Clean Harbors®
ENVIRONMENTAL SERVICES, INC.

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Evolving To Meet Tomorrow's Challenges

CLEAN HARBORS BATON ROUGE, LLC
BATON ROUGE, LOUISIANA

Post Closure Permit
Renewal Application
Landfill 717

Volume 4 of 5
Appendix N

Prepared for:

Clean Harbors Baton Rouge, LLC
13351 Scenic Highway
Baton Rouge, Louisiana 70807

Agency Interest #1516
LAD 010395127-PC-3

March 2008

11827 Sunray Avenue Baton Rouge, Louisiana 70816 Telephone: 225.755.8844 Fax: 225.755.8845
www.esrgroup.com

CONSTRUCTION QUALITY ASSURANCE REPORT FOR INSTALLATION OF CLAY CAP - LANDFILL CELL 717 ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

In fufillment of Section 4.0 of the Landfill Cell 717 Closure and Post-Closure Care Plan, Dated April 1987, and Closure Permit LAD-010395127-CP-4.

Prepared for:

RES

Rollins

Environmental Services (LA) Inc.

Prepared by:

aquaterra

A GREAT LAKES CHEMICAL CORPORATION COMPANY

NOVEMBER 1995

ROLLINS
ENVIRONMENTAL SERVICES (LA) INC.

P.O. Box 74137
Baton Rouge, Louisiana 70874-4137
Phone 504/778-1234, Fax 504/778-3510

November 16, 1995

Mr. Glenn A. Miller, Assistant Secretary
Hazardous Waste Division
Louisiana Department of Environmental Quality
P. O. Box 82178
Baton Rouge, Louisiana 70884-2178

SUBJECT: CLOSURE CERTIFICATION FOR LANDFILL CELL 717
CLOSURE PERMIT #LAD010395127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.
BATON ROUGE FACILITY

Dear Mr. Miller:

This letter is to inform you that we have completed the closure of Landfill Cell 717 at the Rollins Environmental Services (LA) Inc. (RES(LA)) Baton Rouge Facility in general accordance with the revised closure plan dated March 25, 1988 and the subsequent Closure Permit #LAD010395127-CP-4 issued by the Louisiana Department of Environmental Quality (LDEQ) on October 27, 1988 (Permit Expiration Date November 16, 1995). Transmitted herewith are four (4) copies of the Final Construction Quality Assurance Report for closure of Landfill Cell 717 prepared by Aquaterra. As required by LAC 33:V.3517, we are enclosing the certification of closure by a Louisiana Registered Professional Engineer. In addition, we are enclosing a copy of a survey plat which has been prepared by a Louisiana Registered Professional Land Surveyor and filed with the East Baton Rouge Parish Planning Commission, delineating the limit and deed restricting the disturbance of Landfill Cell 717.

LAC 33:V.4403 requires RES(LA) to maintain financial assurance for closure of the facility. Our current closure and post-closure plan dated June, 1994 and financial assurance documents dated July 21, 1995 include provisions and financial assurance ($343,485 adjusted for 10% contingency and inflation rate of 1.68% for 1995) to specifically close Landfill Cell 717. Please provide in accordance with LAC 33:V.4403.H, a written release from the requirements to maintain the financial assurance for closure of Landfill Cell 717.

Thanks for the cooperation throughout this closure project. Should you have any questions, please do not hesitate to call Steve Cange or John Arbuthnot of our staff at (504) 778-3607 and 3596, respectively.

Sincerely,

Michael F. DeCarlo
President

MFD/JCA/SWC/jrd

Attachments

cc: Ms. Linda Korn Levy, Ground Water Protection Division - LDEQ

CLOSURE CERTIFICATION - LANDFILL CELL 717

I certify under penalty of law that the hazardous waste management unit, Landfill Cell 717 has been closed in accordance with the requirements as stipulated in the Closure Permit (LAD 010 395 127-CP-4). I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment.

Michael F. DeCarlo
President
Rollins Environmental Services (LA) Inc.
(Owner)

11/16/95
Date

Charles R. Furlow, P.E.
Principal
Aquaterra, Inc.
(CQA Contractor)

11/16/95
Date

STATE OF LOUISIANA
CHARLES R. FURLOW
REG. No. 18341
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

John C. Arbuthnot, P.E.
Director of Remediation
Rollins Environmental Services (DE) Inc.
(Owner's Closure Engineer)

11/16/95
Date

STATE OF LOUISIANA
JOHN C. ARBUTHNOT
REG. No. 17688
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

William P. Paul, P.E.
Project Manager
Aquaterra, Inc.
(CQA Contractor)

11-16-95
Date

STATE OF LOUISIANA
WILLIAM P. PAUL
REG. NO. 25714
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

ROLLINS
ENVIRONMENTAL SERVICES (LA) INC.

P.O. Box 74137
Baton Rouge, Louisiana 70874-4137
Phone 504/778-1234, Fax 504/778-3510

November 14, 1995

CERTIFIED MAIL - Z109 349 299

City/Parish Planning Commission
P. O. Box 1471
Baton Rouge, Louisiana 70821

Attn: Mr. Troy L. Bunch, Acting Planning Director

SUBJECT: DEED RESTRICTION NOTIFICATION - LANDFILL CELL 717 - ROLLINS ENVIRONMENTAL SERVICES (LA) INC. BATON ROUGE FACILITY EAST BATON ROUGE PARISH, LOUISIANA

Dear Mr. Bunch:

Pursuant to LAC 33:V.3517, we are furnishing herewith a survey plat of our Landfill Cell 717. This cell has been closed in accordance with a Closure Permit #LAD010395127-CP4 (Expiration Date - November 16, 1995) issued to Rollins Environmental Services (LA) Inc. by the Louisiana Department of Environmental Quality. It is our intention by submittal of this document to your commission to restrict the disturbance of Landfill Cell 717 in accordance with the applicable LAC Chapter 35 regulations.

Should you have any questions in this matter, please do not hesitate to contact me or Steve Cange of our staff at (504) 778-3607.

Sincerely,

Michael F. DeCarlo
President

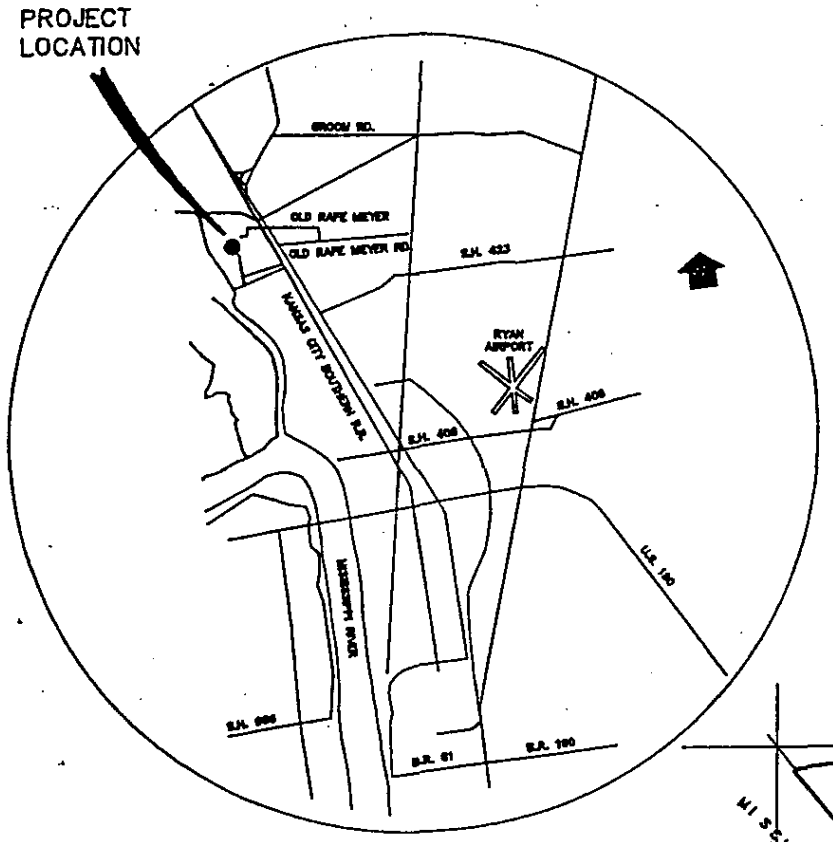
MFD/JCA/SWC/jrd

Attachment

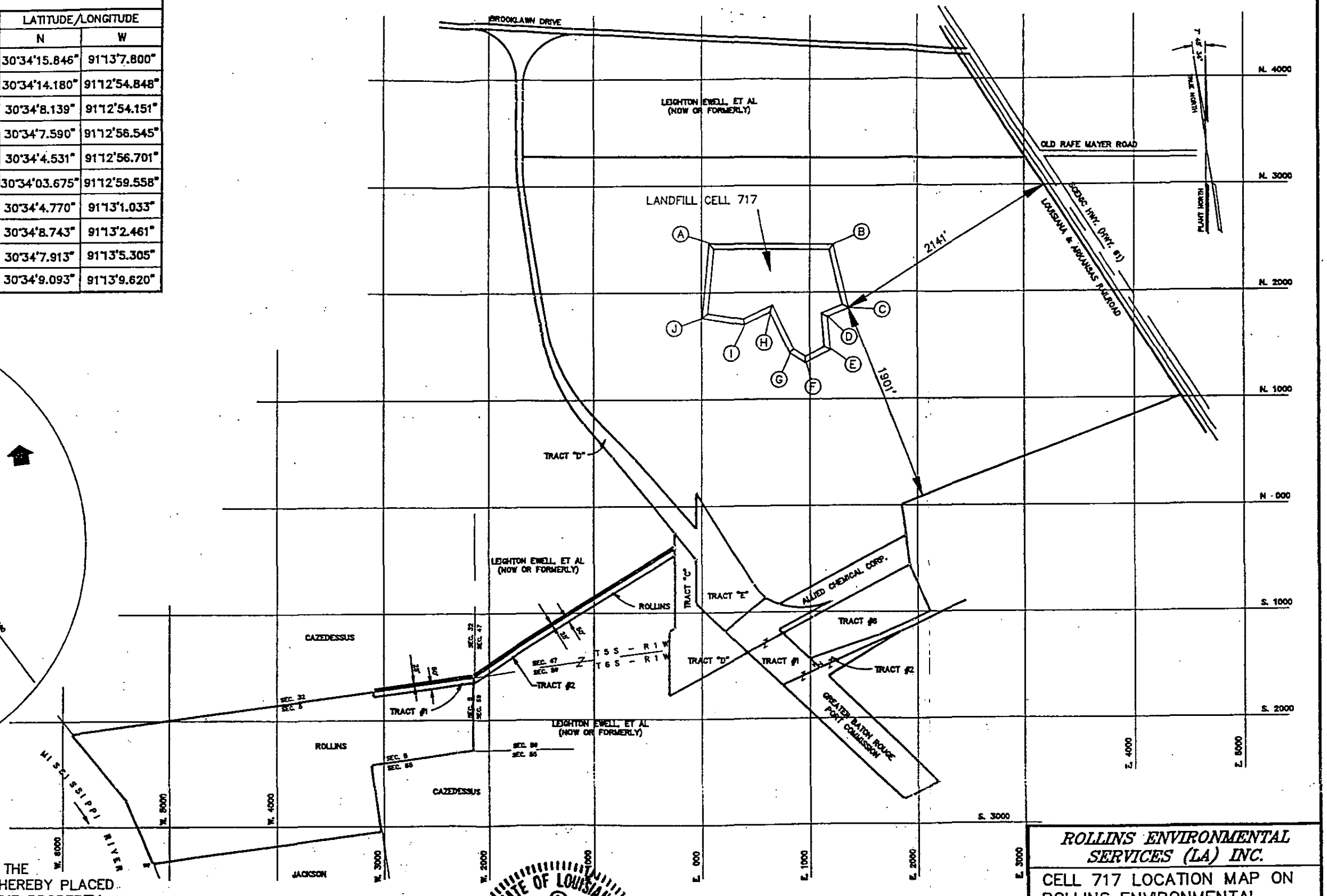
RES-SO-LTH-S

GRID COORDINATES NAD '83						
POINT	PLANT-GRID COORDINATES		STATE PLANE COORDINATES		LATITUDE/LONGITUDE	
	NORTH	EAST	Y	X	N	W
Ⓐ	2,463.5	31.5	753,198.4	3,316,868.7	30°34'15.846"	91°13'7.800"
Ⓑ	2,453.0	1,226.2	753,031.2	3,318,001.2	30°34'14.180"	91°12'54.848"
Ⓒ	1,856.8	1,370.7	752,420.9	3,318,062.7	30°34'8.139"	91°12'54.151"
Ⓓ	1,773.0	1,171.1	752,365.2	3,317,853.5	30°34'7.590"	91°12'56.545"
Ⓔ	1,465.1	1,200.2	752,056.2	3,317,840.2	30°34'4.531"	91°12'56.701"
Ⓕ	1,345.0	964.7	751,969.4	3,317,590.5	30°34'03.675"	91°12'59.558"
Ⓖ	1,436.7	821.7	752,079.9	3,317,461.4	30°34'4.770"	91°13'1.033"
Ⓗ	1,817.1	642.8	752,481.2	3,317,336.2	30°34'8.743"	91°13'2.461"
Ⓘ	1,699.8	408.0	752,397.1	3,317,087.6	30°34'7.913"	91°13'5.305"
Ⓙ	1,765.8	18.0	752,515.9	3,316,710.3	30°34'9.093"	91°13'9.620"

PROJECT LOCATION



LOCATION MAP
N.T.S.



GRAPHIC SCALE
1000 500 0 500 1500

NOTE:

ANY POTENTIAL OR PROSPECTIVE PURCHASER OF THE PROPERTY REPRESENTED ON THIS DOCUMENT, IS HEREBY PLACED ON NOTICE, AND NOTIFIED IN PERPETUITY, THAT THE PROPERTY HAS BEEN USED TO MANAGE HAZARDOUS WASTES, AND THAT USE OF THE PROPERTY IS RESTRICTED PURSUANT TO THE PROVISIONS OF LOUISIANA ADMINISTRATIVE CODE TITLE 33, PART V, CHAPTER 35, AND THAT THE SURVEY PLAT IS FILED WITH THE LOCAL ZONING AUTHORITY OR THE AUTHORITY WITH JURISDICTION OVER LOCAL LAND USE (BATON ROUGE CITY/PARISH PLANNING COMMISSION), AND WITH THE ADMINISTRATIVE AUTHORITY (LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY).

James M Theriot
JAMES M. THERIOT
PROFESSIONAL LAND SURVEYOR

STATE OF LOUISIANA
JAMES M. THERIOT
REG. No. 321
REGISTERED PROFESSIONAL
LAND SURVEYOR

NO.	DATE	DESCRIPTION REVISIONS	BY

ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

CELL 717 LOCATION MAP ON ROLLINS ENVIRONMENTAL SERVICES (LA) INC. PROPERTY EAST BATON ROUGE PARISH, LOUISIANA

Brown & Butler, Inc.
Consulting Engineers and Land Surveyors
Baton Rouge, Louisiana

DESIGNED: N/A	DETAILED: TDT	SHEET NO.	
DATE: 10-10-95	CHECKED: JMT	1 of 1	
SCALE: 1" = 1000'			

1603

G:\INDUSTRIAL\ROLLINS\717\717-V10.dwg

aquaterra
GREAT LAKES CHEMICAL CORPORATION COMPANY

BATON ROUGE OFFICE
P. O. BOX 83277 BATON ROUGE LA 70884-3277 504/756-2555 FAX 504/756-2562

November 16, 1995

Mr. John C. Arbuthnot, P.E.
Rollins Environmental Services (LA) Inc.
P.O. Box 74137
Baton Rouge, Louisiana 70874-4137

CONSTRUCTION QUALITY ASSURANCE REPORT FOR INSTALLATION OF CLAY CAP - LANDFILL CELL 717 ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Dear Mr. Arbuthnot:

Submitted herein is the final Construction Quality Assurance (CQA) report documenting closure of Landfill Cell 717 at your Baton Rouge, Louisiana facility. Final closure activities consisted of the construction of a clay cover system over the landfill cell and the refurbishment of the existing leachate collection/leak detection well system. Representatives of this office were present to observe and document these activities since their initiation in September 1987.

This report contains a discussion of the quality control program and presents the associated field and laboratory data collected during closure of the cell. In addition, documentation of the various upgrades made to the leachate collection/leak detection well system is also provided. Based on the results of our field monitoring and laboratory testing program, it is our opinion that closure activities were conducted in general accordance with the current state of practice, and in accordance with Section 4.0 of the 1987 *"Closure and Post-Closure Care Plan"*.

If you have any questions concerning this information, please contact this office. It is a pleasure to provide these quality assurance services to Rollins Environmental Services (LA) Inc.

Sincerely,

Aquaterra, Inc.

William P. Paul

William P. Paul, P.E.
Project Manager

Thomas A. Furlow

for Charles R. Furlow, P.E.
Principal

WPP/CRF:wpp
Enclosure: CQA Report

c: James A. Phillips

R3C187.052

87B052

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1.0 INTRODUCTION

In accordance with Closure Permit LAD010395127-CP-4, this report documents final closure of Landfill Cell 717 at the Rollins Environmental Services (LA) Inc. [RES(LA)] facility located in Baton Rouge, Louisiana. Landfill Cell 717 was constructed in the early 1980s and occupies approximately 22.2 acres of land in the western portion of the RES(LA) site. The landfill was operational from August 1980 through November 1987 with closure activities beginning in the late 1980s. A site map depicting the location of Cell 717 in relation to the plant site is provided herein as Figure 1.

This report documents the Construction Quality Assurance (CQA) program completed during closure of the landfill cell. The CQA program included visual monitoring of the placement of select fill for the cap and related appurtenances, periodic observations during topsoil placement, and the field and laboratory testing of soil characteristics. In addition, activities associated with the refurbishment of the leachate collection/leak detection (LC/LD) well system are also documented in this report. These activities included the abandonment and/or replacement of several wells, and the installation of air driven ejector-type pumps and associated piping. Completion of these closure activities culminate several years of work related to the closure of the cell.

Section 2.0 of this report provides an overview of the regulatory history associated with closure of Cell 717. The first part of Section 2.0 provides information relating to the installation of the landfill cover system while the latter part of the section provides background on the upgrade to the LC/LD wells. More detailed documentation on the landfill cover system is presented in Section 3.0, and documentation for the upgrade of LC/LD wells is provided in Section 4.0. A summary for the report is provided in Section 5.0. Pertinent references are presented in Section 6.0.

2.0 REGULATORY BACKGROUND

The following subsections provide a chronological summary of the regulatory background associated with closure of Cell 717. Background related to construction of the cover system is provided in Section 2.1. Items related to the refurbishment of the LC/LD well system are discussed in Section 2.2. Copies of pertinent correspondence are included in Appendix A.

2.1 Cover System

The regulatory history associated with the Cell 717 cover system dates back to the February 1987 Consent Decree between RES(LA) and the Louisiana Department of Environmental Quality (LDEQ). In accordance with Section G.1.b of the Consent Decree, RES(LA) submitted a Revised Initial Closure and Post-Closure Care Plan for Cell 717 in May 1987. The Closure Plan provided for the construction of a cover system that would:

- Provide long-term minimization of migration of rainfall through the closed landfill cell;
- Function with minimum maintenance;
- Promote drainage and minimize erosion of the cover;
- Accommodate settling and subsidence so that the cover's integrity is maintained; and
- Have a permeability equal or less than the permeability of any bottom liner system or natural subsoils present.

The plan also provided for post-closure care requirements including periodic inspections, site maintenance and security, leachate collection and removal, and ground water monitoring. The plan specified a 30-year post closure monitoring period.

LDEQ-Ground Water Protection Division approved the Closure Plan in a letter dated June 9, 1987 but noted that certain modifications (i.e., closure and post-closure cost estimates) would be required by the Permitting Section of LDEQ. The cost estimates were submitted to LDEQ on March 25, 1988 and the agency approved the Closure Plan in final on September 2, 1988. On October 27, 1988, following a required thirty (30) day public notice, LDEQ issued a closure permit (LAD 010395127-CP-4) for final closure of Landfill Cell 717. The permit had an effective duration of 180 days.

Due to the quantity of earthwork and related activities required to close Cell 717, several extensions to the closure permit were required. These extensions were the result of a number of factors including: bad weather, extensive drainage and roadway modifications, on-going activities in adjacent landfill cells, upgrades to the leachate collection/leak detection well system, etc. The

various RES(LA) and LDEQ correspondence associated with the closure extensions is provided in Appendix A of this report.

2.2 Leachate Collection/Leak Detection Well System

The February 1987 Consent Decree (Section G.1.a) required the development of a corrective action plan for remediation of the leak detection and leachate collection systems associated with Landfill Cell 717. A report, entitled *"Assessment Report on Leak Detection and Leachate Collection Systems"*, was submitted to LDEQ on June 2, 1987 in response to the Consent Decree. The June 1987 report recommended the replacement of Leachate Collection Wells LC-6, LC-13 and LC-15. Additional Leachate Collection Wells (LC-3, LC-5, LC-12 and LC-19) were later added to the list of wells to be replaced due to restrictions encountered within these wells. Documentation of the well replacements is provided later in Section 4.0 of this report.

Additional LC/LD wells were replaced and/or abandoned during the late 1980s to early 1990s. In accordance with protocols approved by LDEQ, Leak Detection Well D-2 was abandoned during two separate time intervals (i.e., November 1987 and January 1988). In May 1989, two more Leak Detection Wells (LD-3 and LD-7) were abandoned in accordance with LDEQ-approved procedures. Finally, Leachate Collection Wells LC-16 and LC-17 were replaced by Wells LC-16A, LC-17A, LC-25 & LC-26 in March-April 1992. Documentation of the various well installations and/or abandonments is provided in Section 4.0 of this report.

3.0 DOCUMENTATION FOR CONSTRUCTION AND CQA OF COVER SYSTEM

In accordance with Section 4.0 of the March 1988 Closure Plan, closure of the Cell 717 consisted of the following:

(1) Field verification of the existing clay liner;

(2) Construction of the final cover;

(3) Construction of drainage facilities;

(4) Field verification of the existing clay cover over Subcell D, Below-Grade Area; and

(5) Certification of closure activities (i.e., this report).

Clay cap and topsoil installation was performed by Sussex Contractors, Inc., a general contractor for RES(LA). The vegetative cover was installed by Economy Grassing. Aquaterra, Inc. (formerly ENCOR/WLFE) performed CQA for the earthwork installation as a representative of, and under contract to, the owner, RES(LA). A listing of personnel involved with the construction of the clay cap for Cell 717 Clay Cap is provided in Table 1. Table 2 provides time periods when Aquaterra, Inc. (formerly ENCOR/WLFE) monitors were on-site during CQA of the clay cap.

Construction/CQA activities associated with the closure of Cell 717 have been on-going since September, 1987 with delays due to weather and other on-site construction activities. The following subsections document these activities with particular focus on both the construction and CQA aspects of each activity. Daily field reports (DFRs) for those dates which monitors were on site are provided in Appendix B. A summary of these DFRs is presented on Table 3.

3.1 Verification of Existing Clay Liner

As required by Section 4.1 of the Closure Plan, the existing clay liner was verified by visual inspection and documented by survey cross-sections prepared by Brown and Butler. Drawings 06, 07, and 08 of the Closure Plan provided approximate locations and elevations of the existing liner. In accordance with the Closure Plan, verification of the liner consisted of the following:

- removal of the overburden soil to expose the clay liner and inspection of the liner to verify its existence;
- scarification of the liner to a depth of six inches;
- checking the liner elevations; and
- extending the liner as necessary to the elevations specified on Drawings 06, 07, and 08 of the Closure Plan.

In addition, Aquaterra, Inc (then WLFE) performed field moisture/density testing, and laboratory permeability testing on the existing clay liner to document its integrity. Following exposure of the existing clay liner, the surface was scarified and clay cap material was placed in lifts on the liner to extend it to necessary elevations as required by the Closure Plan. Photographs of exposed liners were taken and are on file at the RES(LA) facility. Details on the placement of the cap material are provided in the following section.

3.2 Clay Cap Construction

Procedures for construction of the clay cap were presented in Section 4.2 of the 1988 Closure Plan. This section of the Closure Plan specified the following profile for the Cell 717 cover system:

- Three feet of recompacted clay with percent passing the No. 200 sieve greater than 30, the liquid limit greater than 30 and the plasticity index greater than 15 constructed to have a permeability equal to or less than 1×10^{-7};
- Six inches of clean fill consisting of sandy loam soil;
- Six inches of topsoil consisting of clay loam soil; and
- Grass cover.

Due to similarities in construction techniques, borrow soil source, quality control parameters, etc., construction of the Cell 717 cover proceeded based on the experience gathered from an earlier borrow evaluation and test fill program conducted for Landfill Cell 901. The results of this earlier evaluation were presented in a WLFE report entitled *"Earthwork Quality Control Summary Report for Cell 901"* dated September 10, 1987. Subsequently, an additional borrow evaluation was conducted for the southern area of the Western Tract. The results of this evaluation were presented in an ENCOR report entitled *"Borrow Evaluation Program, Western Tract - Southern Area"* dated November 20, 1990. The results of both evaluations were utilized for the earthwork construction on Cell 717.

The clay cap for Cell 717 was constructed of soils classified as clay (CH) or silty clay (CL), which required adequate compaction to insure low compressibility, low hydraulic conductivity, and high shear strength. Table 4 provides the minimum Plasticity Index for the various soil types which comprise the clay cap material.

Initial construction for the clay cap consisted of first grading and surveying the surface of the interim soil-covered waste. Prior to placing the clay cap material, the interim soil-covered waste was proof-rolled to eliminate soft zones, irregularities, and abrupt changes in grade. As discussed in Section 3.1, the existing clay liner was extended as necessary to the approximate elevations as shown on Drawings 06, 07 and 08 of the Closure Plan in preparation for the clay cap tie-in. Clay

rich soils were then placed in loose lifts over the interim soil-covered waste and compacted according to the specifications using a cleated, vibratory compactor or sheepsfoot roller. As the compaction process was completed on each lift, the soils were tested in the field by performing field moisture content and density determinations using a nuclear moisture/density gauge.

3.2.1 Field and Laboratory Testing Program

Field testing was conducted by Aquaterra, Inc. (formerly ENCOR/WLFE). Quality control criteria typically used for landfill earthwork construction specify a minimum compaction of 90 percent and a moisture content greater than optimum as determined by the Standard Proctor Compaction Test, ASTM D698. In addition, Standard Proctor Test results of borrow soils taken from the RES(LA) site have yielded maximum dry density values ranging from 109.4 lbs/ft^3 to 108.5 lbs/ft^3 with optimum moisture contents ranging from 16.5 percent to 17.5 percent. These values formed the basis of the quality control program for closure of Cell 717.

In areas where field tests indicated unacceptable results according to the above quality control criteria, the area was reworked and retested until acceptable results were obtained. Unacceptable field tests were the result of several different variables (i.e., wet or dry conditions, insufficient compaction, etc.). When visual observation indicated unsuitable materials were placed, the suspect material was removed and discarded. Material appearing too wet was disced and allowed to aerate. Dry fill was watered and disced prior to being recompacted. Unacceptable field tests are indicated on the DFRs as failures.

Soil classification and hydraulic conductivity parameters were determined at regular intervals by obtaining soil samples and performing geotechnical laboratory testing. The locations of all hydraulic conductivity test samples for the clay cap are presented on Figure 2. Relatively undisturbed samples of the compacted silty clays and clays were secured by pushing a three-inch diameter Shelby tube sampler into the compacted lift for subsequent confirmation of field water content and dry density through laboratory permeability testing. Disturbed samples were obtained at selected test point locations for laboratory hydrometer analysis and Atterberg Limit determinations.

Testing frequencies for various quality assurance parameters were calculated per cubic yard of landfill cap (estimated at 106,480 cubic yards based on a landfill surface area of 22 acres and a

cap thickness of 3 feet). Comparing the required testing to that which was performed shows that the minimum requirements were achieved:

Test	Tests Required	Tests Performed
Atterberg Limits	106	131
Nuclear Density	532	875
Hydraulic Conductivity	22	71

3.2.2 Testing Results

All field data for the acceptable earthwork, including reworked areas, associated with clay cap quality control are presented on Table 5. The associated geotechnical laboratory test data for clay cap soils are presented on Table 6. All test data are designated according to the month and day the test was taken and the sequence of testing on a given day. For example, during 1987 test number 10/1/1 indicates that the field test was taken on October 1, and the test was the first such test made that day. Field tests were located using stadia surveying techniques where possible. The RES(LA) plant coordinates and elevation of each test were calculated and are presented along with the field and laboratory data on Tables 5 and 6. Grain size analysis curves are presented in Appendix C. A summary of these data are presented below.

Parameter	No. of Tests	Avg. Value	Std. Deviation
% of Std. Proctor Density	875	94.1	2.5
Dry Density (field determined, pcf)	875	102.5	2.8
Water Content (field determined, %)	875	20.7	1.9
Dry Density (lab determined, pcf)	69	106.5	4.7
Water Content (lab determined, %)	130	20.1	2.3
Liquid Limit/Plasticity Index	131	46/29	5/6
Hydraulic Conductivity	71	7.3×10^{-9}	1.3×10^{-8}

In two instances, the results of Atterberg limit tests on the clay cap material indicated that the liquid limit fell slightly below the requirements of Table 4. In the same tests, the plasticity index exceeded the minimum requirement. Where soils are this close to the minimum requirements, it has been found that once compacted, they will meet the required criteria for hydraulic conductivity. This experience was verified by the results of the hydraulic conductivity test on Point No. 12/4/3 of 1987. This sample has a liquid limit slightly below the requirements as specified on Table 4. The hydraulic

conductivity of 2.0 x 10^{-8} cm/sec is, however, well within the specified requirements. Since it was felt that the hydraulic conductivity criteria would be met, the soils were not removed.

3.2.3 Verification of Clay Cap Thickness

As required by the Closure Plan, verification of clay cap thickness was performed by Brown and Butler, Inc. survey crews. To insure a minimum three-foot thick clay cap, the final clay cap elevations were compared to final soil covered waste elevations. Cross-sections prepared by Brown & Butler, Inc. to verify clay cap thickness are presented on Figures 5 through 23.

3.3 Perimeter Drainage Channels

Construction of perimeter drainage channels were conducted periodically during the course of the clay cap placement. Drainage channels were typically excavated into the clay cap using a motor grader and bulldozer. Aquaterra, Inc. verified the thickness of the clay cap in the areas of the perimeter drainage channels using surveys conducted by Brown and Butler, Inc. (see Figures 5 through 23). All drainage channels were generally built according to Section 4.3 of the Closure Plan with the exception of the collection channel at the southeast corner of Cell 717C, which was relocated slightly to accommodate a service road.

3.4 Topsoil

After verification of clay cap thickness, topsoil was placed to support vegetative cover and provide erosion control. Soils used for topsoil fill were typically classified ML or CL. Verification of topsoil thickness was performed by Brown and Butler, Inc. following installation. Cross-sections verifying topsoil thickness are presented on Figures 5 through 23.

Quality control for placement of topsoil consisted of periodic visual inspection of placement activities. Review of elevations before and after placement of the topsoil indicates that a minimum thickness of one foot has generally been maintained with the exception of some drainage channels. In these areas, a minimum three foot clay cap was maintained with an additional one foot layer of clay and/or topsoil resulting in a minimum four foot cover. No field testing was performed on the topsoil materials. Two samples of the topsoil were obtained after placement for subsequent laboratory testing. These samples were selected from areas which would represent previously and newly placed topsoil to verify the integrity of the topsoil layer over time. The samples were

subjected to Atterberg Limits determinations, grain size analyses, and permeability tests. The results of the laboratory testing indicated that the integrity of the topsoil is not adversely affected over time. The results of the testing are presented on Table 7. Grain size analysis curves are included in Appendix C.

3.5 Vegetative Cover

Upon completion of topsoil placement, Economy Grassing was contracted by RES(LA) to provide vegetative cover on Cell 717. After seeding, fiber matting was placed for control of erosion along the ditches and side slopes. The matting consisted of a thin biodegradable mat composed of Aspen wood-fibers, to support the vegetative cover and provide the necessary erosion control to protect the integrity of the cap.

3.6 Subcell D Below-Grade Area

Section 4.4 of the Closure Plan provided special procedures for closure of Subcell D. This area had previously been covered, at the natural grade level, with seven to ten feet of clay rich soil. The closure procedures included verifying the adequacy of the clay cap by assessing whether the in situ vertical permeability was less than the required value of 1×10^{-7} cm/sec. Five soil borings were drilled and several soil samples were obtained from the cap and submitted to the laboratory for various physical properties tests including permeability, consolidation, unconfined compression, and Atterberg limits. The locations of the five borings are presented in Appendix D of this report. In addition, data collected during this drilling program are also provided. This information was taken from the *"Engineering Report for Cell 904"* submitted in May of 1990. These data document that the existing clay cover was ten to eleven feet thick and met the laboratory requirements as specified in Section 4.4 of the Closure Plan.

