATION~~ OR DEPTH
		Tests Performed on 06/25/97					
19B	18 6	109.4	3	94	90	1	*
31A	16.2	106.0	3	91	90	3	* *
129	17.5	107.5	3	93	90	3	* *
130	21.6	103.0	4	94	90	3	* *
131	23.4	99.4	4	90	90	3	* *
132	17.8	106 0	3	91	90	3	* *
133	17 2	106.6	3	92	90	3	* *
134	18.4	102.4	4	93	90	3	* *

TEST LOCATIONS:

19B	121+95E @ 95+85N; Thk. = 6 3/4"
31A	122+30E @ 95+90N; Thk.= 12 3/4"
129	124+55E @ 91+25N, Thk.= 12", Perm #44
130	124+65E @ 89+40N, Thk = 13"
131	125+45E @ 89+70N; Thk.= 12 1/2"; Perm #45
132	125+40E @ 91+50N, Thk = 12 3/4"
133	126+05E @ 91+25N, Thk = 13 1/2"; Perm #46
134	126+20E @ 89+40N; Thk.= 13 1/4"

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 3	116 1	13 8
CL 4	109 9	16 7

REMARKS

Performed In General Accordance With.
1 - ASTM D2937
3 - ASTM D2922

** 2nd Lift Clay
* 1st Lift Clay

RESPECTFULLY SUBMITTED:

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Bryant B. Wildes

LAW ENGINEERING

Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT. England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 06/26/97			
135	12 9	111 3	1	90	90	3	*
136	15 0	111 6	1	90	90	3	*
137	14.4	110.3	2	90	90	3	*
138	17.5	107.1	2	87 <<	90	3	*
138A	19 8	105.8	2	86 <<	90	1	*
139	12 9	108.1	3	90	90	3	*

TEST LOCATIONS

135	126+05E @ 88+05N, Thk = 16"	
136	125+40E @ 88+10N, Thk = 16"	
137	111+63E @ 97+50N, Thk = 13"	
138	111+63E @ 98+30N; Thk.= 14"	Retest Test No. 138B on 6/27/97
138A	111+63E @ 98+30N	Retest Test No. 138B on 6/27/97
139	111+63E @ 99+10N, Thk.= 13"	

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 1	124 1	10 6
IC 2	123 0	11.7
IC 3	120.7	10 6

REMARKS

Performed In General Accordance With·
3 - ASTM D2922
1 - ASTM D2937
<< Denotes Less than Specified Compaction
* Top of Initial Cover

RESPECTFULLY SUBMITTED:

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Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT. England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT. Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 06/27/97			
138B	15 7	110 1	IC 2	90	90	3	*
140	24.2	98.7	2	95	90	3	**
141	25.1	96.6	2	93	90	3	**

TEST LOCATIONS·

138B	111+63E @ 98+30N
140	125+45E @ 88+05N
141	126+10E @ 88+15N

TEST COMPARED TO

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 2	123.0	11.7
CL 2	103 6	20.8

REMARKS

Performed In General Accordance With
3 - ASTM D2922

* Top of Initial Cover D-13
** 1st Lift Clay

RESPECTFULLY SUBMITTED

Bryant B. Wildes

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LAW ENGINEERING

Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT. England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT. Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 06/30/97			
142	21 6	100.7	4	92	90	3	*
143	24.2	99.0	4	90	90	3	*

TEST LOCATIONS·

142 111+63E @ 97+55N, Thk = 7"; Perm #47
143 111+63E @ 98+25N; Thk = 7"; Perm #48

TEST COMPARED TO.

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 4	109.9	16.7

REMARKS

Performed In General Accordance With:
3 - ASTM D2922

* 1st Lift Clay D-13

RESPECTFULLY SUBMITTED.

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Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO.** 40562-7-3268

PROJECT: Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 07/02/97			
144	27.5	95.5	4	87 <<	90	3	*
145	22 1	101.7	4	93	90	3	**
146	20 5	102 7	4	93	90	3	**
147	18 1	105.2	4	96	90	3	***
148	24 2	95 9	4	87 <<	90	3	***

TEST LOCATIONS:

144 111+63E @ 99+10N; Thk.= 6" Retest Test No. 144A on 7/22/97
145 126+10E @ 87+95N; Thk.= 13"
146 125+40E @ 88+20N, Thk.= 13"
147 111+63E @ 97+35N; Thk = 13 1/4", Perm #49
148 111+63E @ 98+30N, Thk = 12 1/2" Retest Test No. 148A on 7/22/97

TEST COMPARED TO

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 4	109 9	16.7

REMARKS

Performed In General Accordance With.
3 - ASTM D2922

<< Denotes Less than Specified Compaction
* 1st Lift Clay @ D-13
** 2nd Lift Clay
*** 2nd Lift Clay @ D-13

RESPECTFULLY SUBMITTED:

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REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT: Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR DEPTH~~
		Tests	Performed	on 07/12/97			
145 A	15.7	109 4	3	94	90	3	*
146 A	14.5	109 6	3	94	90	3	*

TEST LOCATIONS

145 A 126+10E @ 87+95N
146 A 125+40E @ 88+20N

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)	
CL 3	116.1	13.8	* 2nd Lift Clay

REMARKS

Performed In General Accordance With:
3 - ASTM D2922

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REPORT OF FIELD DENSITY TESTS

CLIENT. England, Thims & Miller **JOB NO..** 40562-7-3268

PROJECT: Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 07/22/97			
144 A	20.6	100.4	4	91	90	3	*
148 A	16.7	102.8	4	94	90	3	**

TEST LOCATIONS

144 A 111+63E @ 99+10N; Thk.= 6"; Perm #50
148 A 111+63E @ 98+30N, Thk.= 13"; Perm #51

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 4	109.9	16 7

REMARKS

Performed In General Accordance With.
3 - ASTM D2922

* 1st Lift Clay @ D-13
** 2nd Lift Clay @ D-13

RESPECTFULLY SUBMITTED:

Bryant B. Wildes

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Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT. England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT. Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 07/15/97			
149	11.5	111.2	4	90	90	3	*
150	12.1	114.2	4	92	90	3	*
151	12.2	111 6	4	90	90	3	*
152	12.6	112.9	4	91	90	3	*
153	14.7	105 4	4	85 <<	90	3	*
154	13 9	109.7	4	88 <<	90	3	*
155	11.7	111.9	4	90	90	3	*
156	8.9	112 7	4	91	90	3	*

TEST LOCATIONS:

149	112+50E @ 97+50N, Thk.= 18"+	
150	111+20E @ 97+45N, Thk.= 18"+	
151	112+85E @ 98+20N, Thk.= 18"+	
152	111+90E @ 98+25N; Thk.= 18"+	
153	110+85E @ 98+25N; Thk.= 16"	Retested Test No. 153A on 7/24/97
154	112+70E @ 99+10N; Thk = 17"	Retested Test No. 154A on 7/24/97
155	111+30E @ 99+05N; Thk.= 18"+	
156	110+25E @ 99+10N; Thk.= 18"+	

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 4	124.2	11.2

REMARKS

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REPORT OF FIELD DENSITY TESTS

CLIENT. England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT. Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR DEPTH~~
		Tests	Performed	on 07/24/97			
153A	13 3	112.9	4	91	90	3	*
154A	14.2	113.3	4	91	90	3	*

TEST LOCATIONS:

153A 110+85E @ 98+25N
154A 112+70E @ 99+10N

TEST COMPARED TO

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 4	124.2	11 2

REMARKS

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REPORT OF FIELD DENSITY TESTS

CLIENT. England, Thims & Miller **JOB NO:** 40562-7-3268

PROJECT: Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR DEPTH~~
		Tests	Performed	on 07/25/97			
157	22 8	100.7	4	92	90	3	*
158	22 3	102.1	4	93	90	3	*
159	23 2	98.5	2	95	90	3	*
160	24.5	95.5	2	92	90	3	*
161	25 7	95.2	2	92	90	3	*

TEST LOCATIONS.

157 112+35E @ 97+55N; Thk.= 7 1/2"
158 112+65E @ 98+20N; Thk.= 7 1/2"; Perm #52
159 110+80E @ 98+30N; Thk.= 7 1/2"
160 112+40E @ 99+10N; Thk = 8"
161 110+65E @ 99+05N, Thk = 8"; Perm #53

TEST COMPARED TO.

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 4	109.9	16 7
CL 2	103 6	20.8

REMARKS

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* 1st Lift Clay Layer

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REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT: Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR~~ ~~DEPTH~~
		Tests	Performed	on 07/29/97			
162	25.4	93.9	2	76 <<	90	3	* *
163	18.6	103.1	3	85 <<	90	3	* *
164	19.9	101.3	2	82 <<	90	3	* *
165	21.4	98.4	2	80 <<	90	3	*
166	20 4	101.8	2	83 <<	90	3	*

TEST LOCATIONS.

162	106+93E @ 97+60N; Thk.= 18"+	Retested Test No. 162B on 8/6/97
163	106+93E @ 98+40N; Thk = 16"	Retested Test No. 163B on 8/6/97
164	106+93E @ 99+15N; Thk = 16"	Retested Test No. 164B on 8/5/97
165	105+60E @ 98+40N, Thk = 18"+	Retested Test No. 165B on 8/6/97
166	106+15E @ 97+55N, Thk.= 18"+	Retested Test No. 166D on 8/11/97

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 2	123.0	11.7
IC 3	120 7	10.6

REMARKS

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REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO..** 40562-7-3268

PROJECT. Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR DEPTH~~
		Tests	Performed	on 07/30/97			
162 A	20.3	102.7	2	84 <<	90	3	**
163 A	18 1	104.1	3	86 <<	90	3	**
164 A	16 9	107.7	2	88 <<	90	3	**
166 A	20 4	101.8	2	83 <<	90	3	*
167	21.8	100.0	2	81 <<	90	3	*
168	9.7	109.8	3	91	90	3	*

TEST LOCATIONS

162 A	106+93E @ 97+60N	Retested Test No. 162B on 8/6/97
163 A	106+93E @ 98+40N	Retested Test No. 163B on 8/6/97
164 A	106+93E @ 99+15N	Retested Test No. 164B on 8/5/97
166 A	106+15E @ 97+55N	Retested Test No. 166D on 8/11/97
167	104+75E @ 97+65N, Thk.= 18"	Retested Test No. 167B on 8/11/97
168	103+45E @ 97+65N, Thk.= 12"	

TEST COMPARED TO.

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 2	123.0	11.7
IC 3	120.7	10.6

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REPORT OF FIELD DENSITY TESTS

CLIENT. England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT. Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 07/31/97			
169	21.1	101.2	4	92	90	3	*
170	25.1	95.4	2	92	90	3	* *
171	23.2	98.4	2	95	90	3	*
172	24.0	98.3	2	95	90	3	*
173	25.1	98 4	2	95	90	3	*
174	25.1	97.6	2	94	90	3	*

TEST LOCATIONS:

169 112+60E @ 99+05N; Thk.= 14"; Perm #54
170 111+63E @ 99+10N; Thk.= 13"; Perm #55
171 110+50E @ 99+05N; Thk.= 13 1/2"
172 111+25E @ 97+50N, Thk.= 12 1/2"
173 110+80E @ 98+25N, Thk = 13 1/2", Perm #56
174 112+70E @ 98+15N, Thk = 13"

TEST COMPARED TO.

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 4	109.9	16.7
CL 2	103.6	20.8

REMARKS

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* 2nd Lift Clay
* * 2nd Lift Clay @ D-13

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REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT: Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR DEPTH~~
		Tests	Performed	on 08/04/97			
165A	17.7	105.0	5	87 <<	90	3	*
175	18 4	102.0	5	85 <<	90	3	*
176	14 0	108.6	3	90	90	3	*
177	15.8	108.5	5	90	90	3	*
178	10.8	113.5	4	91	90	3	*
179	11 2	112.1	4	90	90	3	*
180	10 9	114.0	4	92	90	3	*
181	17 8	103.0	5	86 <<	90	3	*

TEST LOCATIONS

165A	106+25E @ 98+40N, Thk = 18"+	Retested Test No. 165B on 8/6/97
175	105+25E @ 98+40N; Thk = 18"+	Retested Test No. 175A on 8/6/97
176	103+80E @ 98+40N; Thk.= 18"+	
177	102+75E @ 98+25N; Thk.= 18"+	
178	106+35E @ 99+15N; Thk.= 15"	
179	105+15E @ 99+10N, Thk.= 16"	
180	103+50E @ 99+25N; Thk.= 16"	
181	102+30E @ 99+10N; Thk.= 18"+	Retested Test No. 181A on 8/5/97

TEST COMPARED TO

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 5	120.1	13 1
IC 3	120.7	10 6
IC 4	124 2	11.2

REMARKS

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REPORT OF FIELD DENSITY TESTS

CLIENT. England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT: Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR DEPTH~~
		Tests	Performed	on 08/05/97			
164 B	13.8	110.7	5	92	90	3	**
166 B	19.7	101.2	5	84 <<	90	3	*
166 C	17.3	106.0	5	88 <<	90	3	*
167 A	18.2	102.5	5	85 <<	90	3	*
168 A	13.9	110.9	3	92	90	3	*
181 A	13.9	108.1	5	90	90	3	*

TEST LOCATIONS.

164 B	106+93E @ 99+15N; Thk.= 14"
166 B	106+15E @ 97+55N Retested Test No. 166D on 8/11/97
166 C	106+15E @ 97+55N Retested Test No. 166D on 8/11/97
167 A	104+75E @ 97+65N Retested Test No. 167B on 8/11/97
168 A	103+45E @ 97+65N
181 A	102+30E @ 99+10N, Thk.= 18"+

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 5	120.1	13.1
IC 3	120.7	10.6

REMARKS

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REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO..** 40562-7-3268

PROJECT: Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR DEPTH~~
		Tests	Performed	on 08/06/97			
162 B	15.2	108.2	5	90	90	3	**
163 B	12 6	108.8	3	90	90	3	**
165 B	15 1	107.6	5	90	90	3	*
175 A	13.3	109.3	5	91	90	3	*

TEST LOCATIONS

162 B	106+93E @ 97+60N; Thk.= 18"+
163 B	106+93E @ 98+40N, Thk.= 12 1/2"
165 B	106+25E @ 98+40N; Thk = 18"+
175 A	105+25E @ 98+40N, Thk = 18"+

TEST COMPARED TO.

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 5	120.1	13.1
IC 3	120.7	10.6

REMARKS

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REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO·** 40562-7-3268

PROJECT: Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR~~ ~~DEPTH~~
		Tests	Performed	on 08/11/97			
166D	14.6	107.9	5	90	90	3	*
167B	13 9	108.2	5	90	90	3	*
182	23.5	97.1	2	94	90	3	**
183	23.2	96.7	2	93	90	3	**
184	23.8	97.3	2	94	90	3	**

TEST LOCATIONS:

166D	106+15E @ 97+55N; Thk.= 18"+
167B	104+75E @ 97+65N, Thk.= 18"+
182	106+93E @ 97+60N; Thk = 10", Perm #57
183	106+93E @ 98+20N; Thk.= 6 1/4", Perm #58
184	106+93E @ 99+10N, Thk.= 7"; Perm #59

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 5	120.1	13.1
CL 2	103.6	20 8

REMARKS

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** 1st Lift Clay Layer @ D-10

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REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO..** 40562-7-3268

PROJECT Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR DEPTH~~
		Tests	Performed	on 08/13/97			
185	21.0	100.7	4	92	90	3	*
186	24.6	95.0	2	92	90	3	*

TEST LOCATIONS:

185 105+45E @ 97+70N, Thk = 8 1/2"; Perm #60
186 103+95E @ 97+60N; Thk.= 7 3/4"

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 4	109.9	16.7
CL 2	103.6	20.8

REMARKS

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* 1st Lift Clay Layer

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REPORT OF FIELD DENSITY TESTS

CLIENT. England, Thims & Miller **JOB NO:** 40562-7-3268

PROJECT: Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR~~ ~~DEPTH~~
		Tests	Performed	on 08/14/97			
187	25 1	93.7	2	90	90	3	*
188	24 7	95.8	2	92	90	3	*
189	25 4	96.5	2	93	90	3	*

TEST LOCATIONS:

187 106+93E @ 97+70N, Thk.= 18"; Perm #61
188 106+93E @ 98+45N, Thk = 15"; Perm #62
189 106+93E @ 99+00N; Thk.= 12 1/2"; Perm #63

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 2	103.6	20.8

REMARKS

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* 2nd Lift Clay Layer @ D-10

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REPORT OF FIELD DENSITY TESTS

CLIENT. England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT. Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR~~ ~~DEPTH~~
		Tests	Performed	on 08/15/97			
190	24.5	93.1	2	90	90	3	*
191	24.0	94.2	2	91	90	3	*
192	25 4	95.3	2	92	90	3	*
193	23.8	93.8	2	91	90	3	*

TEST LOCATIONS

190 104+05E @ 98+30N, Thk = 6 3/4", Perm #64
191 105+85E @ 98+40N; Thk.= 9 1/2"
192 104+40E @ 98+95N; Thk.= 7 1/4"
193 106+10E @ 99+05N; Thk = 8 3/4"; Perm #65

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 2	103 6	20.8

REMARKS

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* 1st Lift Clay Layer

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REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO** · 40562-7-3268

PROJECT: Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 08/21/97			
194	24.2	94.4	2	91	90	3	*
195	17 1	98.7	2	95	90	3	**
196	18.5	101.1	4	92	90	3	**
197	22.1	98.2	2	95	90	3	**
198	17.7	102.3	4	93	90	3	**
199	18 9	101.9	4	93	90	3	**
		Tests	Performed	on 08/22/97			
200	15.6	106.7	4	97	90	3	**
201	19.1	101.4	4	92	90	3	**

TEST LOCATIONS.

194	102+65E @ 99+15N; Thk.= 6 1/2
195	105+60E @ 99+10N, Thk = 12"
196	103+10E @ 99+10N; Thk.= 12"; Perm #66
197	105+95E @ 98+25N, Thk = 12 1/2
198	104+45E @ 98+50N; Thk.= 13 1/4"; Perm #67
199	103+05E @ 98+30N, Thk = 12 3/4"
200	103+70E @ 97+50N, Thk.= 12 1/2"; Perm #68
201	106+15E @ 97+60N, Thk = 12"

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 2	103 6	20.8
CL 4	109.9	16.7

REMARKS

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* 1st Lift Clay
** 2nd Lift Clay

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REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO:** 40562-7-3268

PROJECT: Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests	Performed	on 09/03/97			
202	10.9	112.7	6	93	90	3	*
203	11.7	109.0	6S	97	90	3	*
204	7.2	117.2	6	96	90	3	*
205	13.9	107.4	6S	96	90	3	*
206	10 4	111.8	6S	100	90	3	*
207	10 8	111.6	6S	100	90	3	*

TEST LOCATIONS:

202	102+33E @ 97+63N;	Thk.= 18"+
203	102+10E @ 96+33N;	Thk.= 16"
204	102+18E @ 95+13N,	Thk.= 18"+
205	102+14E @ 94+40N;	Thk.= 18"+
206	101+46E @ 94+90N,	Thk = 18"+
207	101+37E @ 96+25N,	Thk.= 18"+

TEST COMPARED TO.