As detailed in the Cell 904 Engineering Report, the Subcell D below-grade cover was used as a sub-base for the secondary clay liner component of Cell 904. The secondary clay liner for Cell 904 was tied into the Subcell D above-grade clay cap and the existing clay liner on the west side of the below-grade Subcell D Area. Further details of the CQA activities for this area are provided in February 13, 1990 documents entitled *"Earthwork Construction Quality Assurance for Landfill Cell 904"* and *"Geosynthetic Construction Quality Assurance for Landfill Cell 904"*. Cross sections for this area are provided herein as Figures 5, 10 and 11. These figures illustrate that the existing clay

cover and the additional secondary and primary liner systems for Cell 904 exceed the required clay cap for Cell 717.

4.0 DOCUMENTATION FOR UPGRADE TO LC/LD WELL SYSTEM

The status of the LC/LD well system for Cell 717 may be summarized as follows:

Leak Detection Wells

- Well LD-1 was abandoned during construction of Landfill Cell 717C in the early 1980s;
- Well LD-2 was abandoned in November 1987;
- Wells LD-3 and LD-7 were abandoned in May 1989 to accommodate the construction of Landfill Cell 904;
- As approved by LDEQ, abandoned Leak Detection Wells LD-1, LD-2, LD-3 and LD-7 were replaced by the existing ground water monitoring network at the site (i.e., Well Cluster 21, Compliance Point Wells, etc.).
- Wells LD-4, LD-5, and LD-6 are currently in-place to monitor ground water quality directly beneath the liner for Cell 717.

Leachate Collection Wells

- Wells LC-1 through LC-24 were installed during construction to remove leachate from Cell 717;
- Well LC-4 was abandoned sometime in 1982 due to a break in the riser casing some 50 feet below existing waste grade;
- Wells LC-3, LC-5, LC-6, LC-12, LC-13, LC-15 and LC-19 were replaced between May and June 1988 (replacement wells were designated with an "A", i.e., LC-3A).
- The above wells, with the exception of Well LC-3, were abandoned in April 1988 prior to installing the replacement (i.e., "A") wells. Well LC-3 was later abandoned on June 17, 1992;
- Leachate Collection Wells LC-16 and LC-17 were replaced between March and April, 1992. These wells were replaced by four Leachate Collection Wells (LC-16A, LC-17A, LC-25, and LC-26). Leachate Collection Wells LC-16 and LC-17 were abandoned in November 1994.

Table 8 of this report provides well construction details for all the LC/LD wells for Cell 717. Well construction forms showing "as-built" information are provided in Appendix D for the newer (replacement) wells. The procedures used to abandon and replace the wells are presented in the following subsections, respectively. In addition, documentation associated with the air driven ejector-type pump system and related above-ground piping is also provided.

4.1 Well Abandonment

Leachate Collection Wells LC-5, 6, 12, 13, 15, and 19

For these wells, sand was tremied to within approximately ten feet from the ground surface. The remaining ten feet were grouted to just below ground surface by pumping a grout mixture of Portland cement, bentonite, and water. Well casings were cut off below the bottom of the clay cap to allow placement of overlying cap material in accordance with landfill closure plans. Further detail on the abandonment of these wells is provided in an October 13, 1988 report entitled *"Leachate Collection Well Replacements - Activities Report Landfill Cell 717"*.

Leak Detection Wells LD-2, 3, and 7

The abandonment of Well LD-2 was performed in two phases. The lower portion of the well was grouted November 4-6, 1987. The upper portion was grouted on January 14, 1988. A cement/bentonite mixture was used to grout the well full depth. The well casing was cut off below the bottom of the clay cap. Abandonment procedures were performed in general accordance with protocols presented in a February 15, 1988 report approved by LDEQ.

Wells LD-3 and LD-7 were grouted by Halliburton Services under the direction of WLFE. A one-inch diameter tremie pipe was placed near the well base and a cement/bentonite grout was pumped until a return was noted through the PVC well pipe. The cement/bentonite slurry mix consisted of 7.8 gallons of water per sack of cement with six percent bentonite by dry weight of cement.

Leachate Collection Wells LC-3, 16 and 17

Abandonment procedures for these wells were similar to those used during the previous well abandonments. However, in accordance with a February 24, 1992 request from LDEQ, these wells were grouted using a higher solids (Volclay) grout.

4.2 Well Replacement

Protocols for replacing the leachate collection wells (LC-3, 5, 6, 12, 13, 15 and 19) were submitted to LDEQ on August 7, 1987. The protocols included the drilling of a pilot hole at each location to verify the existing well installation depths prior to actual replacement. These protocols were approved by LDEQ on August 11, 1987 and a report dated March 9, 1988 was submitted to LDEQ documenting the results of the exploratory pilot holes. This report recommended a proposed drilling methodology and design for the leachate replacement wells. The report was approved by LDEQ on March 23, 1988. The wells were subsequently installed between May and June 1988 (LC-3A, 5A, 6A, 12A, 13A, 15A and 19A). A documentation report for the seven leachate collection well replacements was submitted to LDEQ on October 14, 1988. Reference is made to this document for additional detail on the well installation protocols.

The four wells installed in April 1992 (LC-16A, LC-17A, LC-25, and LC-26) were constructed similar to the wells installed in 1988. At each of the four well locations, a pilot hole was drilled using a 3.25-inch I.D. hollow stem auger (HSA). Upon encountering the clay liner, the open borehole was overdrilled using a 10-inch I.D. HSA. At each location, a six-inch diameter, stainless steel well (with 20 feet of screen) was installed inside the HSA and a sand pack was placed around the well eliminating the need for casing or drilling fluid. As the sand was added, the HSAs were removed from the borehole. The sand level was brought to within approximately 20 feet below the final clay cap. An approximate five foot layer of bentonite pellets was placed above the sand followed by Volclay grout to the ground surface. Development was performed with an air driven ejector-type pump to purge the well and remove sediments from the screen.

Upon completion of the final clay capping operations and topsoil placement, a HDPE protective shroud and concrete pad was placed around each well at ground surface. "As-built" construction details for the replacement wells are provided on well construction forms in Appendix D. Construction details for all other wells are provided in a June 1987 report entitled *"Assessment Report on Leak Detection and Leachate Collection Systems"*.

4.3 Installation of Ejector Pump System and Associated Piping

As discussed earlier in Section 2.2, Task G.1.a of the February 1987 Consent Decree required an evaluation of the pumping system for Cell 717. The evaluation, transmitted to LDEQ

on September 8, 1987, recommended the replacement of the existing submersible pump system with an air driven ejector-type system. LDEQ ultimately approved the installation of the proposed pumping system in a letter dated November 30, 1987.

As sections of the cap were completed with topsoil, sidewalks and pipe supports were installed for the new leachate removal system. This consisted of piping for leachate removal, as well as conduit for air and electricity for operation of the new system. The existing pump system continued in operation as the evaluation and design for the final pumping system was completed.

Upon completion of the improvements to the leachate removal system in August 1995, installation of the air driven ejector-type pumps began. Installation of the pumps and the associated piping required was complete by November 1, 1995. The pumping and removal system generally maintains twelve inches or less leachate in each well. Pumping records are on file at the RES(LA) Facility.

5.0 SUMMARY

The Aquaterra (formerly ENCOR/WLFE) staff provided CQA services during earthwork construction for closure of Landfill Cell 717 at the RES(LA) facility in Baton Rouge, Louisiana. The services provided were conducted in general accordance with guidelines established in the March 1988 Closure Plan entitled *"Landfill Cell 717 Revised Initial Closure and Post-Closure Care Plan"*. During construction of the clay cap, Aquaterra provided one or more qualified observers on-site. Brown and Butler, Inc. performed topographic surveys to document that the required soil layer thicknesses were achieved.

Select fill used in earthwork construction was visually monitored during placement, and field and laboratory testing was performed to verify compliance with the Closure Plan. Areas not meeting the minimum CQA plan requirements were reworked or removed and replaced, and retested until satisfactory results were obtained. After careful review of the on-site monitoring and associated field and laboratory data, it is our opinion that the earthwork construction performed for Cell 717 Closure Cap was conducted in general conformance with the plans and specifications, as required by Section 4.0 of the Closure Plan. The clay cap has essentially been complete since July 1993 with the exception of improvements to the leachate removal system. Periodic observations indicate that

the clay cap is performing as designed and constructed as required by Section 4.2 of the Closure Plan.

In addition to activities associated with the CQA of the Landfill Cell 717 cover system, refurbishment of the leachate collection/leak detection system was also completed during closure of the landfill cell. These activities were performed in association with a February 1987 Consent Decree with LDEQ. Work efforts included the abandonment and/or replacement of several leachate collection/leak detection wells. In addition, the former electric submersible pump system was replaced by an air driven ejector-type system. As required by the consent decree, these activities have brought the LC/LD system for Cell 717 into full working order. Monitoring of this system will be conducted as part of the 30-year post closure requirements.

6.0 REFERENCES

- Landfill Cell 717 Closure & Post-Closure Care Plan; Espey, Huston & Associates, Inc.; March 1988.
- Revised Initial Closure and Post Closure Care Plan - Cell 717 Plans; Espey, Huston & Associates, Inc.; May 1, 1987.
- Earthwork Quality Control Summary Report for Cell 901 Construction; WLFE; September 10, 1987.
- Borrow Evaluation Program, Western Tract - Southern Area; ENCOR; November 20, 1990.
- Engineering Report for Cell 717; Espey, Huston & Associates, Inc.; May 4, 1987, Amended March 15, 1988.
- ENCOR (formerly WLFE); Daily Field Reports 52-1 through 52-375; Dated September 30, 1987 through September 18, 1995.
- Earthwork Construction Quality Assurance for Landfill Cell 904; February 13, 1990; ENCOR.
- Geosynthetic Construction Quality Assurance for Landfill Cell 904; February 13, 1990; ENCOR.

TABLE 1
INSTALLATION AND CQA PERSONNEL - CELL 717 CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

COMPANY	PERSONNEL	TITLE
Rollins Environmental Services (LA), Inc. [RES(LA)] - Owner	John C. Arbuthnot, P.E.	Director of Remediation *
	Edward Lutz, P.E.	Landfill Manager
	James A. Phillips	Project Manager *
	Mike Barnett	Landfill Manager
Espey, Huston and Associates, Inc. (EH&A) - Design Engineers	John L. Potts, P.E.	Design Engineer
Aquaterra, Inc. - Construction Quality Assurance Contractors	Charles R. Furlow, P.E.	Project Manager *
	Victor R. Donald, P.E.	Project Manager
	Thomas A. Vrenick	CQA Manager *
	Jack C. Lind, P.E.	Project Coordinator, Monitor
	William P. Paul, P.E.	Project Coordinator, Monitor
	Emile Mercante	Monitor
	Steven D. Wintheiser	Monitor
	B. Gregory Taylor	Monitor
	Michael D. Caldwell	Monitor
	Robert C. Gann	Monitor
	Kirk K. Lowery	Monitor
	Sammie W. Fuller	Laboratory Manager
Sussex Contractor, Inc. - Earthwork Contractors	G.E. Brister	Earthwork Manager *
	George Wall	Equipment Manager *
Brown and Butler, Inc. - Surveyors	Jim Theriot	Project Manager *
	Jerry Middleton	Site Crew Chief *
National Seal Company/Industrial Environmental Liners, Inc. - Landscape Contractors	Cary Goss	President
	Darrell Hall	Foreman
Economy Grassing - Landscape Contractors	Darrell Hall	Foreman

* Primary personnel involved throughout project.

TABLE 2
ON-SITE CQA MONITORS - CELL 717 CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

MONITOR	DATES
T. Vrenick	9/30/87-5/21/88, 8/17/88-8/30/88, 9/28/88-12/6/88, 2/21/89, 3/9/89, 4/26/89, 1/12-16/90, 4/3-9/90, 5/22-31/90, 9/4-28/90, 10/1/90-11/7/90, 5/20/91-6/5/91, 10/7/92-10/9/92, 10/20/92-12/15/92, 1/5/93-2/1/93, 2/8/93-5/19/93, 6/17/93, 4/14/94-4/20/94, 4/25/94-4/29/94, 5/5/94-5/10/94, 5/25/94-2/26/94, 6/14/94-6/15/94, 6/20/94, 6/23/94, 7/22/94, 8/8/94, 9/14/94, 9/30/94, 10/6/94, 10/14/94, 11/11/94, 11/16/94, 11/22/94-11/23/94, 12/21/94-12/22/94
K. Lowery	5/23/88-6/9/88, 4/27/89
S. Wintheiser	6/28/88-7/13/88, 7/15/88, 3/8/89, 5/23/88-6/9/88, 4/27/89,3/13/89-3/31/89 4/6/89-4/12/89, 4/27/89
B. Taylor	2/23/89-3/1/89
J. Lind	9/27/88, 4/3-5/89
M. Caldwell	1/26/89-1/31/89
R. Gann	10/12/92-10/14/92, 11/17/92-12/1/92, 2/2/93-2/5/93, 5/20/93-5/21/93, 7/1/93, 7/7/93-7/8/93
E. Mercante	6/27/94-7/8/94, 11/7/94-11/8/94, 11/10/94-11/18/94, 11/28/94-11/29/94, 12/1/94, 12/5/94, 12/8/94-12/9/94, 12/14/94-12/15/94, 1/3/95, 1/5/95, 1/9/95-1/11/95
W. Paul	12/12/94

TABLE 3
EARTHWORK DAILY FIELD REPORT SUMMARY CELL 717
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT	DATE	REP	SITE	WEATHER	FIELD TESTING	LAB TESTING
52-001	870930	TAV	1.0	CLEAR	NONE	NONE
		EXPOSING VERTICAL LINER				
52-002	871001	TAV	2.0	CLEAR	DENSITY (5)	PERM (5) ATT (5)
		INSPECT EXPOSED LINER				
52-003	871002	TAV	9.5	CLEAR	NONE	NONE
		TRENCH X-SECTION, BEGIN VERTICAL LINER				
52-004	871003	TAV	7.5	CLEAR	DENSITY (8)	PERM (1), ATT (1)
		PLACING VERTICAL LINER				
52-005	871005	TAV	8.5	CLEAR	DENSITY (5)	NONE
		PLACING VERTICAL LINER AND 1st LIFT ON SLOPE				
52-006	871006	TAV	9.0	CLEAR	DENSITY (3)	NONE
		PLACING CLAY ON WASTE SLOPE, TIE TO VERTICAL LINER				
52-007	871007	TAV	9.0	CLEAR	DENSITY (4)	ATT (1)
		ADDING LIFT TO SOUTHERN 1/3 OF 717 CAP				
52-008	871008	TAV	9.0	CLEAR	DENSITY (4)	ATT (1),HYDRO (1)
		PLACING CLAY				
52-009	871009	TAV	8.0	CLEAR	DENSITY (5)	PERM (1), ATT (1)
		PLACING CLAY, USING WATER TRUCK BETWEEN LIFTS				
52-010	871010	TAV	7.0	CLEAR	DENSITY (7)	ATT (1)
		PLACING CLAY ON SOUTH 1/3 AND VERTICAL LINER				
52-011	871012	TAV	9.0	CLEAR	DENSITY (2)	NONE
		PLACING CLAY ON NORTH SIDE				
52-012	871013	TAV	9.0	CLEAR	DENSITY (9)	ATT,PERM,HYDRO(lea.)
		PLACING CLAY ON NORTH SIDE AND NORTH DITCH				
52-013	871014	TAV	9.0	CLEAR	DENSITY (3)	NONE
		PLACING CLAY ON NORTH SIDE AND NORTH DITCH				
52-014	871015	TAV	9.0	CLEAR	DENSITY (5)	ATT (1)
		PLACING CLAY ON SOUTH SIDE AND SOUTH DITCH				
52-015	871016	TAV	10.5	CLEAR	DENSITY (9)	ATT (1)
		PLACING CLAY ON SOUTH AND NORTH SIDES				
52-016	871019	TAV	9.0	CLEAR	DENSITY (3)	ATT(2),HYDRO,PERM(1)
		PLACING CLAY ON NORTH SIDE,DAMPENING BETWEEN LIFTS				
52-017	871020	TAV	8.5	CLEAR,RAIN LATE	DENSITY (8)	NONE
		PLACING CLAY ON NORTH AND SOUTH SIDES				
52-018	871021	TAV	9.0	CLEAR,WINDY	NONE	NONE
		PLACING CLAY ON SOUTH SIDE AND DITCH				
52-019	871022	TAV	6.5	CLEAR	DENSITY (10)	NONE
		PLACING CLAY				
52-020	871023	TAV	8.5	CLEAR	DENSITY (5)	ATT (1)
		PLACING CLAY IN NORTH, WEST AND SOUTH DITCHES				
52-021	871 026	TAV	3.0	CLOUDY, RAIN	NONE	NONE
		RAINED OUT				
52-022	871027	TAV	3.0	CLEAR	NONE	NONE
		WET CONDITIONS, STRIP TOP SOIL				
52-023	871028	TAV	2.0	CLEAR	NONE	NONE
		WET CONDITIONS, STRIP TOP SOIL				
52-024	871029	TAV	1.0	CLEAR	NONE	NONE
		WET CONDITIONS, STRIP TOP SOIL				
52-025	871030	TAV	6.5	CLEAR	NONE	NONE
		PLACING CLAY IN DITCH, HAUL TOP SOIL				

TABLE 3
EARTHWORK DAILY FIELD REPORT SUMMARY CELL 717
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.
(Continued)

REPORT	DATE	REP	SITE	WEATHER	FIELD TESTING	LAB TESTING
52-026	871102	TAV	9.5	CLEAR, WINDY	DENSITY (5)	PERM,HYDRO(1),ATT(2)
		BRING CLAY CAP TO GRADE				
52-027	871103	TAV	2.5	CLEAR, WINDY	DENSITY (3)	NONE
		BRING CLAY CAP TO GRADE				
52-028	871104	TAV	9.5	CLEAR, WINDY	NONE	NONE
		PLACE LIFT IN DITCH, B&B SURVEYED X-SECTION				
52-029	871105	TAV	9.0	CLEAR	DENSITY (8)	ATT, HYDRO (1)
		PLACING CLAY IN DITCH				
52-030	871106	TAV	8.5	CLEAR	NONE	NONE
		CLAY IN SOUTH AND WEST DITCHES, TOP SOIL TO CAP				
52-031	871109	TAV	.5	RAIN	NONE	NONE
		RAINED OUT				
52-032	871110	TAV	.5	CLOUDY	NONE	NONE
		NONE-TOO WET				
52-033	871111	TAV	8.5	PARTLY CLOUDY	NONE	NONE
		HAUL TOP SOIL TO CAP				
52-034	871112	TAV	5.0	PARTLY CLOUDY	NONE	NONE
		HAUL TOP SOIL TO CAP				
52-035	871113	TAV	5.0	PARTLY CLOUDY	NONE	NONE
		HAUL TOP SOIL TO CAP				
52-036	871130	TAV	2.5	PARTLY CLOUDY	NONE	NONE
		STRIP TOP SOIL, EXPOSE VERTICAL LINER NE CORNER				
52-037	871201	TAV	4.0	CLEAR	NONE	NONE
		EXPOSE VERTICAL ALONG NORTHEAST SIDE				
52-038	871202	TAV	5.5	PARTLY CLOUDY	NONE	NONE
		EXPOSE VERTICAL ALONG NORTHEAST SIDE				
52-039	871203	TAV	5.0	CLEAR	NONE	NONE
		STRIP TOP SOIL FROM WESTERN TRACT STOCKPILE ON 717				
52-040	871204	TAV	5.5	CLEAR	DENSITY (3)	PERM (3)
		GRADING WASTE				
52-041	871205	TAV	7.5	CLEAR	DENSITY (5)	NONE
		PLACE CLAY ON VERTICAL LINER AND 717D BERM				
52-042	871210	TAV	1.0	CLEAR	NONE	NONE
		PLACING CLAY ON CAP				
52-043	871211	TAV	3.0	CLEAR	DENSITY (6)	PERM,ATT,HYDRO(1)
		PLACE CLAY ON VERTICAL LINER				
52-044	871214	TAV	6.0	CLOUDY, WINDY	DENSITY (2)	ATT (1)
		PLACE CLAY ON VERTICAL LINER AND WASTE				
52-045	871215	TAV	5.5	CLOUDY, WINDY	NONE	NONE
		HAUL CLAY CAP MATERIAL				
52-046	871216	TAV	1.0	CLOUDY, WINDY	NONE	NONE
		PLACE CLAY ON WASTE, VERTICAL LINER AND 717D BERM				
52-047	871217	TAV	5.0	CLOUDY, WINDY	DENSITY (12)	ATT,PERM,HYDRO(2ea)
		PLACE CLAY ON 717D BERM				
52-048	871218	TAV	6.5	CLOUDY, COOL	DENSITY (11)	ATT (1)
		PLACING CLAY ON 717D BERM				
52-049	871222	TAV	4.5	PARTLY CLOUDY	NONE	NONE
		WET CONDITIONS; LOWERED WESTERN TRACT WELL RISERS				

TABLE 3
EARTHWORK DAILY FIELD REPORT SUMMARY CELL 717
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.
(Continued)

REPORT	DATE	REP	SITE	WEATHER	FIELD TESTING	LAB TESTING
52-050	871228	TAV	6.0	PARTLY CLOUDY	NONE	NONE
		WET CONDITIONS; SET SHROUDS ON OB-25A&B AND OB-29				
52-051	880413	TAV	2.0	CLEAR	DENSITY (6)	NONE
		DISCED AND RECOMPACTED AREA PLACED PREVIOUSLY				
52-052	880415	TAV	5.5	CLEAR	DENSITY (6)	NONE
		PLACE CLAY ON EACH SIDE OF ACCESS ROAD				
52-053	880420	TAV	1.0	CLEAR	NONE	NONE
		PLACING CLAY SOUTH OF ACCESS ROAD & NORTH OF LC-21				
52-054	880421	TAV	1.0	CLEAR	NONE	NONE
		PLACING CLAY SOUTH OF ACCESS ROAD & NORTH OF LC-21				
52-055	880422	TAV	2.0	CLOUDY	NONE	NONE
		PLACING CLAY NORTH OF LC-3 & LC-5				
52-056	880425	TAV	3.0	CLEAR	DENSITY (11)	NONE
		PLACING CLAY NORTH OF LC-3 AND LC-5				
52-057	880426	TAV	4.0	CLEAR	NONE	NONE
		PLACING CLAY NORTH OF LC-12 AND LC-14				
52-058	880427	TAV	6.0	CLEAR	DENSITY (8)	NONE
		PLACING CLAY NORTH OF LC-3 AND LC-5				
52-059	880428	TAV	8.5	CLEAR	DENSITY (12)	NONE
		PLACING CLAY NORTH OF LC-3 AND LC-5				
52-060	880429	TAV	9.0	PARTLY CLOUDY	DENSITY (7)	ATT(2),PERM(1)
		PLACING CLAY NORTH OF LC-3 AND LC-5				
52-061	880502	TAV	8.0	CLEAR	NONE	NONE
		PLACING CLAY NORTH OF LC-21 AND LC-22				
52-062	880503	TAV	9.5	CLEAR	DENSITY (3)	ATT (1)
		PLACING CLAY NORTH OF LC-21 AND LC-22				
52-063	880504	TAV	4.5	CLEAR	DENSITY (3)	NONE
		PLACING CLAY NORTH OF LC-21 AND LC-22				
52-064	880505	TAV	6.5	CLEAR	DENSITY (6)	PERM,ATT(1)
		PLACING CLAY NORTH OF LC-21 AND LC-22				
52-065	880506	TAV	9.0	CLEAR	DENSITY (10)	ATT (2)
		BRING AREA NORTH OF ACCESS ROAD TO FINAL GRADE				
52-066	880510	TAV	2.0	CLEAR	NONE	NONE
		PLACING CLAY SOUTH OF ACCESS ROAD				
52-067	880511	TAV	8.0	CLEAR	NONE	NONE
		FINAL GRADE NORTH OF ROAD,PLACE CLAY IN N. DITCH				
52-068	880512	TAV	9.0	CLOUDY	DENSITY (9)	ATT. (3)
		BRING LOW SPOTS TO GRADE, B&B SURVEY X-SECTION				
52-069	880513	TAV	4.0	CLEAR	NONE	NONE
		BRING LOW SPOTS TO GRADE, TOPSOIL NORTH OF ROAD				
52-070	880516	TAV	2.0	CLEAR, 80's	NONE	NONE
		EXPOSE LINER EAST SIDE 717D				
52-071	880517	TAV	6.5	CLEAR. 80'S	NONE	NONE
		EXPOSE LINER EAST SIDE 717D & SOUTH SIDE 717C				
52-072	880518	TAV	10.0	CLEAR,HOT,DRY	DENSITY (9)	PERM(2),ATT(2)
		EXPOSE LINERS, BEGIN LIFTS, SOME MATL DRY				
52-073	880519	TAV	5.0	CLEAR, HOT, 70-90	DENSITY (15)	NONE
		COVER EXPOSED LINER,CAP 717D				

TABLE 3
EARTHWORK DAILY FIELD REPORT SUMMARY CELL 717
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.
(Continued)

REPORT	DATE	REP	SITE	WEATHER	FIELD TESTING	LAB TESTING
52-074	880520	TAV	10.0	CLEAR, HOT, 70-90	DENSITY (12)	ATT(1)
		COVER EXPOSED LINER,CAP 717D & 717C				
52-075	880521	TAV	4.0	CLOUDY, RAIN	NONE	NONE
		GRADE 717D,EXPOSE LINER 717C,RAIN @ 0930				
52-076	880523	KL	9.5	CLEAR, 70-80'S	NONE	NONE
		EXPOSE LINER 717C,TEST 717D				
52-077	880524	KL	10.0	CLOUDY, 70-80'S	DENSITY	PERM(2), ATT(4)
		EXPOSE LINER 717C,COVER LINER 717C				
52-078	880525	KL	11.5	CLEAR,70-80'S	DENSITY(11)	ATT(1)
		FILL ON 717C LINER, CAP ON 717D				
52-079	880526	KL	9.0	CLEAR,70-80'S	DENSITY(6)	NONE
		WORK ON SLOPES OF 717C&D,STRIP TOPSOIL IN BORROW				
52-080	880527	KL	9.0	CLEAR, 60-80'S	DENSITY(2)	PERM(1),ATT(1)
		WORK ON SLOPES 717C&D,SURVEY DITCH SOUTH SIDE 717C				
52-081	880531	KL	5.0	CLEAR, 85	DENSITY(2)	NONE
		MOVING TOPSOIL TO 717				
52-082	880601	KL	9.5	PTLY CLDY, 70-90	NONE	NONE
		CLAY ON SE 717D,717D SLOPES,TRENCH SE SLOPE 717C				
52-083	880602	KL	7.5	CLEAR,70-90'S	DENSITY(4)	PERM(1),ATT(1)
		WORK ON SLOPES,SE 717D,SW 717D				
52-084	880603	KL	9.0	RAINY, 70'S	DENSITY (3)	ATT(1)
		SOUTH SLOPES 717C&D, RAINING BY 1230				
52-085	880606	KL	8.5	CLEAR, 70-90'S	DENSITY(2)	ATT(1)
		CLAY ON EAST SLOPE OF 717D & ON EAST SIDE 717D				
52-086	880607	KL	8.5	OVERCAST, 70-90	DENSITY (4)	PERM(1) & ATT(1)
		PLACE & COMPACT CLAY IN AREA OF 717C & 717D				
52-087	880608	KL	7.5	CLEAR & HOT		
		PLACE CLAY ON 717D EAST SLOPE & BETWEEN 717C & D				
52-088	880609	KL	9.5	CLEAR, 70-90'S	DENSITY	PERM(1),ATT(2),M%(2)
		WORK ON SLOPES OF 717C & D, PLACE CLAY ON 717D & C				
52-089	880628	SDW	1.0	CLEAR,95	NONE	NONE
		EXPOSING CLAY LINER @SW CORNER OF 717B				
52-090	880629	SDW	7.0	CLEAR, 95	NONE	NONE
		EXPOSE CLAY LINER ON SOUTH SIDE 717B & REMOVE CMP				
52-091	880630	SDW	9.0	CLEAR, 95	NONE	NONE
		EXPOSE LINER SOUTH SIDE 717B				
52-092	880701	SDW	2.0	CLEAR, 95	DENSITY	NONE
		WORK ON 717B LINER ON SOUTH SIDE				
52-093	880705	SDW	10.0	CLOUDY, 90'S	DENSITY (5)	NONE
		EXPOSE CLAY LINER 717B				
52-094	880706	SDW	8.0	CLOUDY, 90'S	DENSITY (17)	PERM & ATT
		PLACE FILL ON EXPOSED LINER				
52-095	880707	SDW	8.0	CLOUDY, HOT	NONE	NONE
		CLEAN UP MUCK FROM LINER on SOUTH SIDE 717B				
52-096	880708	SDW	7.5	PARTLY CLDY, 90	DENSITY (3)	NONE
		RE-EXPOSE LINER SOUTH SIDE 717B - WORK On DRAINAGE				
52-097	880711	SDW	8.5	CLOUDY, WARM	DENSITY (14)	PERM & ATT
		PLACE FILL ON EXPOSED LINER SOUTH OF 717B				

TABLE 3
EARTHWORK DAILY FIELD REPORT SUMMARY CELL 717
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.
(Continued)

REPORT	DATE	REP	SITE	WEATHER	FIELD TESTING	LAB TESTING
52-098	880712	SDW	4.5	P. CLDY - 95	DENSITY (4)	NONE
		PLACE FILL ON LINER ON SOUTH SIDE 717B				
52-099	880713	SDW	3.0	P. CLDY - 95	DENSITY (4)	ATT
		EXCAVATE BETWEEN 717B & 901				
52-100	880714	KKL	6.0	P. CLDY, 90'S	DENSITY (8)	ATT
		PLACE FILL BETWEEN 717B & 901				
52-101	880715	SDW	4.0	P. CLDY.	95 DENSITY (2)	NONE
		PLACE FILL BETWEEN 901 & 717B				
52-102	880718	TAV	3.5	CLOUDY, WARM	NONE	NONE
		CLEAN OUT SILT FROM AROUND D-3				
52-102A	880817	TAV	1.0	CLOUDY	NONE	NONE
		PLACE FILL ON W & S SLOPES OF 717D				
52-103	880719	TAV	1.0	CLOUDY, RAIN	NONE	NONE
		SEE THAT D-3 IS COVERED				
52-103A	880818	TAV	1.0	CLDY, 90's	DENSITY (3)	NONE
		PLACE FILL ON EAST & SOUTH SLOPE OF 717D				
52-104	880819	TAV	.5	CLDY, 80's	NONE	NONE
		STOCKPILE CLAY CAP MATERIAL ON 717D				
52-105	880830	TAV	5.5	PTLY. CLDY., 80	DENSITY (4)	NONE
		PLACE LIFT ON 717D				
52-106	880831	SDW	1.5	PTLY.CLDY., 80	DENSITY (7)	NONE
		COMPACTING EAST, WEST & SOUTH SLOPE				
52-107	880901	SDW	.5	CLOUDY, 90's	DENSITY (2)	NONE
		TAKE TWO TESTS On WEST SLOPE OF 717D				
52-108	880927	MDC	7.5	WARM	DENSITY (3)	NONE
		PLACE CLAY ON 717D & WEST SLOPE				
52-109	880928	MDC	5.0	WARM	DENSITY (4)	NONE
		WORK ON WEST SLOPE OF 717D				
52-110	880929	TAV	8.0	WARM	DENSITY (10)	NONE
		PLACE LIFT ON 717D				
52-111	880930	TAV	3.0	CLEAR 70'S	DENSITY (3)	NONE
		PLACE LIFT ON WEST SLOPE OF 717D, DENSITY TESTS				
52-112	881003	TAV	1.0	CLEAR 70'S	NONE	NONE
		ATTEMPT TO DRY WEST SLOPE OF 717D & SO. SLOPE 717C				
52-113	881004	TAV	5.5	CLEAR, 70'S	DENSITY (2)	NONE
		PLACE LIFTS ON 717D CAP				
52-114	881005	TAV	7.0	CLEAR,70'S	DENSITY (3)	ATT,PERM
		PLACE LIFTS ON 717D CAP, DENSITY TESTS				
52-115	881006	TAV	8.5	CLEAR, 70'S	DENSITY (11)	NONE
		PLACE FILL ON 717D CAP & SLOPES, DENSITY TESTS				
52-116	881007	TAV	9.0	CLEAR, 70'S	DENSITY (8)	ATT(2), HYDRO
		CONTINUE TO PLACE CAP ON 717D, DENSITY TESTS				
52-117	881008	TAV	7.5	CLEAR, 70'S	NONE	NONE
		PLACE CLAY CAP ON 717D				
52-118	881010	TAV	10.0	CLEAR, 70'S	DENSITY (5)	ATT(2),PERM,HYDRO
		CONTINUE PLACING CAP ON 717D, DENSITY TESTS				
52-119	881011	TAV	9.5	CLEAR, 70'S	DENSITY (9)	ATT, PERM
		CONTINUE PLACING CAP ON 717D, DENSITY TESTS				

TABLE 3
EARTHWORK DAILY FIELD REPORT SUMMARY CELL 717
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ROLLINS ENVIRONMENTAL SERVICES (LA) INC.
(Continued)

REPORT	DATE	REP	SITE	WEATHER	FIELD TESTING	LAB TESTING
52-120	881012	TAV	7.5	CLEAR, 70'S	DENSITY (5)	NONE
		CONTINUE PLACING CLAY CAP ON 717, DENSITY TESTS				
52-121	881013	TAV	7.0	CLEAR, 70'S	DENSITY (4)	NONE
		CONTINUE W/ CLAY CAP, PLACE LIFT ON LINER TIE-IN 717B				
52-122	881014	TAV	7.5	CLEAR, 70'S	DENSITY (8)	ATT, PERM
		CONTINUE W/ CAP ON 717, DENSITY TESTS				
52-123	881015	TAV	2.5	CLEAR, 70'S	DENSITY (2)	NONE
		PLACE CAP ON 717, DENSITY TESTS				
52-124	881017	TAV	6.5	CLEAR, 70'S	DENSITY (9)	ATT (2)
		CONTINUE CLAY CAP ON 717, DENSITY TESTS				
52-125	881018	TAV	1.0	CLEAR, 70'S	NONE	NONE
		PLACE CLAY CAP ON SOUTH SLOPE OF 717B				
52-126	881019	TAV	1.0	CLEAR, 70'S	NONE	NONE
		BEGIN BUILDING NEW ACCESS ROAD				
52-127	881025	TAV	1.0	CLEAR, 70'S	NONE	NONE
		EXPOSE BELOW GRADE LINER				
52-128	881026	TAV	5.0 CLOUDY, 70's		DENSITY(6)	ATT(2), PERM(2)
		CONTINUE TO EXPOSE LINER, X-SECTION, DENSITY TESTS				
52-129	881031	TAV	7.5	CLOUDY, 70's	DENSITY (6)	NONE
		PLACE LIFTS In LINER TIE-IN AREA, DENSITY TESTS				
52-130	881101	TAV	2.5	CLEAR 50-70'S	DENSITY (3)	NONE
		PLACE LIFT IN MAY 8TH LINER TIE-In AREA				
52-131	881108	TAV	6.0	PTLY.CLDY 60-80s	DENSITY(8)	NONE
		PLACE LIFT IN LINER TIE-IN AND STOCKPILE				
52-132	881109	TAV	5.0	PTLY. CLDY 60-80s	DENSITY (7)	ATT
		PLACE LIFT ON ACCESS ROAD AND LINER TIE-In				
52-133	881110	TAV	4.0	PTLY.CLDY 60-80s	DENSITY (4)	NONE
		PLACE LIFT IN TIE-IN, ACCESS RAMP, WEST SLOPE 717D				
52-134	881114	TAV	3.0	CLDY 60-70'S	DENSITY (4)	NONE
		PLACE TOPSOIL ON 717D & PLACE LIFT on Access ROAD				
52-135	881115	TAV	3.0	CLDY 70-80'S	DENSITY (6)	NONE
		PLACE LIFT ON ACCESS ROAD & TOPSOIL ON SLOPE				
52-136	881116	TAV	1.0	CLDY 60-70'S	NONE	NONE
		PLACE TOPSOIL ON 717C				
52-137	881117	TAV	2.0	CLEAR 50-60'S	NONE	NONE
		PLACE TOPSOIL ON 717C & CLAY On WEST SLOPE 717D				
52-138	881118	TAV	1.5	CLEAR 50-60'S	DENSITY (4)	NONE
		PLACE CAP ON 717D				
52-139	881121	TAV	.5	CLEAR 40-70'S	NONE	NONE
		B & B SET GRADES ON 717D				
52-140	881129	TAV	3.5	CLEAR 30-60'S	NONE	NONE
		STRIP LIMESTONE FROM OLD ACCESS ROADS				
52-141	881201	TAV	1.0	CLEAR 30-60'S	NONE	NONE
		PLACE LIFT ON WEST SLOPE OF 717D				
52-142	881205	TAV	1.0	CLEAR 30-60'S	NONE	NONE
		WORK ON WEST SLOPE OF 717D				
52-143	881206	TAV	1.0	CLEAR 30-60'S	NONE	NONE
		BRING WEST SLOPE OF 717D TO GRADE				

TABLE 3
EARTHWORK DAILY FIELD REPORT SUMMARY CELL 717
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.
(Continued)

REPORT	DATE	REP	SITE	WEATHER	FIELD TESTING	LAB TESTING
52-144	890126	MDC	.5	CLEAR 30-60'S	NONE	NONE
		PLACE COVER SOIL ON 717B SLOPE				
52-145	890131	MDC	2.0	CLEAR 30-60'S	NONE	NONE
		PLACE CLAY ON 717D SLOPE IN LOW AREAS				
52-146	890221	TAV	3.5	PTLY.CLDY 50-60S	NONE	NONE
		PLACE LIFT ON 717D				
52-147	890222	TAV	5.0	CLDY 30-40'S	NONE	NONE
		PLACE LIFT ON 717D				
52-148	890223	BGT	4.5	CLEAR 30	DENSITY(5)	ATT
		PLACE LIFT ON 717D				
52-149	899224	BGT	4.5	CLEAR 20-50'S	NONE	NONE
		REMOVE MATERIAL FROM EAST SLOPE				
52-150	899227	BGT	4.5	PTLY.CLDY 60-70S	DENSITY (5)	NONE
		PLACE LIFT ON 717D				
52-151	890301	BGT	6.5	CLDY 50'S	DENSITY(12)	ATT(2),K(2)
		PLACE LIFT In TIE-IN AT EAST SLOPE				
52-152	890308	SDW	5.5	CLEAR 60'S	DENSITY (6)	ATT,K
		PLACE LIFTS AT TIE-IN ON EAST SLOPE				
52-153	890309	TAV	1.5	CLEAR, 60'S	NONE	NONE
		PLACE PIPING FOR LC-23				
52-154	890313	SDW	2.0	PTLY.CLDY 70'S	NONE	NONE
		EXPOSE CLAY LINER ON EAST SLOPE OF 717A FOR TIE-IN				
52-155	890314	SDW	2.0	PTLY.CLDY 70'S	NONE	NONE
		EXPOSE CLAY LINER ON EAST SLOPE OF 717A FOR TIE-IN				
52-156	890315	SDW	2.5	PTLY.CLDY 70'S	DENSITY (4)	ATT,K,HYD
		EXPOSE CLAY LINER ON EAST SLOPE OF 717A FOR TIE-IN				
52-157	890316	SDW	1.5	CLEAR 80'S	NONE	NONE
		CUT PERIMETER DITCH ON TOP OF 717A				
52-158	890317	SDW	2.0	CLEAR 80'S	NONE	NONE
		PLACE LIFT IN EAST DITCH OF 717A				
52-159	890320	SDW	6.0	PTLY.CLDY 70'S	DENSITY (8)	NONE
		PLACE LIFT ON EAST SLOPE OF 717A				
52-160	890321	SDW	5.5	CLDY 70'S	DENSITY (8)	NONE
		PLACE LIFT ON EAST SLOPE OF 717A				
52-161	890327	SDW	6.5	CLDY 80'S	DENSITY (7)	NONE
		PLACE LIFT ON EAST SLOPE OF 717A				
52-162	890328	SDW	7.0	CLDY 80'S	DENSITY (10)	ATT,K,HYD
		PLACE LIFT on EAST SLOPE OF 717A				
52-163	890329	SDW	1.5	RAIN 70'S	NONE	NONE
		NO WORK DUE TO RAIN				
52-164	890331	SDW	8.0	CLEAR 70'S	DENSITY (5)	NONE
		PLACE LIFT ON EAST SLOPE OF 717A				
52-165	890403	TAV	8.0	CLDY 60-80'S	DENSITY (4)	NONE
		PLACE LIFT ON EAST SLOPE OF 717C				
52-166	890404	JCL	8.5	CLEAR 70'S	DENSITY (7)	NONE
		PLACE LIFT ON NORTHEAST CORNER OF 717				
52-167	890405	JCL	1.5	CLEAR 70'S	NONE	NONE
		TOO WET TO WORK DUE TO OVERNIGHT RAIN				

TABLE 3
EARTHWORK DAILY FIELD REPORT SUMMARY CELL 717
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ROLLINS ENVIRONMENTAL SERVICES (LA) INC.
(Continued)

REPORT	DATE	REP	SITE	WEATHER	FIELD TESTING	LAB TESTING
52-168	890406	SDW	4.0	CLEAR 70'S	NONE	NONE
		PLACE LIFT ON 717A				
52-169	890407	SDW	8.0	CLEAR 80'S	DENSITY (7)	ATT,K,HYD
		PLACE LIFT ON 717A				
52-170	890410	SDW	1.5	RAIN, 50'S	NONE	NONE
		PLACE CLAY & TOPSOIL ON 717A				
52-171	890411	SDW	8.5	CLEAR 70'S	DENSITY (4)	NONE
		PLACE LIFT AT SOUTHEAST CORNER OF 717C				
52-172	890412	SDW	5.5	CLDY 70'S	NONE	NONE
		CUT DITCH ON TOP OF 717C & PLACE TOPSOIL				
52-173	890426	TAV	1.0	CLEAR	NONE	NONE
		PLACE TOPSOIL & WORK on DITCHES				
52-174	890427	SDW	9.5	PTLY.CLDY 70'S	DENSITY (3)	NONE
		BRING 717B TO FINAL CLAY GRADE				
52-175	900112	TAV	2.5	CLEAR 40-50'S	NONE	NONE
		PLACE CLAY ON 717D				
52-176	900113	TAV	3.0	CLEAR 40-50'S	DENSITY (4)	NONE
		PLACE CLAY ON 717D				
52-177	900115	TAV	3.5	CLDY 50-70'S	DENSITY (4)	ATT
		PLACE LIFT on 717D				
52-178	900116	TAV	.5	CLDY 50-70'S	DENSITY (4)	ATT
		COMPACT LIFT PLACED ON 1/15/90				
52-179	900403	TAV	3.0	CLEAR 50-60'S	NONE	NONE
		PLACE LIFT ON 717D				
52-180	900404	TAV	2.0	CLEAR 40-70'S	NONE	NONE
		WORK ON DITCH ON 717D & PLACE CLAY CAP				
52-181	900405	TAV	1.5	CLEAR 50-70'S	DENSITY(2)	NONE
		PLACE CLAY CAP ON 717D				
52-182	900406	TAV	1.0	CLDY 50-60'S	NONE	NONE
		PLACE TOPSOIL on 717D				
52-183	900409	TAV	1.0	PTLY.CLDY 60-70S	NONE	NONE
		PLACE TOPSOIL ON 717D				
52-184	900522	TAV	4.0	PTLY.CLDY 70-80S	DENSITY (8)	NONE
		REWORK TOE OF SOUTH SLOPE OF 717B				
52-185	900523	TAV	1.0	CLEAR 60-70'S	DENSITY (3)	NONE
		WORK ON TOE OF SOUTH SLOPE OF 717B				
52-186	900524	TAV	6.5	CLEAR 60-80'S	DENSITY (4)	NONE
		STRIP TOPSOIL FROM 717B & RECOMPACT				
52-187	900525	TAV	1.0	CLEAR 60-80'S	NONE	NONE
		PLACE TOPSOIL ON 717B				
52-188	900531	TAV		PTLY.CLDY 70-90S	NONE	NONE
		PLACE TOPSOIL ON 717B				
52-189	900904	TAV	3.0	PTLY.CLDY 70-90S	NONE	NONE
		PREPARE NORTH SLOPE FOR PLACEMENT OF CLAY				
52-190	900905	TAV	6.5	PTLY.CLDY 70-90S	NONE	NONE
		PREPARE NORTH SLOPE FOR PLACEMENT OF CLAY				
52-191	900906	TAV	6.5	PTLY.CLDY 70-90S	NONE	NONE
		PLACE CLAY CAP ON NORTH SLOPE OF 717				

TABLE 3
EARTHWORK DAILY FIELD REPORT SUMMARY CELL 717
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.
(Continued)

REPORT	DATE	REP	SITE	WEATHER	FIELD TESTING	LAB TESTING
52-192	900907	TAV	9.0	PTLY.CLDY 70-90S	DENSITY(13)	ATT(2).K
		PLACE CLAY CAP ON NORTH SLOPE OF 717				
52-193	900910	TAV	5.0	PTLY.CLDY 70-90S	DENSITY (12)	ATT(2),K
		PLACE CLAY CAP ON NORTH SLOPE OF 717				
52-194	900911	TAV	1.0	PTLY.CLDY 70-90S	NONE	NONE
		PREPARE NEXT SECTION OF NORTH SLOPE FOR CLAY CAP				
52-195	900917	TAV	7.0	PTLY.CLDY 70-90S	NONE	NONE
		PREPARE NEXT SECTION OF NORTH SLOPE FOR CLAY CAP				
52-196	900918	TAV	4.0	PTLY.CLDY 70-90S	NONE	NONE
		PLACE CLAY CAP ON NORTH SLOPE OF 717				
52-197	900919	TAV	8.5	PTLY.CLDY 70-90S	DENSITY (10)	ATT(2)
		PLACE CLAY CAP ON NORTH SLOPE OF 717				
52-198	900924	TAV	9.5	CLEAR 60-80'S	DENSITY(5)	ATT,K
		PLACE CLAY CAP ON NORTH SLOPE OF 717				
52-199	900925	TAV	9.5	CLEAR 60-80'S	DENSITY(5)	NONE
		PLACE CLAY CAP ON NORTH SLOPE OF 717				
52-200	900926	TAV	10.5	CLEAR 60-80'S	DENSITY(7)	NONE
		PLACE CLAY CAP ON NORTH SLOPE OF 717				
52-201	900927	TAV	7.0	CLEAR 60-80'S	DENSITY (7)	ATT,K
		PLACE CLAY CAP ON NORTH SLOPE OF 717				
52-202	900928	TAV	3.0	CLEAR 60-80'S	NONE	NONE
		PLACE TOPSOIL ON NORTH SLOPE OF 717				
52-203	901001	TAV	1.5	CLEAR 60-80'S	NONE	NONE
		PLACE TOPSOIL ON NORTH SLOPE OF 717				
52-204	901002	TAV	1.5	CLEAR 60-80'S	NONE	NONE
		PLACE TOPSOIL ON NORTH SLOPE OF 717				
52-205	901003	TAV	1.0	CLEAR 70-80'S	NONE	NONE
		PLACE TOPSOIL				
52-206	901008	TAV	2.0	CLEAR 70-80'S	NONE	NONE
		PLACE TOPSOIL				
52-207	901009	TAV	NA		NONE	NONE
		B & B CHECK GRADES				
52-208	901017	TAV	3.0	CLDY 60-80'S	DENSITY (4)	NONE
		GRADE NORTHWEST CORNER FOR DROP CHUTE				
52-209	901018	TAV	2.0	CLDY 60-80'S	DENSITY (1)	NONE
		PLACE CLAY IN NORTHEAST CORNER & PLACE PIPE				
52-210	901019	TAV	2.0	CLDY 60-80'S	NONE	NONE
		BACKFILL AROUND PIPE IN NORTHEAST CORNER				
52-211	901023	TAV	1.5	CLDY 60'S	NONE	NONE
		PREPARE WASTE GRADE				
52-212	901024	TAV	1.5	CLEAR 50-70'S	NONE	NONE
		PREPARE WASTE GRADE				
52-213	901025	TAV	7.0	CLEAR 50-70'S	DENSITY (4)	ATT
		PLACE CLAY CAP				
52-214	901026	TAV	6.0	CLEAR 40-60'S	DENSITY (7)	NONE
		PLACE CLAY CAP				
52-215	901029	TAV	8.0	CLEAR 50-70'S	DENSITY (7)	NONE
		PLACE CLAY CAP				

TABLE 3
EARTHWORK DAILY FIELD REPORT SUMMARY CELL 717
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ROLLINS ENVIRONMENTAL SERVICES (LA) INC.
(Continued)

REPORT	DATE	REP	SITE	WEATHER	FIELD TESTING	LAB TESTING
52-216	901030	TAV	8.0	CLEAR 50-70'S	DENSITY (10)	ATT(2),K
		PLACE CLAY CAP				
52-217	901031	TAV	8.0	CLEAR 50-70'S	NONE	NONE
		PLACE CLAY CAP				
52-218	901101	TAV	5.0	CLEAR 50-70'S	DENSITY (8)	ATT(2),K
		PLACE CLAY CAP & TOPSOIL				
52-219	901102	TAV	3.0	CLEAR 50-70'S	NONE	NONE
		PLACE TOPSOIL ON 717				
52-220	901107	TAV	2.0	CLEAR 50-70'S	NONE	NONE
		PLACE TOPSOIL ON 717				
52-221	910520	TAV	4.0	PTLY.CLDY 70-80S	NONE	NONE
		PREPARE FOR PLACEMENT OF CLAY				
52-222	910528	TAV	2.0	PTLY.CLDY 70-80S	NONE	NONE
		PREPARE FOR PLACEMENT OF CLAY				
52-223	910529	TAV	8.0	PTLY.CLDY 70-80S	NONE	NONE
		PLACE CLAY CAP				
52-224	910530	TAV	8.0	PTLY.CLDY 70-80S	DENSITY (3)	NONE
		COMPACT CLAY CAP				
52-225	910531	TAV	1.0	PTLY.CLDY 70-80S	NONE	NONE
		PLACE TOPSOIL				
52-226	910603	TAV	8.0	PTLY.CLDY 70-80S	NONE	NONE
		PLACE TOPSOIL				
52-227	910604	TAV	5.0	PTLY.CLDY 70-80S	NONE	NONE
		PLACE TOPSOIL				
52-228	910605	TAV	1.5	PTLY.CLDY 70-80S	NONE	NONE
		B & B VERIFY TOPSOIL TO GRADE				
52-229	921007	TAV	1.0	NA	NONE	NONE
		MEET W/ T. PHILLIPS ABOUT UPCOMING WORK				
52-230	921008	TAV	1.0	CLDY 60-70'S	NONE	NONE
		PREPARE TO PLACE CLAY				
52-231	921009	TAV	1.5	CLEAR 50-70'S	NONE	NONE
		PREPARE TO PLACE CLAY				
52-232	921012	RCG	8.0	CLEAR 70'S	DENSITY (4)	ATT(2),K(2)
		TEST CLAY LINER TIE-IN & PLACE CLAY ON WEST SLOPE				
52-233	921013	RCG	8.0	CLEAR, 70'S	DENSITY (3)	ATT,K
		PLACE CLAY ON WEST SLOPE				
52-234	921014	RCG	6.5	CLEAR 70'S	DENSITY (5)	ATT, K
		COMPLETE LIFT 2 ON WEST SLOPE & LIFT 1 ON BENCH				
52-235	921020	TAV	1.0	CLEAR 50-80'S	NONE	NONE
		DO GRADING WORK ON WEST SLOPE				
52-236	921021	TAV	1.0	CLEAR 50-80'S	NONE	NONE
		DO GRADING WORK ON WEST SLOPE				
52-237	921022	TAV	1.5	CLEAR 60-80'S	NONE	NONE
		DO GRADING WORK ON WEST SLOPE - B&B CROSS-SECTION				
52-238	921023	TAV	1.0	CLEAR 60-80'S	NONE	NONE
		CONTINUE GRADING ACTIVITIES ON WEST SLOPE				
52-239	921026	TAV	5.0	PTLY.CLDY 60-80S	NONE	NONE
		B&B DOES CROSS-SECTION - PLACE CLAY CAP				

TABLE 3
EARTHWORK DAILY FIELD REPORT SUMMARY CELL 717
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.
(Continued)

REPORT	DATE	REP	SITE	WEATHER	FIELD TESTING	LAB TESTING
52-240	921027	TAV	2.5	CLDY 60-80S	NONE	NONE
		PLACE CLAY CAP - USE OFF-SITE BORROW MATERIAL				
52-241	921028	TAV	5.0	PTLY.CLDY 60-80S	NONE	NONE
		PLACE & COMPACT CLAY ON WEST SLOPE				
52-242	921029	TAV	4.0	PTLY.CLDY 60-80S	NONE	NONE
		PLACE & COMPACT CLAY ON WEST SLOPE				
52-243	921117	RCG	4.5	PTLY.CLDY 60-70	NONE	NONE
		PLACE CLAY ON TOP OF 717D IN NORTHWEST CORNER				
52-244	921118	TAV	7.5	PTLY.CLDY 50-70s	NONE	NONE
		PLACE & COMPACT CLAY ON TOP OF 717				
52-245	921119	RCG	9.5	PTLY.CLDY 50-70s	NONE	NONE
		PLACE & COMPACT CLAY ON TOP OF 717 AT N.W. CORNER				
52-246	921130	RCG	6.5	PTLY.CLDY,40-50	NONE	NONE
		COMPLETE LIFT 1 ON TOP OF 717 @ N.E. CORNER				
52-247	921201	RCG	8.5	PTLY.CLDY.40-60	NONE	NONE
		PLACE LIFT ON NORTH SLOPE				
52-248	921202	TAV	8.0	CLEAR,40-60'S	DENSITY (4)	NONE
		WORK ON WEST SLOPE & BENCH				
52-249	921203	TAV	9.0	CLEAR,40-60'S	DENSITY (5)	ATT(2)
		CONTINUE WORKING ON WEST SLOPE				
52-250	921204	TAV	8.0	CLDY.,50-60'S	DENSITY (7)	ATT(3),K(2)
		WORK ON NORTHWEST CORNER & ON WEST SLOPE				
52-251	921214	TAV	8.5	PTLY.CLDY.50-70	DENSITY (2)	ATT
		WORK ON NORTHWEST CORNER				
52-252	921215	TAV	4.0	CLDY., 60'S	NONE	NONE
		PLACE LIFT IN NORTHWEST CORNER				
52-253	930105	TAV	1.0	PTLY.CLDY. 5O-60	NONE	NONE
		REWORK NORTHWEST CORNER				
52-254	930106	TAV	8.0	PTLY.CLDY. 5O-70	NONE	NONE
		PLACE LIFT IN NORTHWEST CORNER				
52-255	930126	TAV	7.0	CLEAR, 30-50'S	NONE	NONE
		WORK ON NORTHWEST CORNER & NORTH SLOPE				
52-256	930127	TAV	8.0	CLEAR, 30-50'S	NONE	NONE
		WORK ON NORTHWEST CORNER & NORTH SLOPE				
52-257	930128	TAV	7.0	PTLY.CLDY.40-60	NONE	NONE
		WORK ON WEST & NORTH SLOPES				
52-258	930129	TAV	5.0	CLDY,RAIN,5O'S	NONE	NONE
		WORK ON WEST SLOPE, RAINED OUT				
52-259	930201	TAV	5.5	CLEAR,40-60'S	DENSITY (5)	ATT, K
		PLACE CLAY CAP ON WEST SLOPE				
52-260	930202	RCG	8.0	CLEAR,40-60'S	DENSITY (1)	ATT
		PLACE CLAY CAP ON WEST SLOPE				
52-261	930203	RCG	8.5	CLEAR,40-60'S	DENSITY (5)	ATT(2), K(2)
		PLACE CLAY CAP ON WEST SLOPE				
52-262	930204	RCG	8.0	CLEAR,40-60'S	DENSITY (3)	NONE
		PLACE CLAY CAP ON WEST AND NORTH SLOPE				
52-263	930205	RCG	5.0	CLEAR,40-60'S	DENSITY (3)	NONE
		PLACE CLAY CAP ON NORTH SLOPE AND ON TOP OF CELL				

TABLE 3
EARTHWORK DAILY FIELD REPORT SUMMARY CELL 717
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.
(Continued)

REPORT	DATE	REP	SITE	WEATHER	FIELD TESTING	LAB TESTING
52-264	930208	TAV	8.0	CLEAR,40-60'S	NONE	NONE
		PLACE CLAY CAP ON TOP OF NORTHWEST CORNER				
52-265	930209	TAV	8.0	CLEAR,40-60'S	DENSITY (5)	ATT(2), K
		WORK ON NORTHWEST CORNER AND WEST & NORTH SLOPES				
52-266	930210	TAV	4.0	CLDY,RAIN,50-60	NONE	NONE
		WORK ON WEST SLOPE, RAIN				
52-267	930215	TAV		CLOUDY	NONE	NONE
		PLACE FILL ON NORTH END OF WEST SLOPE				
52-268	930218	TAV	2.0	PTLY.CLDY.30-50	NONE	NONE
		DISC LIFT ON WEST SLOPE TO DRY				
52-269	930219	TAV	7.0	PTLY.CLDY.40-60	NONE	NONE
		PLACE LIFT ON N.SLOPE & PROCESS LIFT ON W.SLOPE				
52-270	930222	TAV	2.0	PTLY.CLDY.40-60	NONE	NONE
		PROCESS LIFT ON NORTH SLOPE & PLACE LIFT ON BENCH				
52-271	930223	TAV	8.0	CLEAR, 40-60'S	DENSITY (3)	ATT,HYD
		PLACE LIFT ON SLURRY WALL BENCH				
52-272	930224	TAV	8.0	CLDY,40-60'S	DENSITY (2)	NONE
		PLACE LIFT ON SLURRY WALL BENCH				
52-273	930225	TAV	7.0	CLDY,50-60,RAIN	DENSITY (5)	ATT(2),K
		PLACE LIFT ON SLURRY WALL BENCH				
52-274	930301	TAV	5.0	CLDY,50-60,RAIN	NONE	NONE
		PLACE LIFT ON SLURRY WALL BENCH				
52-275	930305	TAV	5.0	CLEAR,40-60'S	NONE	NONE
		DO GRADING IN NORTHWEST CORNER				
52-276	930308	TAV	5.0	CLEAR,40-70'S	NONE	NONE
		CONTINUE GRADING ACTIVITIES				
52-277	930309	TAV	6.0	CLEAR,50-70'S	NONE	NONE
		CONTINUE GRADING ACTIVITIES				
52-278	930310	TAV	9.0	PTLY.CLDY.50-70	DENSITY (9)	ATT(5),K(2),HYD(2)
		GRADE NORTHWEST CORNER - PLACE CLAY ON BENCH				
52-279	930311	TAV	8.0	CLDY, 55-75	NONE	NONE
		WORK ON SLURRY WALL BENCH				
52-280	930312	TAV	5.0	CLDY,RAIN,40'S	NONE	NONE
		WORK ON SLURRY WALL BENCH				
52-281	930315	TAV	8.0	CLDY, 40-60'S	NONE	NONE
		WORK ON SLURRY WALL BENCH - PLACE TOPSOIL				
52-282	930318	TAV	8.0	PTLY.CLDY,50-60	NONE	NONE
		PLACE TOPSOIL				
52-283	930323	TAV	5.5	PTLY.CLDY,50-70	DENSITY (3)	ATT(3),K,HYD
		FINALIZE CAP ON NORTH SLOPE				
52-284	930324	TAV	7.0	PTLY.CLDY,50-70	DENSITY (4)	ATT(2),K,HYD
		PLACE TOPSOIL ON NORTH SLOPE & WORK ON WEST SLOPE				
52-285	930325	TAV	1.0	PTLY.CLDY,50-70	NONE	NONE
		CONDUCT GRADING ACTIVITIES ON WEST SLOPE				
52-286	930329	TAV	4.0	PTLY.CLDY,50-70	DENSITY (6)	ATT(3),K(2),HYD
		COMPLETE PLACEMENT OF CAP ON WEST SLOPE				
52-287	930330	TAV	4.0	PTLY.CLDY,50-70	NONE	NONE
		PLACE TOPSOIL ON WEST SLOPE				

TABLE 3
EARTHWORK DAILY FIELD REPORT SUMMARY CELL 717
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.
(Continued)

REPORT	DATE	REP	SITE	WEATHER	FIELD TESTING	LAB TESTING
52-288	930331	TAV	3.0	PTLY.CLDY,5O-80	NONE	NONE
		PLACE TOPSOIL ON WEST SLOPE				
52-289	930401	TAV	3.0	PTLY.CLDY,50-80	NONE	NONE
		PLACE TOPSOIL ON WEST SLOPE				
52-290	930402	TAV	3.0	CLEAR,40-60'S	NONE	NONE
		PLACE TOPSOIL ON WEST SLOPE				
52-291	930412	TAV	4.0	CLEAR,5O-70'S	NONE	NONE
		PLACE TOPSOIL ON WEST SLOPE				
52-292	930413	TAV	4.0	CLEAR,60-80'S	NONE	NONE
		PLACE TOPSOIL ON WEST SLOPE				
52-293	930414	TAV	2.0	PTLY.CLDY,60'S	NONE	NONE
		PLACE TOPSOIL ON WEST SLOPE				
52-294	930415	TAV	3.0	PTLY.CLDY,50-60	NONE	NONE
		PLACE TOPSOIL ON WEST SLOPE				
52-295	930419	TAV	2.0	PTLY.CLDY, 70s	NONE	NONE
		GRADE TOPSOIL ON NORTH SLOPE				
52-296	930420	TAV	2.0	PTLY. CLDY, 70s	NONE	NONE
		GRADE TOPSOIL ON WEST SLOPE				
52-297	930421	TAV	2.0	CLEAR, 40-60'S	NONE	NONE
		GRADE TOPSOIL ON WEST SLOPE				
52-298	930422	TAV		CLEAR, 40-60'S	NONE	NONE
		GRADE TOPSOIL & SEED				
52-299	930423	TAV		CLEAR, 50-70'S	NONE	NONE
		B & B X-SECTIONS WEST SLOPE				
52-300	930519	TAV		PTLY. CLDY,70'S	NONE	NONE
		GRADE TOPSOIL				
52-301	930520	RCG		CLEAR, 50-80'S	NONE	NONE
		GRADE TOPSOIL				
52-302	930521	RCG		CLEAR, 60-80'S	NONE	NONE
		STOCKPILE TOPSOIL				
52-303	930617	TAV		PTLY. CLDY,90'S	NONE	NONE
		GRADE TOPSOIL				
52-304	930701	RCG		PTLY. CLDY	NONE	NONE
		GRADE TOPSOIL				
52-305	930707	RCG		PTLY. CLDY, 90'S	NONE	NONE
		ECONOMY GRASS SEEDS & MATS DITCH				
52-306	930708	RCG		PTLY. CLDY, 90'S	NONE	NONE
		ECONOMY GRASS HYDROMULCHES TOP OF CELL				
52-307	940414	TAV	7.5	PTLY. CLDY, 80'S	DENSITY (4)	NONE
		PLACE HDPE PRO. CASINGS @ LC-17A, LC-16A & LC-25				
52-308	940415	TAV	3.5	PTLY. CLDY, 80'S	DENSITY (1)	NONE
		PLACE HDPE PRO. CASING @ LC-26				
52-309	940418	TAV	9.0	PTLY. CLDY, 80'S	DENSITY (2)	NONE
		PLACE HDPE PRO. CASING @ LC-7				
52-310	940419	TAV	9.0	PTLY. CLDY, 80'S	DENSITY (4)	NONE
		PLACE HDPE PRO. CASING @ LC-6				
52-311	940420	TAV	9.0	PTLY. CLDY, 80'S	DENSITY (3)	NONE
		PLACE HDPE PRO. CASINGS @ LC-12 & LC-13				

TABLE 3
EARTHWORK DAILY FIELD REPORT SUMMARY CELL 717
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.
(Continued)

REPORT	DATE	REP	SITE	WEATHER	FIELD TESTING	LAB TESTING
52-312	940425	TAV	9.0	PTLY. CLDY, 80'S	DENSITY (3)	NONE
		ABANDON LC-3				
52-313	940426	TAV	8.0	PTLY. CLDY, 80'S	DENSITY (4)	NONE
		PLACE HDPE PRO. CASING @ LC-3A				
52-314	940427	TAV	9.0	PTLY. CLDY, 80'S	DENSITY (2)	NONE
		PLACE HDPE PRO. CASING @ LC-5				
52-315	940428	TAV	9.0	PTLY. CLDY, 80'S	DENSITY (2)	NONE
		PLACE HDPE PRO. CASING @ LC-19				
52-316	940429	TAV	4.0	PTLY. CLDY, 80'S	DENSITY (1)	NONE
		FINISH BACKFILLING @ LC-19				
52-317	940505	TAV	9.0	CLEAR 60-80'S	DENSITY (5)	NONE
		PLACE HDPE PRO. CASINGS @ LC-15 & LC-9				
52-318	940506	TAV	3.0		NONE	NONE
		FINISH BACKFILLING @ LC-9				
52-319	940509	TAV	8.0	PTLY. CLDY, 80'S	NONE	NONE
		GROUT ANNULUS @ LC-7,LC-5,LC-12,LC-13,LC-3A,LC-19,LC-6&LC-9				
52-320	940510	TAV	8.0	PTLY. CLDY, 80'S	NONE	NONE
		GROUT ANNULUS @ LC-15,LC-16,LC-17,LC-25&LC-26				
52-321	940525	TAV	9.0	CLEAR 60-80'S	DENSITY (3)	NONE
		PLACE HDPE PRO. CASING @ LC-10				
52-322	940526	TAV	9.0	PTLY. CLDY, 80'S	DENSITY (3)	NONE
		PLACE HDPE PRO. CASING @ LC-11				
52-323	940614	TAV	9.0	PTLY. CLDY, 90'S	DENSITY (3)	NONE
		PLACE HDPE PRO. CASING @ LC-14				
52-324	940615	TAV	9.0	PTLY. CLDY, 90'S	DENSITY (3)	NONE
		PLACE HDPE PRO. CASING @ LC-2				
52-325	940620	TAV	4.0	PTLY. CLDY, 90'S	NONE	NONE
		EXCAVATE @ LC-8				
52-326	940623	TAV	5.0	CLDY. 80'S, RAIN	DENSITY (1)	NONE
		PLACE HDPE PRO. CASING @ LC-8				
52-327	940627	EM	6.0	CLEAR, 90'S	DENSITY (1)	NONE
		EXCAVATE @ LC-20				
52-328	940628	EM	8.0	CLEAR, 90'S	DENSITY (3)	NONE
		PLACE HDPE PRO. CASING @ LC-20				
52-329	940629	EM	8.0	PTLY. CLDY, 90'S	DENSITY (2)	NONE
		PLACE HDPE PRO. CASING @ LC-21				
52-330	940630	EM	7.5	PTLY. CLDY, 90'S	DENSITY (3)	NONE
		PLACE HDPE PRO. CASING @ LC-22				
52-331	940705	EM	8.5	PTLY. CLDY, 90'S	DENSITY (2)	NONE
		PLACE HDPE PRO. CASING @ LC-23				
52-332	940706	EM	9.0	PTLY. CLDY, 90'S	DENSITY (4)	NONE
		PLACE HDPE PRO. CASING @ LC-18				
52-333	940707	EM	7.0	PTLY. CLDY, 90'S	DENSITY (1)	NONE
		PLACE HDPE PRO. CASING @ LC-1				
52-334	940708	EM	7.5	CLDY, RAIN, 90'S	DENSITY (2)	NONE
		BACKFILL @ LC-1				
52-335	940722	TAV	3.0	CLEAR, 90'S	NONE	NONE
		GROUT ANNULUS @ LC-8,LC-20,LC-10,LC-11,LC-21,LC-22,LC-23&LC-18				