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 6	121.6	11.5
IC 6S	112 2	15.0

REMARKS

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REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO** 40562-7-3268

PROJECT Trailridge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR~~ ~~DEPTH~~
		Tests	Performed	on 09/05/97			
208	11.2	110.1	6S	98	90	3	*
209	12.1	108.4	6S	97	90	3	*
210	9.2	112.5	6	93	90	3	*
211	13.9	111.1	6S	99	90	3	*
212	12.5	111.2	6S	99	90	3	*
213	12.9	109.2	6S	97	90	3	*
214	12.1	108.4	6S	97	90	3	*
215	14.4	111.0	6S	99	90	3	*
216	13.2	110.4	6S	98	90	3	*
217	8.4	112.2	6	92	90	3	*
218	10.1	107.6	6S	96	90	3	*
TEST LOCATIONS.							
208	101+55E @ 97+40N; Thk.= 18"+						
209	101+48E @ 98+40N; Thk.= 18"+						
210	101+45E @ 99+03N; Thk.= 17"						
211	100+85E @ 99+05N; Thk.= 17"						
212	100+95E @ 98+58N; Thk.= 18"+						
213	100+94E @ 97+50N, Thk.= 18"+						
214	100+97E @ 96+47N; Thk.= 17"						
215	100+95E @ 95+60N, Thk.= 18"+						
216	100+90E @ 94+53N, Thk.= 18"+						
217	101+43E @ 93+87N, Thk.= 18"						
218	102+25E @ 93+60N, Thk.= 16"						

TEST COMPARED TO.

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 6S	112.2	15.0
IC 6	121.6	11.5

REMARKS

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REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO..** 40562-7-3268

PROJECT: TrailRidge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR DEPTH~~
		Tests Performed on 09/08/97					
219	22.8	99.2	2	96	90	3	*
220	23 1	97.1	2	94	90	3	*
221	23 4	96.8	2	93	90	3	*
222	24.8	97.6	2	94	90	3	*
223	28.5	93.4	2	90	90	3	*
224	27 2	93.6	2	90	90	3	*

TEST LOCATIONS.

219 101+78E @ 98+12N, Thk.= 6 5"; Perm #69
220 102+48E @ 97+64N, Thk.= 7"
221 102+25E @ 96+77N, Thk.= 6", Perm #70
222 102+20E @ 95+65N, Thk.= 6 5"
223 101+33E @ 95+40N, Thk.= 6.5"; Perm #71
224 101+38E @ 96+40N, Thk.= 6"

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 2	103.6	20.8

REMARKS

Performed In General Accordance With
3 - ASTM D2922

* Top of 1st 6 Inch Lift of Clay

RESPECTFULLY SUBMITTED:

Bryant B. Wildes

Bryant B. Wildes

LAW ENGINEERING

Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT. England, Thims & Miller **JOB NO.** 40562-7-3268

PROJECT: TrailRidge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR DEPTH~~
		Tests	Performed	on 09/09/97			
225	12.3	110.2	6	91	90	3	*
226	8.7	109.8	6S	98	90	3	*
227	11.7	108.2	6S	96	90	3	*

TEST LOCATIONS:

225	100+95E @ 93+31N	Downcomer	D5; Thk.= 17"
226	101+60E @ 93+31N	Downcomer	D5; Thk.= 15"
227	102+31E @ 93+31N	Downcomer	D5; Thk.= 13"

TEST COMPARED TO

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 6	121.6	11.5
IC 6S	112.2	15.0

REMARKS

Performed In General Accordance With.
3 - ASTM D2922

* Top of Initial Cover

RESPECTFULLY SUBMITTED:

Bryant B. Wildes

Bryant B. Wildes

LAW ENGINEERING

Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT: TrailRidge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR DEPTH~~
		Tests	Performed	on 09/10/97			
228	24.0	98.9	2	95	90	3	*
229	23 8	98.6	2	95	90	3	*
230	22.5	101.6	2	98	90	3	**
231	24 6	97.7	2	94	90	3	**
232	26 3	97.9	2	95	90	3	**
233	25.0	96 2	2	93	90	3	***
234	25.7	97.0	2	94	90	3	***
235	25 2	98.1	2	95	90	3	***

TEST LOCATIONS·

228	100+94E @ 94+24N; Thk.= 6 1/2"
229	102+10E @ 94+25N; Thk = 7", Perm #72
230	102+08E @ 93+31N, Thk.= 7", Perm #73
231	101+30E @ 93+31N, Thk.= 7 1/4"; Perm #74
232	100+90E @ 93+31N; Thk.= 7"; Perm #75
233	102+42E @ 93+31N; Thk.= 13", Perm #76
234	101+65E @ 93+31N; Thk.= 12 1/2"; Perm #77
235	100+96E @ 93+31N; Thk.= 14", Perm #78

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 2	103.6	20 8

REMARKS

Performed In General Accordance With:
3 - ASTM D2922

* 1st 6" Lift Clay
** Downcomer D5 1st 6" Lift of Clay
*** Downcomer 2nd 6" Lift of Clay

RESPECTFULLY SUBMITTED:

Bryant B. Wildes
Bryant B. Wildes

LAW ENGINEERING

Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT: TrailRidge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR DEPTH~~
		Tests	Performed	on 09/11/97			
236	8.1	112.8	1	91	90	3	*
237	9 0	113.6	1	92	90	3	*
238	8 5	113.0	1	91	90	3	*
239	8.0	112.2	1	90	90	3	*

TEST LOCATIONS

236 101+45E @ 92+53N, Thk.= 14"
237 102+17E @ 92+37N; Thk.= 15"
238 100+98E @ 92+20N; Thk.= 13"
239 101+48E @ 91+45N; Thk.= 12"

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 1	124.1	10.6

REMARKS

Performed In General Accordance With
3 - ASTM D2922

* Top of Initial Cover

RESPECTFULLY SUBMITTED:

Bryant B Wildes

Bryant B Wildes

LAW ENGINEERING

Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT: TrailRidge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR DEPTH~~
		Tests	Performed	on 09/12/97			
240	31.4	91.4	1	97	90	3	*
241	28.0	92.3	1	98	90	3	*
242	31.5	92.9	1	98	90	3	*
243	29 9	92.6	1	98	90	3	*
244	27.3	93.5	1	99	90	3	**
245	26.8	91.1	1	96	90	3	**
246	27.5	90.4	1	96	90	3	**
247	28.1	92.1	1	97	90	3	**
248	26.9	91.4	1	97	90	3	**
249	23.8	95.0	2	92	90	3	**
250	23.1	96.9	2	94	90	3	**
TEST LOCATIONS:							
240	102+35E @ 92+75N; Thk.= 7 1/4"						
241	101+57E @ 92+75N; Thk.= 7"; Perm #79						
242	101+17E @ 91+65N; Thk.= 6"						
243	101+95E @ 91+95N, Thk = 6 3/4"; Perm #80						
244	101+10E @ 98+78N, Thk.= 12 3/4"; Perm #81						
245	102+33E @ 98+82N; Thk.= 12 1/2"						
246	101+38E @ 97+70N; Thk.= 13 1/2"						
247	102+35E @ 97+45N; Thk.= 13"; Perm #82						
248	102+08E @ 96+35N, Thk.= 12 1/2"						
249	100+95E @ 96+53N; Thk.= 13"; Perm #83						
250	101+05E @ 95+55N; Thk.= 13 1/4"						

TEST COMPARED TO.

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 1	94.6	23 3
CL 2	103.6	20 8

REMARKS

Performed In General Accordance With:
3 - ASTM D2922

* Top of 1st 6" Lift Clay
** Top of 2nd 6" Lift Clay

RESPECTFULLY SUBMITTED:

Bryant B Wildes

Bryant B Wildes

LAW ENGINEERING

Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT. England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT: TrailRidge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
		Tests Performed on 09/12/97					
251	24.4	96.3	2	93	90	3	**
252	27 9	90 1	1	95	90	3	**
253	26.9	91 4	1	97	90	3	**
254	27.1	91.9	1	97	90	3	**
255	24.1	96.6	2	93	90	3	**

TEST LOCATIONS

251 101+55E @ 94+35N; Thk.= 13"; Perm #84
252 100+95E @ 92+87N, Thk.= 13 1/4"
253 102+20E @ 92+80N, Thk.= 13"; Perm #85
254 101+55E @ 92+25N, Thk.= 14"
255 100+98E @ 91+73N, Thk.= 12 1/2"; Perm #86

TEST COMPARED TO.

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
CL 2	103.6	20 8
CL 1	94.6	23 3

REMARKS

Performed In General Accordance With
3 - ASTM D2922

** Top of 2nd 6" Lift Clay

RESPECTFULLY SUBMITTED:

Bryant B Wildes

LAW ENGINEERING

Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT: England, Thims & Miller **JOB NO.:** 40562-7-3268

PROJECT: TrailRidge Landfill Incremental Closure
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR DEPTH~~
		Tests	Performed	on 09/18/97			
256	8.0	113.9	1	92	90	3	*
257	21 6	96 6	2	93	90	3	**
258	21.9	97.4	2	94	90	3	***

TEST LOCATIONS:

256 102+35E @ 91+55N, Thk.= 15"
257 102+15E @ 91+50N, Thk.= 6 1/2"
258 102+25E @ 91+28N; Thk.= 12 1/2"

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
IC 1	124.1	10 6
CL 2	103.6	20 8

REMARKS

Performed In General Accordance With:
3 - ASTM D2922

* Top of Initial Cover
** Top of 1st 6" Lift of Clay
*** Top of 2nd 6" Lift of Clay

RESPECTFULLY SUBMITTED.

Bryant B Wildes

Bryant B Wildes

Appendix B
Record of Daily Rainfall

RAINFALL LOG
for
TRAIL RIDGE LANDFILL
INCREMENTAL CLOSURE

April, 1997
Month

DAY	DATE	TIME	RAINFALL (IN)	COMMENTS
TUE	4-1-97			
WED	4-2-97			
THU	4-3-97			
FRI	4-4-97			
SAT	4-5-97			
SUN	4-6-97			
MON	4-7-97			
TUE	4-8-97			
WED	4-9-97			
THU	4-10-97			
FRI	4-11-97			
SAT	4-12-97			
SUN	4-13-97			
MON	4-14-97			
TUE	4-15-97			
WED	4-16-97			
THU	4-17-97			
FRI	4-18-97			
SAT	4-19-97			
SUN	4-20-97			
MON	4-21-97			
TUE	4-22-97			
WED	4-23-97		2.30	As per TRLF (gauge @ Leachate tanks)
THU	4-24-97		0.00	
FRI	4-25-97		0.00	
SAT	4-26-97		↓	1.3" read at noon Sat.
SUN	4-27-97		4.08"	From Sat to Mon. 7AM.
MON	4-28-97		0.45	
TUE	4-29-97		0.00	
WED	4-30-97		0.00	
TOTAL RAINFALL				

Signature

RAINFALL LOG
for
TRAIL RIDGE LANDFILL
INCREMENTAL CLOSURE

May, 1997
Month

DAY	DATE	TIME	RAINFALL (IN)	COMMENTS
THU	5-1-97		0.00	
FRI	5-2-97		0.00	
SAT	5-3-97		0.13	
SUN	5-4-97		0.00	
MON	5-5-97		0.00	
TUE	5-6-97		0.00	
WED	5-7-97		0.00	
THU	5-8-97		0.00	
FRI	5-9-97		0.00	
SAT	5-10-97		0.00	
SUN	5-11-97		0.00	
MON	5-12-97		0.59	0.23" by 3:30 AM rest of evening
TUE	5-13-97		0.00	
WED	5-14-97		0.00	
THU	5-15-97		0.00	
FRI	5-16-97		0.00	
SAT	5-17-97		0.00	
SUN	5-18-97		0.00	
MON	5-19-97		0.00	
TUE	5-20-97		0.00	
WED	5-21-05		0.00	
THU	5-22-97		0.00	
FRI	5-23-97		0.00	
SAT	5-24-97		0.00	
SUN	5-25-97		1.05	
MON	5-26-97		0.00	
TUE	5-27-97		0.61	
WED	5-28-97		TRACE	
THU	5-29-97		TRACE	
FRI	5-30-97		0 00	
SAT	5-31-97		0.00	
		TOTAL RAINFALL	2.38	

Signature

RAINFALL LOG
for
TRAIL RIDGE LANDFILL
INCREMENTAL CLOSURE

June, 1997
Month

DAY	DATE	TIME	RAINFALL (IN)	COMMENTS
SUN	6-1-97		1.19	
MON	6-2-97		0.00	
TUE	6-3-97		0.00	
WED	6-4-97		0.05	
THU	6-5-97		0.35	
FRI	6-6-97		TRACE	
SAT	6-7-97		0.00	
SUN	6-8-97		0.00	
MON	6-9-97		0.00	
TUE	6-10-97		0.00	
WED	6-11-97		0.10	
THU	6-12-97		0.24	0.14 in early am
FRI	6-13-97		0.24	
SAT	6-14-97		0.47	
SUN	6-15-97		0.00	
MON	6-16-97		0.00	
TUE	6-17-97		0.12	
WED	6-18-97		0.41	0.27 btw 12:00 and 4:30pm
THU	6-19-97		0.70	
FRI	6-20-97		0.13	
SAT	6-21-97		0.00	
SUN	6-22-97		0.00	
MON	6-23-97		TRACE	
TUE	6-24-97		0.00	
WED	6-25-97		0.00	
THU	6-26-97		0.00	
FRI	6-27-97		0.00	
SAT	6-28-97		0.00	
SUN	6-29-97		0.70	
MON	6-30-97		0.04	0.03 EG
	TOTAL RAINFALL		4.74	

Signature

RAINFALL LOG
for
TRAIL RIDGE LANDFILL
INCREMENTAL CLOSURE

July, 1997
Month

DAY	DATE	TIME	RAINFALL (IN)	COMMENTS
TUE	7-1-97		1.21	.47 EG
WED	7-2-97		0.00	
THU	7-3-97		0.00	
FRI	7-4-97		↑	
SAT	7-5-97		1.55	1.57 EG 1.60 per TRLF
SUN	7-6-97		↓	
MON	7-7-97		0.20	0.15"
TUE	7-8-97		0.00	
WED	7-9-97		0.00	
THU	7-10-97		0.00	
FRI	7-11-97		0.00	
SAT	7-12-97		0.00	
SUN	7-13-97		0.00	
MON	7-14-97		0.00	
TUE	7-15-97		0.00	
WED	7-16-97		TRACE	
THU	7-17-97		0.00	
FRI	7-18-97		0.13	0.11 in EG
SAT	7-19-97		0.13	0.10 EG
SUN	7-20-97		0.00	
MON	7-21-97		0.00	
TUE	7-22-97		0.40	0.38 EG
WED	7-23-97		0.00	
THU	7-24-97		0.03	0.02 EG
FRI	7-25-97		0.01	0.01 EG
SAT	7-26-97		0.00	
SUN	7-27-97		1.06	0.79 EG
MON	7-28-97		0.00	
TUE	7-29-97		0.00	
WED	7-30-97		0.00	
THU	7-31-97		1.05	
		TOTAL RAINFALL	5.77	

Signature

RAINFALL LOG
for
TRAIL RIDGE LANDFILL
INCREMENTAL CLOSURE

August, 1997
Month

DAY	DATE	TIME	RAINFALL (IN)	COMMENTS
FRI	8-1-97 /		.55	DURING DAY
SAT	8-2-97 /		↕ $2.16	
SUN	8-3-97			3.76 TOTAL FROM 7/31/97 to 9/3/97
MON	8-4-97 /		0.00	
TUE	8-5-97		0.00	
WED	8-6-97		1.97	
THU	8-7-97 /		.15	
FRI	8-8-97 /		↑	
SAT	8-9-97 /		0.05	
SUN	8-10-97		↓	
MON	8-11-97		TRACE	
TUE	8-12-97 /		1.05	started at about 3:30 pm
WED	8-13-97 / ½		0.01	
THU	8-14-97		0.00	
FRI	8-15-97 /		↑	Mostly
SAT	8-16-97 /		2.10	
SUN	8-17-97		↓	
MON	8-18-97 ½		0.00	
TUE	8-19-97		1.00	
WED	8-20-97 /		0.00	
THU	8-21-97		0.00	
FRI	8-22-97		0.00	
SAT	8-23-97		0.13	
SUN	8-24-97		0.00	
MON	8-25-97		0.00	
TUE	8-26-97		0.00	
WED	8-27-97		0.00	
THU	8-28-97		0.00	
FRI	8-29-97		0.00	
SAT	8-30-97		0.53	0.57 EG
SUN	8-31-97		0.00	
	TOTAL RAINFALL		9.7	

Signature

RAINFALL LOG
for
TRAIL RIDGE LANDFILL
INCREMENTAL CLOSURE

September, 1997
Month

DAY	DATE	TIME	RAINFALL (IN)	COMMENTS
MON	9-1-97		0.00	
TUE	9-2-97		0.00	
WED	9-3-97		0.00	
THU	9-4-97		0.05	
FRI	9-5-97		0.00	
SAT	9-6-97		0.00	
SUN	9-7-97		0.00	
MON	9-8-97		0.00	
TUE	9-9-97		0.00	
WED	9-10-97		0.00	
THU	9-11-97		0.00	
FRI	9-12-97		0.00	
SAT	9-13-97		0.00	
SUN	9-14-97		0.00	
MON	9-15-97		0.00	A TRACE OF RAIN NO ACCUMULATION
TUE	9-16-97		0.00	
WED	9-17-97		0.00	
THU	9-18-97		0.00	
FRI	9-19-97		0.00	
SAT	9-20-97		0.00	
SUN	9-21-97		0.06	
MON	9-22-97		0.12	
TUE	9-23-97		0.15	
WED	9-24-97		0.00	
THU	9-25-97		0.00	
FRI	9-26-97		.60	
SAT	9-27-97		1.0	
SUN	9-28-97		1.0	
MON	9-29-97		0.0	
TUE	9-30-97		0.0	
		TOTAL RAINFALL	2.92	