TABLE 3
EARTHWORK DAILY FIELD REPORT SUMMARY CELL 717
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.
(Continued)

REPORT	DATE	REP	SITE	WEATHER	FIELD TESTING	LAB TESTING
52-336	940808	TAV	4.0	PTLY. CLDY, 90'S	NONE	NONE
		PLACE TOPSOIL IN AREA OF LC-5				
52-337	940914	TAV	6.5	CLEAR, 70-90'S	NONE	NONE
		EXTEND 20" HDPE PIPE @ LC-24				
52-338	940930	TAV	8.0	PTLY. CLDY, 80'S	DENSITY (1)	NONE
		REMOVE WIRE & PIPE BY LC-5 & LC-15				
52-339	941006	TAV	3.0	CLEAR, 60-70'S	NONE	NONE
		REMOVE PIPE BY LC-14 & LC-15				
52-340	941014	TAV	6.0	CLEAR, 60'S	DENSITY (2)	NONE
		BACKFILL @ LC-14 & LC-15				
52-341	941107	EM	9.0	CLEAR, 60'S	NONE	NONE
		PLACE HDPE PRO. CASING @ LD-4				
52-342	941108	EM	8.5	CLEAR, 70-80'S	DENSITY (2)	NONE
		PLACE HDPE PRO. CASING @ LD-6				
52-343	941110	EM	9.0	PTLY. CLDY, 80'S	DENSITY (1)	NONE
		PLACE HDPE PRO. CASING @ LD-5				
52-344	941111	EM	9.5	CLDY, 50-60'S	DENSITY (2)	NONE
		REMOVE WIRE IN AREA OF LC-5 & LC-6				
52-345	941111	TAV	5.0	CLDY, 50-60'S	NONE	NONE
		GROUT LC-16 & LC-17				
52-346	941114	EM	9.0	PTLY. CLDY, 80'S	NONE	NONE
		REMOVE WIRES FROM LC-8 TO SHACK				
52-347	941115	EM	9.0	CLEAR, 70-80'S	NONE	NONE
		ABANDON LC-16 & LC-17				
52-348	941116	TAV	3.0	CLDY, 60-70'S	NONE	NONE
		GROUT LC-16 & LC-17				
52-349	941116	EM	9.0	CLDY, 60'S	DENSITY (2)	NONE
		BACKFILL @ LC-16 & LC-17				
52-350	941117	EM	8.0	CLDY, 60'S	DENSITY (2)	NONE
		BACKFILL @ LC-16 & REMOVE WIRES LC-20 TO LC-8				
52-351	941118	EM	8.5	PTLY. CLDY, 70'S	NONE	NONE
		REMOVE WIRE LC-6 TO LC-1				
52-352	941122	TAV	9.0	CLEAR, 50-60'S	NONE	NONE
		REMOVE WIRES LC-5 TO LC-3				
52-353	941123	TAV	6.0	CLEAR, 40-50'S	NONE	NONE
		REMOVE WIRE LC-5 TO SHACK				
52-354	941128	EM	9.0	PTLY. CLDY, 60'S	NONE	NONE
		REMOVE WIRES LC-3 TO LC-19 & LC-11				
52-355	941129	EM	8.0	PTLY. CLDY, 60'S	DENSITY (3)	NONE
		REMOVE WIRE EAST OF SHACK				
52-356	941201	EM	9.0	CLEAR, 60'S	DENSITY (1)	NONE
		REMOVE WIRE @ LC-19				
52-357	941205	EM	3.0	CLDY, 70'S	NONE	NONE
		TOO WET TO WORK				
52-358	941208	EM	8.5	PTLY. CLDY, 80'S	NONE	NONE
		REMOVE WIRES LC-19 TO SHACK				
52-359	941209	EM	8.5	PTLY. CLDY, 80'S	NONE	NONE
		REMOVE WIRES LC-19 TO SHACK				

TABLE 3
EARTHWORK DAILY FIELD REPORT SUMMARY CELL 717
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.
(Continued)

REPORT	DATE	REP	SITE	WEATHER	FIELD TESTING	LAB TESTING
52-360	941212	WPP	4.0	CLEAR, 50'S	DENSITY (2)	NONE
		REMOVE WIRES NEAR CONTROL SHACK				
52-361	941214	EM	9.5	PTLY. CLDY, 60'S	DENSITY (2)	NONE
		REMOVE WIRES NEAR CONTROL SHACK				
52-362	941215	EM	8.0	PTLY. CLDY,70'S	DENSITY (1)	NONE
		REMOVE WIRES LC-15 TO SHACK				
52-363	941221	TAV	3.0	PTLY. CLDY, 70'S	NONE	NONE
		REMOVE WIRE LC-21 TO LC-13				
52-364	941222	TAV	6.0	PTLY. CLDY, 50'S	DENSITY (2)	NONE
		REMOVE WIRES LC-12 TO SHACK				
52-365	950103	EM	2.0	RAIN, 40'S	NONE	NONE
		TOO WET TO WORK				
52-366	950105	EM	1.5	CLDY, 30'S	NONE	NONE
		TOO WET TO WORK				
52-367	950109	EM	9.0	CLDY, 60'S	NONE	NONE
		REMOVE WIRE LC-14 TO SHACK				
52-368	950110	EM	9.0	CLDY, 60-70'S	DENSITY (1)	NONE
		REMOVE WIRE NEAR LC-8				
52-369	950111	EM	8.0	CLDY, 60-70'S	DENSITY (1)	NONE
		REMOVE PIPE NEAR LC-19				
52-370	950911	TAV	7.0	CLEAR, 70-90'S	NONE	NONE
		REMOVE ELEC DUCT BANK NEAR SHACK				
52-371	950912	TAV	8.0	CLEAR, 70-90'S	NONE	NONE
		REMOVE HEADER ON EAST SLOPE CELL 717C				
52-372	950913	TAV	8.0	CLEAR, 70-90'S	NONE	NONE
		REMOVE HEADER ON EAST SLOPE CELL 717C				
52-373	950914	TAV	8.0	CLEAR, 70-90'S	NONE	NONE
		REMOVE CONDUIT NEAR CONTROL SHACK				
52-374	950915	TAV	8.0	CLEAR, 70-90'S	DENSITY (3)	NONE
		REMOVE CONDUIT NEAR CONTROL SHACK				
52-375	950918	TAV	8.0	CLEAR, 70-90'S	NONE	NONE
		REMOVE CONDUIT AT TOE OF EAST SLOPE CELL 717A				
		COMPLETES WORK REQUIRING QA/QC SERVICES				

ROLLINS ENVIRONMENTAL SERVICES

CELL 717 CLAY CAP

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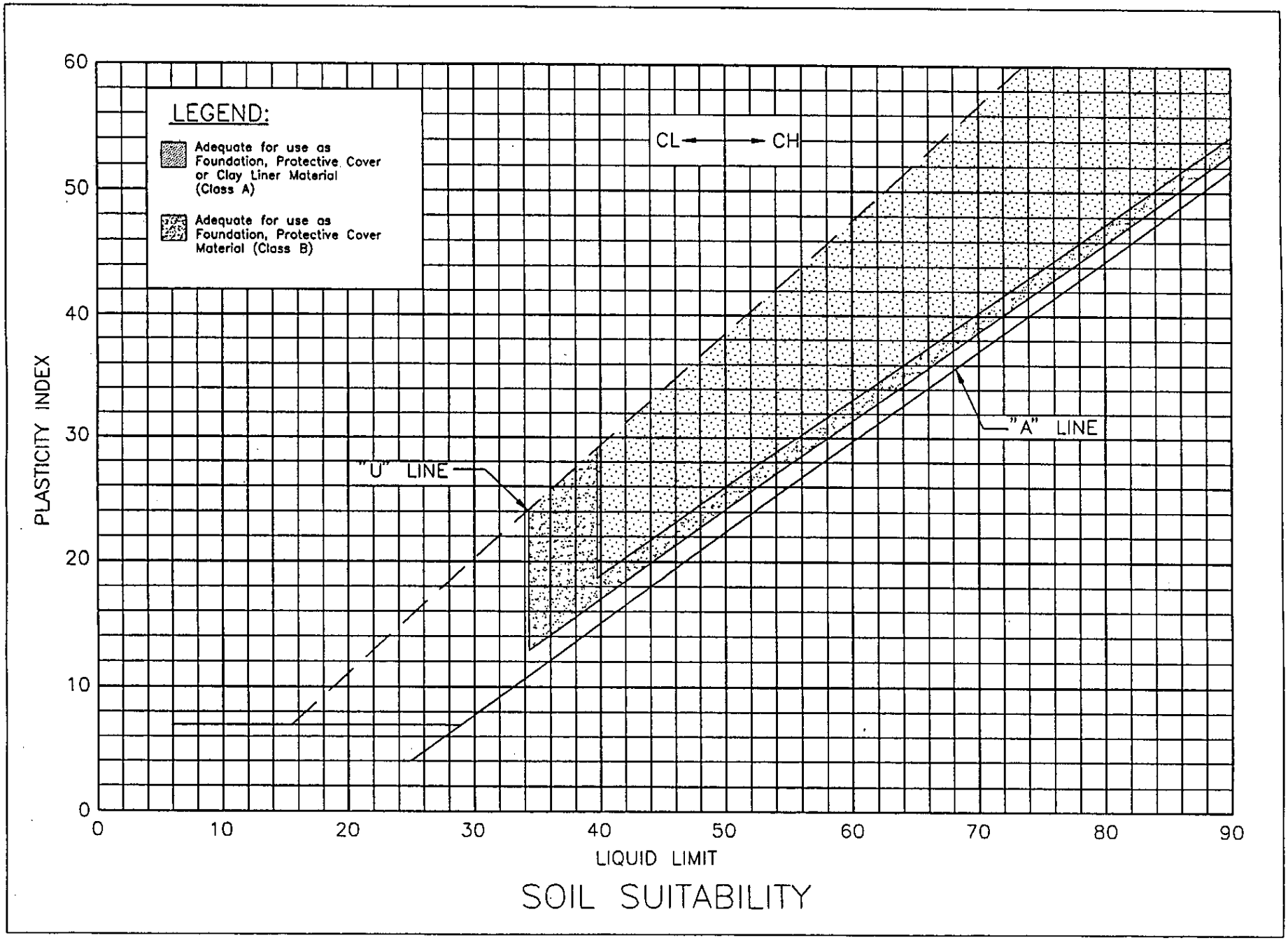

SOIL SUITABILITY

TABLE 4

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1987								
10/1/1	2319	620	107.8	20.7	109.0	100.0	P	K, Att
10/1/2	2320	520	109.3	22.5	106.0	97.3	P	K, Att
10/1/3	2339	296	103.2	19.8	107.2	98.4	P	K, Att
10/1/4	2223	234	106.1	20.4	104.4	95.8	P	K, Att
10/1/5	2100	259	106.6	23.3	101.1	92.8	P	K, Att
10/3/2	2184	286	106.5	19.6	100.5	92.2	P	
10/3/3	2109	283	107.1	17.9	104.6	96.0	P	K, Att
10/3/4	2322	492	109.9	20.3	103.7	95.1	P	
10/3/5	2227	296	106.3	22.5	100.2	91.9	P	
10/3/6	2315	456	110.7	18.5	103.3	94.8	P	
10/3/7	2105	301	107.6	20.1	104.1	95.5	P	
10/3/8	2314	632	110.4	20.8	102.8	94.3	P	
10/3/9	2103	255	110.2	20.7	101.3	93.0	P	
10/5/1	2314	629	111.6	20.7	98.8	90.7	P	
10/5/2	2136	300	110.2	21.3	104.2	95.6	P	
10/5/3	2308	488	113.7	21.5	98.8	90.7	P	
10/5/4	2031	230	113.9	22.3	101.0	92.6	P	
10/5/5	1850	473	113.3	20.5	99.2	91.0	P	
10/6/1	1939	235	110.2	23.3	101.1	92.7	P	
10/6/2	1803	615	112.9	22.4	101.3	93.0	P	K, Att
10/6/3	2321	506	113.4	22.6	101.3	93.0	P	
10/7/1	1944	290	116.6	18.6	104.1	95.5	P	
10/7/2	2053	307	117.4	17.6	109.4	100.3	P	
10/7/3	1850	508	116.9	19.6	104.6	95.9	P	Att
10/7/4	1896	621	118.3	18.2	104.1	95.5	P	
10/8/1	1978	615	120.5	17.7	106.2	97.5	P	

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1987								
10/8/2	2291	406	116.3	18.7	104.8	96.2	P	
10/8/3	2292	526	116.4	18.9	104.8	96.2	P	Att, Hyd.
10/8/4	2273	634	116.9	18.7	104.6	95.9	P	
10/9/1	2169	603	118.8	21.2	103.7	95.2	P	
10/9/2	2118	569	119.3	20.1	104.6	96.0	P	
10/9/3	2147	379	119.0	20.8	103.4	94.9	P	
10/9/4	2063	557	122.1	20.1	101.7	93.3	P	K, Att
10/9/5	2092	486	120.5	16.7[1]	104.6	96.0	P	
10/9/6	2026	290	117.7	20.9	101.9	93.5	P	
10/10/1	1790	501	110.4	21.5	101.9	93.5	P	
10/10/2	2001	590	121.8	21.6	103.4	94.9	P	
10/10/3	1994	478	120.3	22.4	101.4	93.0	P	
10/10/4	1962	390	118.9	20.7	103.4	94.8	P	
10/10/5	1788	519	110.7	20.7	104.0	95.4	P	Att
10/10/6	1936	282	117.1	22.1	101.3	92.9	P	
10/10/7	1972	586	120.9	21.5	103.2	94.7	P	
10/12/1	1834	662	118.0	20.1	106.4	97.6	P	
10/12/2	1886	579	118.2	18.7	104.9	96.2	P	
10/13/1	2264	616	117.9	20.3	104.1	95.5	P	
10/13/2	2270	513	117.8	21.8	101.9	93.5	P	
10/13/3	2272	415	117.5	20.0	105.1	96.4	P	
10/13/4	2260	404	119.6	20.5	103.6	95.1	P	
10/13/5	2196	559	119.7	20.7	103.5	94.9	P	
10/13/6	2104	589	121.8	22.1	102.1	93.7	P	K, Att, Hyd.
10/13/7	2078	490	121.8	20.3	103.7	95.1	P	

[1]: Optimum moisture content was 16.2%.

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1987								
10/13/8	2100	407	120.8	21.0	103.5	94.9	P	
10/13/9	2182	374	119.1	20.7	104.5	95.9	P	
10/14/1	2318	604	113.8	21.4	99.5	91.3	P	
10/14/2	2324	408	113.3	19.9	102.2	93.7	P	
10/14/3	2114	290	111.3	20.1	104.5	95.8	P	
10/15/1	1792	604	110.7	18.9	106.6	97.8	P	
10/15/2	1798	588	112.4	21.0	100.8	92.5	P	
10/15/3	1916	405	114.9	19.5	103.3	94.8	P	
10/15/4	1991	230	113.7	21.4	100.2	91.9	P	
10/15/5	2313	516	115.3	20.7	100.8	92.4	P	Att
10/16/1	1870	611	118.8	19.9	102.9	94.4	P	
10/16/2	1968	650	122.0	18.6	106.0	97.3	P	
10/16/3	2007	565	122.4	19.7	103.8	95.2	P	
10/16/4	1928	532	119.8	21.8	100.1	91.8	P	
10/16/5	1870	451	117.5	22.0	98.6	90.5	P	
10/16/6	1879	458	117.7	21.1	102.6	94.1	P	
10/16/7	1969	365	120.0	23.2	100.7	92.4	P	Att
10/16/8	1945	294	118.3	19.4	103.8	95.2	P	
10/16/9	2045	276	118.5	21.4	101.4	93.0	P	
10/19/1	2303	650	116.6	22.8	98.2	90.1	P	Att, Hyd.
10/19/2	2192	658	120.4	21.0	101.2	92.9	P	K, Att
10/19/3	2102	658	122.7	19.7	103.3	94.5	P	
10/20/1	2259	631	118.9	19.6	103.2	94.7	P	
10/20/2	2247	551	119.0	19.5	101.9	93.5	P	
10/20/3	2170	559	121.0	19.6	105.3	96.6	P	
10/20/4	2112	549	122.3	20.7	102.1	93.6	P	

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1987								
10/20/5	2137	468	121.4	20.9	98.8	90.7	P	
10/20/6	2086	354	120.7	20.8	101.9	93.5	P	
10/20/7	2184	370	119.9	21.3	101.8	93.4	P	
10/20/8	2250	422	119.0	20.3	105.5	96.8	P	
10/22/1	2016	482	122.1	18.7	106.5	97.7	P	K, Att, Hyd.
10/22/2	2005	566	123.0	20.7	101.1	92.7	P	
10/22/3	1943	650	122.2	19.2	104.9	96.2	P	
10/22/4	1885	590	119.6	20.4	104.5	95.8	P	
10/22/5	1893	505	119.0	20.3	101.5	93.1	P	Att
10/22/6	2061	421	122.1	21.7	100.0	91.7	P	
10/22/7	1974	414	120.8	21.4	101.8	93.4	P	
10/22/8	1940	347	119.5	22.6	100.1	91.8	P	
10/22/9	1943	233	115.0	20.6	101.9	93.5	P	Att
10/22/10	2062	238	116.1	20.7	101.3	93.0	P	Att
10/23/1	1895	376	116.8	19.8	103.6	95.0	P	
10/23/2	1806	590	113.1	20.1	101.1	92.8	P	
10/23/3	2110	292	114.8	19.1	104.2	95.5	P	Att
10/23/4	2324	423	115.6	20.5	101.6	93.2	P	
10/23/5	2321	569	115.3	20.9	101.2	92.8	P	
11/2/1	2322	615	115.5	16.8	109.7	100.7	P	
11/2/2	2350	454	115.1	20.0	104.5	95.9	P	
11/2/3	2178	439	121.5	17.2	103.1	94.6	P	K, Att, Hyd.
11/2/4	2161	536	122.0	18.5	102.0	93.6	P	Att
11/2/5	2091	572	124.2	19.0	102.4	94.0	P	
11/3/1	2052	651	124.9	15.5[1]	105.8	97.1	P	

[1]: Test conducted on original vertical liner tie-in.

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1987								
11/3/2	2021	575	123.8	17.4	99.9	91.6	P	
11/3/3	1976	602	123.1	18.3	102.9	94.4	P	
11/5/1	2326	647	116.2	20.2	103.1	94.6	P	
11/5/2	2333	411	115.9	20.1	103.4	94.9	P	
11/5/3	2170	313	115.7	20.1	108.1	99.2	P	
11/5/4	1784	621	113.0	20.7	102.9	94.4	P	
11/5/5	1948	214	115.2	19.9	103.0	94.5	P	
11/5/6	1992	421	121.8	18.3	106.2	97.5	P	K, Att, Hyd.
11/5/7	1984	492	122.4	16.7	102.4	93.9	P	
11/5/8	1857	432	115.7	20.1	104.2	95.4	P	
12/4/1	2327	800	106.5	16.6	111.5	102.3	P	K, Att
12/4/2	2328	900	105.1	21.5	104.0	95.4	P	K, Att
12/4/3	2332	1105	102.0	13.2[1]	119.1	109.3	P	K, Att
12/5/1	2330	812	107.2	24.1	101.3	92.9	P	
12/5/2	2337	920	105.9	20.6	104.8	96.1	P	
12/5/3	2330	1060	104.2	19.4	105.5	96.8	P	
12/5/4	2325	844	107.9	20.8	105.0	96.3	P	
12/5/5	2335	1010	106.4	20.5	105.6	96.8	P	
12/11/1	2326	810	109.1	21.4	105.5	96.8	P	
12/11/2	2327	941	107.7	21.6	105.2	96.5	P	
12/11/3	2322	753	111.2	21.0	104.0	95.4	P	
12/11/4	2335	1034	107.9	21.5	102.6	94.1	P	
12/11/5	2318	763	111.8	20.6	105.5	96.8	P	K, Att, Hyd.
12/11/6	2332	937	109.5	20.2	104.9	96.2	P	Att
12/14/1	2332	1059	108.4	18.3	107.0	98.2	P	
12/14/2	2331	820	111.6	19.2	107.6	98.7	P	
12/17/1	1375	925	78.6	16.3	112.2	103.0	P	
12/17/2	1450	1125	79.4	20.0	104.2	95.6	P	
12/17/3	2335	1045	109.6	20.0	100.4	92.1	P	

[1]: Test conducted on original vertical liner tie-in. Hydraulic Conductivity 2 x 10^{-8} cm/sec

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1987								
12/17/4	2330	869	112.1	20.0	105.6	96.9	P	
12/17/5	1960	849	119.3	19.4	101.7	93.3	P	
12/17/6	1972	966	118.0	20.1	106.8	98.0	P	
12/17/7	2004	1091	117.4	19.7	103.6	95.1	P	K, Att, Hyd.
12/17/8	2057	1019	119.6	19.7	104.0	95.4	P	
12/17/9	2044	905	120.3	20.6	102.6	94.1	P	
12/17/10	2008	774	121.2	19.1	104.2	95.6	P	
12/17/11	1450	1110	80.0	19.5	106.0	97.2	P	K, Att, Hyd.
12/17/12	1375	915	79.2	19.1	106.5	97.7	P	
12/18/1	1450	1100	80.6	19.6	99.0	90.8	P	
12/18/2	1370	910	79.8	17.8	98.5	90.4	P	
12/18/3	1440	1105	81.2	18.3	106.5	97.7	P	
12/18/4	1368	905	80.4	19.0	108.3	99.4	P	
12/18/5	2262	741	116.3	20.6	102.9	94.4	P	
12/18/7	2223	973	117.0	21.5	101.6	93.2	P	
12/18/8	2167	1056	117.9	19.4	105.3	96.6	P	
12/18/9	2168	918	119.2	20.4	101.6	93.2	P	
12/18/10	2185	829	118.5	19.9	104.4	95.8	P	Att
12/18/11	2253	839	116.0	19.7	102.1	93.7	P	
1988								
4/13/1	2098	764	121.4	19.8	101.7	93.3	P	
4/13/2	2123	851	120.8	19.6	102.8	94.3	P	
4/14/3	2223	880	117.3	20.5	101.2	94.2	P	
4/14/4	2253	860	115.4	20.4	102.6	94.2	P	
4/14/5	2276	739	116.2	19.6	99.9	91.7	P	
4/14/6	2208	785	118.2	19.7	100.4	92.1	P	

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1988								
4/15/1	2052	907	121.3	20.0	106.1	97.3	P	
4/15/2	2065	985	121.0	19.8	105.5	96.8	P	
4/15/3	2067	1081	118.7	19.9	101.2	92.8	P	
4/15/4	1998	1069	118.5	20.0	104.6	95.9	P	
4/15/5	1985	960	119.5	21.6	103.3	94.7	P	
4/15/6	1966	884	120.0	19.7	105.5	96.8	P	
4/25/1	2275	736	116.8	19.5	101.2	92.8	P	
4/25/2	2275	826	116.2	21.2	104.7	96.0	P	
4/25/3	2279	933	117.7	21.1	104.9	96.2	P	
4/25/4	2280	1030	115.6	20.3	102.2	93.7	P	
4/25/5	2223	1042	117.4	20.6	103.6	95.0	P	
4/25/6	2210	930	118.4	19.3	102.8	94.3	P	
4/25/7	2200	829	118.9	19.5	102.6	94.1	P	
4/25/8	2109	762	121.7	19.7	101.9	93.5	P	
4/25/9	2106	846	121.9	20.7	101.2	92.9	P	
4/25/10	2117	941	121.0	20.1	102.7	94.2	P	
4/25/11	2135	1060	118.9	22.7	100.7	92.4	P	
4/27/1	2037	801	122.6	21.0	101.4	93.0	P	
4/27/2	2049	878	122.2	19.5	106.0	97.3	P	
4/27/3	2054	946	122.0	21.0	101.0	92.7	P	
4/27/5	2000	1070	119.3	20.6	100.5	92.2	P	
4/27/6	1988	951	120.6	19.6	99.8	91.5	P	
4/27/7	1978	864	121.3	19.8	101.9	93.5	P	
4/27/8	1963	778	121.8	19.7	103.8	95.2	P	
4/28/1	1826	953	115.8	18.0	100.2	91.9	P	
4/28/4	1769	776	117.8	18.2	105.5	96.7	P	
4/28/5	1815	857	119.2	17.3	99.4	91.2	P	

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1988								
4/28/6	1736	871	118.8	17.8	104.3	95.6	P	
4/28/8	2122	746	122.1	20.6	104.1	95.5	P	
4/28/9	2250	716	119.2	20.1	102.4	94.0	P	
4/28/10	2281	834	117.0	20.0	103.8	95.2	P	
4/28/11	2231	909	119.1	20.3	101.4	93.0	P	
4/28/12	2278	1064	116.3	17.9	104.6	95.9	P	
4/29/1	2182	1033	119.6	21.1	101.7	93.3	P	K, Att
4/29/2	2170	954	120.6	22.4	99.9	91.7	P	
4/29/3	2156	895	121.4	20.8	103.7	95.2	P	
4/29/4	2077	794	123.6	21.4	103.0	94.5	P	Att
4/29/5	2084	871	123.2	19.6	105.6	96.9	P	
4/29/6	2095	972	122.4	19.2	105.9	97.1	P	
4/29/7	2108	1052	120.6	20.3	101.0	92.6	P	
5/3/1	1675	961	117.4	16.5	101.7	93.3	P	
5/3/2	1664	907	119.3	17.0	101.3	92.9	P	
5/3/3	1632	907	117.6	17.1	107.6	98.7	P	Att
5/4/1	1649	825	118.7	18.5	106.1	97.3	P	
5/4/2	1745	798	119.3	19.0	107.7	98.8	P	
5/4/3	1826	784	120.3	19.7	103.4	94.9	P	
5/5/1	1844	869	119.6	19.3	105.6	96.9	P	
5/5/2	1751	896	119.8	19.2	107.8	98.9	P	
5/5/3	1671	919	120.0	19.1	103.2	94.7	P	
5/5/4	1700	994	117.1	17.1	106.5	97.7	P	
5/5/5	1776	974	117.0	19.4	103.8	95.2	P	
5/5/6	1862	958	116.5	17.3	108.4	99.4	P	K, Att
5/6/1	1849	762	121.0	19.4	104.2	95.6	P	
5/6/2	1748	776	119.5	18.9	104.2	95.6	P	Att

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1988								
5/6/3	1726	774	118.2	17.4	107.7	98.8	P	
5/6/4	1702	849	120.8	20.0	105.5	96.8	P	
5/6/5	1918	757	121.4	18.7	106.9	98.1	P	
5/6/6	2210	763	121.8	18.4	101.3	93.0	P	Att
5/6/7	2244	828	118.7	20.4	102.4	94.0	P	
5/6/8	2178	889	121.2	19.2	105.3	96.6	P	
5/6/9	2081	887	123.5	21.2	103.5	94.9	P	
5/6/10	2092	800	123.6	19.3	105.6	96.9	P	
5/12/1	1810	858	121.1	17.3	104.3	95.7	P	Att
5/12/2	1748	909	120.4	18.2	99.2	91.0	P	
5/12/3	1676	945	120.4	19.6	102.1	93.7	P	
5/12/4	2310	775	114.7	21.6	100.6	92.2	P	
5/12/5	1991	1067	119.8	19.8	105.3	96.6	P	
5/12/6	2037	1117	118.9	19.7	105.6	96.8	P	Att
5/12/7	2117	1111	118.5	20.8	103.3	94.7	P	
5/12/8	2227	1083	117.4	20.6	100.3	92.0	P	
5/12/9	2314	945	114.3	19.5	102.8	94.3	P	Att
5/18/1	1551	1171	79.2	22.3	100.2	91.9	P	
5/18/2	1652	1148	79.7	19.9	104.6	95.9	P	K, Att
5/18/3	1824	1119	75.0	22.5	100.3	92.0	P	K, Att
5/18/4	1557	1176	80.7	22.6	98.3	90.2	P	
5/18/5	1708	1128	79.3	18.0	106.3	97.5	P	
5/18/6	1822	1145	77.4	18.9	104.2	95.6	P	
5/18/9	1539	1182	81.6	17.6	105.6	96.9	P	
5/19/2	1489	1014	116.7	18.6	104.6	95.9	P	
5/19/3	1570	950	117.4	19.4	102.3	93.8	P	
5/19/4	1818	1123	77.8	21.6	102.2	93.8	P	

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1988								
5/19/5	1693	1135	80.9	21.4	103.3	94.8	P	
5/19/6	1565	1170	81.9	19.2	104.7	96.1	P	
5/19/7	1806	1249	78.5	22.9	101.3	92.9	P	
5/19/8	1752	1220	80.2	20.6	103.5	95.0	P	
5/19/9	1584	1169	83.1	20.8	101.2	92.8	P	
5/19/11	1671	1144	83.4	19.1	107.0	98.1	P	
5/19/12	1816	1128	79.6	18.3	109.5	100.5	P	
5/19/13	1817	1139	80.1	21.2	101.1	92.7	P	
5/19/14	1697	1135	83.7	20.1	104.6	96.0	P	
5/19/15	1578	1172	84.7	21.3	101.2	92.8	P	
5/20/1	1824	1148	80.6	21.6	101.9	93.5	P	
5/20/2	1705	1134	84.3	21.2	100.7	92.4	P	
5/20/3	1548	1162	85.5	21.7	103.7	95.2	P	
5/20/4	1791	1130	82.0	19.7	106.0	97.2	P	
5/20/5	1637	1126	85.5	22.2	102.6	94.1	P	
5/20/6	1406	1150	87.5	23.0	103.2	94.7	P	
5/20/7	1800	1139	83.0	21.9	100.0	91.7	P	
5/20/8	1670	1137	86.6	22.0	102.0	93.6	P	Att
5/20/9	1544	1175	87.3	22.0	99.6	91.4	P	
5/20/10	1806	1137	83.7	22.1	102.9	94.4	P	
5/20/11	1712	1128	86.1	18.5	106.3	97.5	P	
5/20/12	1779	1127	85.6	21.5	102.5	94.1	P	K, Att
5/23/1	1557	959	118.7	20.4	103.7	95.1	P	
5/23/2	1469	842	115.1	18.5	102.9	94.4	P	
5/23/3	1523	900	108.0	20.5	99.9	91.6	P	
5/24/1	1838	1262	75.4	22.8	99.5	91.3	P	K, Att
5/24/2	1877	1347	76.0	19.3	106.1	97.3	P	K, Att

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1988								
5/24/3	1831	1196	71.6	20.6	101.0	92.6	P	
5/24/4	1847	1315	73.1	17.8	107.6	98.7	P	
5/24/5	1945	1337	76.4	19.6	105.8	97.1	P	
5/24/8	1836	1245	76.5	17.8	104.4	95.8	P	
5/24/9	1844	1321	76.8	19.2	101.2	92.9	P	
5/24/10	1988	1321	80.3	20.8	101.6	93.2	P	
5/24/11	1910	1345	78.5	21.1	99.8	91.5	P	
5/24/12	1849	1345	77.6	20.8	99.6	91.4	P	
5/24/13	1827	1198	76.8	21.8	103.0	94.4	P	Att
5/24/14	1982	1320	81.0	21.7	99.6	91.3	P	Att
5/25/1	1831	1211	78.4	20.6	102.5	94.1	P	
5/25/2	1849	1325	78.5	22.7	99.2	91.0	P	
5/25/3	1904	1343	80.8	19.0	104.8	96.1	P	
5/25/4	1825	1200	79.0	22.2	98.6	90.5	P	
5/25/5	1847	1329	79.1	20.4	102.1	93.7	P	
5/25/6	1928	1340	81.4	18.8	102.0	93.6	P	
5/25/7	1822	1189	80.1	19.3	101.5	93.1	P	
5/25/8	1836	1278	79.8	19.7	104.4	95.8	P	
5/25/9	1972	1323	81.9	19.7	99.1	91.0	P	
5/25/10	1836	1280	80.5	21.9	100.3	92.0	P	Att
5/25/11	1818	1180	81.1	22.0	99.6	91.4	P	
5/26/2	1826	1204	82.2	20.0	101.6	93.2	P	
5/26/3	1841	1300	81.4	18.3	100.7	92.4	P	
5/26/4	1633	1105	100.3	20.3	102.9	94.4	P	
5/26/5	1540	1124	98.5	20.6	100.9	92.6	P	
5/26/6	1484	1075	103.3	18.6	105.5	96.7	P	
5/27/1	1708	1078	106.2	21.5	101.4	93.0	P	

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1988								
5/27/2	1828	1071	104.2	19.2	105.2	96.5	P	K, Att
5/31/1	1877	1150	102.9	17.8	106.3	97.6	P	
5/31/2	1886	1236	98.8	20.1	102.6	94.2	P	
6/2/1	1493	1100	104.4	19.5	105.5	96.7	P	
6/2/2	1578	1112	106.1	20.1	102.6	94.1	P	K, Att
6/2/3	1694	1085	106.7	20.3	102.8	94.3	P	
6/2/4	1807	1070	106.6	19.6	100.5	92.2	P	
6/3/1	1862	1120	102.5	19.7	103.8	95.2	P	
6/3/2	1860	1181	96.2	21.3	100.3	92.0	P	Att
6/3/3	1910	1269	97.0	19.8	104.7	96.0	P	
6/6/1	1916	993	113.8	20.2	102.1	93.7	P	
6/6/2	1955	1072	112.9	18.0	109.6	100.6	P	Att
6/7/1	1493	1100	104.4	19.5	105.5	96.7	P	
6/7/2	1578	1112	106.1	20.1	102.6	94.1	P	K, Att
6/7/3	1694	1085	106.7	20.3	102.8	94.3	P	
6/7/4	1807	1070	106.6	19.6	100.5	92.2	P	
6/8/1	1930	939	117.3	20.7	102.4	94.0	P	
6/8/2	1949	997	116.8	20.2	102.9	94.4	P	
6/8/3	1955	1090	115.4	18.5	100.5	92.2	P	
6/9/1	1831	1097	101.0	20.5	101.9	93.5	P	
6/9/2	1753	1079	104.9	21.6	98.6	90.5	P	Att
6/9/3	1641	1100	105.5	20.8	103.8	95.2	P	
6/9/4	1918	1260	100.0	20.7	100.2	92.0	P	
6/9/5	1887	1222	103.3	22.1	98.4	90.3	P	
6/9/6	1871	1151	103.6	19.1	106.5	97.7	P	K, Att
6/30/1	1756	177	76.1	23.2	98.3	90.2	P	
6/30/2	1754	226	74.3	24.0	100.8	92.4	P	K, Att

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1988								
6/30/3	1788	138	81.2	21.3	101.5	93.1	P	
6/30/4	1758	199	75.5	20.1	103.6	95.0	P	
6/30/5	1768	148	80.9	19.1	100.7	92.4	P	
6/30/6	1754	200	76.8	20.3	98.6	90.5	P	
6/30/7	1771	140	81.6	23.5	101.0	92.6	P	
6/30/8	1760	205	77.3	20.9	100.2	91.9	P	
6/30/9	1790	132	82.7	21.1	100.4	92.1	P	
6/30/10	1756	213	78.6	21.5	104.2	95.6	P	
6/30/11	1753	197	80.7	20.7	99.9	91.7	P	Att
7/1/1	1753	202	81.3	20.7	104.0	95.4	P	
7/5/1	1760	225	73.0	22.4	102.0	93.6	P	
7/5/2	1760	242	71.2	22.1	101.7	93.6	P	
7/5/3	1763	246	74.0	19.5	103.8	95.2	P	
7/5/4	1759	230	76.7	19.8	102.7	94.3	P	
7/5/5	1765	248	76.2	23.1	99.3	91.1	P	
7/6/1	1772	311	70.6	18.7	108.6	99.6	P	K, Att
7/6/2	1772	340	70.4	23.7	101.9	93.5	P	
7/6/3	1775	335	72.5	21.1	101.3	92.9	P	
7/6/7	1770	321	74.2	21.0	98.7	90.5	P	
7/6/8	1770	280	74.8	23.0	99.2	91.0	P	
7/6/9	1768	291	75.6	21.4	99.9	91.6	P	
7/6/10	1766	281	77.4	22.3	99.7	91.5	P	
7/6/11	1769	322	76.8	22.7	100.5	92.2	P	
7/6/12	1768	298	78.1	23.5	98.1	90.0	P	
7/6/13	1764	261	79.9	22.0	98.2	90.1	P	
7/6/14	1770	346	79.2	19.0	103.6	95.1	P	
7/6/15	1768	311	80.3	22.9	102.3	92.8	P	

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1988								
7/6/16	1769	276	81.7	22.4	98.3	90.2	P	
7/6/17	1766	349	81.6	22.3	100.6	92.3	P	
7/8/1	1768	338	82.0	21.5	102.3	93.9	P	
7/8/2	1768	303	80.6	22.3	104.1	95.5	P	
7/8/3	1765	265	81.2	26.0	98.1	90.0	P	
7/11/1	1763	248	82.5	22.6	103.2	94.6	P	
7/11/2	1767	329	82.9	22.8	102.5	94.0	P	
7/11/5	1755	202	82.8	22.6	102.8	94.3	P	K, Att
7/11/6	1760	311	83.8	22.8	100.1	91.9	P	
7/11/7	1765	345	85.5	19.5	101.1	92.8	P	
7/11/8	1759	254	84.2	20.9	99.7	91.5	P	
7/11/9	1763	270	85.3	22.7	99.9	91.6	P	
7/11/10	1764	343	86.3	22.3	98.1	90.0	P	
7/11/11	1755	209	84.5	21.3	103.8	95.2	P	
7/11/12	1764	316	87.0	23.0	99.6	91.4	P	
7/11/13	1760	245	86.2	22.1	102.9	94.3	P	
7/11/14	1764	345	88.2	22.1	100.4	92.1	P	
7/12/1	1756	229	87.1	22.5	101.5	93.1	P	
7/12/2	1761	318	89.0	22.6	102.5	94.1	P	
7/12/3	1735	410	83.8	23.4	104.8	96.2	P	
7/12/4	1714	418	83.7	23.8	99.7	91.5	P	
7/13/1	1755	183	86.5	19.1	102.3	93.9	P	
7/13/2	1710	437	84.1	19.1	105.5	96.8	P	
7/13/3	1763	345	89.9	16.6	102.3	93.9	P	
7/13/4	1704	453	84.5	21.6	100.1	91.5	P	Att
7/14/1	1692	459	84.9	22.5	101.7	93.3	P	
7/14/2	1741	337	82.0	21.3	103.6	95.1	P	

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1988								
7/14/3	1688	455	85.9	22.6	100.5	92.2	P	
7/14/4	1736	290	81.9	22.1	100.9	92.6	P	
7/14/5	1733	341	83.8	20.8	99.3	91.1	P	
7/14/6	1695	476	85.9	22.4	101.4	93.0	P	
7/14/7	1734	242	84.8	22.2	99.0	90.8	P	
7/14/8	1724	155	95.8	22.2	102.6	94.1	P	Att
7/15/1	1740	230	86.5	24.0	99.7	91.4	P	
7/15/2	1738	415	87.2	23.0	98.4	90.3	P	
7/15/3	1725	353	87.7	23.8	99.1	90.9	P	
7/15/4	1729	219	87.3	21.2	103.6	95.1	P	
8/18/1	1684	747	115.1	23.7	100.1	91.8	P	
8/18/2	1577	769	113.2	24.7	98.5	90.3	P	
8/18/3	1468	789	110.8	24.5	100.7	92.4	P	
8/30/1	1644	744	109.9	23.3	101.5	93.1	P	
8/30/2	1573	766	110.2	23.1	102.1	93.6	P	
8/30/3	1475	794	110.3	22.5	98.2	90.1	P	
8/30/4	1404	836	107.6	23.4	100.0	91.7	P	
8/31/3	1405	900	102.8	21.0	104.9	96.2	P	
8/31/4	1448	1032	102.3	20.2	105.7	97.0	P	
8/31/5	1594	1068	103.7	21.1	103.5	94.9	P	
8/31/6	1726	1079	104.0	23.6	99.9	91.7	P	
8/31/7	1871	1167	104.7	24.3	98.7	90.5	P	
9/1/1	1517	775	113.1	22.0	103.9	95.3	P	
9/1/2	1643	755	110.6	24.6	101.2	92.8	P	
9/27/2	1436	763	100.6	24.0	101.4	93.0	P	
9/27/3	1504	749	101.5	23.3	101.6	93.2	P	
9/28/1	1589	738	107.4	22.3	100.8	92.5	P	

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1988								
9/28/2	1592	730	102.9	22.7	101.2	92.9	P	
9/28/3	1525	751	105.6	25.7	99.0	90.8	P	
9/28/4	1426	764	103.2	25.9	98.7	90.6	P	
9/29/1	1643	711	103.4	23.5	100.4	92.1	P	
9/29/2	1578	726	101.2	24.7	99.5	91.2	P	
9/29/6	1628	702	99.7	22.7	100.3	92.0	P	
9/29/7	1557	873	117.2	22.8	101.5	93.1	P	
9/29/8	1478	899	113.7	21.9	102.7	94.2	P	
9/29/9	1563	943	117.9	23.3	100.9	92.6	P	
9/29/10	1492	954	113.4	20.5	105.1	96.4	P	
9/30/1	1603	723	103.3	23.5	100.7	92.4	P	
9/30/2	1503	742	102.3	23.7	98.9	90.8	P	
9/30/3	1435	756	101.4	22.4	99.8	91.5	P	
10/4/1	1659	697	102.8	22.1	102.2	93.7	P	
10/4/2	1570	717	101.8	23.5	101.0	92.6	P	K, Att
10/5/1	1526	756	106.8	22.8	102.1	93.7	P	
10/5/2	1452	761	103.8	19.7	104.6	96.0	P	
10/5/3	1428	777	106.3	19.6	105.0	96.3	P	
10/6/1	1657	713	108.0	24.1	99.6	91.4	P	
10/6/2	1593	733	108.0	25.2	99.2	91.0	P	
10/6/3	1386	873	103.7	23.1	98.4	90.2	P	
10/6/4	1420	974	103.0	23.2	98.5	90.4	P	
10/6/5	1473	1051	102.3	22.1	102.2	93.8	P	
10/6/6	1533	1046	114.1	24.2	99.5	91.3	P	
10/6/7	1578	1015	117.3	24.4	98.9	90.7	P	
10/6/8	1517	982	115.4	23.2	98.6	90.4	P	
10/6/9	1572	957	118.8	23.4	99.1	90.9	P	

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1988								
10/6/10	1491	902	115.6	23.8	98.2	90.1	P	
10/6/11	1552	884	118.5	23.6	100.1	91.9	P	
10/7/1	1728	636	104.3	22.9	98.9	90.8	P	
10/7/2	1742	590	102.5	21.2	103.1	94.5	P	
10/7/3	1765	529	104.2	20.9	103.3	94.8	P	
10/7/4	1542	728	103.0	24.8	99.2	91.0	P	Att
10/7/5	1432	738	97.7	21.7	102.1	93.6	P	
10/7/6	1433	746	97.3	22.2	103.4	94.9	P	Att
10/7/7	1609	704	102.6	22.5	98.1	90.0	P	
10/7/8	1691	694	107.8	23.7	100.8	92.5	P	
10/10/1	1720	641	104.8	22.1	103.3	94.7	P	Att, Hyd
10/10/2	1747	549	101.7	22.6	100.8	92.4	P	
10/10/3	1783	453	104.9	21.1	98.2	90.1	P	
10/10/4	1827	340	105.1	23.0	98.2	90.1	P	K, Att
10/10/5	1813	240	103.5	21.9	100.9	92.6	P	
10/11/1	1600	711	103.8	22.9	101.3	92.9	P	
10/11/2	1520	720	99.5	22.8	100.5	92.1	P	K, Att
10/11/3	1423	745	97.3	23.4	101.0	92.6	P	
10/11/4	1426	1138	104.7	20.8	100.1	91.8	P	
10/11/5	1605	1123	102.1	22.4	102.0	93.6	P	
10/11/6	1702	1099	103.0	24.0	99.7	91.5	P	
10/11/7	1796	1090	101.7	24.6	98.2	90.1	P	
10/11/8	1842	1133	99.7	22.3	102.5	94.0	P	K, Att
10/11/9	1859	1193	98.8	22.5	101.4	93.0	P	
10/12/3	1792	441	104.4	23.8	99.9	91.7	P	
10/12/4	1811	330	100.4	24.4	100.2	91.9	P	
10/12/5	1801	230	100.0	24.3	98.4	90.2	P	

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1988								
10/13/1	1682	690	106.7	22.2	101.5	93.1	P	
10/13/2	1728	630	105.5	20.5	102.0	93.6	P	
10/13/3	1709	428	83.3	18.8	106.0	97.2	P	
10/13/4	1652	463	75.9	21.3	102.7	94.2	P	
10/14/1	1659	454	77.6	17.6	105.5	96.8	P	K, Att
10/14/2	1740	396	85.7	18.7	102.5	94.1	P	
10/14/3	1651	453	78.6	21.3	98.1	90.0	P	
10/14/4	1724	417	85.7	21.7	105.0	96.4	P	
10/14/5	1384	756	99.1	21.1	103.4	94.8	P	
10/14/6	1460	715	97.4	22.2	101.4	93.1	P	
10/14/7	1569	692	97.4	24.9	100.3	92.0	P	
10/14/8	1661	667	100.5	21.5	103.1	94.5	P	
10/15/1	1652	443	79.8	19.6	99.8	91.6	P	
10/15/2	1736	401	87.2	20.1	98.8	90.6	P	
10/17/1	1662	470	83.0	19.0	105.8	97.1	P	
10/17/2	1718	398	87.4	19.6	103.8	95.2	P	
10/17/3	1729	616	103.4	23.0	101.8	93.4	P	
10/17/4	1751	527	103.2	24.5	98.4	90.3	P	Att
10/17/5	1787	422	101.0	22.9	101.2	92.9	P	Att
10/17/6	1805	340	99.8	22.1	102.0	93.5	P	
10/17/7	1819	270	106.0	23.0	102.4	94.0	P	
10/17/8	1654	454	82.5	19.6	100.2	91.9	P	
10/17/9	1738	386	88.6	18.3	107.1	98.2	P	
10/26/1		Southside 717	-	22.7	100.9	92.6	P	
10/26/3	1592	463	76.6	20.3	109.9	100.8	P	
10/26/4	1444	485	77.6	21.9	104.6	95.9	P	K, Att
10/26/5	1276	543	80.3	16.9	114.6	105.2	P	K, Att

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1988								
10/26/6	1303	698	77.2	22.5	99.8	91.6	P	
10/31/1	1529	467	76.8	24.0	98.4	90.3	P	
10/31/2	1434	492	77.7	25.2	98.9	90.8	P	
10/31/3	1576	461	77.7	23.1	101.5	93.1	P	
10/31/4	1458	486	78.2	24.0	100.0	91.7	P	
10/31/5	1578	457	78.6	23.3	101.5	93.1	P	
10/31/6	1410	493	79.8	23.3	101.7	93.3	P	
11/1/1	1640	448	81.9	24.7	101.2	92.8	P	
11/1/2	1514	472	79.4	23.5	101.1	92.7	P	
11/1/3	1413	500	80.2	24.5	99.0	90.8	P	
11/8/5	1578	460	80.4	21.8	99.1	90.9	P	
11/8/6	1476	485	80.8	23.3	98.1	90.0	P	
11/9/1	1288	653	78.6	21.2	101.7	93.3	P	Att
11/9/2	1341	747	81.1	22.0	101.8	93.4	P	
11/9/3	1427	544	80.3	21.9	100.2	91.9	P	
11/10/1	1288	656	80.2	22.0	102.1	93.7	P	
11/10/2	1264	585	82.1	23.8	101.0	92.7	P	
11/10/3	1408	498	82.1	23.5	102.2	93.7	P	
11/10/4	1598	454	82.5	23.0	98.4	90.3	P	
11/18/1	1750	592	108.0	20.7	105.8	97.0	P	
11/18/2	1706	670	107.4	21.9	102.8	94.3	P	
11/18/3	1632	698	107.9	20.2	106.0	97.2	P	
11/18/4	1491	735	107.1	21.4	101.4	93.0	P	

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1989								
2/23/1	1421	954	86.5	19.8	104.2	95.6	P	
2/23/2	1424	1023	85.2	22.3	98.2	90.1	P	
2/23/3	1519	1019	108.2	18.8	107.0	98.1	P	
2/23/4	1450	980	93.3	21.8	100.6	92.3	P	
2/23/5	1475	1015	103.1	17.2	111.5	102.3	P	K, Att
2/27/1	1818	989	119.2	19.9	106.4	97.6	P	
2/27/2	1653	1234	118.3	20.1	108.3	99.3	P	
2/27/3	2035	1446	118.0	21.3	98.5	90.4	P	
2/27/4	2281	1096	120.8	19.8	109.0	100.0	P	
2/27/5	1924	763	118.7	19.7	106.3	97.5	P	
3/1/1	2000	1309	77.3	23.3	100.0	91.7	P	K, Att
3/1/2	2041	1291	76.6	22.9	98.4	90.3	P	
3/1/3	2088	1279	76.6	19.0	108.8	99.8	P	K, Att
3/1/5	2060	1285	78.0	19.8	105.1	96.4	P	
3/1/6	2114	1269	78.9	19.0	107.0	98.1	P	
3/1/7	2002	1310	80.1	18.9	112.7	103.4	P	
3/1/8	2094	1279	79.6	20.0	103.3	94.7	P	
3/1/9	2046	1293	79.2	19.1	107.0	98.1	P	
3/1/10	2006	1311	81.0	20.6	106.7	97.9	P	
3/1/11	2066	1289	80.2	21.3	104.4	95.8	P	
3/8/1	2042	1296	86.4	23.5	102.5	93.5	P	
3/8/2	2127	1291	86.6	23.1	103.9	95.3	P	
3/8/3	2023	1295	87.3	21.6	107.0	98.1	P	
3/8/4	2076	1285	87.2	20.5	104.9	96.2	P	
3/8/5	2037	1292	88.1	21.2	103.0	94.5	P	
3/8/6	2106	1276	87.8	20.9	105.2	96.5	P	K, Att
3/15/1	2350	1270	79.6	19.1	105.7	97.0	P	

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1989								
3/15/2	2300	1285	78.9	21.7	103.5	94.9	P	K, Att, Hyd
3/15/3	2362	1213	79.4	18.0	103.0	94.5	P	
3/15/4	2360	1120	79.5	19.5	106.8	98.0	P	K, Att, Hyd
3/20/2	2064	1085	105.5	22.3	98.2	90.1	P	
3/20/3	2089	1079	106.3	21.0	100.3	92.0	P	
3/20/4	1977	1222	103.1	22.1	99.5	91.3	P	
3/20/5	2130	1188	105.5	22.1	99.5	91.2	P	
3/20/6	2196	1190	105.2	21.5	105.2	96.5	P	
3/20/7	2245	1181	104.0	22.0	99.3	91.1	P	
3/20/8	2271	1173	103.9	22.5	98.2	90.1	P	
3/21/1	2003	1234	105.9	24.0	100.3	92.0	P	
3/21/2	2063	1202	107.5	21.6	99.1	90.9	P	
3/21/5	2187	1229	104.3	24.8	101.0	92.6	P	
3/21/6	2234	1207	106.6	22.4	99.9	91.6	P	
3/21/7	2264	1195	103.4	21.9	100.4	92.1	P	
3/21/8	2121	1218	104.3	21.9	102.6	94.1	P	
3/27/1	1973	1242	102.4	18.5	107.3	98.4	P	
3/27/2	2043	1226	102.5	19.6	105.4	96.7	P	
3/27/3	2073	1216	104.1	21.4	104.0	95.4	P	
3/27/4	2201	1202	99.9	21.0	98.9	90.7	P	
3/27/5	2267	1187	104.4	21.2	102.3	92.8	P	
3/27/6	2315	1167	100.8	22.9	100.8	92.5	P	
3/27/7	2313	1173	100.5	22.6	99.6	91.4	P	
3/28/1	1978	1180	113.4	20.1	104.1	95.5	P	
3/28/2	2062	1173	114.4	18.3	106.6	97.8	P	
3/28/3	2158	1149	113.7	23.2	102.0	93.6	P	
3/28/4	2327	1141	102.3	22.0	100.4	92.1	P	

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1989								
3/28/5	2284	1105	113.2	21.5	104.5	95.8	P	
3/28/6	2198	1137	113.6	20.6	103.2	94.6	P	
3/28/7	2019	1193	114.1	22.4	99.2	91.0	P	
3/28/8	2088	1169	114.8	22.2	104.3	95.7	P	
3/28/9	2116	1219	98.1	19.8	103.7	95.1	P	
3/28/10	2182	1193	105.1	18.2	105.4	96.7	P	K, Att
3/31/1	2186	1150	114.0	20.3	105.5	96.8	P	
3/31/2	2242	1142	115.0	17.4	109.0	100.0	P	
3/31/3	2004	1173	115.8	19.0	106.8	98.0	P	
3/31/4	2080	1145	116.2	17.9	105.8	97.0	P	
3/31/5	2114	1155	116.9	17.1	103.8	95.2	P	
4/3/1	2165	1152	116.7	19.2	106.5	97.7	P	
4/3/2	2235	1137	116.6	21.5	103.6	95.1	P	
4/3/3	2307	1164	107.3	19.8	106.6	97.8	P	
4/3/4	2306	1198	96.5	20.0	104.9	96.2	P	
4/4/1	1979	1225	108.1	22.0	100.6	92.3	P	
4/4/2	2037	1210	107.9	20.2	105.0	96.3	P	
4/4/3	2099	1195	111.1	19.7	105.3	96.6	P	
4/4/4	2169	1192	109.4	19.9	100.8	92.5	P	
4/4/5	2238	1201	108.8	20.2	100.8	92.5	P	
4/4/6	2266	1190	107.7	22.1	100.4	92.1	P	
4/4/7	2294	1170	107.2	22.5	100.8	92.5	P	
4/7/2	2293	1138	115.9	21.6	99.9	91.7	P	
4/7/3	2252	1187	106.8	20.7	104.2	95.6	P	K, Att
4/7/4	2162	1199	107.1	21.1	105.5	96.8	P	
4/7/5	2021	1221	107.6	21.5	104.2	95.6	P	
4/7/6	1930	1164	115.0	24.8	98.2	90.1	P	

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1989								
4/7/7	1922	1059	117.2	21.0	101.4	93.1	P	
4/11/1	1926	1180	116.6	22.4	103.5	94.9	P	
4/11/2	1909	1046	117.4	19.3	106.6	97.8	P	
4/11/3	1921	1188	117.4	21.7	98.3	90.1	P	
4/11/4	1871	1335	85.3	20.1	104.0	95.4	P	
4/27/1	1759	870	121.2	18.9	105.5	96.7	P	
4/27/2	1644	820	119.4	27.2	98.1	90.0	P	
4/27/3	1560	863	120.3	22.3	98.1	90.0	P	
1990								
1/13/1	1415	792	112.1	19.4	106.1	97.3	P	
1/13/2	1520	763	115.9	18.7	104.2	95.6	P	
1/13/3	1683	734	115.8	18.6	105.7	96.9	P	
1/13/4	1750	658	116.0	18.4	107.3	98.4	P	
1/15/1	1440	781	116.7	22.1	98.3	90.2	P	
1/15/2	1517	763	116.6	20.8	103.2	94.7	P	
1/15/3	1700	702	116.4	21.7	104.4	92.1	P	
1/15/4	1171	549	116.3	21.0	104.5	95.9	P	
1/16/1	1638	730	117.1	21.0	104.9	96.3	P	
1/16/2	1696	706	117.2	23.5	100.4	92.1	P	
1/16/3	1747	626	117.2	21.3	102.6	94.1	P	
1/16/4	1768	560	117.3	19.9	102.9	94.4	P	
4/5/1	1635	782	118.3	19.8	105.8	97.0	P	
4/5/2	1548	820	118.9	22.6	104.0	95.4	P	

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1990								
5/24/1(2)	-	-	-	18.7	106.7	97.9	P	
5/24/2(2)	-	-	-	18.4	105.3	96.6	P	
5/24/3(2)	-	-	-	18.9	108.3	99.5	P	
5/24/4(2)	-	-	-	19.3	106.2	97.4	P	
9/7/1	2345	696	113.2	20.8	102.7	94.2	P	
9/7/2	2380	652	107.2	21.0	101.0	92.7	P	Att
9/7/3	2420	597	99.1	18.4	105.1	96.4	P	
9/7/4	2387	550	87.2	19.9	103.7	95.1	P	
9/7/5	2360	470	111.1	20.1	100.7	92.4	P	
9/7/6	2410	490	90.6	18.7	99.0	90.9	P	
9/7/7	2395	500	87.8	21.4	102.0	93.5	P	K, Att
9/7/8	2420	700	96.6	21.3	99.3	91.1	P	
9/7/9	2386	630	91.6	19.5	102.1	93.6	P	
9/7/10	2410	574	94.4	19.4	101.5	93.1	P	
9/7/11	2342	510	113.8	18.4	105.5	96.8	P	
9/7/12	2390	483	91.1	19.1	103.1	94.6	P	
9/7/13	2440	495	111.7	19.4	102.4	94.0	P	
9/10/1	2340	625	112.6	20.2	101.8	93.4	P	Att
9/10/2	2400	690	107.0	19.6	103.9	95.3	P	
9/10/3	2410	640	104.3	19.7	101.2	92.8	P	
9/10/4	2415	595	97.1	20.7	101.8	93.4	P	
9/10/5	2420	497	90.1	22.1	98.0	90.0	P	
9/10/6	2390	520	111.3	18.7	106.6	97.8	P	
9/10/7	2380	510	110.1	20.0	101.0	92.7	P	
9/10/8	2412	687	99.2	19.1	103.8	95.2	P	K, Att

Notes: (2) Areas of tests had previously passed density tests. These tests were conducted to verify density. See DFR 52-186 for further details.

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1990								
9/10/9	2397	543	94.3	19.0	101.2	92.8	P	
9/10/10	2427	606	97.0	19.2	99.4	91.2	P	
9/10/11	2440	478	89.1	20.2	102.4	93.9	P	
9/10/12	2402	660	113.0	21.1	103.1	94.6	P	
9/19/1	2400	950	91.0	18.4	99.4	91.2	P	
9/19/2	2350	910	98.9	18.8	101.7	93.3	P	
9/19/3	2390	840	106.0	21.3	100.2	91.9	P	Att
9/19/4	2420	810	113.1	19.8	100.5	92.1	P	
9/19/5	2435	755	97.1	18.3	105.0	96.3	P	
9/19/6	2375	475	86.1	21.9	102.1	93.7	P	
9/19/7	2430	510	110.5	19.1	103.8	95.3	P	
9/19/8	2360	555	112.0	22.1	98.6	90.5	P	
9/19/9	2425	600	95.0	19.7	105.6	96.8	P	Att
9/19/10	2395	660	103.1	18.4	104.7	96.0	P	
9/24/1	2370	750	91.0	22.6	99.7	91.5	P	
9/24/2	2420	810	110.0	21.0	99.5	91.3	P	K, Att
9/24/3	2445	862	87.1	20.1	99.0	90.8	P	
9/24/4	2410	923	93.5	20.7	103.6	95.0	P	
9/24/5	2390	970	109.0	21.2	102.2	93.7	P	
9/25/1	2370	740	90.5	18.7	104.4	95.7	P	
9/25/2	2400	790	110.0	21.5	99.6	91.3	P	
9/25/3	2420	830	106.0	20.9	101.2	92.8	P	
9/25/4	2390	880	95.0	19.2	99.0	90.8	P	
9/25/5	2440	915	108.0	18.6	103.9	95.3	P	
9/26/1	2350	760	114.0	19.8	103.9	95.3	P	
9/26/2	2420	795	91.0	18.1	100.7	92.4	P	
9/26/3	2395	830	86.5	18.5	100.1	91.9	P	

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1990								
9/26/4	2435	885	97.5	18.1	103.2	94.7	P	
9/26/5	2370	900	106.5	20.8	101.5	93.1	P	
9/26/6	2380	940	103.5	18.7	99.9	91.7	P	
9/26/7	2355	920	115.0	21.6	101.3	93.0	P	
9/27/1	2370	770	114.0	18.7	106.4	97.6	P	
9/27/2	2410	815	95.0	18.3	99.3	91.1	P	
9/27/3	2440	840	87.0	20.2	104.3	95.6	P	
9/27/4	2390	890	110.0	20.0	101.0	92.8	P	
9/27/5	2410	920	94.0	20.2	102.6	94.1	P	
9/27/6	2400	950	91.0	19.6	102.5	94.0	P	K, Att
9/27/7	2380	780	106.1	19.8	99.7	91.5	P	
10/17/1(1)		Middle of Slope		18.3	104.4	95.8	P	
10/17/2(1)		Top of Slope		20.0	101.1	92.7	P	
10/17/3(1)		Bottom of Slope		18.1	104.0	95.4	P	
10/17/4(1)		Middle of Slope		19.0	107.3	98.5	P	
10/18/1(1)		Middle of Slope		19.7	101.9	93.5	P	
10/25/1	2430	1140	89.1	19.9	100.7	92.3	P	
10/25/2	2390	1110	96.5	21.5	98.5	90.3	P	
10/25/3	2365	1050	114.0	21.4	98.5	90.4	P	Att
10/25/4	2410	1000	87.5	20.7	98.9	90.8	P	
10/26/1	2370	1130	110.0	21.4	101.9	93.4	P	
10/26/2	2400	1100	97.0	21.0	102.2	93.7	P	
10/26/3	2380	1060	108.0	22.3	100.7	92.4	P	
10/26/4	2420	1040	94.0	20.8	100.0	91.7	P	
10/26/5	2365	420	110.0	23.0	101.3	92.9	P	

(1): Tests were conducted in the northeast corner of Cell 717 in conjunction with the drop chute, and no survey information was obtained. Not part of clay cap.