Ken Bunnell
Signature

RAINFALL LOG
for
TRAIL RIDGE LANDFILL
INCREMENTAL CLOSURE

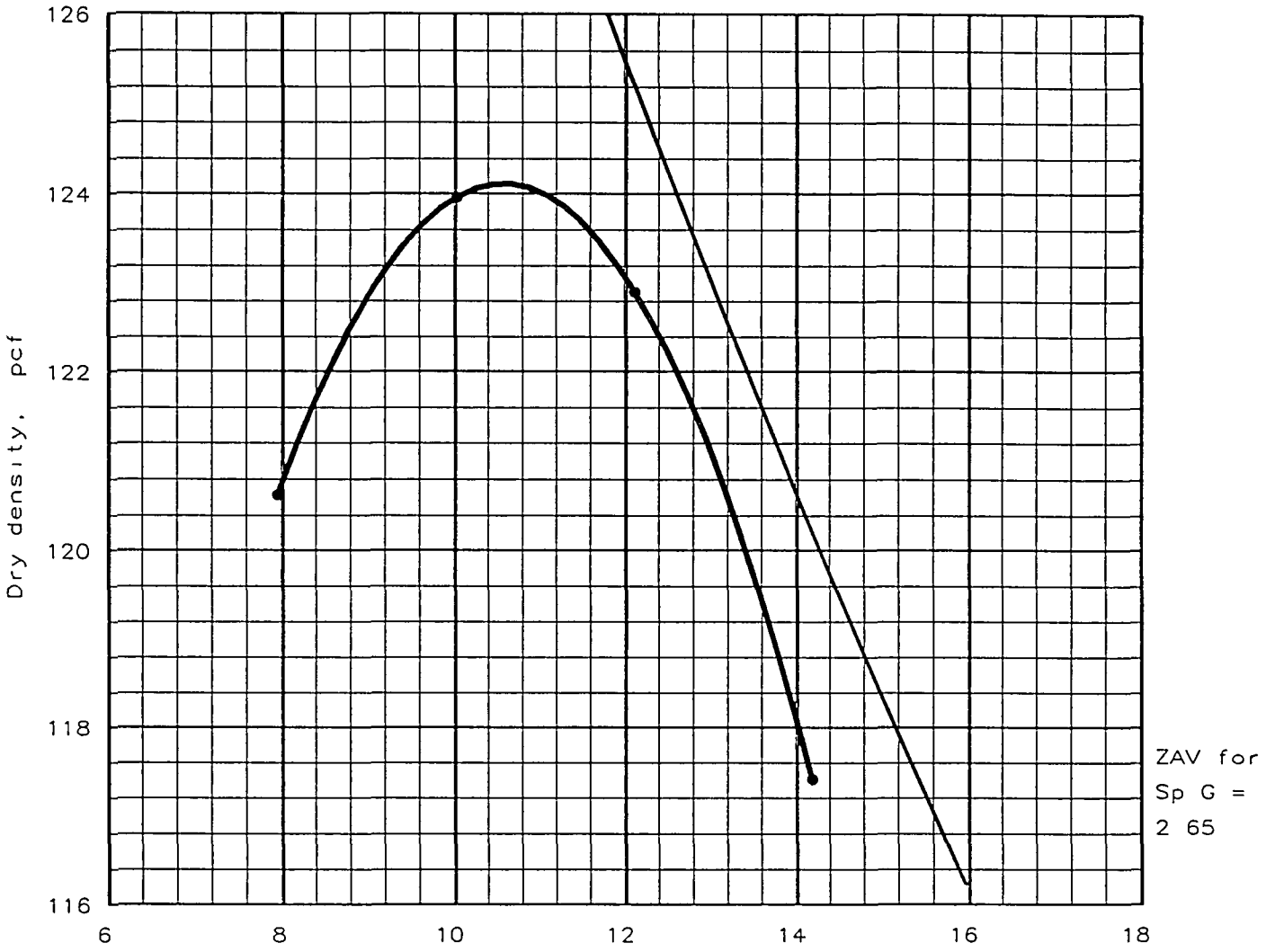
October, 1997
Month

DAY	DATE	TIME	RAINFALL (IN)	COMMENTS
WED	10-1-97		0.0	
THU	10-2-97		0.0	
FRI	10-3-97		0.0	
SAT	10-4-97		0.0	LIGHT SHOWERS NO ACCUMULATION
SUN	10-5-97		0.0	
MON	10-6-97		0.0	
TUE	10-7-97		0.0	
WED	10-8-97		0.0	
THU	10-9-97		0.0	
FRI	10-10-97		0.0	
SAT	10-11-97		0.0	
SUN	10-12-97		0.0	
MON	10-13-97		0.0	
TUE	10-14-97		0 0	
WED	10-15-97	12:30-1:30	.22	
THU	10-16-97		0.0	
FRI	10-17-97		0.0	
SAT	10-18-97		0.06	
SUN	10-19-97		0.0	
MON	10-20-97		0.0	
TUE	10-21-97		0.0	
WED	10-22-97		0.0	
THU	10-23-97		0.0	
FRI	10-24-97		0.2	
SAT	10-25-97		0.0	
SUN	10-26-97		0 0	
MON	10-27-97		4.2	
TUE	10-28-97			
WED	10-29-97			
THU	10-30-97			
FRI	10-31-97			
		TOTAL RAINFALL		

Ken Bunnell
Signature

Appendix C
Proctor Test Reports/Grain Size Distribution Test Reports

MOISTURE-DENSITY RELATIONSHIP TEST



Test specification ASTM D 1557-91 Procedure A, Modified

Elev/ Depth	Classification		Nat Moist	Sp G	LL	PI	% > No 4	% < No 200
	USCS	AASHTO						
	SC	A-4					0 0 %	36 7 %

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 124 1 pcf Optimum moisture = 10 6 %	Light Grey and Light Tan Clayey Fine SAND

Project No 40562-7-3268
Project TrailRidge Landfill Incremental Closure
Client England-Thims & Miller, Inc
Location First Terrace at Sta 90+00N, 125+80E

Date 4-21-97

Remarks

Proctor No IC-1

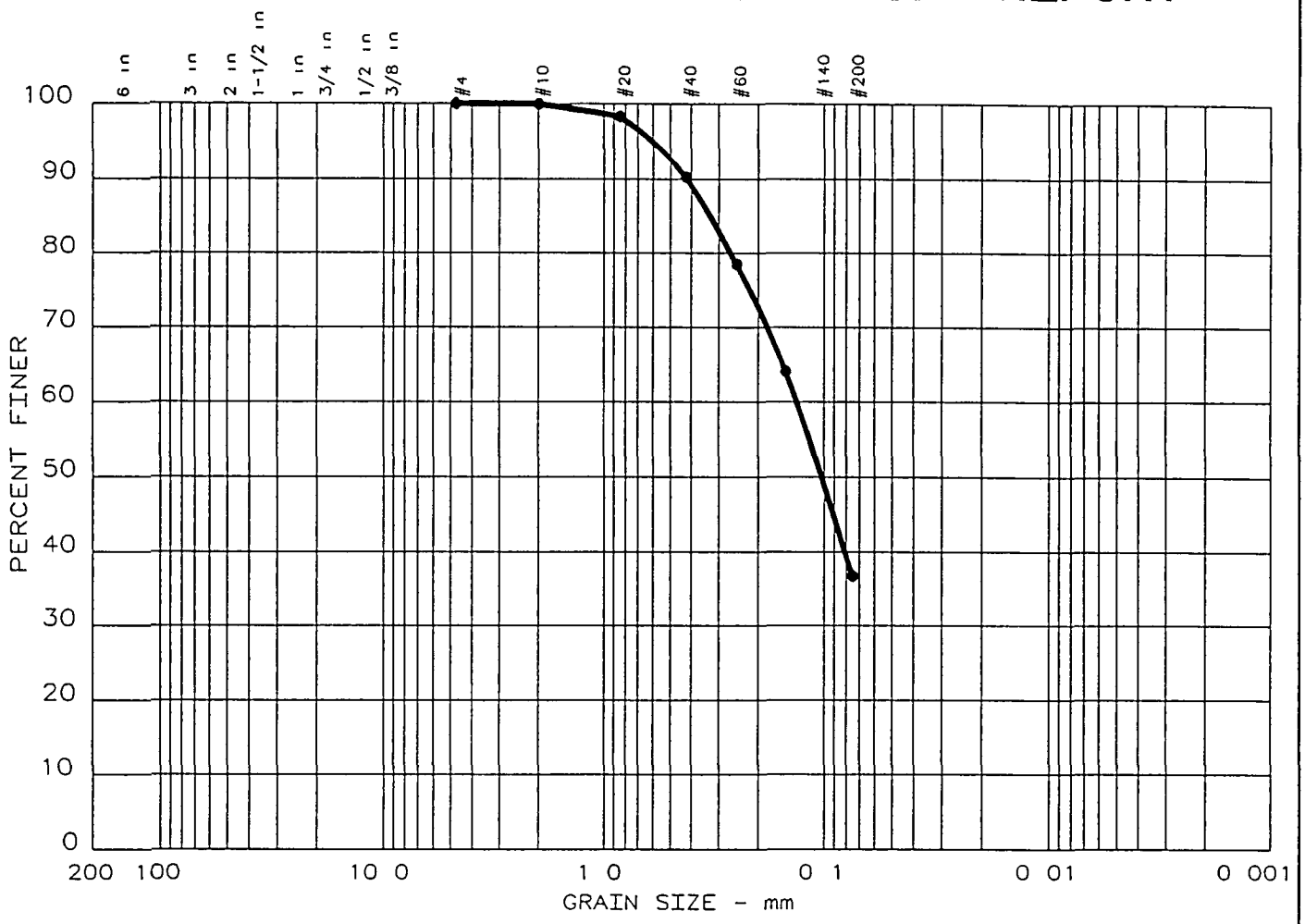
Intermediate Cover

MOISTURE-DENSITY RELATIONSHIP TEST

LAW ENGINEERING INC.

Reviewed By Bryant B Wilder

GRAIN SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	0 0	0 0	63 3	36 7	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
●			0 327	0 133	0 103					

MATERIAL DESCRIPTION	USCS	AASHTO
● Light Grey and Light Tan Clayey Fine SAND	SC	A-4

Project No 40562-7-3268
Project Trail Ridge Landfill Incremental Closure
Client England-Thims & Miller, Inc
● Location First Terrace at Sta 90+00N, 125+80E

Date 4-23-97

Remarks

Proctor No IC-1

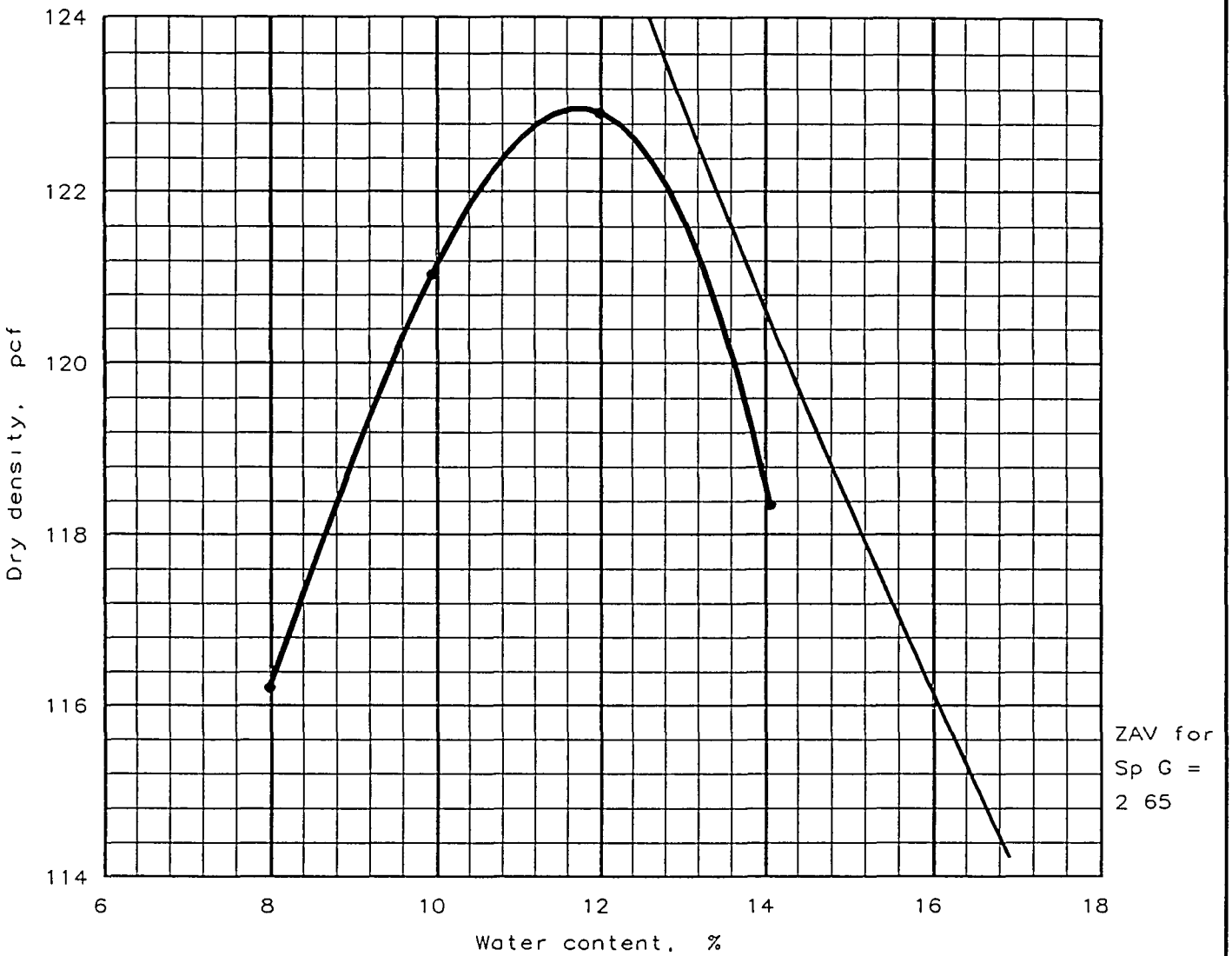
Intermediate Cover

GRAIN SIZE DISTRIBUTION TEST REPORT

LAW ENGINEERING

Reviewed By Bryant B. Wilder

MOISTURE-DENSITY RELATIONSHIP TEST



Test specification ASTM D 1557-91 Procedure A, Modified

Elev/ Depth	Classification		Nat Moist	Sp G	LL	PI	% > No 4	% < No 200
	USCS	AASHTO						
	SC	A-2-4					0 0 %	35 2 %

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 123 0 pcf Optimum moisture = 11 7 %	Orange and Grey Clayey Fine SAND

Project No 40562-7-3268
Project TrailRidge Landfill Incremental Closure
Client England-Thims & Miller, Inc
Location Station 93+60N and 123+50E

Date 5-8-97

Remarks

Proctor No IC-2

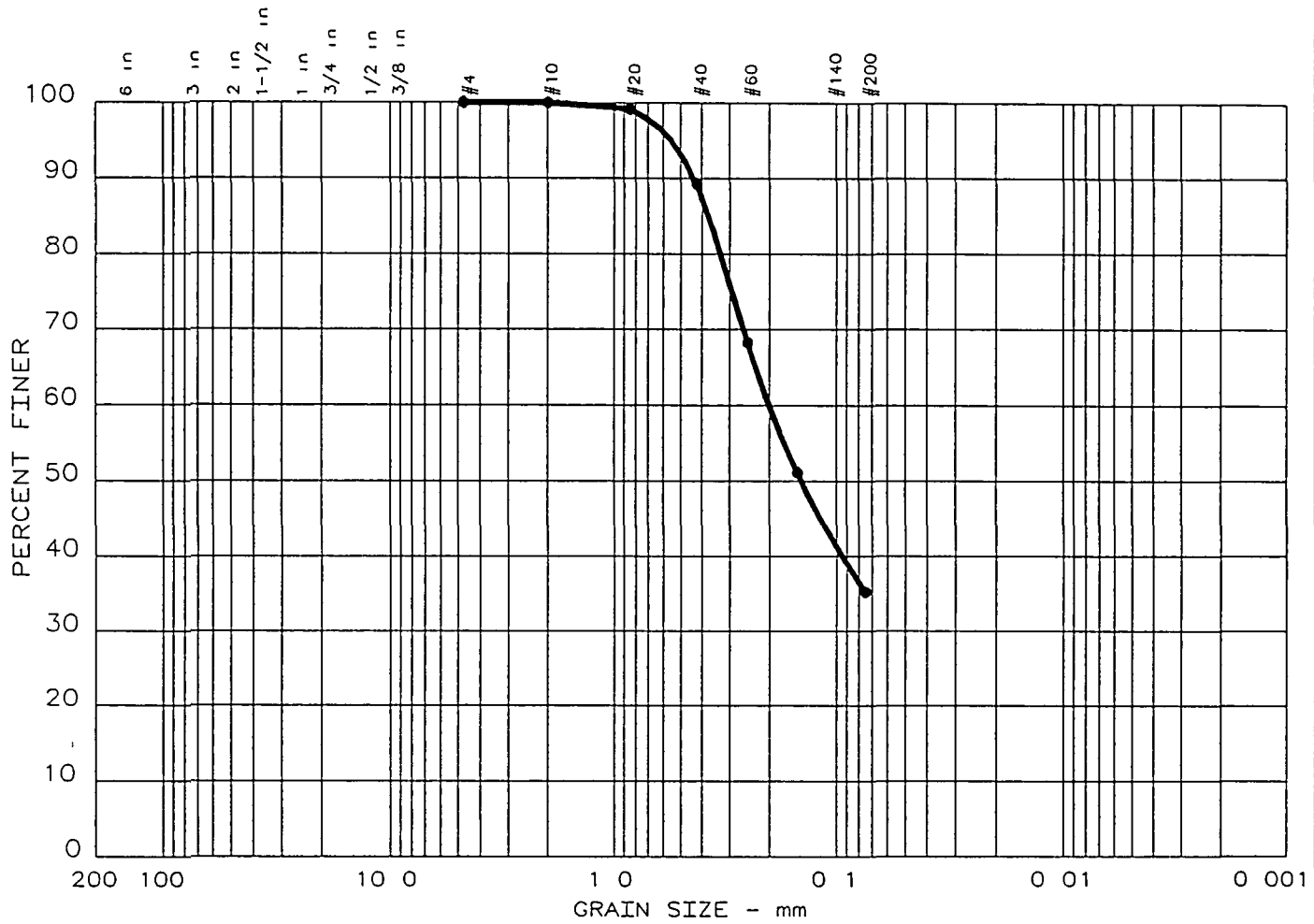
Intermediate Cover

MOISTURE-DENSITY RELATIONSHIP TEST

LAW ENGINEERING INC.