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1990								
10/26/6	2395	400	98.0	19.3	98.3	90.2	P	
10/26/7	2430	330	89.0	20.5	98.5	90.4	P	
10/29/1	2410	1180	90.0	20.3	102.0	93.6	P	
10/29/2	2375	1140	113.0	19.4	102.5	94.0	P	
10/29/3	2415	1090	89.5	22.0	100.2	92.0	P	
10/29/4	2380	1050	112.0	17.5	104.3	95.7	P	
10/29/5	2385	320	109.0	19.4	99.2	91.1	P	
10/29/6	2400	365	99.5	20.3	101.2	92.9	P	
10/29/7	2430	425	86.5	17.8	98.6	90.5	P	
10/30/1	2360	1150	111.0	17.7	105.3	96.6	P	
10/30/2	2415	1110	94.0	18.5	100.1	91.8	P	
10/30/3	2380	1075	108.0	19.3	99.3	91.1	P	
10/30/4	2430	1045	91.0	20.8	99.0	90.8	P	K, Att
10/30/5	2375	415	110.0	21.0	99.4	91.2	P	
10/30/6	2405	375	99.0	21.4	98.9	90.7	P	Att
10/30/7	2425	330	92.0	22.7	99.6	91.4	P	
10/30/8	2430	420	90.0	22.0	100.5	92.2	P	
10/30/9	2400	380	100.0	18.9	104.5	95.8	P	
10/30/10	2360	330	111.0	18.7	102.4	93.9	P	
11/1/1	2335	1226	94.0	19.5	99.7	91.5	P	
11/1/2	2425	1145	90.5	17.6	104.7	96.1	P	
11/1/3	2385	1120	111.0	18.3	100.8	92.4	P	
11/1/4	2410	1090	92.5	18.2	102.9	94.4	P	
11/1/5	2365	1050	113.0	21.3	100.3	92.0	P	Att
11/1/6	2430	350	89.6	19.6	103.4	94.9	P	
11/1/7	2395	385	107.0	19.8	103.1	94.6	P	K, Att
11/1/8	2360	410	112.0	20.9	99.2	91.0	P	

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1991								
5/30/1	1834	674	119.4	19.6	105.7	97.4	P	
5/30/2	1873	776	122.2	21.8	103.2	95.1	P	
5/30/3	1966	752	123.2	20.7	104.5	96.3	P	
1992								
10/12/1	1875	118	84.3	19.9	109.0	100.0	P	K, Att
10/12/2	2002	131	91.1	21.2	106.2	92.9	P	
10/12/3	2097	174	103.6	21.4	102.9	94.8	P	K, Att
10/12/4	2091	188	109.5	20.0	104.8	96.6	P	
10/13/1	1797	152	107.6	19.8	100.5	92.6	P	
10/13/2	1920	175	104.2	20.0	105.2	96.9	P	K, Att
10/13/3	1853	158	99.3	20.8	104.2	96.0	P	
10/14/1	1756	175	106.0	21.8	102.1	94.1	P	
10/14/2	1926	203	97.9	21.0	104.2	96.0	P	
10/14/3	2042	145	96.3	19.4	107.5	99.1	P	K, Att
10/14/4	1910	81	86.0	20.4	105.8	97.5	P	
10/14/5	1845	83	84.9	21.0	101.9	93.9	P	
12/2/1	2030	200	113.1	23.1	100.5	91.9	P	
12/2/2	2095	270	113.4	24.1	102.1	93.3	P	
12/2/3	2156	220	114.0	23.1	101.6	92.9	P	
12/2/4	2268	260	113.7	18.0	110.1	100.6	P	
12/3/1	2274	160	105.2	24.0	101.4	92.6	P	
12/3/2	2343	140	99.7	21.5	101.5	92.7	P	Att
12/3/4	2372	250	91.4	22.8	99.3	90.8	P	
12/3/5	2388	178	87.6	21.3	102.8	94.0	P	Att

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1992								
12/4/1	2225	148	108.2	23.3	99.6	91.1	P	
12/4/2	1900	150	109.1	20.8	100.2	91.6	P	K, Att
12/4/3	1963	170	95.6	21.0	103.0	94.1	P	
12/4/4	2015	163	111.3	20.6	99.5	91.0	P	
12/4/5	2360	233	110.4	23.3	101.1	92.4	P	Att
12/4/6	2396	278	106.1	22.0	103.2	94.3	P	K, Att
12/4/7	2247	162	109.9	22.1	101.5	92.8	P	
12/14/1	2295	277	114.5	22.4	103.2	94.3	P	Att
12/14/2	2236	241	114.7	21.6	105.1	96.0	P	
1993								
2/1/1	2130	192	110.3	23.3	101.2	92.5	P	K, Att
2/1/2	2260	176	107.0	21.9	100.2	91.6	P	
2/1/3	2340	181	109.9	22.1	103.0	94.1	P	
2/1/4	2288	261	116.2	24.2	102.1	93.3	P	
2/1/5	2193	257	116.6	22.0	102.9	94.1	P	
2/2/1	2019	253	117.2	20.3	107.5	98.3	P	Att
2/3/1	2378	254	109.1	21.5	101.6	92.9	P	K, Att
2/3/2	2374	209	105.0	20.7	107.0	97.8	P	
2/3/3	1891	163	107.0	20.6	103.4	94.5	P	K, Att
2/4/1	2123	182	109.7	22.8	100.5	91.9	P	
2/9/1	2138	173	107.5	18.4	109.0	99.6	P	
2/9/2	2192	164	106.8	20.8	103.2	94.4	P	
2/9/3	2269	178	107.1	23.5	99.0	90.5	P	Att
2/9/4	2364	205	104.9	24.8	99.8	91.2	P	
2/9/5	2382	251	108.1	21.1	100.5	91.9	P	K, Att

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1993								
2/23/1	2090	81	87.5	22.4	100.7	92.0	P	
2/23/2	2174	85	87.7	20.5	105.9	96.8	P	Att, Hyd
2/23/3	2241	108	93.8	20.4	108.5	99.2	P	
2/24/1	2290	116	94.7	20.9	105.6	96.5	P	
2/24/2	2362	97	88.8	19.8	107.2	98.0	P	
2/25/1	1891	76	82.8	22.5	101.5	92.8	P	Att
2/25/2	2008	79	85.4	21.7	101.4	92.6	P	
2/25/3	2098	74	87.8	20.6	104.3	95.4	P	
2/25/4	2208	85	88.1	22.5	104.6	95.6	P	
2/25/5	2310	96	92.8	22.0	101.5	92.8	P	Att, K
3/10/1	1902	81	84.6	22.3	103.0	94.2	P	K, Att, Hyd
3/10/2	2063	58	83.1	21.0	101.4	92.7	P	
3/10/3	2321	114	95.4	23.8	99.2	90.7	P	Att, Hyd
3/10/4	2030	272	116.5	18.9	111.3	101.7	P	
3/10/5	2121	269	116.3	21.9	100.0	91.4	P	Att
3/10/6	2232	253	115.8	21.9	106.1	96.9	P	
3/10/7	2232	297	117.2	25.4	100.2	91.6	P	K, Att
3/10/8	2181	345	119.2	24.6	100.4	91.8	P	
3/10/9	2110	304	117.9	22.3	104.3	95.3	P	Att
3/23/1	2371	280	108.4	19.1	108.1	98.8	P	Att, Hyd
3/23/2	2409	229	103.0	25.8	98.8	90.3	P	Att
3/23/3	2378	198	104.7	21.6	104.3	95.3	P	K, Att
3/24/1	2306	125	97.5	21.2	103.8	94.8	P	K, Att
3/24/2	2257	173	107.5	19.6	107.7	98.4	P	Att, Hyd
3/24/3	2152	172	107.6	23.0	101.6	92.9	P	
3/24/4	2163	113	94.4	19.7	105.3	96.3	P	
3/29/1	1909	129	90.9	23.0	100.5	91.8	P	K, Att, Hyd

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 5
FIELD QUALITY CONTROL DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F	Lab. Testing*
1993								
3/29/2	2002	157	102.8	22.3	103.5	94.6	P	
3/29/3	2054	93	88.5	20.9	100.7	92.1	P	
3/29/4	2129	78	89.3	19.4	103.4	94.5	P	K, Att
3/29/5	2268	73	85.7	19.9	100.6	91.9	P	Att
3/29/6	1944	81	85.9	20.4	103.1	94.2	P	

*: K: permeability tests, Att: Atterberg limits, Hyd: hydrometer analyses

TABLE 6
LABORATORY DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Point No.	N Coord.	E Coord.	Elev.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Hydrometer Analysis %Sand	%Silt	%Clay
1987										
10/1/1	2319	620	107.8	50/32	1.0×10^{-9}	21.1	105.9			
10/1/2	2320	520	109.3	48/31	1.0×10^{-9}	19.0	109.7			
10/1/3	2399	296	103.2	46/27	3.0×10^{-9}	16.3	111.9			
10/1/4	2223	234	106.1	49/32	1.0×10^{-9}	19.5	108.0			
10/1/5	2100	259	106.6	42/35	2.0×10^{-9}	18.6	103.6			
10/3/3	2109	283	107.1	47/31	5.0×10^{-9}	18.1	109.1			
10/6/2	1803	615	112.9	40/17	9.0×10^{-8}	26.9	97.2			
10/7/3	1850	508	116.9	44/24	--	22.1	--			
10/8/3	2292	526	116.4	42/25	--	19.6	--	8	62	30
10/9/4	2063	557	122.1	41/23	2.0×10^{-8}	23.9	98.1			
10/10/5	1788	519	110.7	48/32	--	20.7	--			
10/13/6	2104	589	121.8	37/18	2.0×10^{-9}	23.8	99.7	2	71	27
10/15/5	2313	516	115.3	40/23	--	21.3	--			
10/16/7	1969	365	120.0	37/20	--	22.9	--			
10/19/1	2303	650	116.6	37/20		22.9	--	5	61	34
10/19/2	2192	658	120.4	37/19	2.0×10^{-8}	21.1	102.1			
10/22/1	2016	482	122.1	47/30	3.0×10^{-9}	19.4	106.5	2	63	35
10/22/5	1893	505	119.0	48/33	--	21.1	--			
10/22/9	1943	233	115.0	46/31	--	22.1	--			
10/22/10	2062	238	116.1	39/25	--	20.2	--			
10/23/3	2110	292	114.8	44/28	--	20.2	--			
11/2/3	2178	439	121.5	48/32	6.0×10^{-10}	20.5	108.4	6	47	47
11/2/4	2161	536	122.0	53/35	--	21.7	--			
11/5/6	1992	421	121.8	45/28	2.0×10^{-9}	18.1	112.7	8	53	39
12/4/1	2327	800	106.5	46/27	$< 5.0 \times 10^{-10}$	16.1	114.9			
12/4/2	2328	900	105.1	52/33	2.0×10^{-9}	23.5	103.2			

TABLE 6
LABORATORY DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Point No.	N Coord.	E Coord.	Elev.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Hydrometer Analysis %Sand	%Silt	%Clay
1987										
12/4/3	2332	1105	102.0	33/16	2.0×10^{-8}	12.6	118.0			
12/11/5	2318	763	111.8	45/28	1.0×10^{-9}	20.5	107.1	4	62	34
12/14/1	2332	1059	108.4	44/26	--	20.0	--			
12/17/7	2004	1091	117.4	39/21	2.0×10^{-9}	20.8	104.1	2	69	29
12/17/11	1450	1110	80.0	50/32	1.0×10^{-9}	19.7	107.6	4	55	41
12/18/10	2185	829	118.5	48/30	--	20.1	--			
1988										
4/29/1	2182	1033	119.6	48/30	2.0×10^{-9}	20.6	104.3			
4/29/4	2077	794	123.6	43/26	--	21.4	--			
5/3/3	1632	907	117.6	42/25	--	17.0	--			
5/5/6	1862	958	116.5	45/29	1.0×10^{-9}	18.4	--			
5/6/2	1748	776	119.5	40/22	--	18.2	--			
5/6/6	2210	763	121.8	45/27	--	20.1	--			
5/12/1	1810	858	121.0	46/28	--	18.1	--			
5/12/6	2037	1117	119.0	33/17	--	19.4	--			
5/12/9	2314	945	114.3	39/21	--	20.6	--			
5/18/2	1652	1148	79.7	44/26	1.5×10^{-8}	24.3	97.8			
5/18/3	1824	1119	75.0	46/26	1.0×10^{-8}	22.0	99.6			
5/20/7	1800	1139	83.0	48/30	--	20.7	--			
5/20/12	1779	1127	85.6	44/27	7.0×10^{-9}	--	--			
5/24/1	1838	1262	75.4	53/32	4.9×10^{-9}	24.6	100.6			
5/24/2	1877	1347	76.0	40/21	1.1×10^{-8}	15.9	109.1			
5/24/13	1827	1198	76.8	41/24	--	20.7	--			
5/24/14	1982	1320	81.0	43/26	--	22.7	--			

TABLE 6
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LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Point No.	N Coord.	E Coord.	Elev.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Hydrometer Analysis %Sand	%Silt	%Clay
1988										
5/25/10	1836	1280	80.5	42/25	--	19.5	--			
5/27/2	1828	1071	104.2	52/25	2.0×10^{-9}	21.3	104.8			
6/2/2	1578	1112	106.1	46/30	3.0×10^{-9}	20.4	105.9			
6/3/2	1860	1181	96.2	44/26	--	22.1	--			
6/6/2	1955	1072	112.9	44/26	--	20.6	--			
6/7/2	1578	1112	106.1	44/27	5.0×10^{-10}	20.3	105.1			
6/9/2	1753	1079	104.9	41/26	--	20.1	--			
6/9/6	1871	1151	103.6	40/25	2.0×10^{-9}	18.9	106.3			
6/30/2	1754	226	74.3	51/32	4.3×10^{-9}	23.2	100.6			
6/30/11	1753	197	80.7	50/32	--	19.0	--			
7/6/1	1772	311	70.6	37/22	2.0×10^{-9}	18.9	112.8			
7/11/5	1755	202	82.3	51/35	4.0×10^{-10}	20.1	107.4			
7/13/4	1704	453	84.5	50/33	--	19.1	--			
7/14/8	1724	155	95.8	53/36	--	19.9	--			
10/5/1	1526	756	106.8	43/24	3.5×10^{-9}	20.8	97.1			
10/7/4	1542	728	103.0	41/20	--	22.1	--			
10/7/6	1433	746	97.3	55/27	--	19.4	--			
10/10/1	1720	641	104.8	42/24	--	22.9	--	2	47	51
10/10/4	1827	340	105.1	41/21	6.0×10^{-10}	21.7	105.2			
10/11/2	1520	720	99.5	41/22	1.0×10^{-9}	24.4	110.6			
10/11/8	1842	1133	99.7	50/32	6.0×10^{-10}	20.4	109.2			
10/14/1	1659	454	77.6	41/23	2.0×10^{-9}	17.2	110.0			
10/17/4	1751	527	103.2	39/17	--	22.9	--			
10/17/5	1787	422	101.0	37/20	--	21.5	--			
10/26/4	1276	543	80.3	49/30	7.0×10^{-10}	19.5	115.7			
10/26/5	1303	698	77.2	43/27	3.0×10^{-10}	15.5	117.3			

TABLE 6
LABORATORY DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Point No.	N Coord.	E Coord.	Elev.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Hydrometer Analysis %Sand	%Silt	%Clay
1988										
11/9/1	1288	653	78.6	42/19	--	22.8	--			
1989										
2/23/5	1475	1015	103.1	43/25	1.0×10^{-8}	17.9	110.1			
3/1/1	2000	1309	77.3	43/22	5.0×10^{-8}	23.1	99.0			
3/1/3	2088	1279	76.6	42/27	2.0×10^{-9}	21.0	106.2			
3/8/6	2106	1276	87.8	46/29	1.0×10^{-9}	20.9	105.4			
3/15/2	2300	1285	78.9	53/36	1.9×10^{-9}	24.3	99.2	0	44	56
3/15/4	2360	1120	79.5	46/30	9.0×10^{-10}	17.9	109.7	0	48	52
3/28/10	2182	1193	105.1	41/25	1.1×10^{-9}	19.3	106.2			
4/7/3	2252	1187	106.8	43/25	1.0×10^{-9}	19.1	106.0	12	44	44
1990										
1/15/3	1700	702	116.4	46/31	--	18.1	--			
1/16/1	1638	730	117.1	48/31	--	19.7	--			
9/7/2	2380	652	107.2	50/36	--	17.9	--			
9/7/7	2395	500	87.8	49/34	1.5×10^{-9}	18.5	109.4			
9/10/1	2340	625	112.6	43/26	--	21.3	--			
9/10/8	2412	687	99.2	44/28	1.7×10^{-9}	20.2	104.7			
9/19/3	2390	840	106.0	47/30	--	20.3	--			
9/19/9	2425	600	95.0	47/30	--	20.3	--			
9/24/2	2420	810	110.0	44/27	7.9×10^{-9}	20.8	103.9			
9/27/6	2400	950	91.0	41/25	1.1×10^{-8}	17.8	104.9			
10/25/4	2410	1000	87.5	49/32	--	19.1	--			
10/30/4	2430	1045	91.0	45.29	7.6×10^{-9}	19.1	108.9			

TABLE 6
LABORATORY DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Point No.	N Coord.	E Coord.	Elev.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Hydrometer Analysis %Sand	%Silt	%Clay
1990										
10/30/6	2405	375	99.0	51/35	--	19.0	--			
11/1/5	2365	1050	113.0	43/27	--	20.2	--			
11/1/7	2395	385	107.0	49/33	1.2×10^{-8}	18.1	104.9			
1992										
10/12/1	1875	118	84.3	52/38	3.3×10^{-10}	17.2	113.5			
10/12/3	2097	174	103.6	50/36	6.9×10^{-9}	22.6	102.7			
10/13/2	1920	175	104.2	47/28	5.7×10^{-9}	19.1	108.5			
10/14/3	2042	145	96.3	46/29	4.4×10^{-9}	18.4	108.5			
12/3/2	2343	140	99.7	51/37	--	16.6	--			
12/3/5	2388	178	87.6	49/35	--	17.5	--			
12/4/2	1900	150	109.1	48/33	3.2×10^{-8}	18.7	108.5			
12/4/5	2360	233	110.4	50/33	--	23.3	--			
12/4/6	2396	278	106.1	48/32	1.6×10^{-8}	20.3	104.4			
12/14/1	2295	277	114.5	45/30	--	15.4	--			
1993										
2/1/1	2130	192	110.3	42/33	3.5×10^{-8}	22.1	104.6			
2/2/1	2019	253	117.2	51/34	-	19.5	-			
2/3/1	2378	254	109.1	48/33	6.9×10^{-9}	17.9	109.5			
2/3/3	1891	163	107.0	53/39	1.3×10^{-9}	17.8	112.5			
2/9/3	2269	178	107.1	65/46	-	25.9	-			
2/9/5	2382	251	108.1	57/42	2.7×10^{-9}	18.3	102.8			
2/23/2	2174	85	87.7	46/28	-	18.9	-	1	69	30

TABLE 6
LABORATORY DATA - CELL 717 CLAY CAP
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Point No.	N Coord.	E Coord.	Elev.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Hydrometer Analysis %Sand	%Silt	%Clay
1993										
2/25/1	1891	76	82.8	42/22	-	20.9	-			
2/25/5	2310	96	92.8	58/42	8.4×10^{-10}	21.8	103.3			
3/10/1	1902	81	84.6	48/32	8.6×10^{-9}	21.7	102.5	2	55	43
3/10/3	2321	114	95.4	47/30	-	23.7	-	3	67	30
3/10/5	2121	269	116.3	48/33	-	18.0	-			
3/10/7	2232	297	117.2	50/33	1.4×10^{-9}	23.0	103.7			
3/10/9	2110	304	117.9	47/31	-	20.8	-			
3/23/1	2371	280	108.4	46/30	-	16.9	-	1	65	34
3/23/2	2409	229	103.0	55/38	-	23.5	-			
3/23/3	2378	198	104.7	56/42	2.7×10^{-9}	19.0	110.1			
3/24/1	2306	125	97.5	43/24	1.8×10^{-8}	19.5	104.8			
3/24/2	2257	173	107.5	48/34	-	17.6	-	1	61	38
3/29/1	1909	129	90.9	47/31	1.2×10^{-8}	17.7	110.0	1	72	27
3/29/4	2129	78	89.3	52/38	1.4×10^{-9}	16.1	111.3			
3/29/5	2268	73	85.7	55/40	-	16.9	-			

TABLE 7
LAD 010 395 127-CP-4
TOPSOIL LABORATORY DATA - CELL 717 CAP
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Sample No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Hydrometer Analysis		
					%Sand	%Silt	%Clay
TS-01	38/19	1.9×10^{-7}	18.8	95.0	4	63	33
TS-02	35/15	4.8×10^{-8}	13.8	112.2	3	69	28
Average	37/17	1.2×10^{-7}	16.3	103.6	4	66	30

TABLE 8
LEACHATE COLLECTION AND LEAK DETECTION
WELL CONSTRUCTION DETAILS - CELL 717
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA), INC.
BATON ROUGE, LOUISIANA

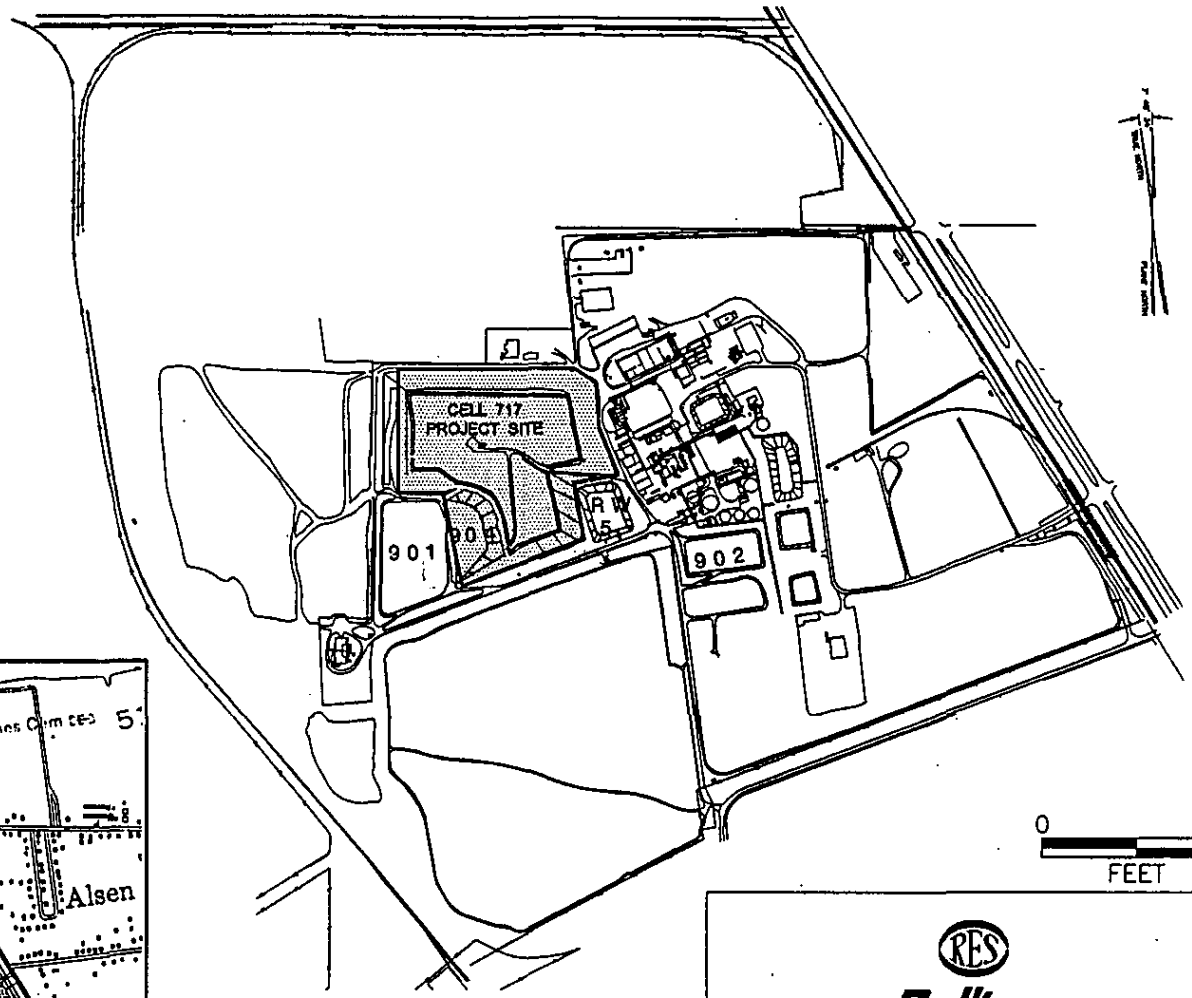
WELL NO.	TOTAL DEPTH*	PLANT COORD. NORTH/EAST	GROUND ELEV.[1]	CASING ELEV.[2]	CONSTRUCT.[3]
		LEACHATE COLLECTION WELLS			
LC-1	73.4	2114/1196	111.5	112.77	6/PVC
LC-2	85.2	2127/1154	118.3	120.17	6/PVC
LC-3A	80.6	2141/1095	119.9	122.15	6/SS
LC-5A	99.5	2098/744	125.0	127.23	6/SS
LC-6A	96.6	2093/655	125.8	127.88	6/SS
LC-7	97.4	2082/596	126.1	127.77	6/PVC
LC-8	116.2	2063/382	122.8	124.33	6/PVC
LC-9	94.5	1854/584	120.0	122.13	6/PVC
LC-10	101.3	1855/615	120.6	122.67	6/PVC
LC-11	98.1	1869/687	121.1	123.42	6/PVC
LC-12A	101.9	1875/730	122.4	124.64	6/SS
LC-13A	99.6	1883/779	123.4	125.55	4/FG
LC-14	101.9	1875/827	123.0	124.08	6/PVC
LC-15A	103.4	1900/858	122.3	124.38	6/SS
LC-16A	80.4	1860/303	116.9	119.09	6/SS
LC-17A	81.7	1858/258	116.8	119.08	6/SS
LC-18	75.3	1931/1217	114.4	116.78	8/PVC
LC-19A	68.3	1958/1087	119.8	121.92	4/FG
LC-20	178.7	1998/378	122.4	124.09	6/PVC
LC-21	92.6	1617/992	121.5	123.79	8/PVC
LC-22	92.2	1594/892	122.8	125.15	8/PVC
LC-23	89.8	1550/738	120.6	122.93	8/PVC
LC-24	90.8	1545/640	123.2	125.42	8/PVC

(1) RES (LA) Plant Datum Elevations (subtract 3.09 ft. from Plant Datum to obtain NGVD).
(2) Casing elevations represent reference points for total depth measurements. Last survey conducted on 10/16/95.
(3) Well Diameter/Casing Material/ (i.e., PVC: Polyvinyl Chloride CS: Carbon Steel SS: Stainless Steel FG: Fiberglass)
* Total well depth (in feet) measured from top of well casing.

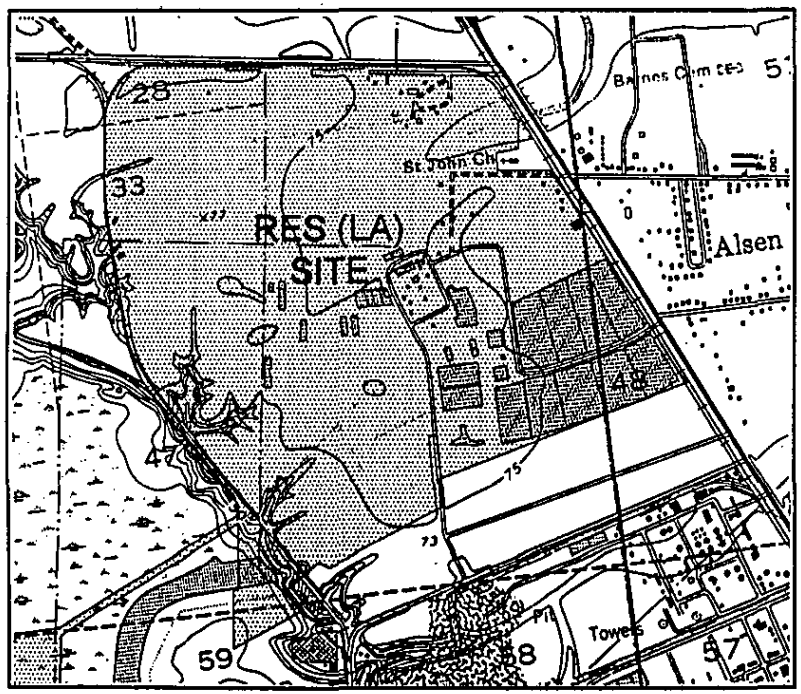
TABLE 8
LEACHATE COLLECTION AND LEAK DETECTION
WELL CONSTRUCTION DETAILS - CELL 717
LAD 010 395 127-CP-4
ROLLINS ENVIRONMENTAL SERVICES (LA), INC.
BATON ROUGE, LOUISIANA

WELL NO.	TOTAL DEPTH*	PLANT COORD. NORTH/EAST	GROUND ELEV.[1]	CASING ELEV.[2]	CONSTRUCT.[3]
			LEACHATE COLLECTION WELLS		
LC-25	80.9	1861/229	117.6	119.83	6/SS
LC-26	82.8	1904/227	117.6	119.88	6/SS
			LEAK DETECTION WELLS		
LD-4	124	1889/103	86.5	87.76	6/PVC
LD-5	88	1998/1332	80.4	81.99	8/PVC
LD-6	145	1686/1162	83.4	85.94	8/PVC

(1) RES (LA) Plant Datum Elevations (subtract 3.09 ft. from Plant Datum to obtain NGVD).
(2) Casing elevations represent reference points for total depth measurements. Last survey conducted on 10/16/95.
(3) Well Diameter/Casing Material/ (i.e., PVC: Polyvinyl Chloride CS: Carbon Steel SS: Stainless Steel FG: Fiberglass)
* Total well depth (in feet) measured from top of well casing.



VICINITY MAP
REF: USGS 7.5 Minute Quadrangle Map
#150 Scotlandville, La. Dated 1980
SCALE: 1" = 2000'



Rollins
Environmental Services (LA) Inc.
LAD010395127-P

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aquaterra
A GREAT LAKES CHEMICAL CORPORATION COMPANY

DRAWN BY:	CHECKED BY:	DATE:	PROJECT NO:
SDM		11/03/95	888057

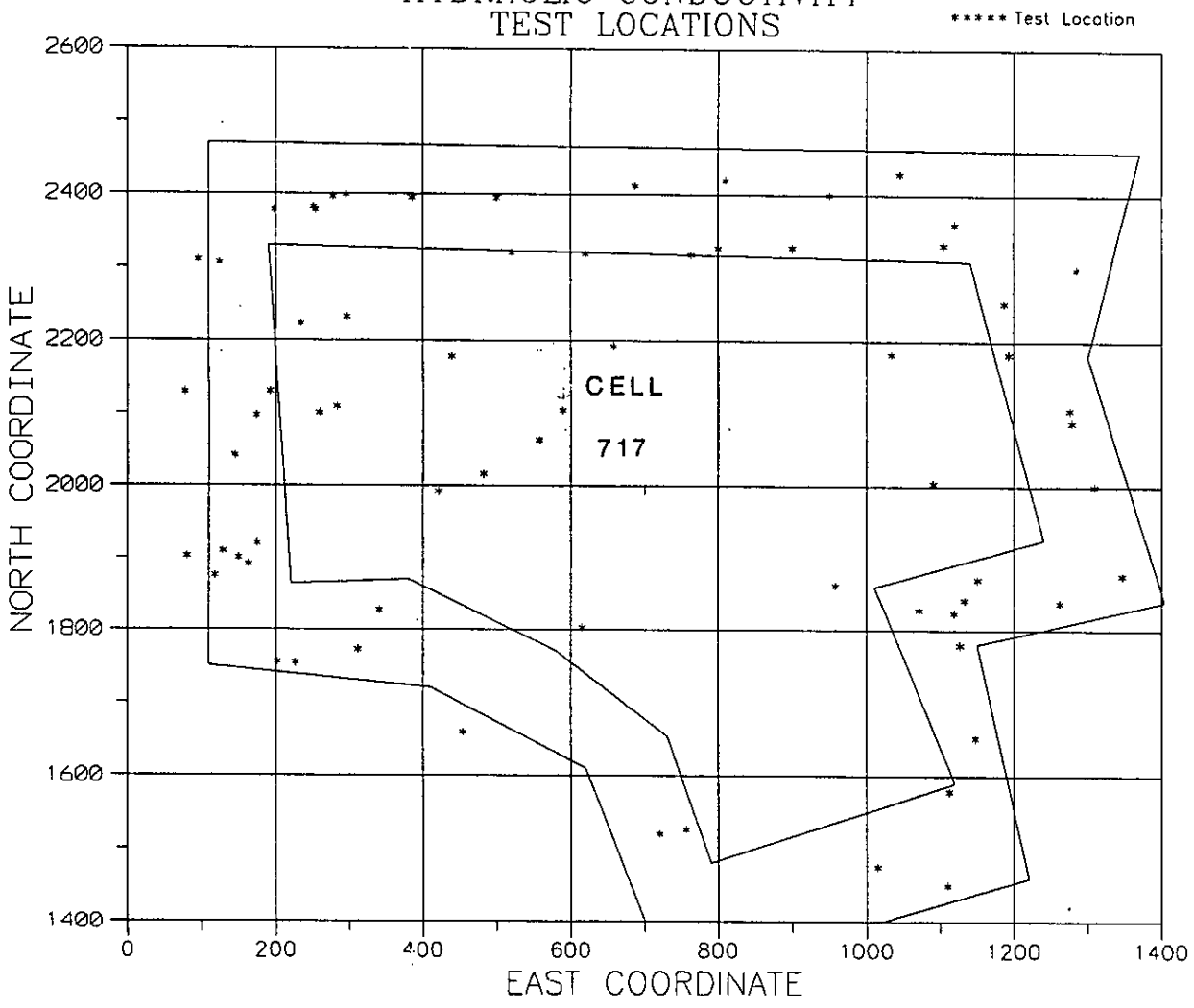
REPORT REF: CONSTRUCTION QUALITY ASSURANCE REPORT
CLAY CAP - LANDFILL 717

FIGURE TITLE: SITE LOCATION MAP

FIG. NO. 1

Revision: 1
C:\ROLLINS\87B052\SITE.DWG - A-1055

HYDRAULIC CONDUCTIVITY TEST LOCATIONS



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LAD010395127-P

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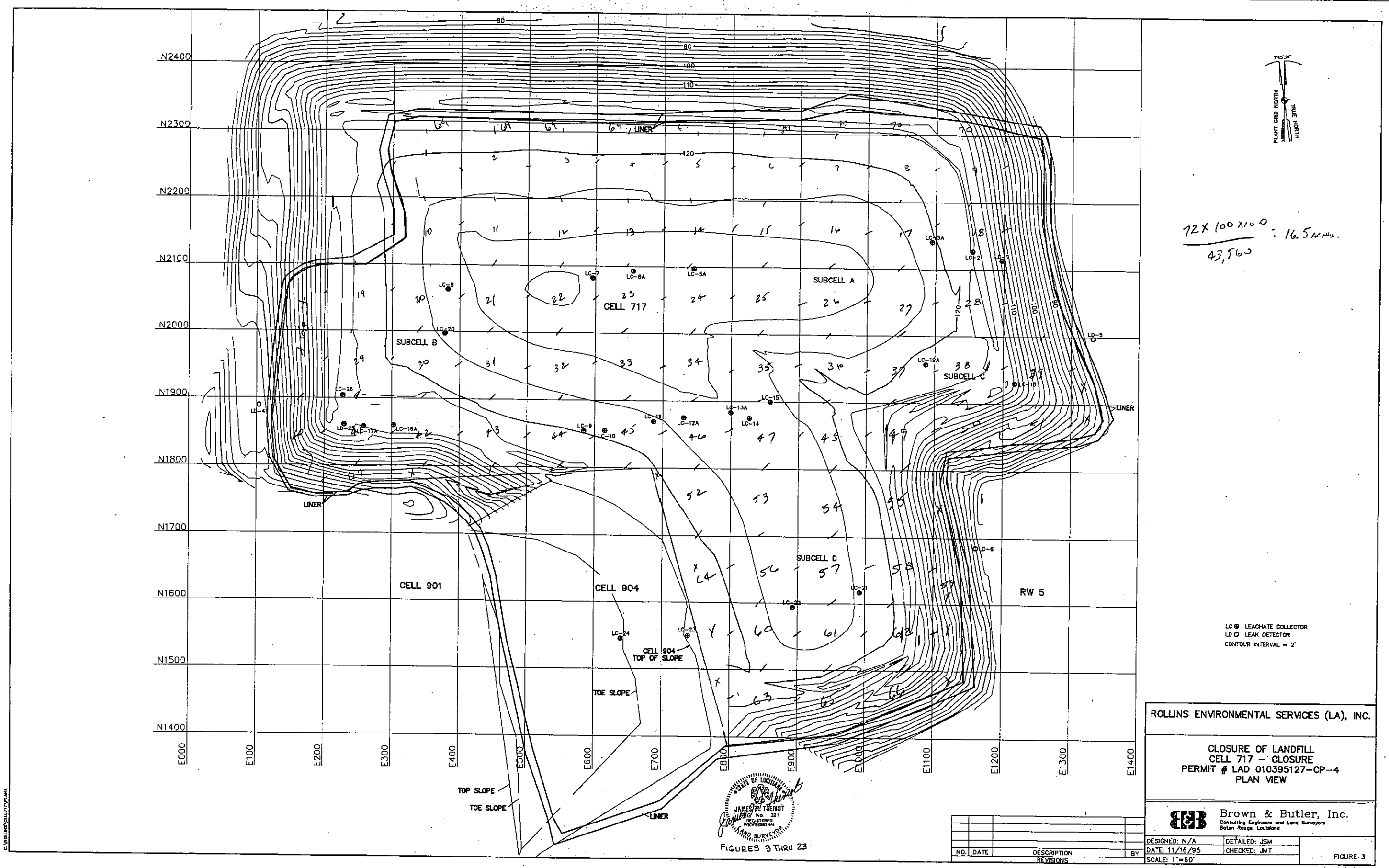
DRAWN BY:	CHECKED BY:	DATE:	PROJECT NO:
SDM		11/03/95	878052