Reviewed By Bryant B. Wilder

GRAIN SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	0 0	0 0	64 8	35 2	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
●			0 375	0 199	0 144					

MATERIAL DESCRIPTION	USCS	AASHTO
● Orange and Grey Clayey Fine SAND	SC	A-2-4

Project No 40562-7-3268
Project TrailRidge Landfill Incremental Closure
Client England-Thims & Miller, Inc
● Location Station 93+60N and 123+50E

Date 5-8-97

Remarks

Proctor No IC-2

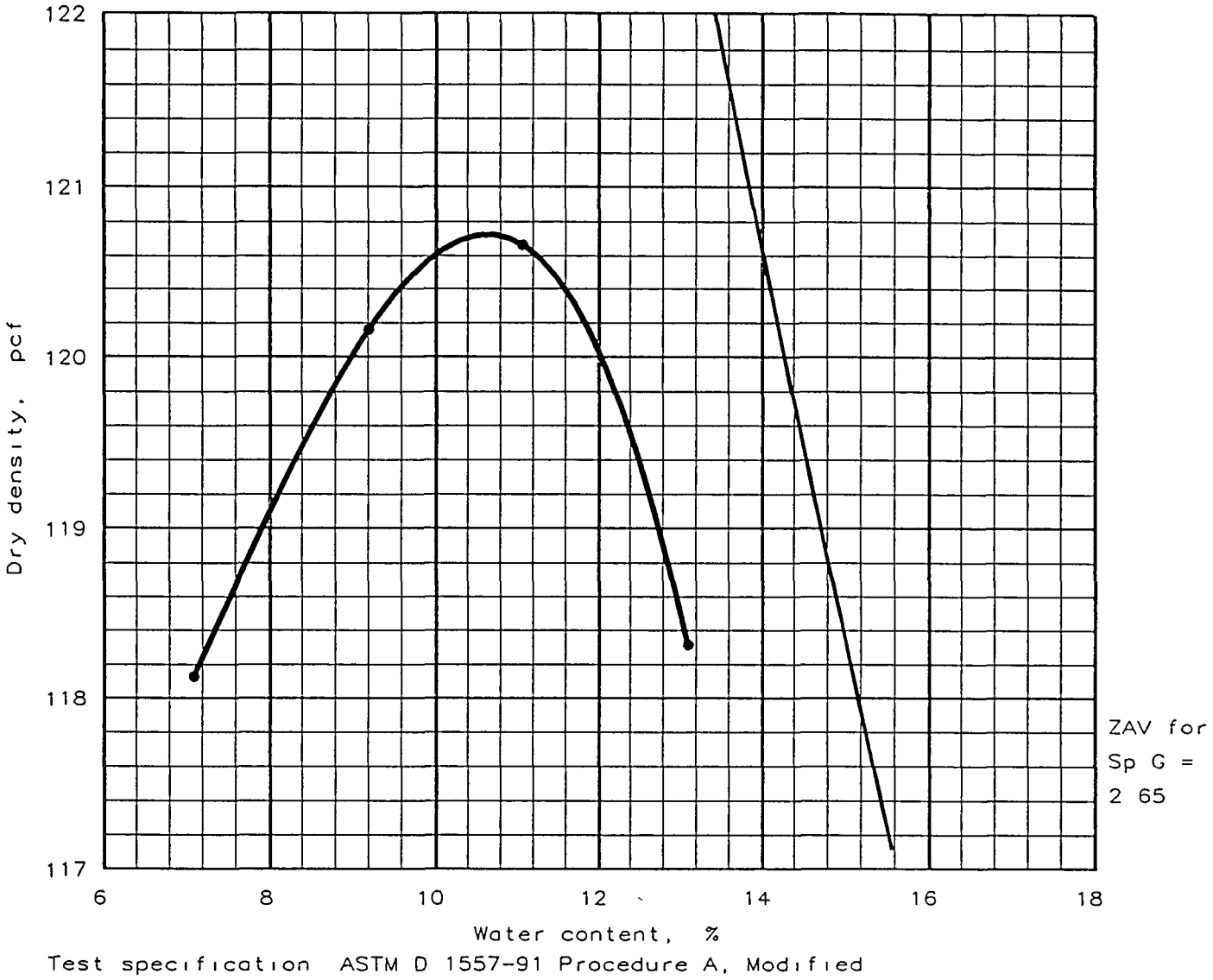
Intermediate Cover

GRAIN SIZE DISTRIBUTION TEST REPORT

LAW ENGINEERING

Reviewed By Bryant B. Wilder

MOISTURE-DENSITY RELATIONSHIP TEST



Test specification ASTM D 1557-91 Procedure A, Modified

Elev/ Depth	Classification		Nat Moist	Sp G	LL	PI	% > No 4	% < No 200
	USCS	AASHTO						
	SC	A-2-4					0 0 %	19 8 %

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 120 7 pcf Optimum moisture = 10 6 %	Light Grey Clayey Fine SAND

Project No 40562-7-3268
Project TrailRidge Landfill Incremental Closure
Client England-Thims & Miller, Inc
Location Station 93+85N and 123+00E

Date 5-8-97

Remarks

Proctor No IC-3

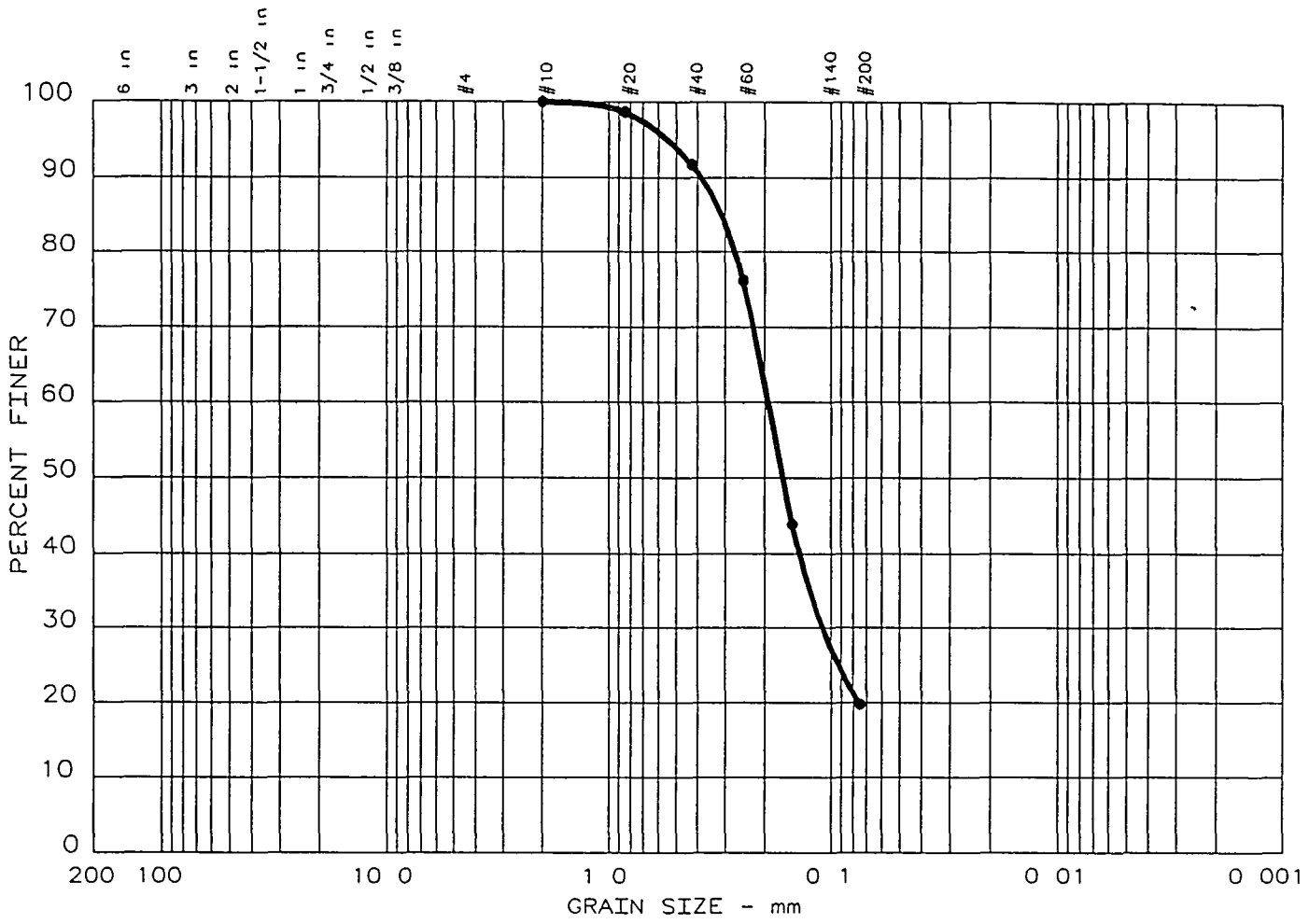
Intermediate Cover

MOISTURE-DENSITY RELATIONSHIP TEST

LAW ENGINEERING INC.

Reviewed By Bryant B Walden

GRAIN SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	0 0	0 0	80 2	19 8	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
●			0 309	0 192	0 166	0 109				

MATERIAL DESCRIPTION	USCS	AASHTO
● Light Grey Clayey Fine SAND	SC	A-2-4

Project No 40562-7-3268
Project TrailRidge Landfill Incremental Closure
Client England-Thims & Miller, Inc
● Location Station 93+85N and 123+00E

Date 5-8-97

Remarks

Proctor No IC-3

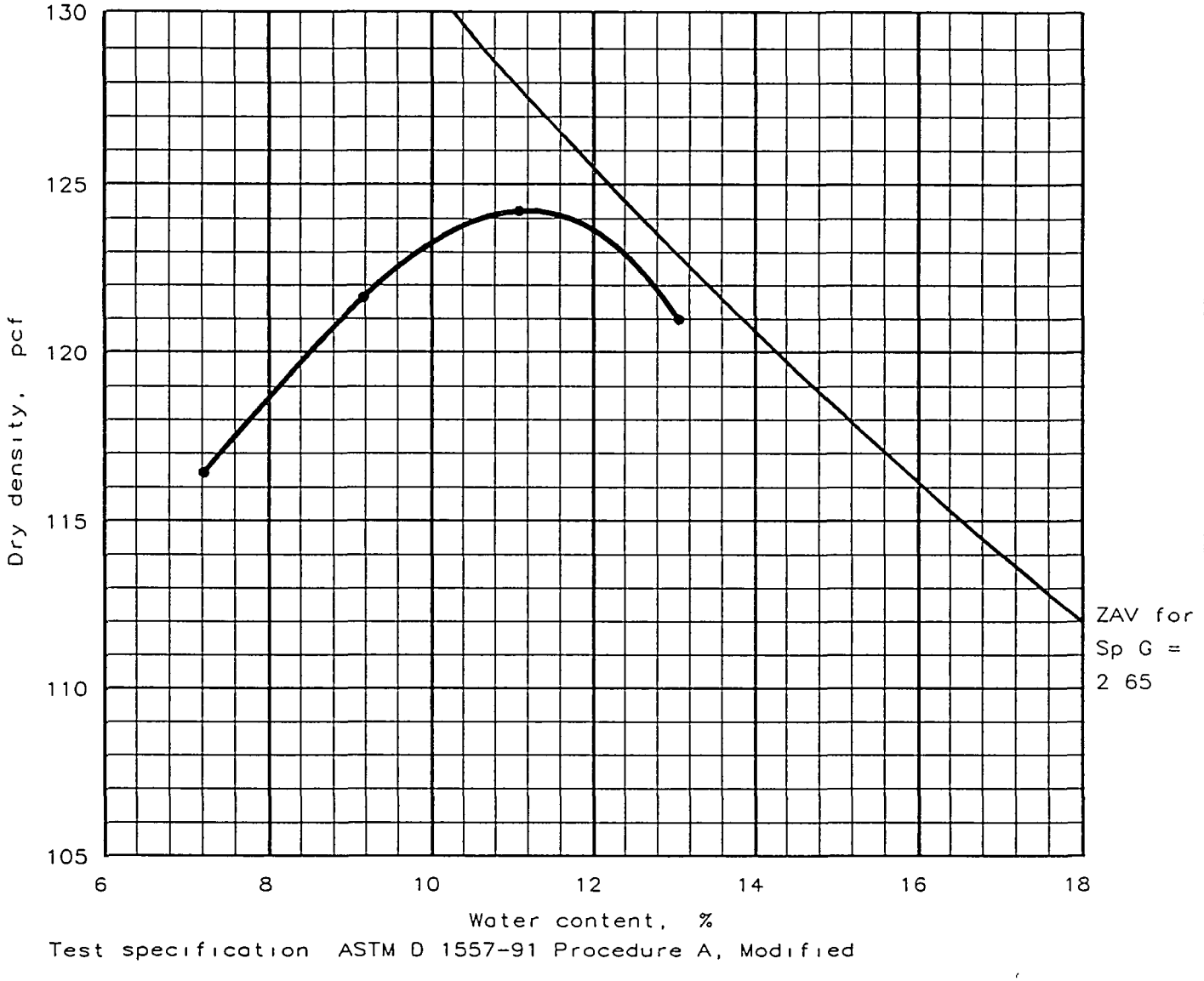
Intermediate Cover

GRAIN SIZE DISTRIBUTION TEST REPORT

LAW ENGINEERING

Reviewed By Bryant B. Wilder

MOISTURE-DENSITY RELATIONSHIP TEST



Test specification ASTM D 1557-91 Procedure A, Modified

Elev/ Depth	Classification		Nat Moist	Sp G	LL	PI	% > No 4	% < No 200
	USCS	AASHTO						
	SC	A-2-4					0 %	27 8 %

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 124 2 pcf Optimum moisture = 11 2 %	Orange and Grey Clayey Fine SAND

Project No 40562-7-3268
Project TrailRidge Landfill Incremental Closure
Client England Thims & Miller, Inc
Location

Date 6-25-97

Remarks

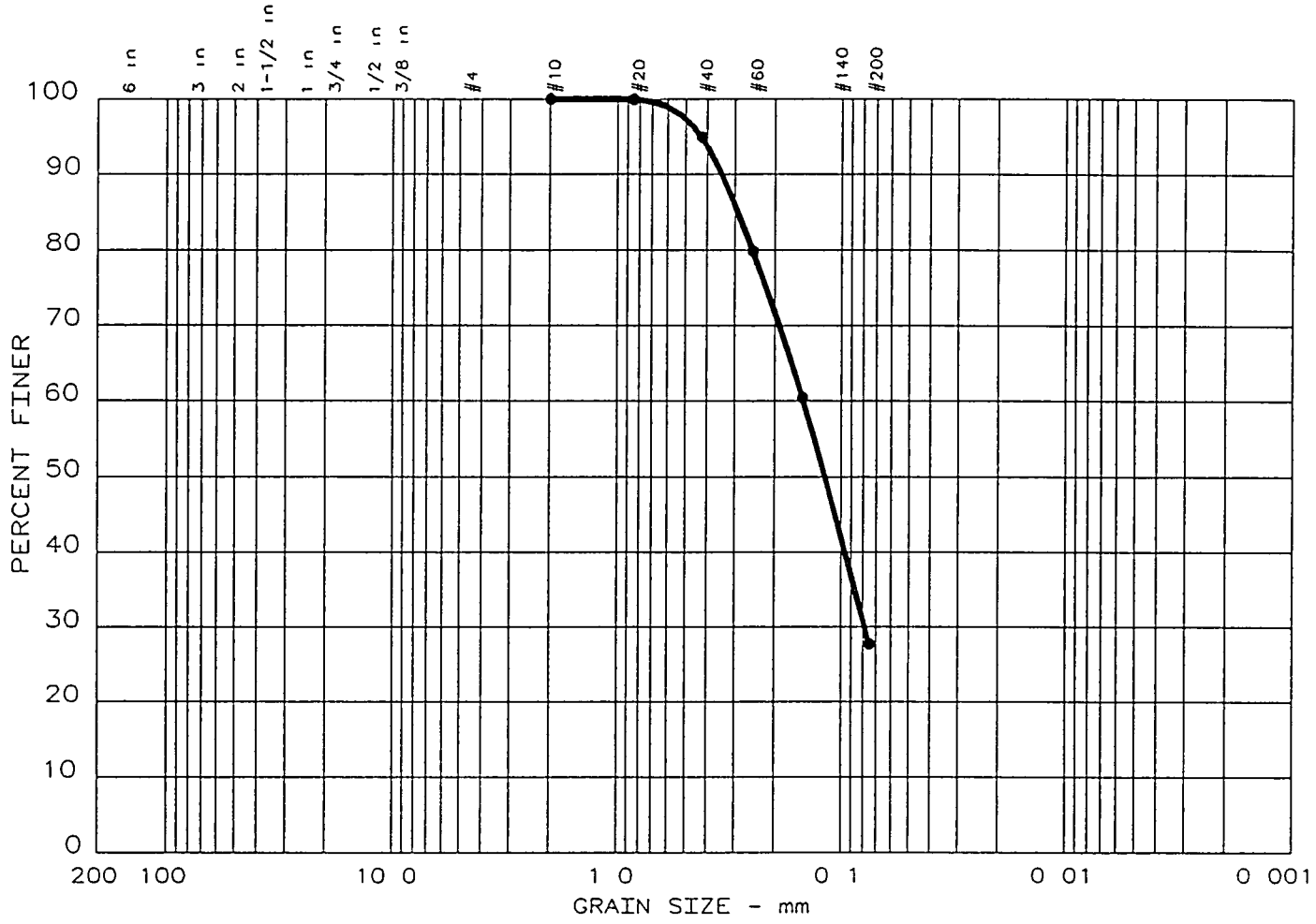
Proctor No IC-4

MOISTURE-DENSITY RELATIONSHIP TEST

LAW ENGINEERING INC.

Reviewed By Bryant B Wilder

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	12	0 0	0 0	72 2	27 8	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
●			0 291	0 148	0 118	0 0783				

MATERIAL DESCRIPTION	USCS	AASHTO
● Orange and Grey Clayey Fine SAND	SC	A-2-4

Project No 40562-7-3268
Project TrailRidge Landfill Incremental Closures
Client England Thims & Miller
● Location Slope, Unit 14

Date 7-14-97

Remarks

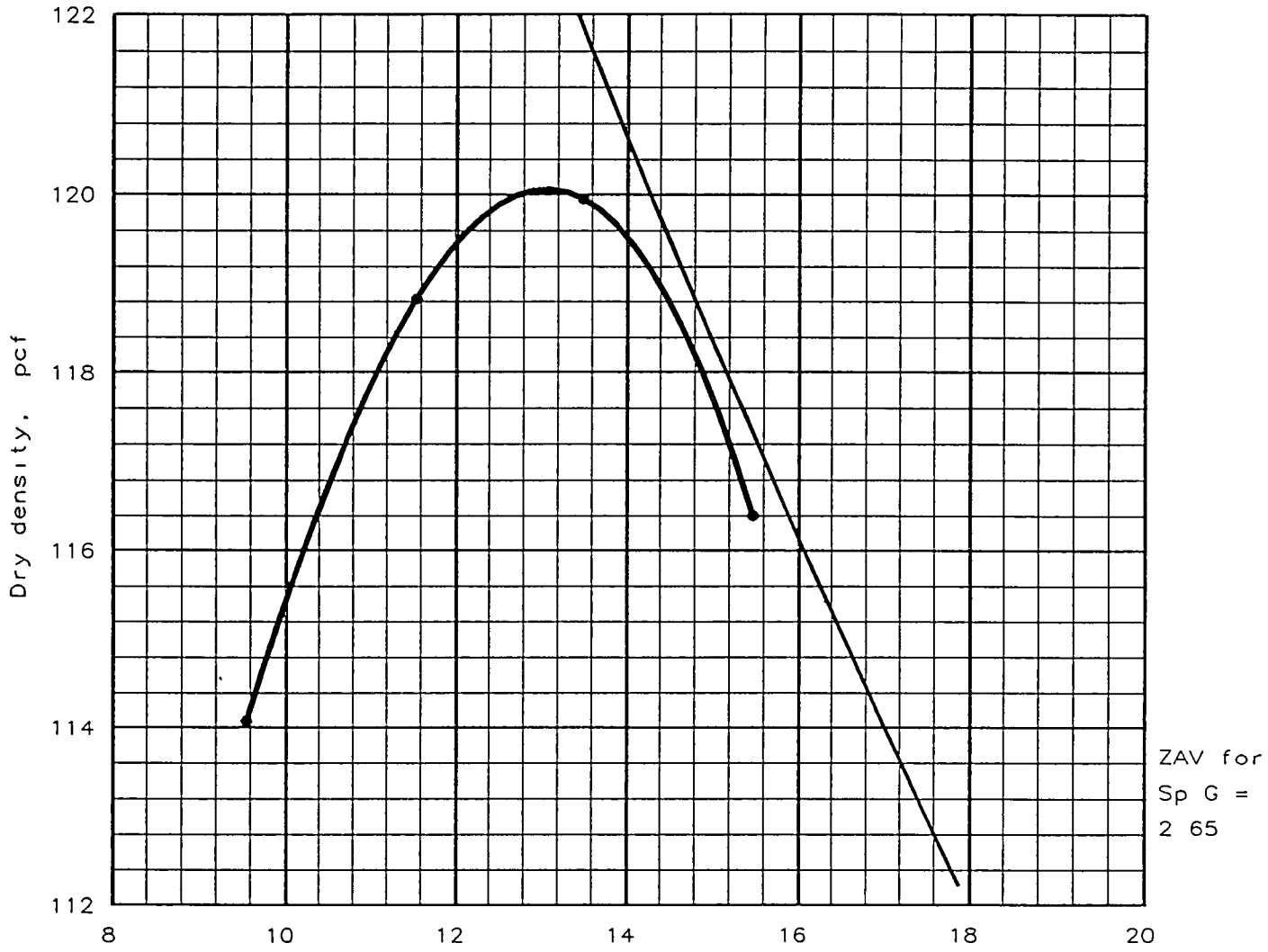
Proctor No IC-4

GRAIN SIZE DISTRIBUTION TEST REPORT

LAW ENGINEERING

Reviewed by

MOISTURE-DENSITY RELATIONSHIP TEST



Test specification ASTM D 1557-91 Procedure A, Modified

Elev/ Depth	Classification		Nat Moist	Sp G	LL	PI	% > No 4	% < No 200
	USCS	AASHTO						
	SC	A-4					0 %	40 2 %

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 120 1 pcf Optimum moisture = 13 1 %	Orange and Light Grey Very Clayey fine SAND

Project No 40562-7-3268
Project TrailRidge Landfill Incremental Closure
Client England Thims & Miller, Inc
Location Initial Cover, Slope Unit 17
Station 106+15E and 97+55N
Date 8-1-97

Remarks

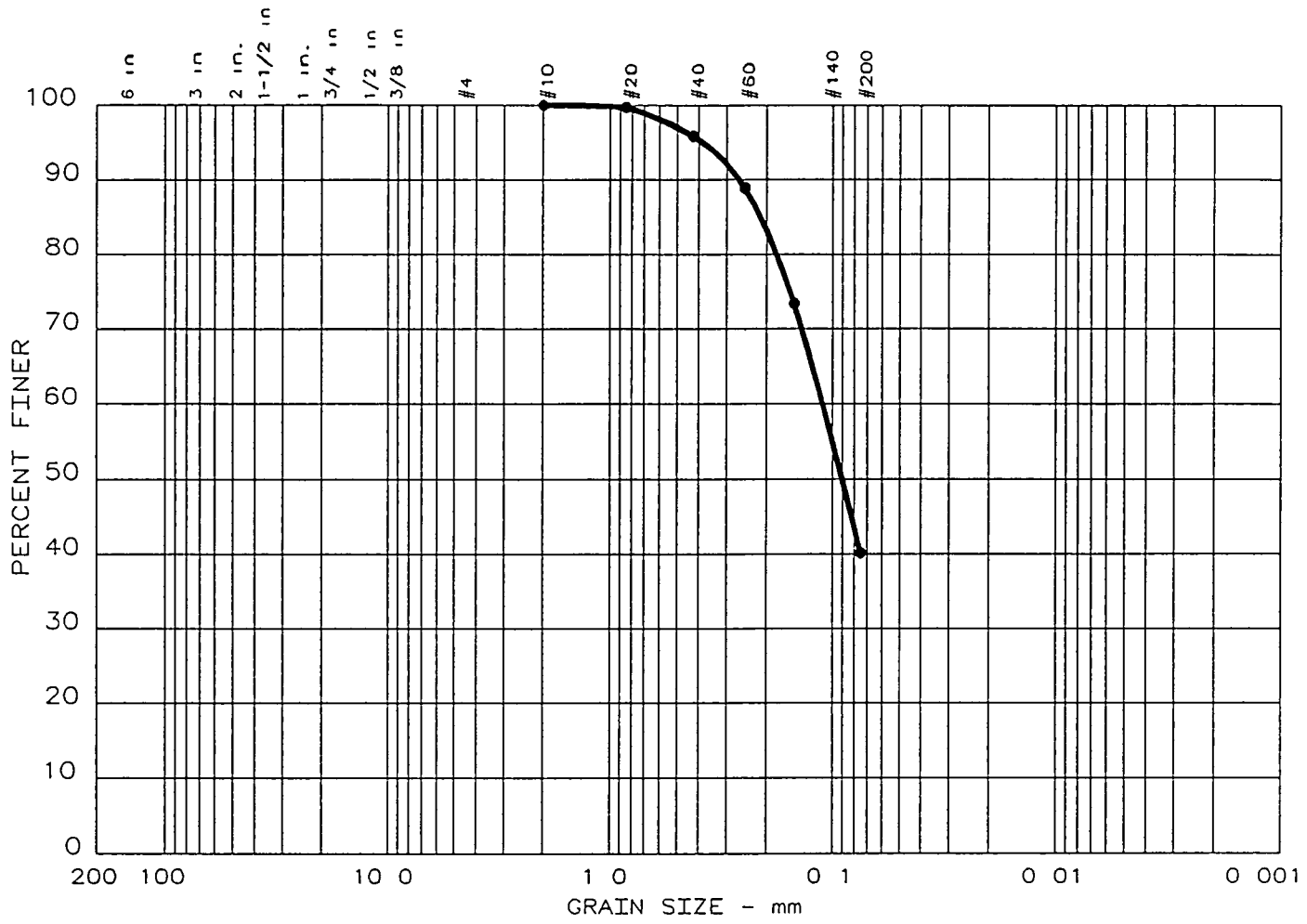
Proctor No IC-5

MOISTURE-DENSITY RELATIONSHIP TEST

LAW ENGINEERING INC.

Reviewed By Bryant B Wilder

GRAIN SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	0 0	0 0	59 8	40 2	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
●			0 211	0 111	0 0907					

MATERIAL DESCRIPTION	USCS	AASHTO
● Orange and Light Grey Very Clayey Fine SAND	SC	A-4

Project No 40562-7-3268
Project TrailRidge Landfill Incremental Closure
Client England Thims & Miller, Inc
● Location Initial Cover, Slope Unit 17

Date 8-1-97

Remarks

Proctor No IC-5

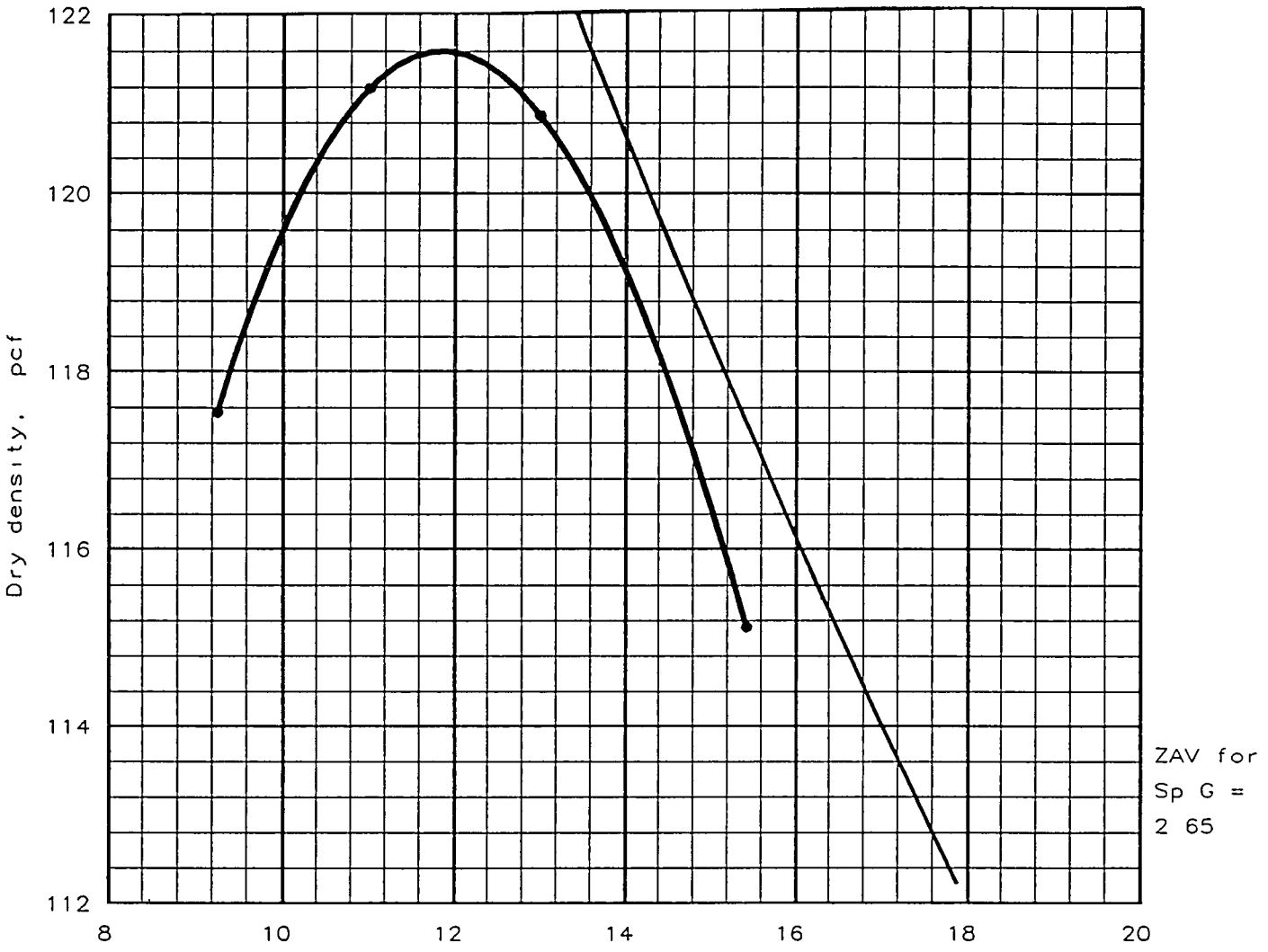
Station 106+15E & 97+55N

GRAIN SIZE DISTRIBUTION TEST REPORT

LAW ENGINEERING

Reviewed By

MOISTURE-DENSITY RELATIONSHIP TEST



Test specification ASTM D 1557-91 Procedure A, Modified

Elev/ Depth	Classification		Nat Moist	Sp G	LL	PI	% > No 4	% < No 200
	USCS	AASHTO						
	SC	A-2-4					0 0 %	32 3 %

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 121 6 pcf Optimum moisture = 11 9 %	Orange and Grey Very Clayey Fine SAND

Project No 40562-7-3268
Project TrailRidge Landfill Incremental Closure
Client England Thims & Miller, Inc
Location Unit 19 60' South of S-26

Date 8-19-97

Remarks

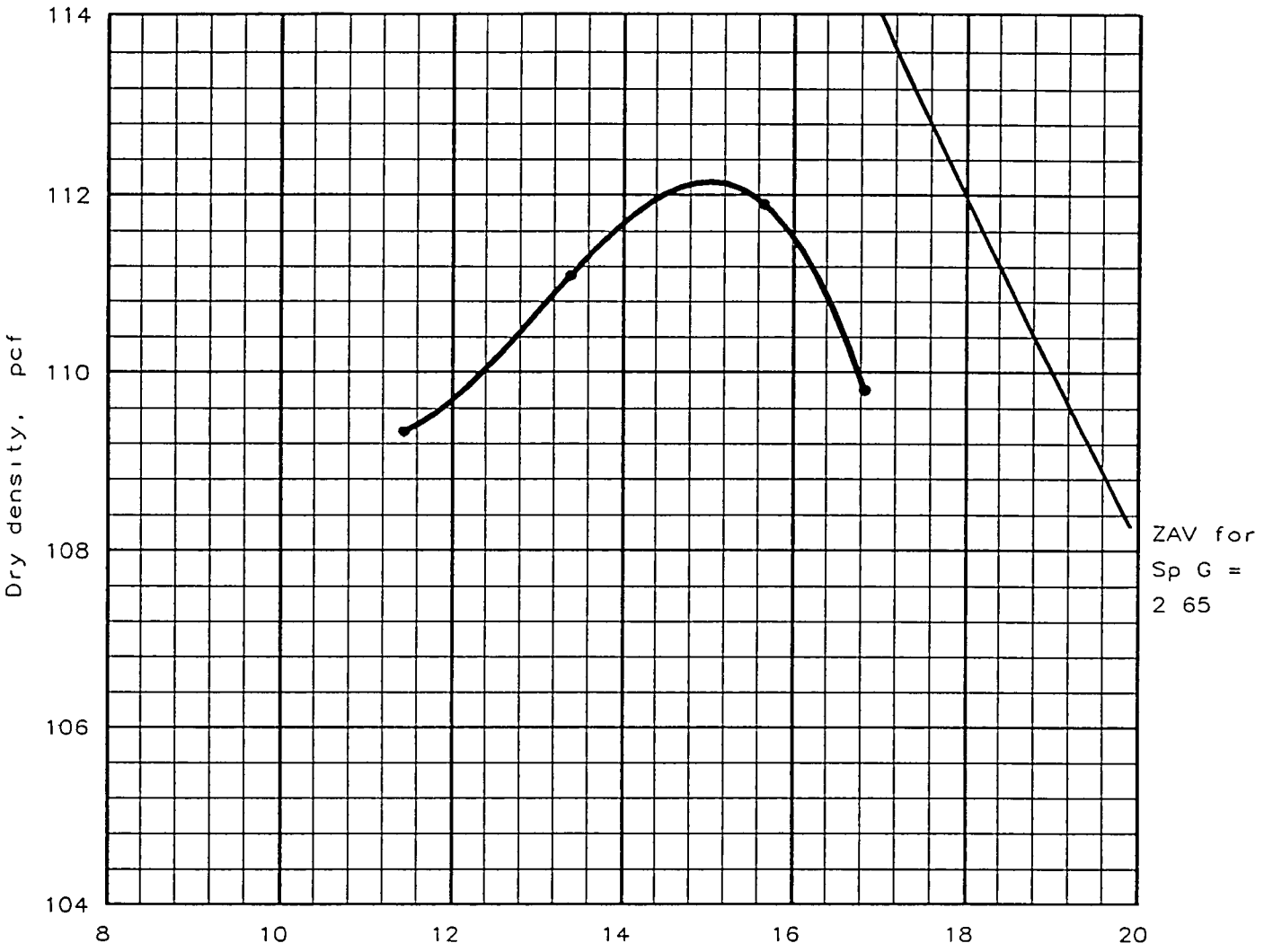
Proctor No IC-6

MOISTURE-DENSITY RELATIONSHIP TEST

LAW ENGINEERING INC.

Reviewed By Bryant B. Wilder

MOISTURE-DENSITY RELATIONSHIP TEST



Test specification ASTM D 698-91 Procedure A, Standard

Elev/ Depth	Classification		Nat Moist	Sp G	LL	PI	% > No 4	% < No 200
	USCS	AASHTO						
	SC	A-2-4					0 0 %	32 3 %

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 112 2 pcf Optimum moisture = 15 0 %	Orange and Grey Very Clayey Fine SAND

Project No 40562-7-3268
Project TrailRidge Landfill Incremental Closure
Client England Thims & Miller, Inc
Location Unit 19 60' South of S-26

Date 8-16-97

Remarks

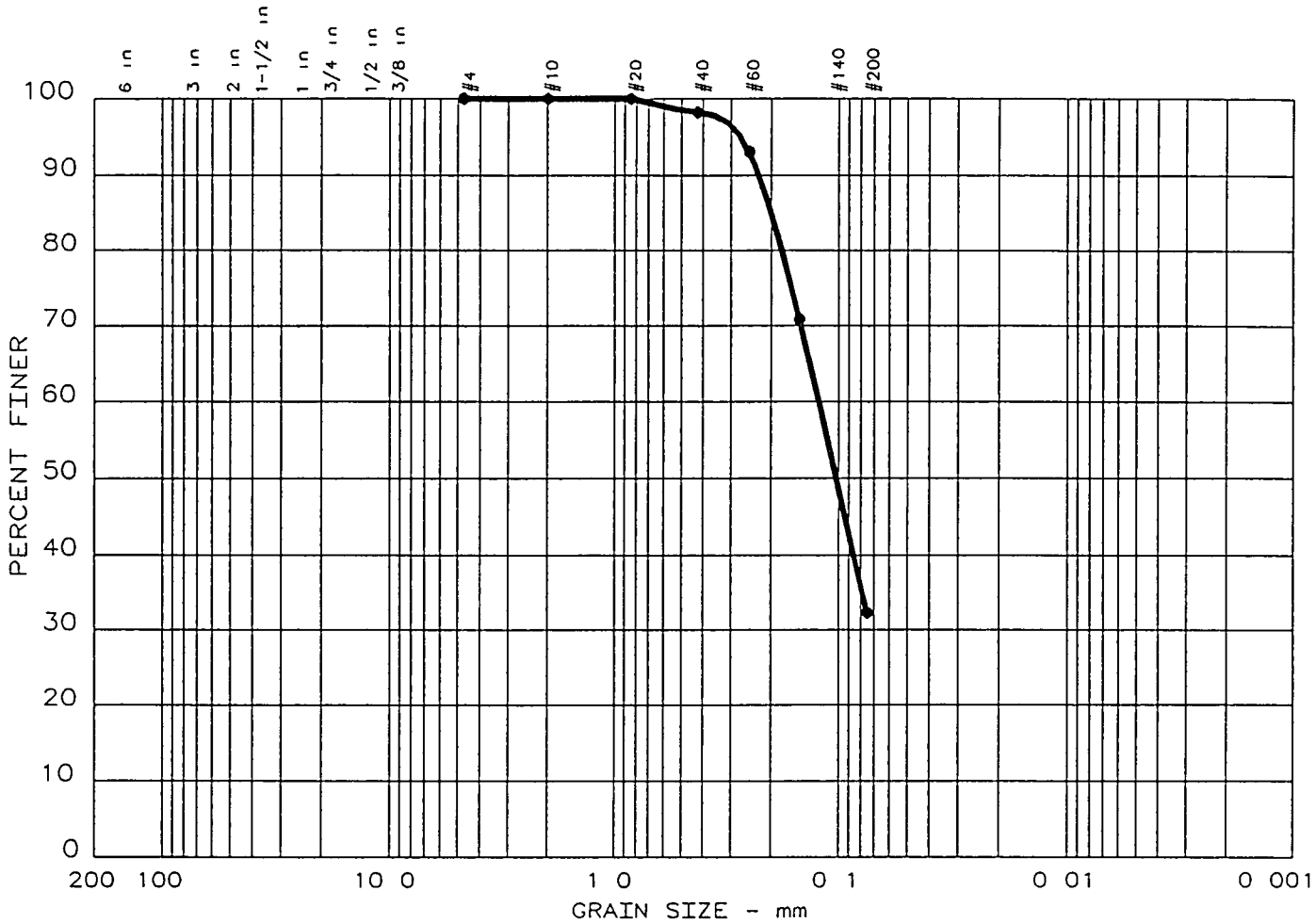
Proctor No IC-6S

MOISTURE-DENSITY RELATIONSHIP TEST

LAW ENGINEERING INC.