REPORT REF: CONSTRUCTION QUALITY ASSURANCE REPORT CLAY CAP - LANDFILL 717

FIGURE TITLE: HYDRAULIC CONDUCTIVITY LOCATION MAP

FIG. NO. 2

Revision: 2
C:\ROLLINS\878052\HYCONTB.DWG -- A--1054



FIGURES 3 THRU 23

NO.	DATE	DESCRIPTION REVISIONS	BY

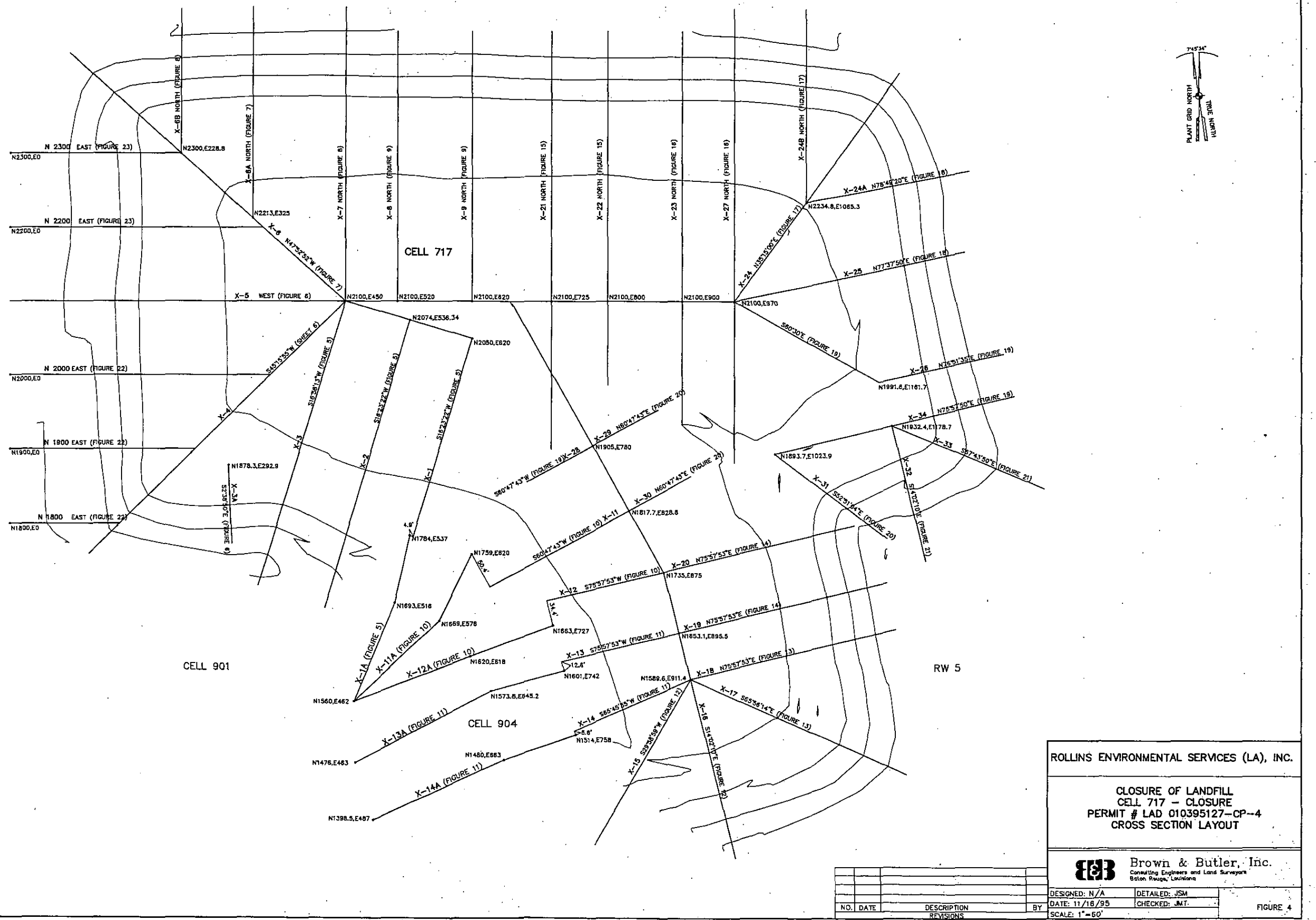
ROLLINS ENVIRONMENTAL SERVICES (LA), INC.

CLOSURE OF LANDFILL
CELL 717 – CLOSURE
PERMIT # LAD 010395127-CP-4
PLAN VIEW

Brown & Butler, Inc.
Consulting Engineers and Land Surveyors
Baton Rouge, Louisiana

DESIGNED: N/A	DETAILED: JSM
DATE: 11/16/95	CHECKED: JMT
SCALE: 1"=60'	FIGURE-3

C:\ROLLINS\CELL717\PLAN4



NOTE: CROSS SECTION 10 NOT USED

C:\PROJECTS\CELL717\LAYOUT

NO.	DATE	DESCRIPTION	BY
		REVISIONS	

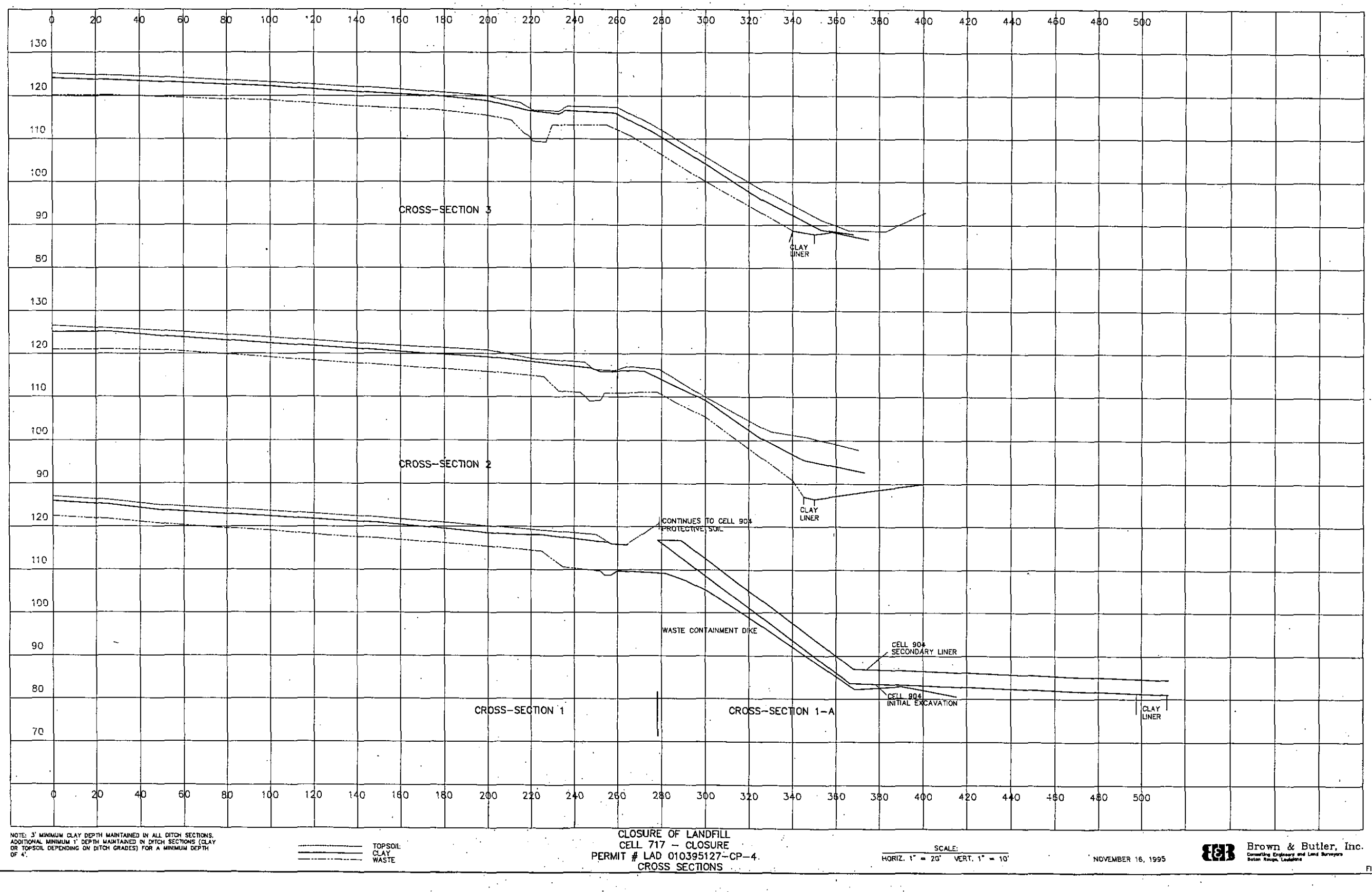
ROLLINS ENVIRONMENTAL SERVICES (LA), INC.

CLOSURE OF LANDFILL
CELL 717 – CLOSURE
PERMIT # LAD 010395127-CP-4
CROSS SECTION LAYOUT

Brown & Butler, Inc.
Consulting Engineers and Land Surveyors
Baton Rouge, Louisiana

DESIGNED: N/A	DETAILED: JSM
DATE: 11/18/95	CHECKED: JMT.
SCALE: 1"=60'	

FIGURE 4



NOTE: 3' MINIMUM CLAY DEPTH MAINTAINED IN ALL DITCH SECTIONS. ADDITIONAL MINIMUM 1' DEPTH MAINTAINED IN DITCH SECTIONS (CLAY OR TOPSOIL DEPENDING ON DITCH GRADES) FOR A MINIMUM DEPTH OF 4'.

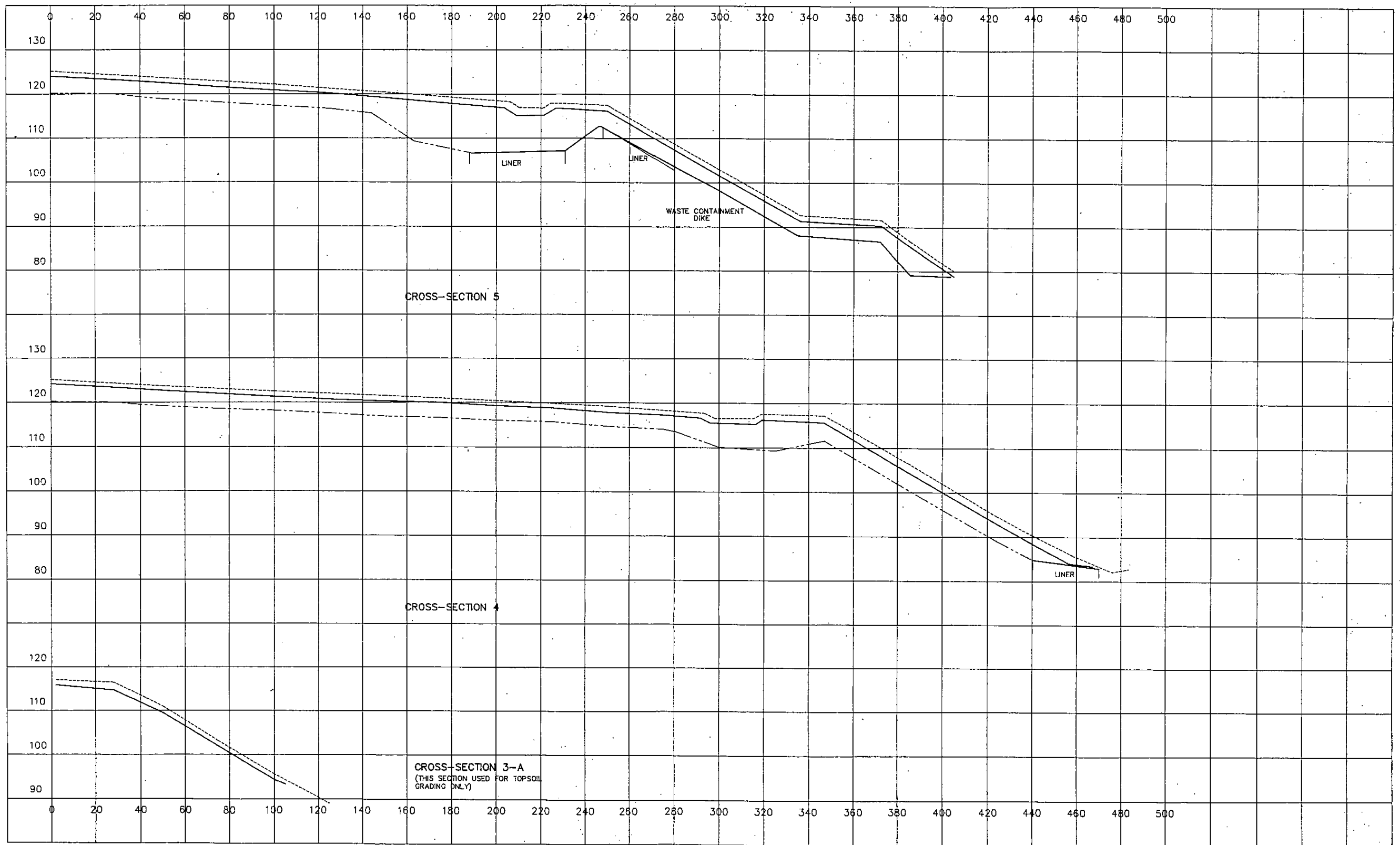
CLOSURE OF LANDFILL
CELL 717 – CLOSURE
PERMIT # LAD 010395127-CP-4.
CROSS SECTIONS

SCALE:
HORIZ. 1" = 20' VERT. 1" = 10'

NOVEMBER 16, 1995

Brown & Butler, Inc.
Consulting Engineers and Land Surveyors
Baton Rouge, Louisiana

FIGURE 5



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TOPSOIL
CLAY
WASTE

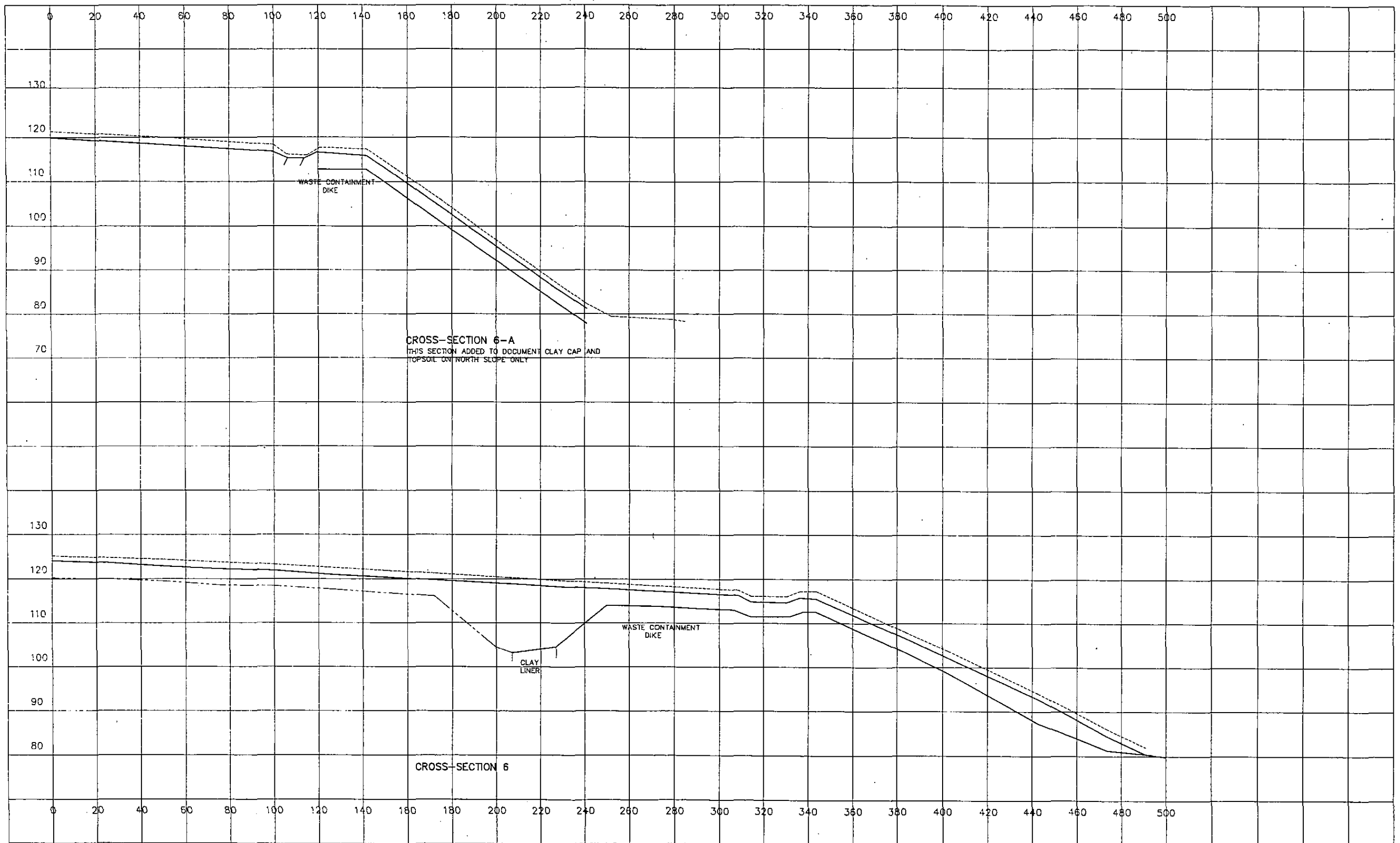
CLOSURE OF LANDFILL
CELL 717 – CLOSURE
PERMIT # LAD 010395127-CP-4
CROSS SECTIONS

SCALE:
HORIZ. 1" = 20' VERT. 1" = 10'

NOVEMBER 16, 1995

Brown & Butler, Inc.
Consulting Engineers and Land Surveyors
Baton Rouge, Louisiana

FIGURE 6



NOTE: 3' MINIMUM CLAY DEPTH MAINTAINED IN ALL DITCH SECTIONS. ADDITIONAL MINIMUM 1' DEPTH MAINTAINED IN DITCH SECTIONS (CLAY OR TOPSOIL DEPENDING ON DITCH GRADES) FOR A MINIMUM DEPTH OF 4'.

TOPSOIL
CLAY
WASTE

CLOSURE OF LANDFILL
CELL 717 – CLOSURE
PERMIT # LAD 010395127-CP-4
CROSS SECTIONS

SCALE:
HORIZ. 1" = 20' VERT. 1" = 10'

NOVEMBER 16, 1995

Brown & Butler, Inc.
Consulting Engineers and Land Surveyors
Baton Rouge, Louisiana

FIGURE 7

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CLOSURE OF LANDFILL
CELL 717 - CLOSURE
PERMIT # LAD 010395127-CP-4
CROSS SECTIONS

SCALE:
HORIZ. 1" = 20' VERT. 1" = 10'

NOVEMBER 16, 1995

Brown & Butler, Inc.
Consulting Engineers and Land Surveyors
Baton Rouge, Louisiana

FIGURE 8

NOTE: 3' MINIMUM CLAY DEPTH MAINTAINED IN ALL DITCH SECTIONS
ADDITIONAL MINIMUM 1' DEPTH MAINTAINED IN DITCH SECTIONS (CLAY OR TOPSOIL DEPENDING ON DITCH GRADES) FOR A MINIMUM DEPTH OF 4'.

TOPSOIL
CLAY
WASTE

CROSS-SECTION 6-B
THIS SECTION ADDED TO DOCUMENT CLAY CAP AND TOPSOIL ON WEST SLOPE ONLY

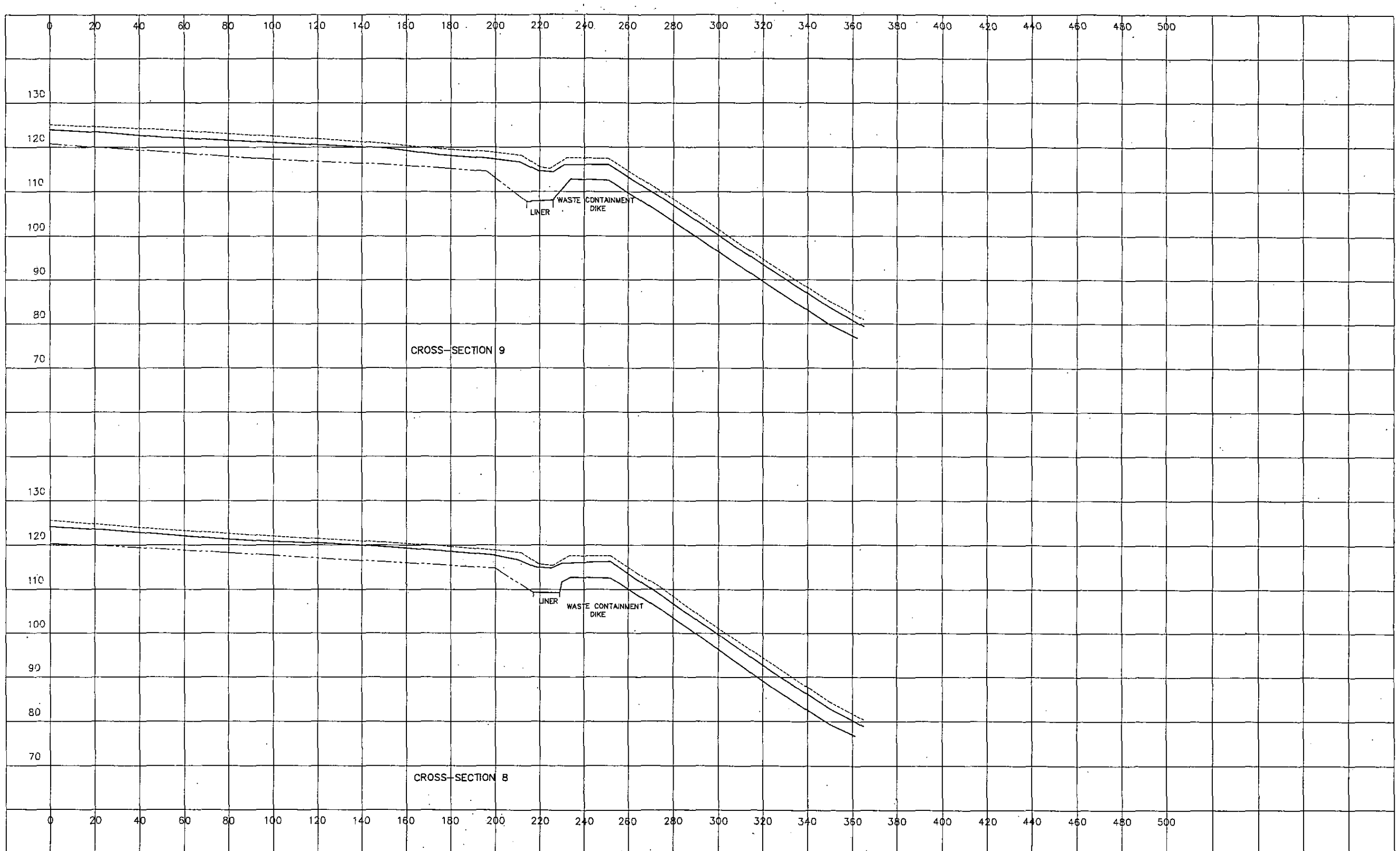
WASTE CONTAINMENT DIKE

CROSS-SECTION 7

LINER
WASTE CONTAINMENT DIKE

0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420 440 460 480 500

70 80 90 100 110 120 130



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TOPSOIL
CLAY
WASTE

CLOSURE OF LANDFILL
CELL 717 – CLOSURE
PERMIT # LAD 010395127-CP-4
CROSS SECTIONS

SCALE:
HORIZ. 1" = 20' VERT. 1" = 10'

NOVEMBER 16, 1995

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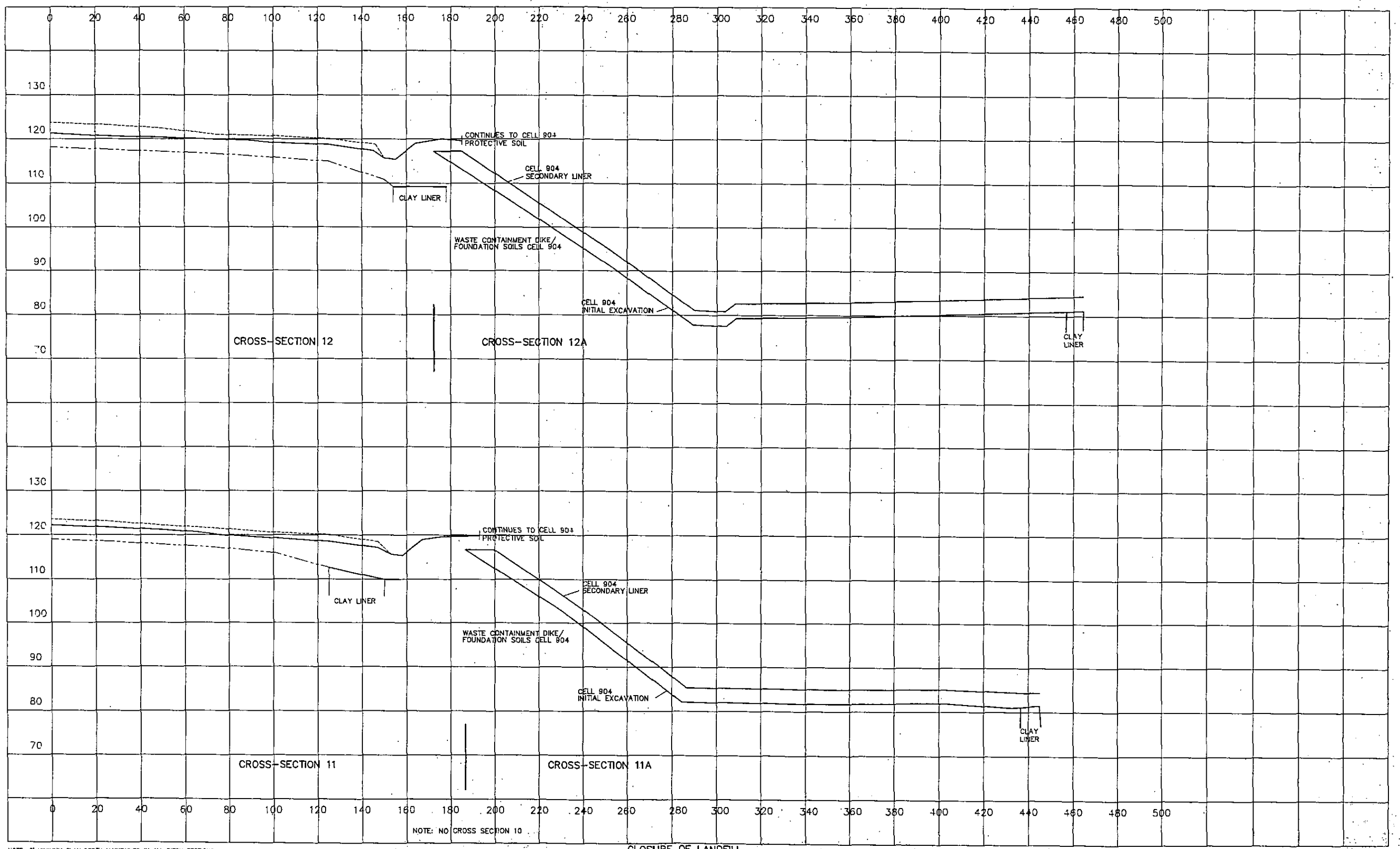
FIGURE 9



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TOPSOIL
CLAY
WASTE

CLOSURE OF LANDFILL
CELL 717 – CLOSURE
PERMIT # LAD 010395127-CP-4
CROSS SECTIONS

SCALE:
HORIZ. 1" = 20' VERT. 1" = 10'

NOVEMBER 16, 1995

Brown & Butler, Inc.
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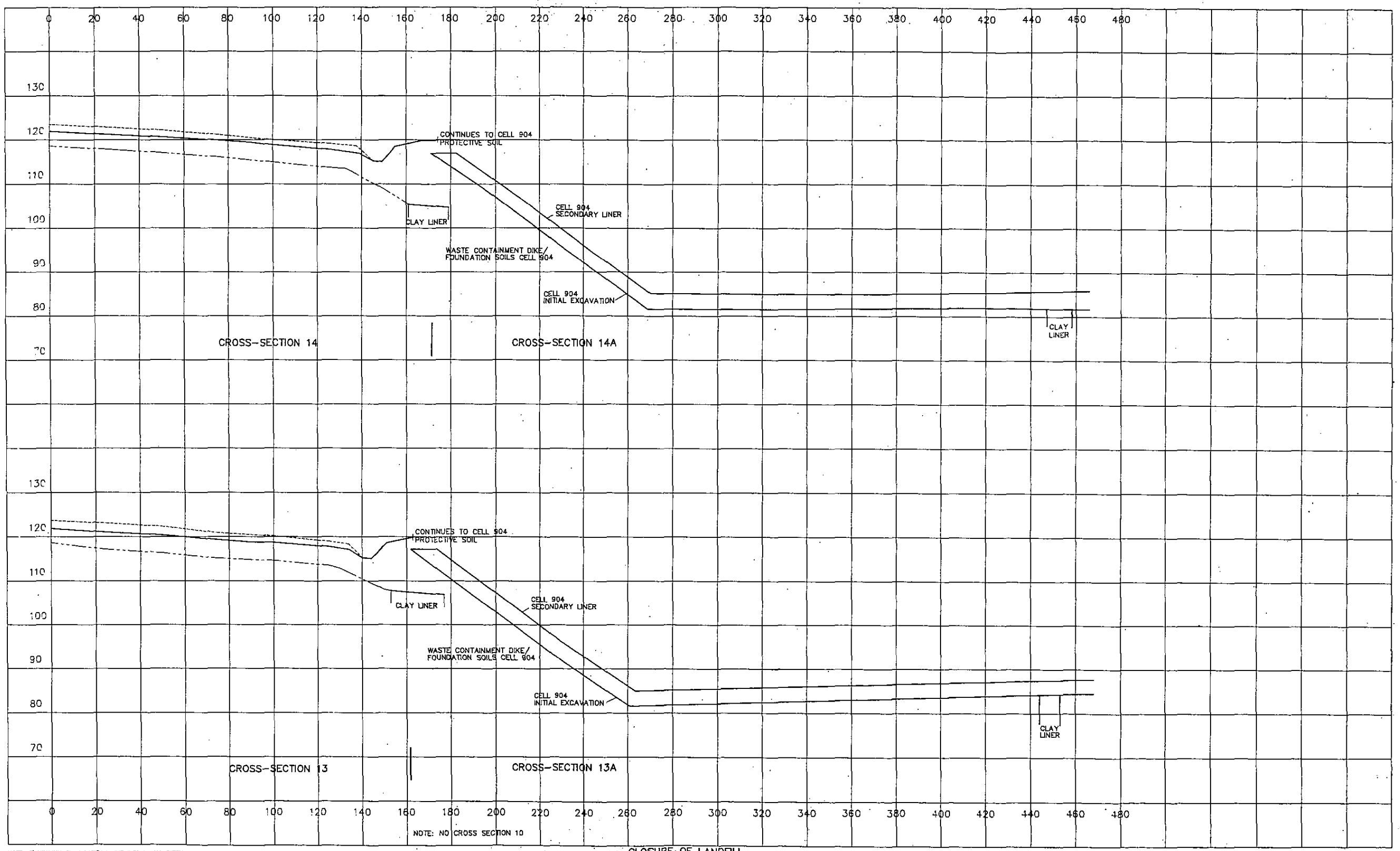
Baton Rouge, Louisiana