Reviewed By Bryant B Wilder

GRAIN SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	0 0	0 0	67 7	32 3	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
●			0 199	0 123	0 102					

MATERIAL DESCRIPTION	USCS	AASHTO
● Orange and Grey Very Clayey Fine SAND	SC	A-2-4

Project No 40562-7-3268
Project TrailRidge Landfill Incremental Closure
Client England Thims & Miller, Inc
● Location Unit 19 60' South of S-26

Date 8-16-97

Remarks

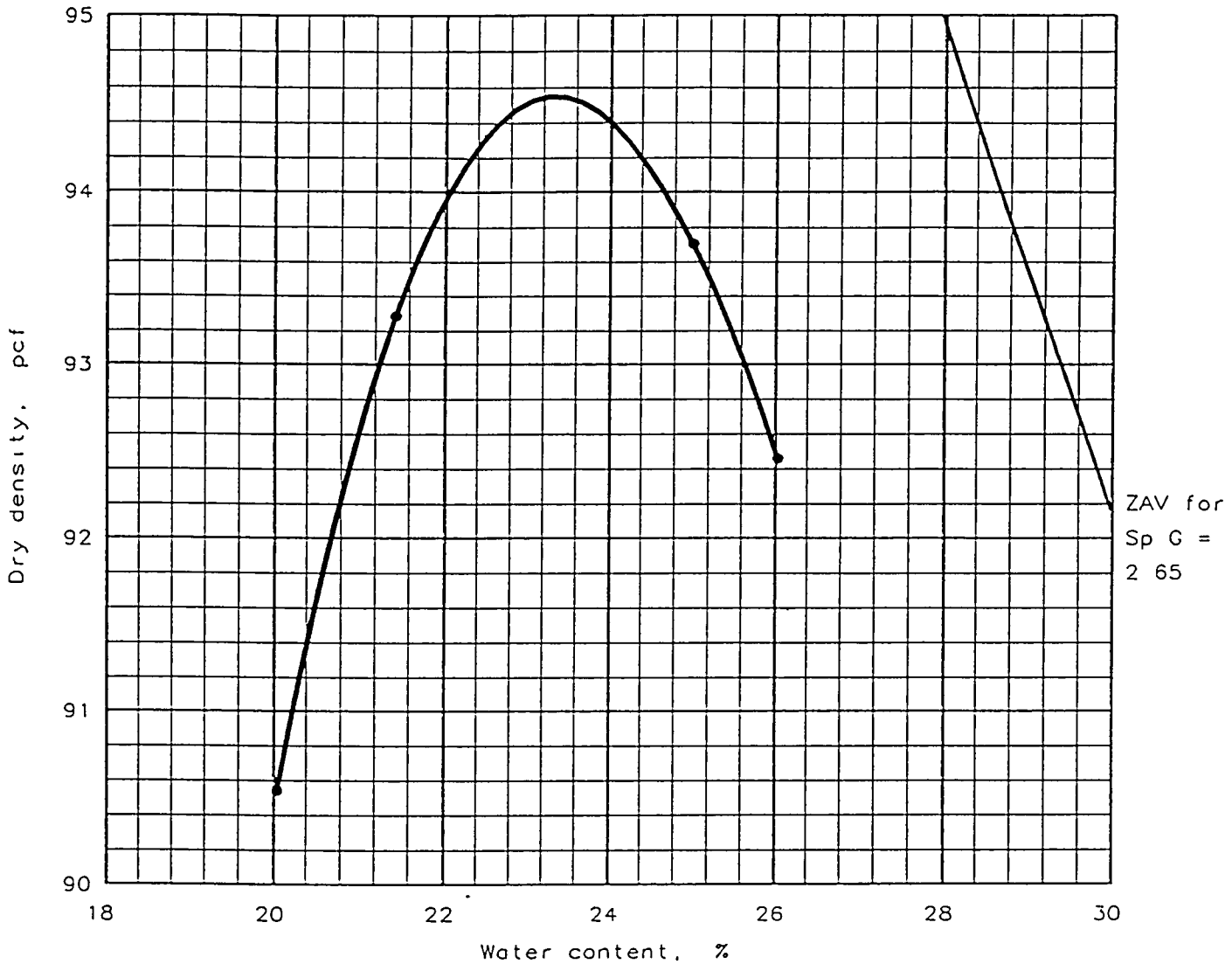
Proctor No IC-6

GRAIN SIZE DISTRIBUTION TEST REPORT

LAW ENGINEERING

Reviewed By Bryant B. Welder

MOISTURE-DENSITY RELATIONSHIP TEST



Test specification ASTM D 698-91 Procedure A, Standard

Elev/ Depth	Classification		Nat Moist	Sp G	LL	PI	% > No 4	% < No 200
	USCS	AASHTO						
	CH	A-7-6	63 6 %		94	73	0 0 %	61 8 %

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 94 6 pcf Optimum moisture = 23 3 %	Light Grey Very Sandy CLAY

Project No 40562-7-3268
Project Trailridge Landfill Incremental Closure
Client England-Thims & Miller, Inc
Location Test Pit No 1

Date 4-17-97

Remarks

Proctor No CL-1

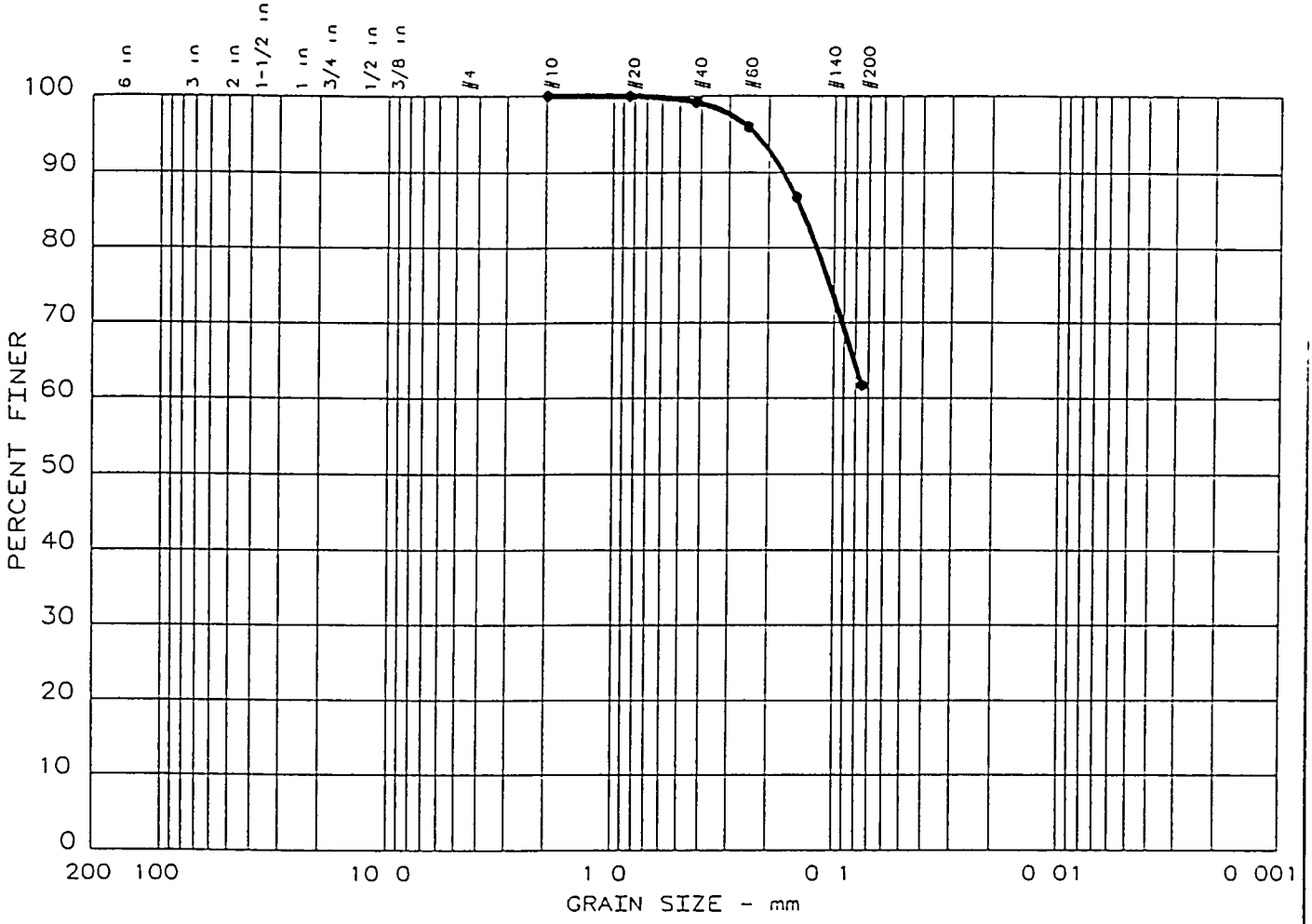
Pre-Qualification

MOISTURE-DENSITY RELATIONSHIP TEST

LAW ENGINEERING INC.

Reviewed By Bryant B White

GRAIN SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
•	0 0	0 0	38 2	61 8	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
•	94	73	0 141							

MATERIAL DESCRIPTION	USCS	AASHTO
• Light Grey Very Sandy CLAY	CH	A-7-6

Project No 40562-7-3268
Project Trail Ridge Landfill Incremental Closure
Client England-Thims & Miller, Inc
• Location Test Pit No 1

Date 4-23-97

Remarks

Proctor No CL-1

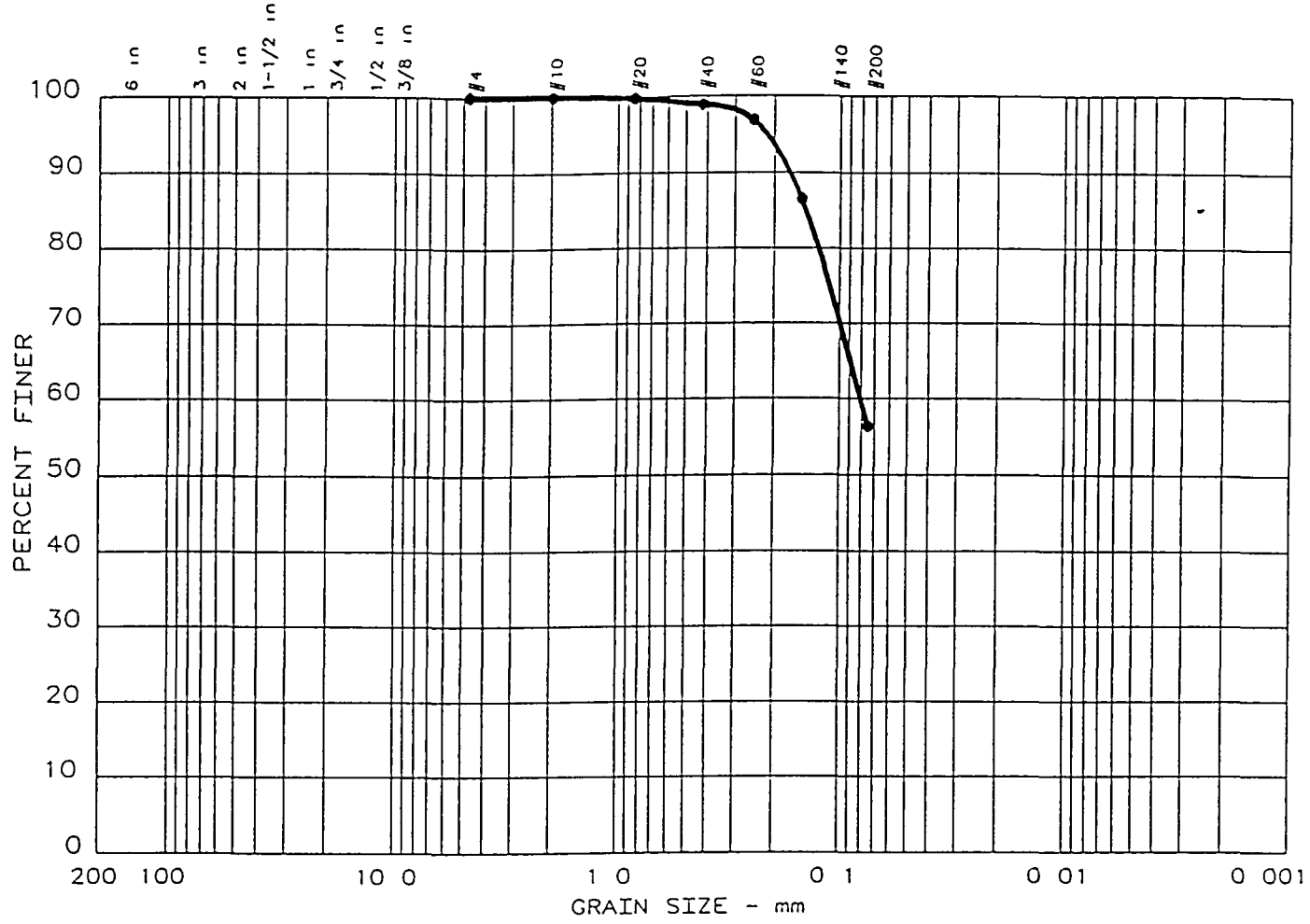
Clay Pre-Qualification

GRAIN SIZE DISTRIBUTION TEST REPORT

LAW ENGINEERING

Reviewed By

GRAIN SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
•	0 0	0 0	43 7	56 3	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
•	59	42	0 143	0 0807						

MATERIAL DESCRIPTION	USCS	AASHTO
• Red and Light Grey Very Sandy CLAY	CH	A-7-6

Project No 40562-7-3268
Project Trail Ridge Landfill Incremental Closure
Client England-Thims & Miller, Inc
• Location Test Pit No 5

Date 4-23-97

Remarks

Proctor No CL-2

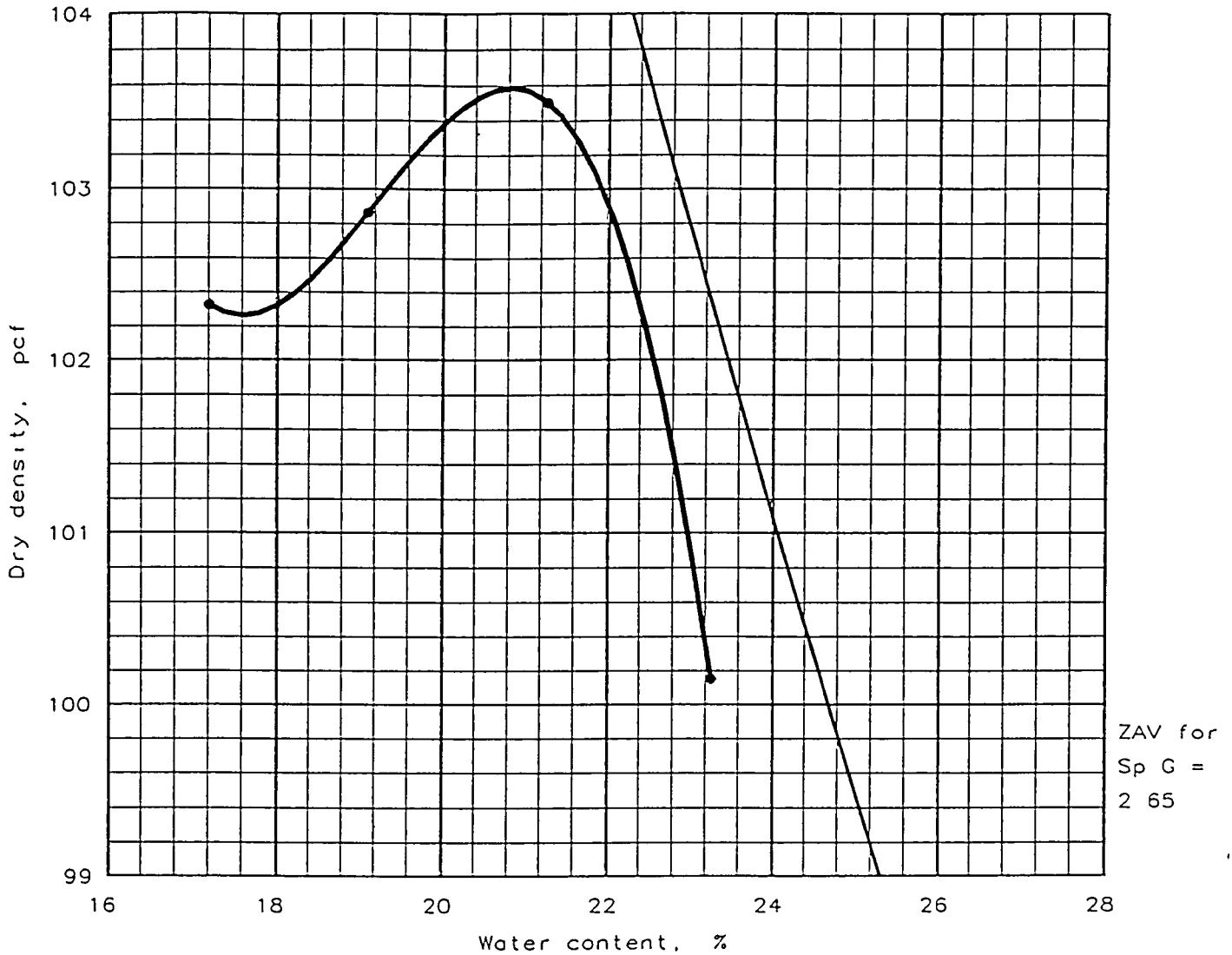
Clay Pre-Qualification

GRAIN SIZE DISTRIBUTION TEST REPORT

LAW ENGINEERING

Reviewed By

MOISTURE-DENSITY RELATIONSHIP TEST



Test specification ASTM D 698-91 Procedure A, Standard

Elev/ Depth	Classification		Nat Moist	Sp G	LL	PI	% > No 4	% < No 200
	USCS	AASHTO						
	CH	A-7-6	29 4 %		59	42	0 0 %	56 3 %

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 103 6 pcf Optimum moisture = 20 8 %	Red and Light Grey Very Sandy CLAY

Project No 40562-7-3268
Project Trailridge Landfill Incremental Closure
Client England-Thims & Miller, Inc
Location Test Pit No 5

Date 4-17-97

Remarks

Proctor No CL-2

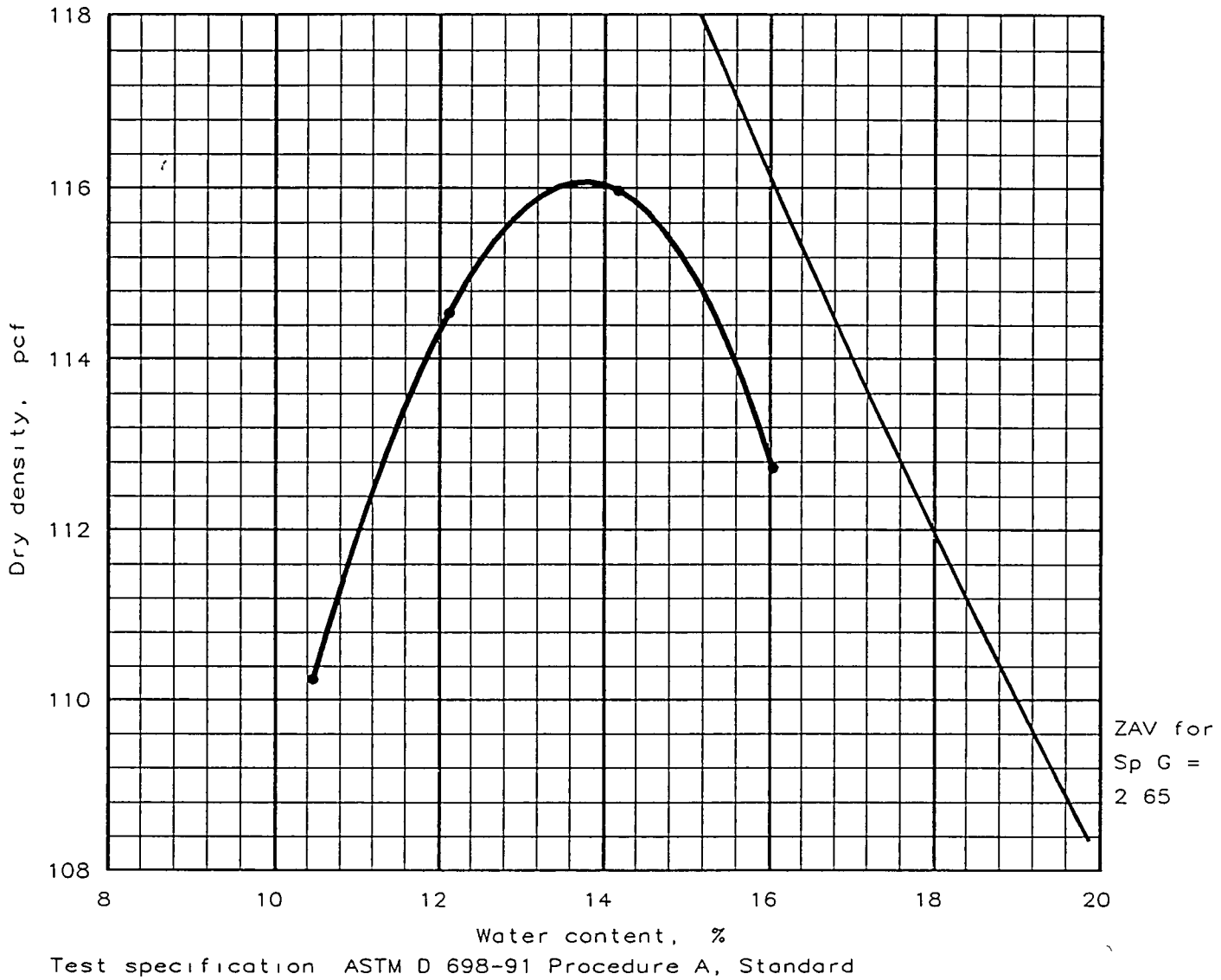
Pre-Qualification

MOISTURE-DENSITY RELATIONSHIP TEST

LAW ENGINEERING INC.

Reviewed By

MOISTURE-DENSITY RELATIONSHIP TEST



Test specification ASTM D 698-91 Procedure A, Standard

Elev/ Depth	Classification		Nat Moist	Sp G	LL	PI	% > No 4	% < No 200
	USCS	AASHTO						
	SC	A-6			37	18	0 0 %	36 8 %

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 116 1 pcf Optimum moisture = 13 8 %	Red and Grey Very Sandy CLAY

Project No 40562-7-3268
Project Trailridge Landfill Incremental Closure
Client England-Thims & Miller, INC
Location On Site Clay Stockpile, Mixture of CL-1 & CL-2
Date 5-12-97

Remarks

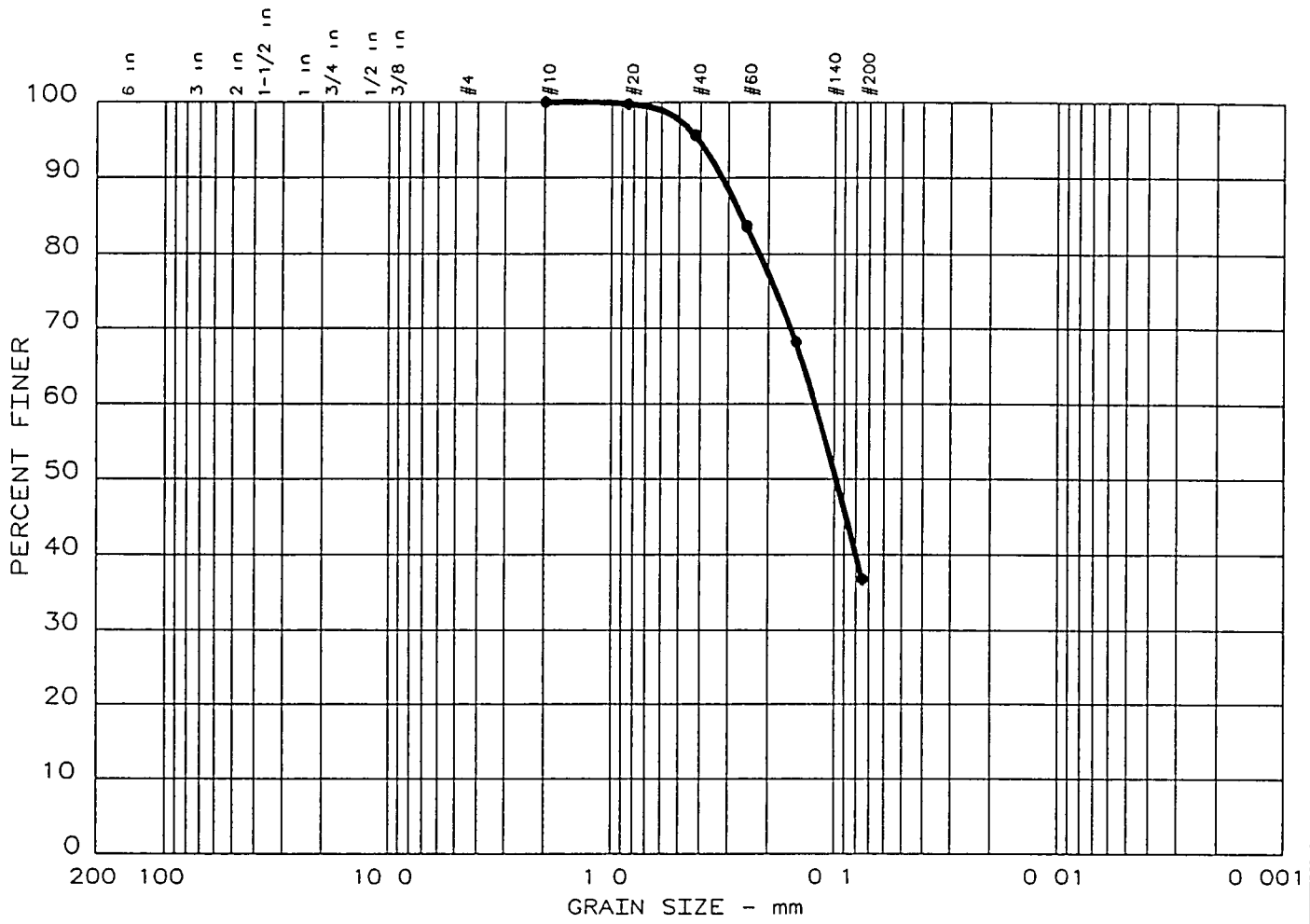
Proctor No CL-3

MOISTURE-DENSITY RELATIONSHIP TEST

LAW ENGINEERING INC.

Reviewed By Bryant B Wilder

GRAIN SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	0 0	0 0	63 2	36 8	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
●	37	18	0 263	0 122	0 0982					

MATERIAL DESCRIPTION	USCS	AASHTO
● Red and Grey Very Clayey Fine SAND	SC	A-6

Project No 40562-7-3268
Project TrailRidge Landfill Incremental Closure
Client England-Thims & Miller, Inc
● Location Onsite Stockpile

Date 5-13-97

Remarks

Proctor No CL-3

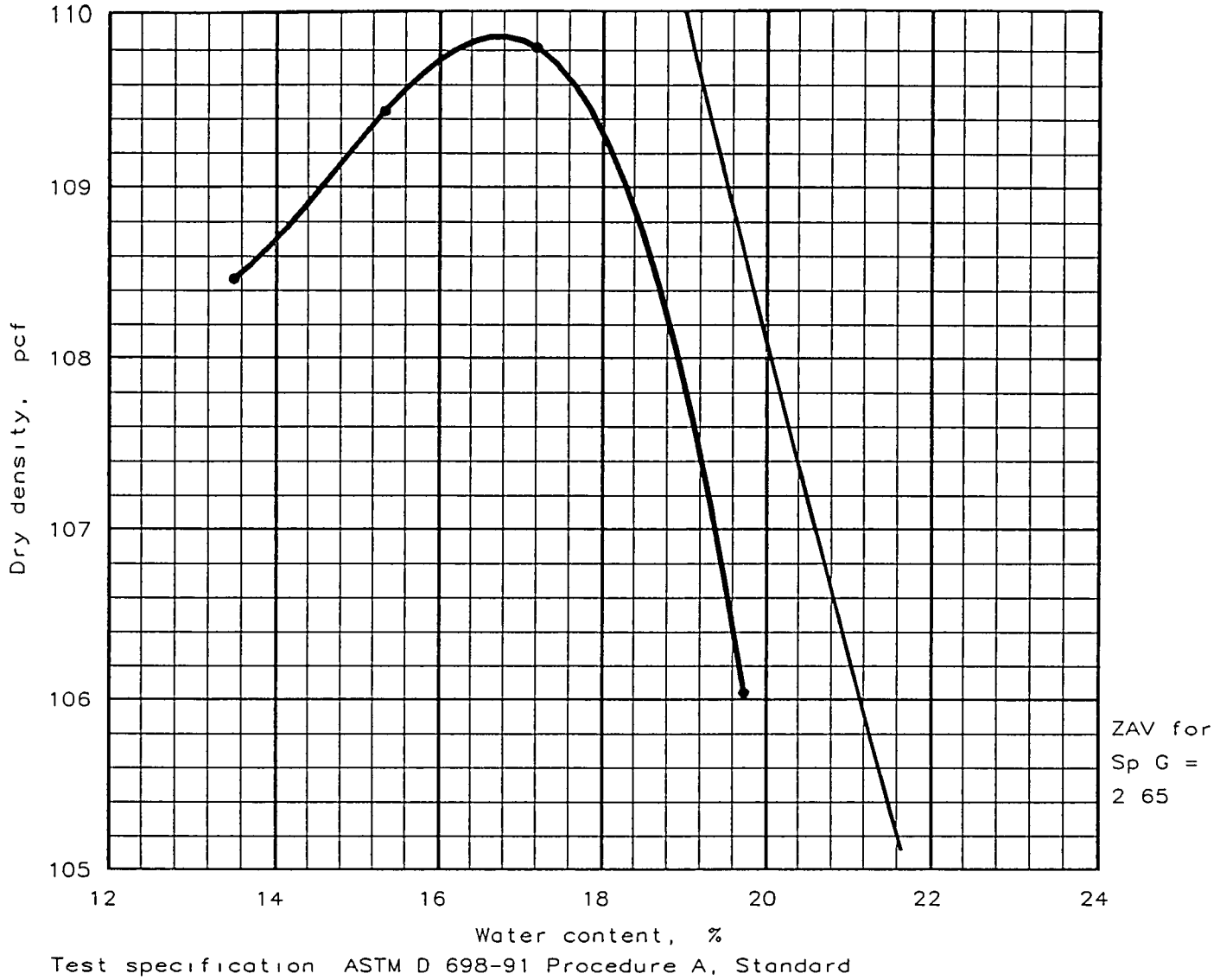
Mixture of CL-1 & CL-2

GRAIN SIZE DISTRIBUTION TEST REPORT

LAW ENGINEERING

Reviewed By Bryant B. Wilder

MOISTURE-DENSITY RELATIONSHIP TEST



Test specification ASTM D 698-91 Procedure A, Standard

Elev/ Depth	Classification		Nat Moist	Sp G	LL	PI	% > No 4	% < No 200
	USCS	AASHTO						
	SC	A-7-6			54	35	0 0 %	47 4 %

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 109 9 pcf Optimum moisture = 16 7 %	Orange and Grey Very Clayey Fine SAND

Project No 40562-7-3268
Project TrailRidge Landfill Incremental Closure
Client England-Thims & Miller, Inc
Location Unit 8 Slope Closure

Date 5-23-97

Remarks

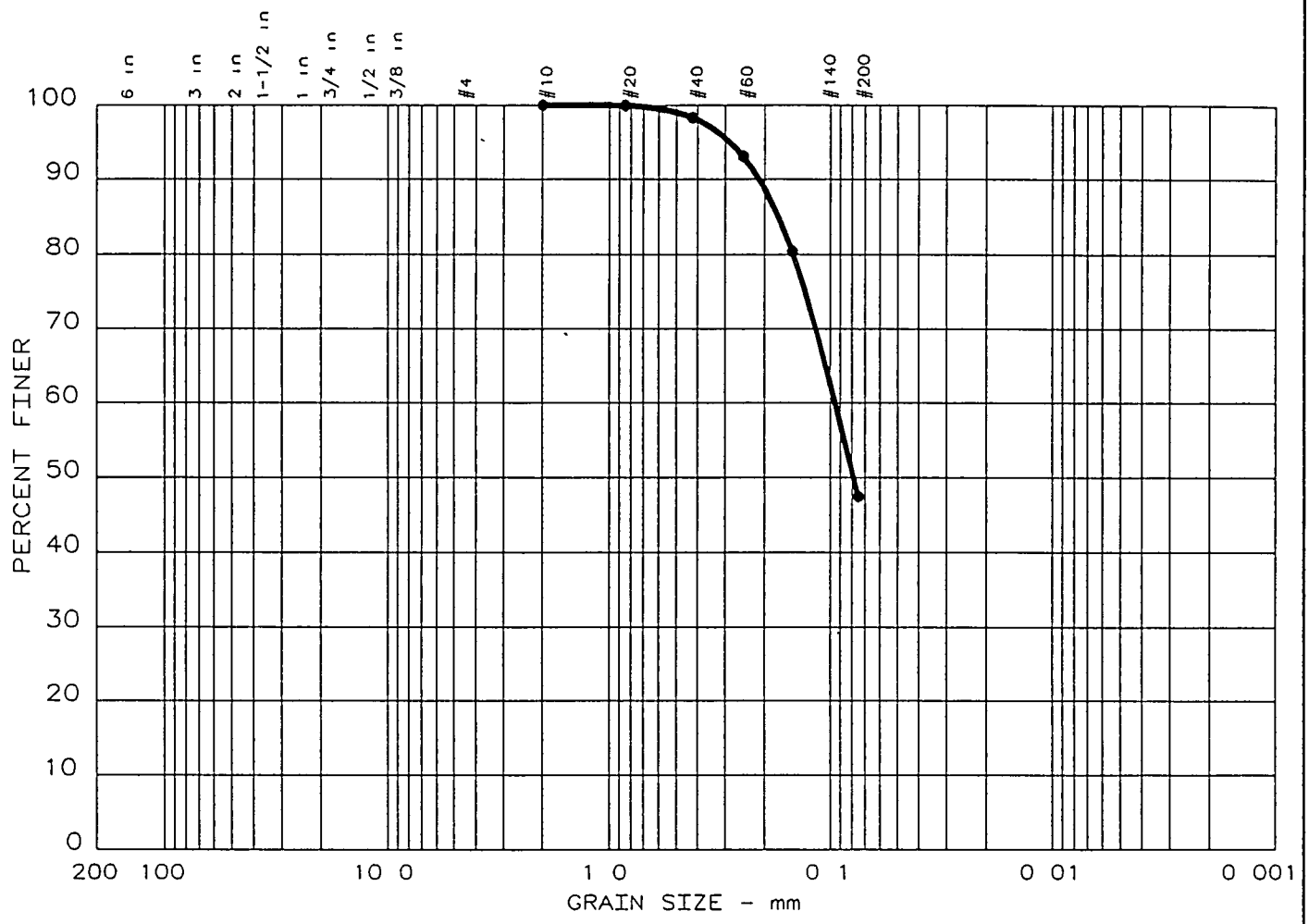
Proctor No CL-4

MOISTURE-DENSITY RELATIONSHIP TEST

LAW ENGINEERING INC.

Reviewed By Bryant B. Wilder

GRAIN SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
•	0 0	0 0	52 6	47 4	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
•	54	35	0 172	0 0951	0 0787					

MATERIAL DESCRIPTION	USCS	AASHTO
• Orange and Grey Very Clayey Fine SAND	SC	A-7-6

Project No 40562-7-3268
Project TrailRidge Landfill Incremental Closure
Client England-Thims & Miller, Inc
• Location Unit No 8 Slope Closure

Date 5-23-97

Remarks

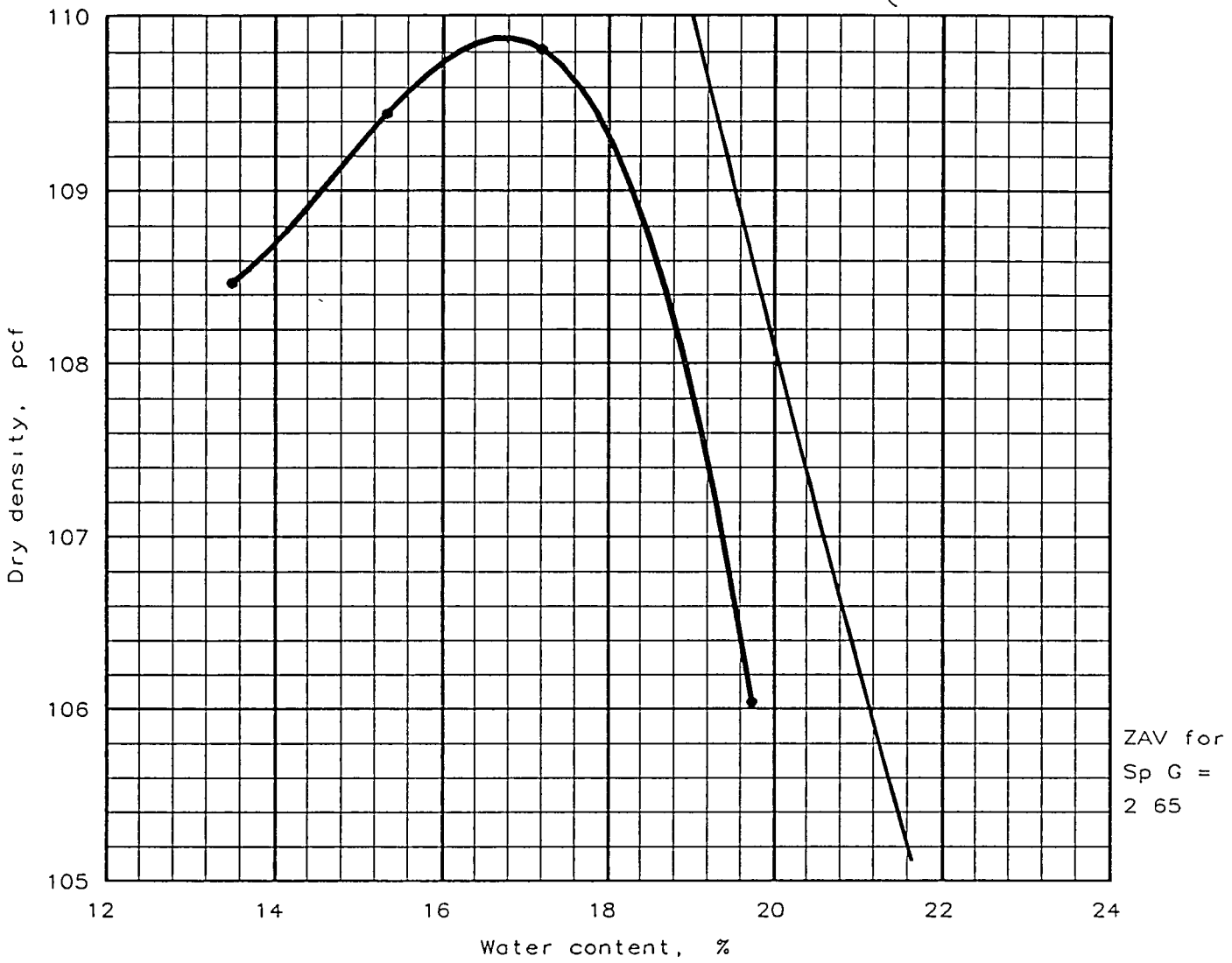
Proctor No CL-4

GRAIN SIZE DISTRIBUTION TEST REPORT

LAW ENGINEERING

Reviewed By Bryant B Wilder

MOISTURE-DENSITY RELATIONSHIP TEST



Test specification ASTM D 698-91 Procedure A, Standard

Elev/ Depth	Classification		Nat Moist	Sp G	LL	PI	% > No 4	% < No 200
	USCS	AASHTO						
	SC	A-7-6			54	35	0 0 %	47 4 %

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 109 9 pcf Optimum moisture = 16 7 %	Orange and Grey Very Clayey Fine SAND

Project No 40562-7-3268
Project TrailRidge Landfill Incremental Closure
Client England-Thims & Miller, Inc
Location Unit 8 Slope Closure

Date 5-23-97

Remarks

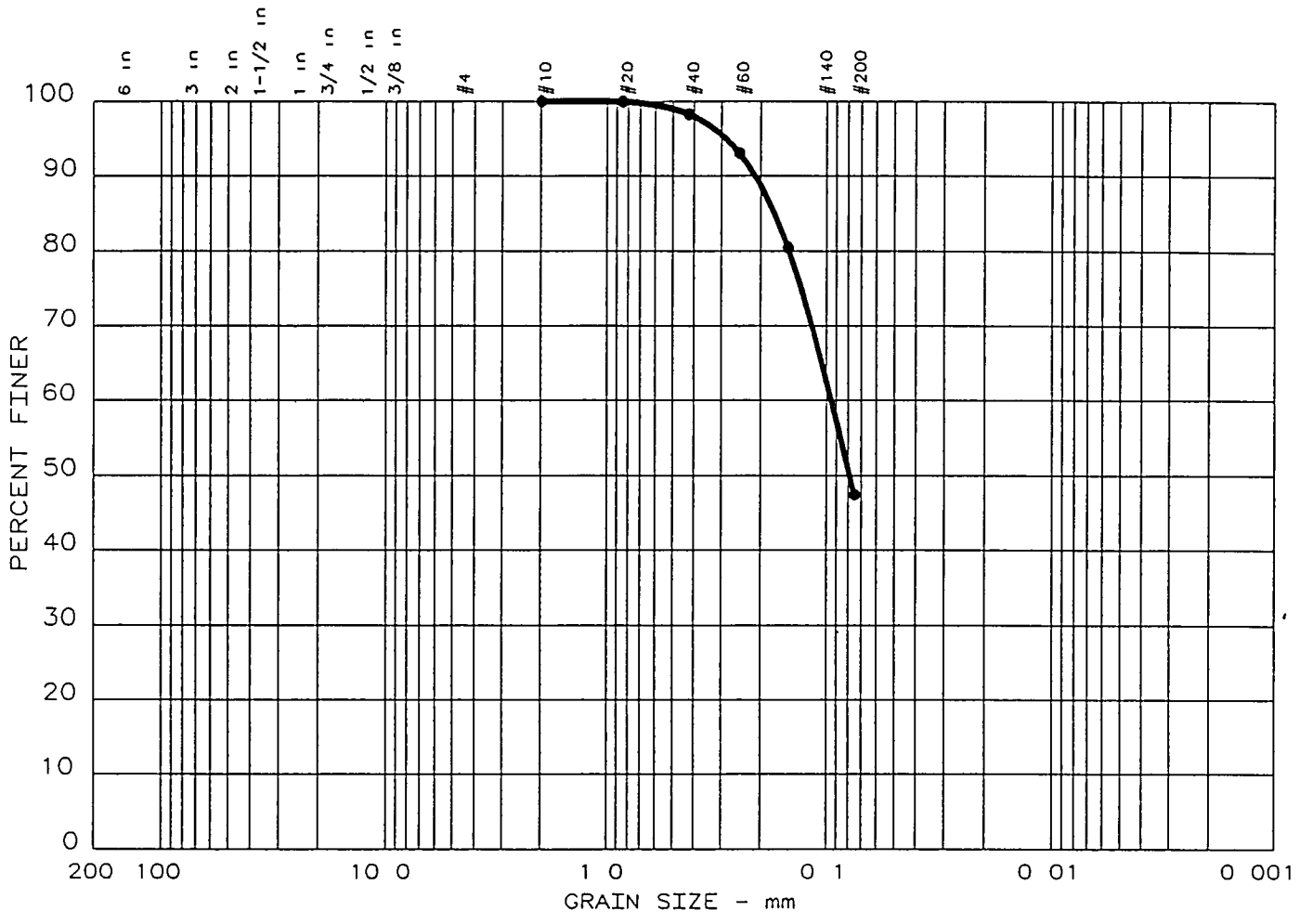
Proctor No CL-4

MOISTURE-DENSITY RELATIONSHIP TEST

LAW ENGINEERING INC.

Reviewed By Bryant B. Wilder

GRAIN SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
●	0 0	0 0	52 6	47 4	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
●	54	35	0 172	0 0951	0 0787					

MATERIAL DESCRIPTION	USCS	AASHTO
● Orange and Grey Very Clayey Fine SAND	SC	A-7-6

Project No 40562-7-3268
Project TrailRidge Landfill Incremental Closure
Client England-Thims & Miller, Inc
● Location Unit No 8 Slope Closur

Date 5-23-97

Remarks

Proctor No CL-4

GRAIN SIZE DISTRIBUTION TEST REPORT

LAW ENGINEERING

Reviewed By Bryant B Wilder

Appendix D
Concrete Compressive Strength Reports

CONCRETE MIX DESIGN

Tarmac

Tarmac America, Inc
PO Box 24325
Jacksonville, FL 32241-4825
(904) 296-0609
Fax (904) 296-0269

DATE 10/16/97
CLIENT NAME: R & E CONSTRUCTION
PROJECT NAME: TRAILRIDGE LAND FILL
28 DAY STRENGTH: 4000 P S.I.
TARMAC MIX NO: 84060N

AREA: JACKSONVILLE
COMMENT: 50/50

SOURCE OF MATERIALS

COARSE AGGREGATE: Tarmac Florida Inc.	TYPE: Crushed Limestone
LIGHT WT. AGG: Carolina Stalite Co.	TYPE:
FINE AGGREGATE: Florida Rock Ind.	TYPE: Natural Silica Sand
CEMENT: Pennsuco Cement & Supply	TYPE: I
SLAG CEMENT: Blue Circle Cement Co.	TYPE: S
ADMIXTURE. Master Builders	TYPE: A and / or D
AIR ENTR. AGENT: Master Builders	TYPE:

CHARACTERISTICS OF AGGREGATES

SIEVE	FL.D.O.T.	%PASSING	SIEVE	ASTM C-33	%PASSING
3/8	100	100	11/2"	100	100
NO.4	95 - 100	100	1"	95 - 100	99
NO.8	85 - 100	97	3/4"	--------	85
NO.16	65 - 97	88	1/2"	20 - 60	42
NO.30	25 - 70	66	3/8"	--------	20
NO.50	5 - 35	26	NO.4	0 - 10	5
NO.100	0 - 7	4	NO.8	0 - 5	3
FINENESS MODULUS		2.19	SIZE		#57
SPECIFIC GRAVITY		2.63	SPECIFIC GRAVITY		2.43
DRY RODDED WEIGHT-PCF		101.0	DRY RODDED WEIGHT-PCF		85.1
ABSORPTION %		.5	ABSORPTION %		5.0

MATERIALS PER CUBIC YARD

		LBS.		ABSOLUTE VOLUME
CEMENT-LBS.		: 250	PORTLAND CEMENT	: 1.27
SLAG CEMENT-LBS.		: 250	SLAG CEMENT	: 1.37
COARSE AGG.#57	LBS.(SSD)	: 1710	COARSE AGG. #57	:11.28
COARSE AGG.#4	LBS.(SSD)	:	COARSE AGG. #4	: 0.00
COARSE AGG.#16(#89)	LBS.(SSD)	:	COARSE AGG. #16(89)	: 0.00
LT.WT.AGG.- STALITE	LBS.(SSD)	:	LT.WT.AGG. STALITE	: 0.00
FINE AGGREGATE	LBS.(SSD)	: 1267	FINE AGGREGATE	: 7.72
WATER	LBS.	: 250.0	WATER - POUNDS	: 4.01
WATER	GALS.	: 30.0	WATER - GALLONS	: ---
ADMIXTURE SUPER-P.	OZS.	:	POZZ. 440-N	: .00
ADMIXTURE WATER RED.	OZS	: 15.0	POZZ. 220-N	: .00
AIR ENTR. AGENT	OZS.	: 3.0	MB AE-90	: 1.35
	TOTAL	: 3727.0		TOTAL: 27.00

WATER/CEMENTITIOUS RATIO: 0.50
SLUMP RANGE-INCHES 3.0 - 5.0
AIR CONTENT-PERCENT: 4.0 - 6.0
TOTAL CEMENTITIOUS MATERIALS: 500

PERCENT FINE AGG.VOL.: 40 63
UNIT WEIGHT (WET-PCF). 138.0

LAW
ENGINEERING AND ENVIRONMENTAL SERVICES

3901 Carmichael Avenue; Jacksonville, Florida 32207

CONCRETE TEST REPORT

10/28/97

CLIENT. England, Thims & Miller, Inc. **JOB NO:** 40562-7-3268

PROJECT: TrailRidge Landfill Closure
Jacksonville, Florida **LAB NO:** 1

MIX ID: 84060N **SPECIFIED STRENGTH:** 4,000

MIX DESC: Normal Wt

FIELD INFORMATION

DATE SAMPLED	10/21/97	BY	Law
TIME BATCHED	03:37	SAMPLED	04:15
BATCH PLANT	Tarmac		
TRUCK/TICKET	7109157	DATE RECEIVED	10/22/97

FIELD TESTS

	(SPECIFIED RANGE)
SLUMP	4
PERCENT AIR	N.I.
UNIT WEIGHT	N.I.
MIX/AIR TEMP	78/80

COMPRESSION TEST RESULTS

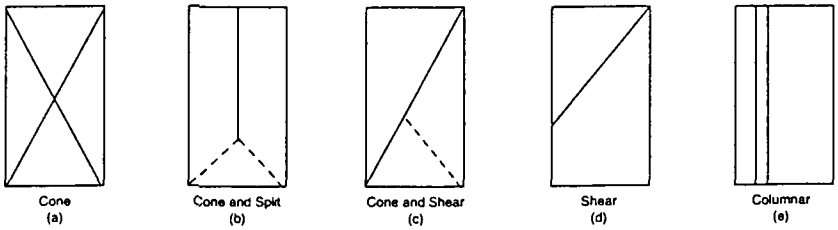
CYLINDER NUMBER	DIAMETER (IN)	AREA (SQ IN)	DATE TESTED	TEST AGE (DAYS)	MAX LOAD (Lbs)	COMP STRENGTH (psi)	FRACTURE TYPE
1	6 00	28.27	10/24/97	3	45,000	1,590 Bw	-
2	6.00	28.27	10/28/97	7	124,000	4,390 BW	-
3	6.00	28.27	11/04/97	14			
4	6 00	28.27	11/18/97	28			
5	6.00	28.27	11/18/97	28			
6	6.00	28 27	11/18/97	28			

(Strength requirement exceeded in 7 Days)

UNLESS OTHERWISE INDICATED ALL TESTS WERE PERFORMED IN GENERAL ACCORDANCE WITH ASTM C39 AND ASTM C1231
* DENOTES CURED IN FIELD <<< DENOTES LOW COMPRESSIVE STRENGTH
FRACTURE TYPE IS INDICATED BY LETTER (A) CONE (B) CONE & SPLIT (C) CONE AND SHEAR (D) SHEAR (E) COLUMNAR
FRACTURE TYPE NOT APPLICABLE WHEN CYLINDERS TESTED IN ACCORDANCE WITH ASTM C1231

POUR LOCATION: 2nd truck compactor access road
pad across perimeter road

REMARKS: 5 gallons water added to 10 cy authorized by foreman (Mike)



RESPECTFULLY SUBMITTED

Bryant B. Wildes
Bryant B. Wildes

LAW ENGINEERING

Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT. R. B. Baker, Inc **JOB NO.** 40562-7-3343

PROJECT. Trailridge Closure - Compactor Access Road
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR~~ ~~DEPTH~~
		Tests Performed on 10/16/97					
7	11.9	114.2	1	100	100	3	*
15	11.1	115.6	14	99	98	3	**

TEST LOCATIONS.

7 126+05E @ 92+38N * Top of 1st 12" lift crush conc.
15 Subgrade for compactor access rd conc @ Perimeter Rd
** Top of Stabilized Subgrade

TEST COMPARED TO

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
LBR 1	114 0	11 8
LBR 14 #	116 9	12.2

LBR from job 40562-5-2845

REMARKS

Performed In General Accordance With
3 - ASTM D2922

RESPECTFULLY SUBMITTED.

Bryant B. Wildes

Bryant B Wildes

LAW ENGINEERING

Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT: R. B Baker, Inc **JOB NO:** 40562-7-3343

PROJECT: Trailridge Closure - Compactor Access Road
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR DEPTH~~
		Tests	Performed	on 10/04/97			
1	10.9	114.2	1	98	98	3	*
2	9.5	115.1	1	99	98	3	*
3	21.1	99.4	2	96	90	3	**
4	20 4	98.7	2	95	90	3	**
5	21 4	99.9	2	96	90	3	**
6	20 9	97.9	2	95	90	3	**
7	11 0	112 6	1	99 <<	100	3	***
8	11.6	113.8	1	100	100	3	***
9	11 6	114 2	1	100	100	3	***
10	11.9	114 1	1	100	100	3	***
11	11.6	113 9	1	100	100	3	***

TEST LOCATIONS:

1 24" RCP westside of Perimeter Rd * Top of Pipe
2 24" RCP eastside of Perimeter Rd * Top of Pipe
3 126+00E @ 92+33N, Thk = 12 1/2" ** Top of Compactor Access Rd.
4 125+30E @ 92+38N, Thk = 12" ** Top of Compactor Access Rd
5 124+50E @ 92+30N; Thk = 13" ** Top of Compactor Access Rd
6 123+70E @ 92+38N; Thk = 12" ** Top of Compactor Access Rd.
7 126+05E @ 92+38N; Thk.= 13" *** Top of 1st 12" lift crush conc.
8 125+40E @ 92+33N; Thk = 12 1/2"*** Top of 1st 12" lift crush conc
9 124+40E @ 92+36N, Thk.= 12 1/2"*** Top of 1st 12" lift crush conc
10 123+60E @ 92+38N; Thk.= 13"*** Top of 1st 12" lift crush conc
11 126+00E @ 92+38N, Thk.= 26"*** Top of 2nd 12" lift of crush conc.

TEST COMPARED TO:

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
1	116 3	9 2
CL 2	103 6	20 8
LBR 1	114 0	11 8

REMARKS

Performed In General Accordance With:
3 - ASTM D2922

<< Denotes Less than Specified Compaction

RESPECTFULLY SUBMITTED.

Bryant B. Wildes

Bryant B. Wildes

LAW ENGINEERING

Jacksonville, Florida

REPORT OF FIELD DENSITY TESTS

CLIENT. R B Baker, Inc. **JOB NO:** 40562-7-3343

PROJECT Trailridge Closure - Compactor Access Road
Jacksonville, Florida

TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION ~~OR~~ ~~DEPTH~~
		Tests	Performed	on 10/04/97			
12	11.9	114.0	1	100	100	3	***
13	11.7	114.0	1	100	100	3	***
14	12 0	114.2	1	100	100	3	***

TEST LOCATIONS

12 125+30E @ 92+33N, Thk = 25" *** Top of 2nd 12" lift crush conc
13 124+50E @ 92+35N, Thk = 26" *** Top of 2nd 12" lift crush conc
14 123+75E @ 92+30N, Thk = 28" *** Top of 2nd 12" lift crush conc.

TEST COMPARED TO.

PROCTOR NUMBER	MAXIMUM DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)
LBR 1	114 0	11 8

REMARKS

Performed In General Accordance With
3 - ASTM D2922

RESPECTFULLY SUBMITTED

Bryant B. Wildes

Bryant B Wildes

Appendix E
Stormwater Modifications

Storm water modifications were made as per approved specifications and plans Storm water was discharged to facilitate modifications Water quality was monitored by the QC monitor during the discharge period

TRAIL RIDGE LANDFILL
WATER QUALITY MONITORING

Date	Discharge (NTU)	Background (NTU)	Comments	Date	Discharge (NTU)	Background (NTU)	Comments
9/29/97 AM	30	13	Background @ Fifeton Rd Bridge	10/15/97 AM	18	1 5	
9/29/97 PM	25	10		10/15/97 PM	32	15	
9/30/97 AM	15	2		10/16/97 AM	30	10	
9/30/97 PM	15	1 5		10/16/97 PM	25	5	
10/1/97 AM	10	1 5	Started to Discharge at 10 00 AM	10/17/97 AM	38	2	Discharge Stopped
10/1/97 PM	10	1 5		10/17/97 PM	-		
10/2/97 AM	10	1 5		10/18/97 AM	-		
10/2/97 PM	10	1 5		10/18/97 PM	-		
10/3/97 AM	10	1 5		10/19/97 AM	-		
10/3/97 PM	10	1 5		10/19/97 PM	-		
10/4/97 AM	10	1 5		10/20/97 AM	-		
10/4/97 PM	10	1 5		10/20/97 PM	-		
10/5/97 AM	10	1 5		10/21/97 AM	-		
10/5/97 PM	10	1 5		10/21/97 PM	-		
10/6/97 AM	11	1 5		10/22/97 AM	-		
10/6/97 PM	10	1 5		10/22/97 PM	-		
10/7/97 AM	-	-	No Discharge	10/23/97 AM	-		
10/7/97 PM	-	-	No Discharge	10/23/97 PM	-		
10/8/97 AM	18	1 5	Started to Discharge at 8 30 AM	Pump Removed from Pond			
10/8/97 PM	18	1 5					
10/9/97 AM	18	1 5	Started to Discharge at 11 00 AM				
10/9/97 PM	18	1 5					
10/10/97 AM	17	1 5					
10/10/97 PM	17	1 5					
10/11/97 AM	18	1 5					
10/11/97 PM	18	1 5					
10/12/97 AM	-	-	No Discharge				
10/12/97 PM	-	-	No Discharge				
10/13/97 AM	20	1 5					
10/13/97 PM	18	1 5					
10/14/97 AM	18	1 5					
10/14/97 PM	18	1 5					

Ken Bennett
Signature

MAPS

AND

CD'S

SCANNED

SEPARATELY