FIGURE 10



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TOPSOIL
CLAY
WASTE

CLOSURE OF LANDFILL
CELL 717 – CLOSURE
PERMIT # LAD 010395127-CP-4
CROSS SECTIONS

SCALE:
HORIZ. 1" = 20' VERT. 1" = 10'

NOVEMBER 16, 1995

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Baton Rouge, Louisiana

FIGURE 11

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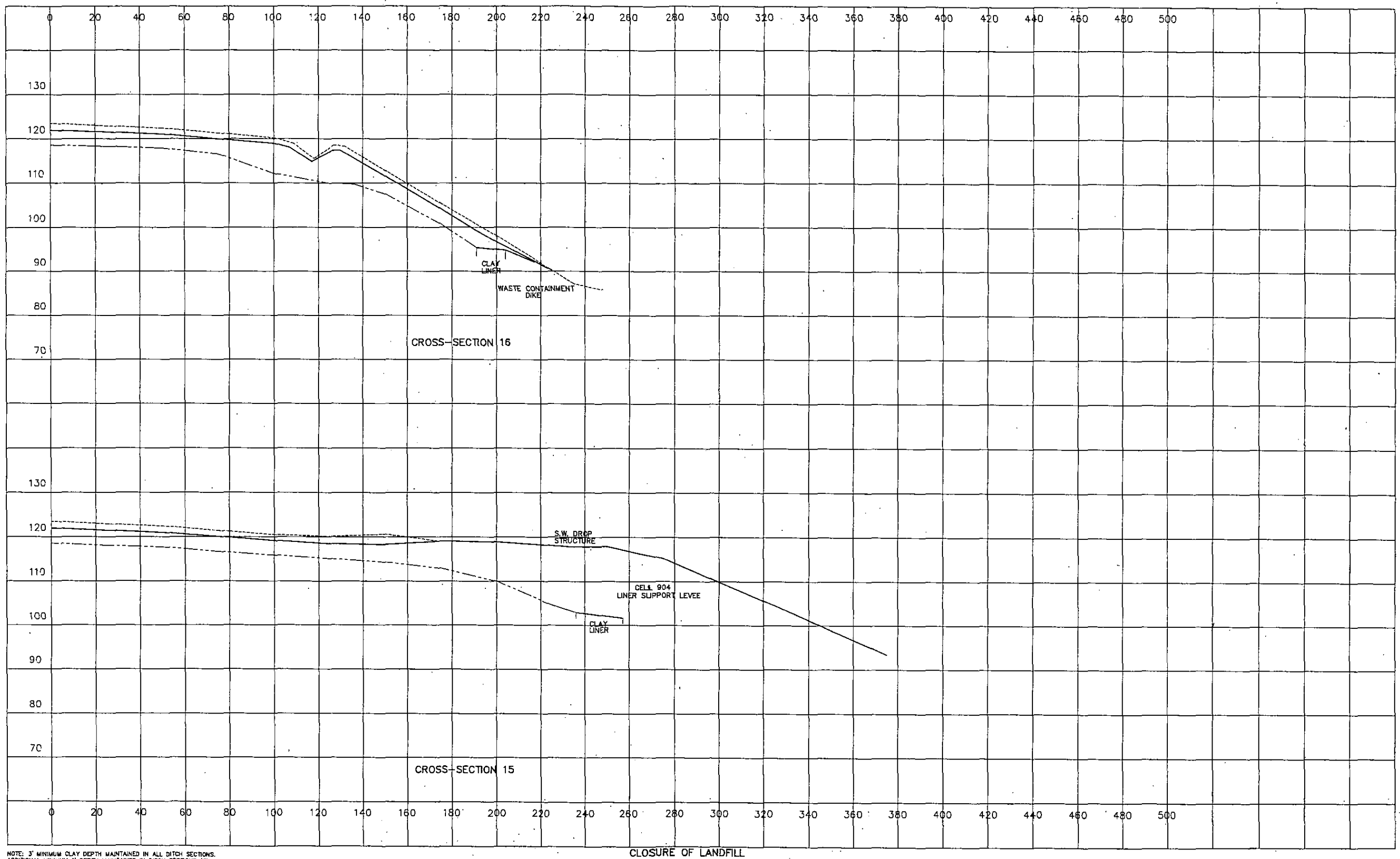

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TOPSOIL
CLAY
WASTE

CLOSURE OF LANDFILL
CELL 717 – CLOSURE
PERMIT # LAD 010395127-CP-4
CROSS SECTIONS

SCALE:
HORIZ. 1" = 20' VERT. 1" = 10'

NOVEMBER 16, 1995

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Baton Rouge, Louisiana

FIGURE 12

NOTE: 3' MINIMUM CLAY DEPTH MAINTAINED IN ALL DITCH SECTIONS.
ADDITIONAL MINIMUM 1' DEPTH MAINTAINED IN DITCH SECTIONS (CLAY OR TOPSOIL DEPENDING ON DITCH GRADES) FOR A MINIMUM DEPTH OF 4'.

TOPSOIL
CLAY
WASTE

CLOSURE OF LANDFILL
CELL 717 - CLOSURE
PERMIT # LAD 010395127-CP-4
CROSS SECTIONS

SCALE:
HORIZ. 1" = 20' VERT. 1" = 10'

NOVEMBER 16, 1995

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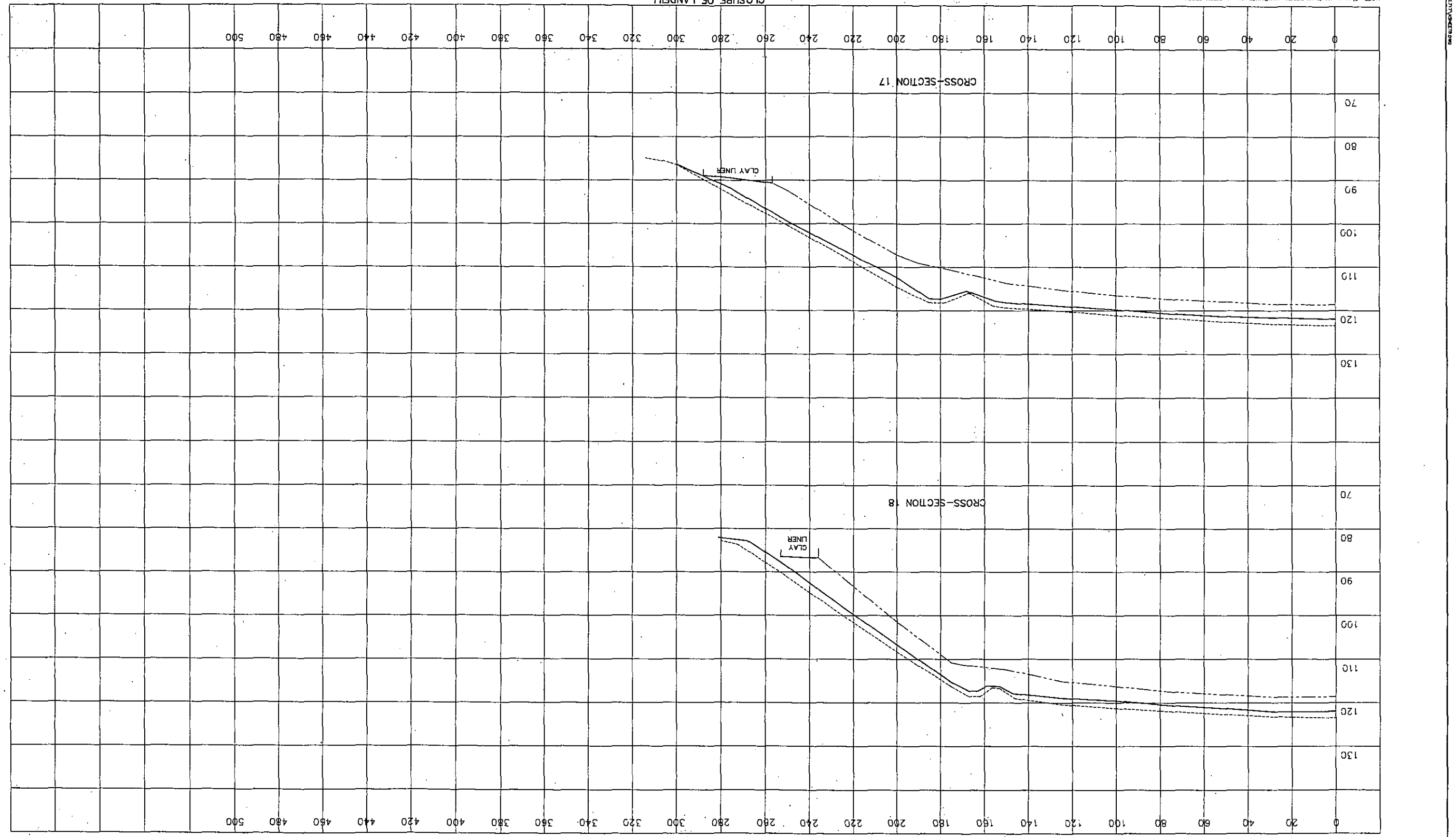
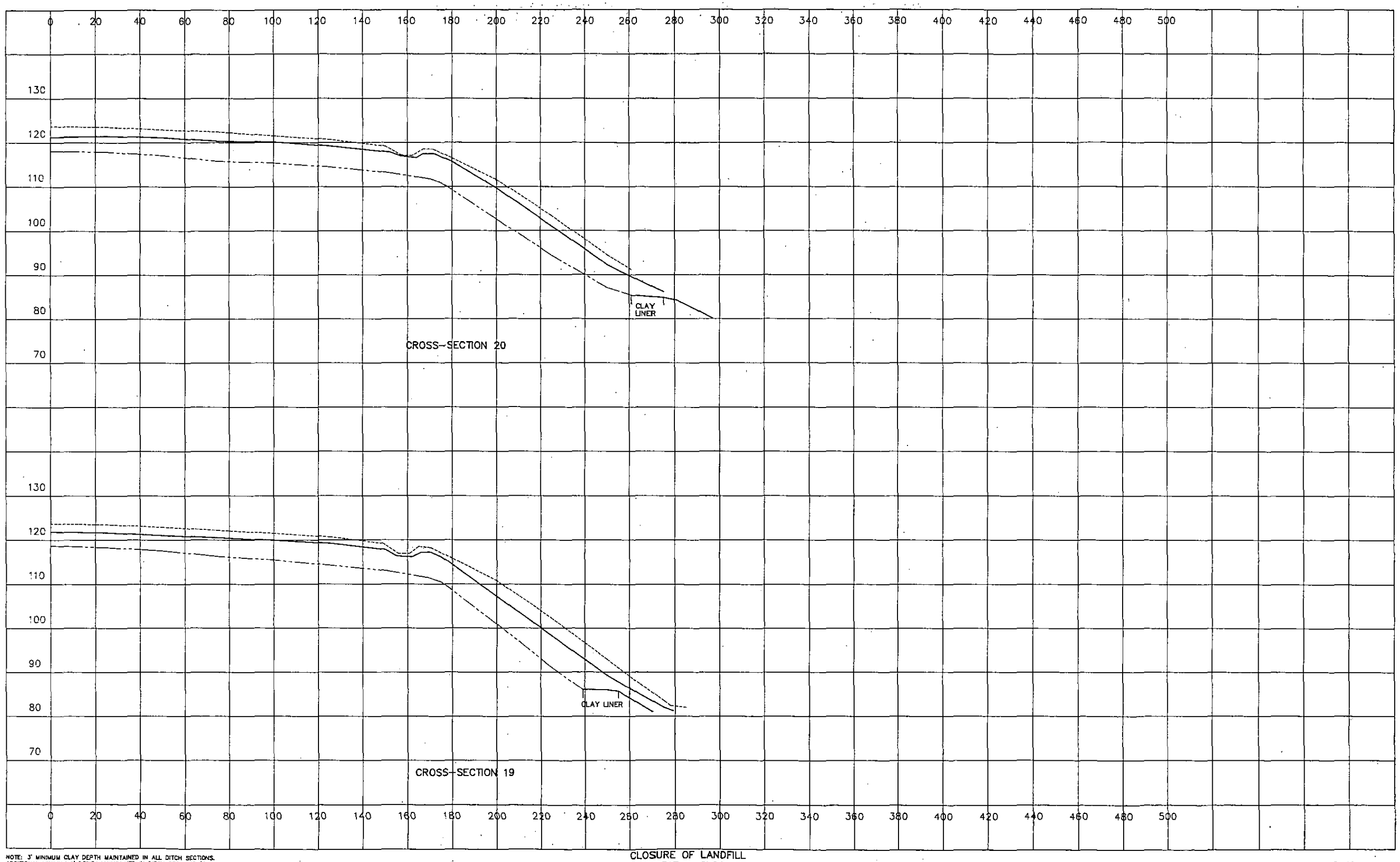
FIGURE 13





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TOPSOIL
CLAY
WASTE

CLOSURE OF LANDFILL
CELL 717 – CLOSURE
PERMIT # LAD 010395127-CP-4
CROSS SECTIONS

SCALE:
HORIZ. 1" = 20' VERT. 1" = 10'

NOVEMBER 16, 1995

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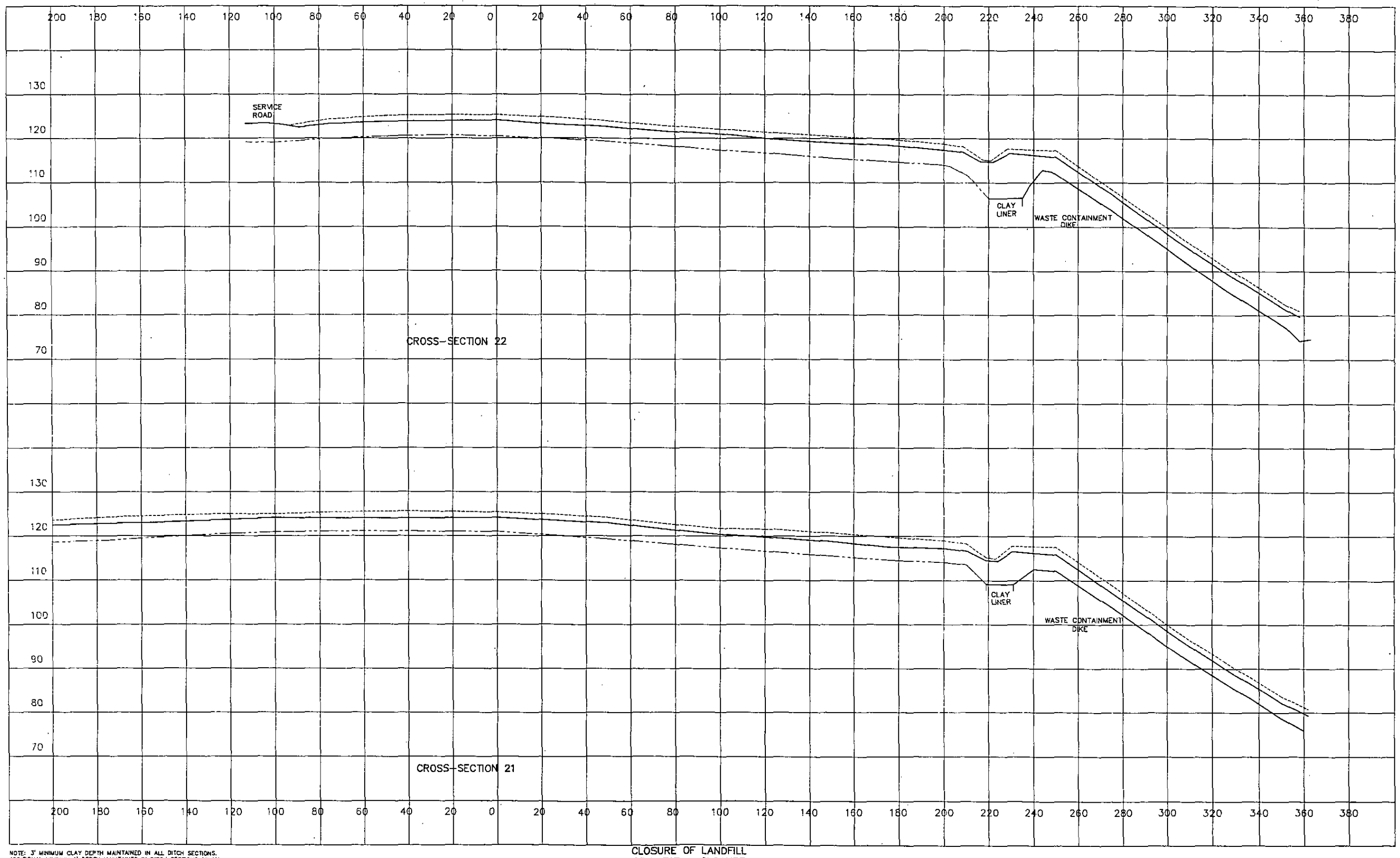
Baton Rouge, Louisiana

FIGURE 14



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TOPSOIL
CLAY
WASTE

CLOSURE OF LANDFILL
CELL 717 – CLOSURE
PERMIT # LAD 010395127-CP-4
CROSS SECTIONS

SCALE:
HORIZ. 1" = 20' VERT. 1" = 10'

NOVEMBER 16, 1995

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FIGURE 15

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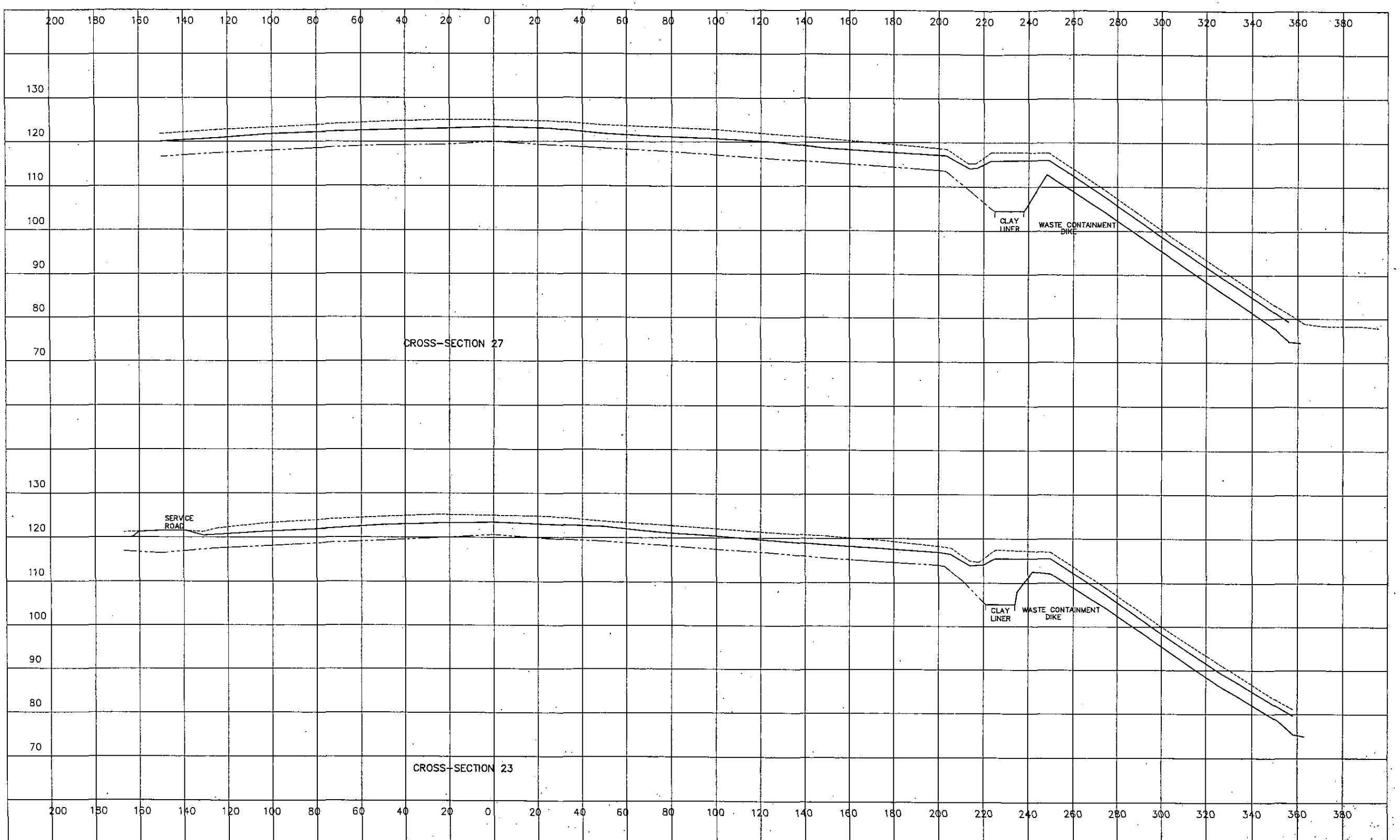

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TOPSOIL
CLAY
WASTE

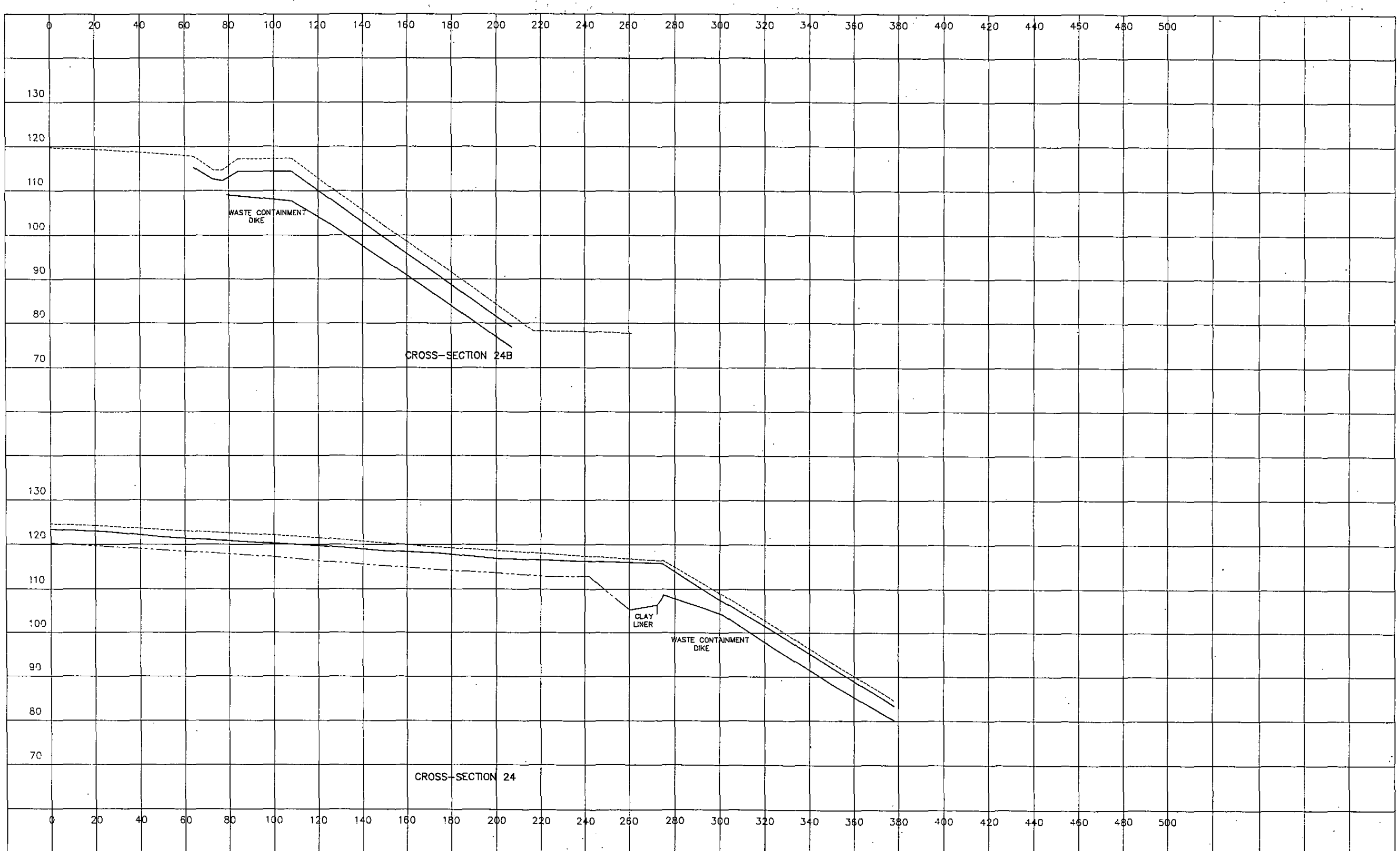
CLOSURE OF LANDFILL
CELL 717 – CLOSURE
PERMIT # LAD 010395127-CP-4
CROSS SECTIONS

SCALE:
HORIZ. 1" = 20' VERT. 1" = 10'

NOVEMBER 16, 1995

Brown & Butler, Inc.
Consulting Engineers and Land Surveyors
Baton Rouge, Louisiana

FIGURE 16



NOTE: 3' MINIMUM CLAY DEPTH MAINTAINED IN ALL DITCH SECTIONS. ADDITIONAL MINIMUM 1' DEPTH MAINTAINED IN DITCH SECTIONS (CLAY OR TOPSOIL DEPENDING ON DITCH GRADES) FOR A MINIMUM DEPTH OF 4'.

TOPSOIL
CLAY
WASTE

CLOSURE OF LANDFILL
CELL 717 – CLOSURE
PERMIT # LAD 010395127-CP-4
CROSS SECTIONS

SCALE:
HORIZ. 1" = 20' VERT. 1" = 10'

NOVEMBER 16, 1995

Brown & Butler, Inc.
Consulting Engineers and Land Surveyors
Baton Rouge, Louisiana

FIGURE 17

NOTE: 3' MINIMUM CLAY DEPTH MAINTAINED IN ALL DITCH SECTIONS. ADDITIONAL MINIMUM 1' DEPTH MAINTAINED IN DITCH SECTIONS (CLAY ON TOPSOIL DEPENDING ON DITCH GRADES) FOR A MINIMUM DEPTH OF 4'.

TOPSOIL
CLAY
WASTE

CLOSURE OF LANDFILL
CELL 717 - CLOSURE
PERMIT # LAD 010395127-CP-4
CROSS SECTIONS

SCALE
HORIZ. 1" = 20' VERT. 1" = 10'

NOVEMBER 16, 1995

Brown & Butler, Inc.
Consulting Engineers and Land Surveyors
Baton Rouge, Louisiana

FIGURE 18

CROSS-SECTION 24-A

CROSS-SECTION 25

CLAY LINER

0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420 440 460 480 500

70 80 90 100 110 120 130

NOTE: 3' MINIMUM CLAY DEPTH MAINTAINED IN ALL DITCH SECTIONS.
ADDITIONAL MINIMUM 1' DEPTH MAINTAINED IN DITCH SECTIONS (CLAY OR TOPSOIL DEPENDING ON DITCH GRADES) FOR A MINIMUM DEPTH OF 4'.

TOPSOIL
CLAY
WASTE

CLOSURE OF LANDFILL
CELL 717 - CLOSURE
PERMIT # LAD 010395127-CP-4
CROSS SECTIONS

SCALE:
HORIZ. 1" = 20' VERT. 1" = 10'

NOVEMBER 16, 1995

Brown & Buller Inc.
Consulting Engineers and Land Surveyors
Baton Rouge, Louisiana

FIGURE 19

CROSS-SECTION 26

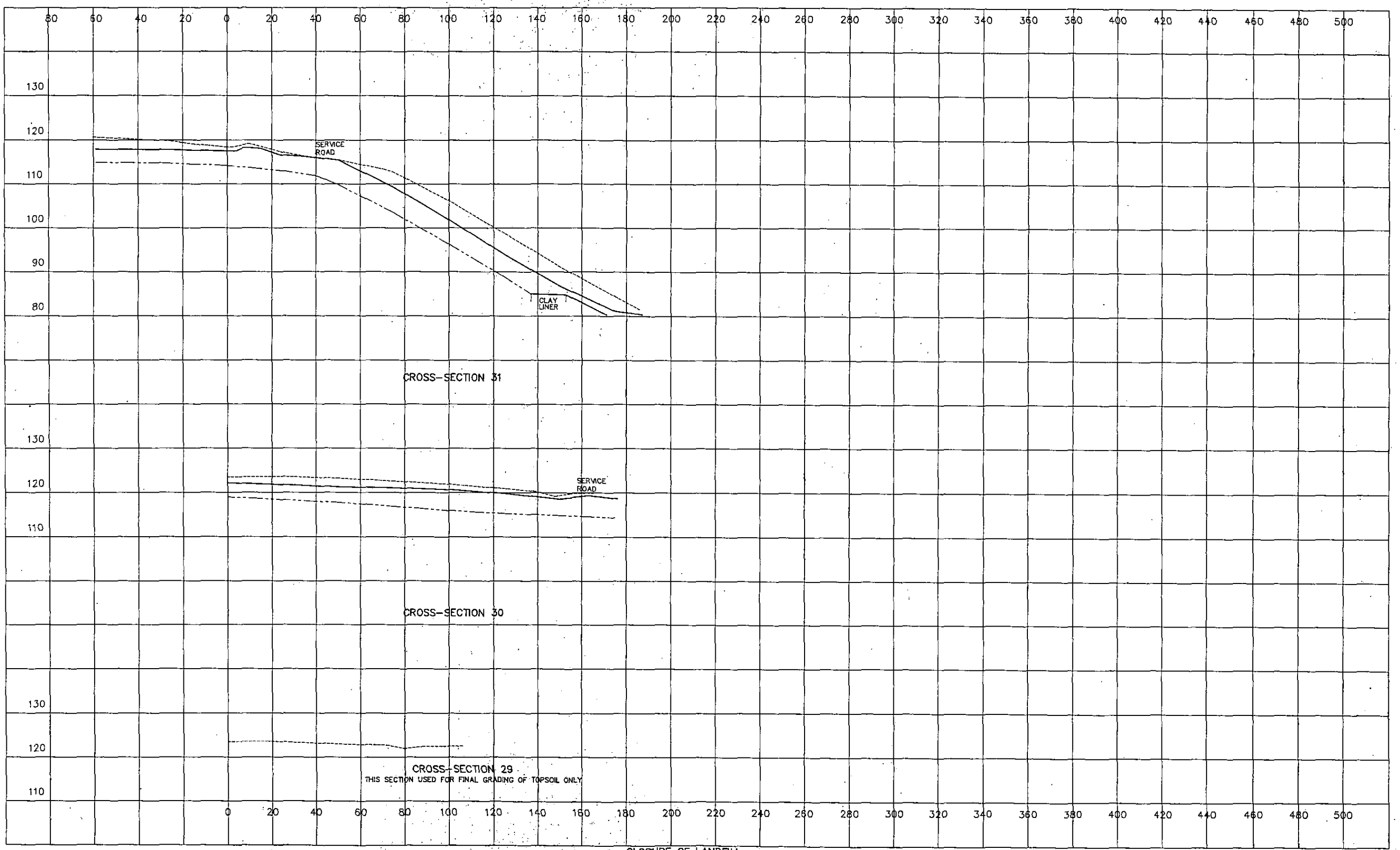
CLAY LINER

CROSS-SECTION 34

CLAY LINER

CROSS-SECTION 28

THIS SECTION USED FOR FINAL GRADING OF TOPSOIL ONLY



NOTE: 3' MINIMUM CLAY DEPTH MAINTAINED IN ALL DITCH SECTIONS. ADDITIONAL MINIMUM 1' DEPTH MAINTAINED IN DITCH SECTIONS (CLAY OR TOPSOIL DEPENDING ON DITCH GRADES) FOR A MINIMUM DEPTH OF 4'.

TOPSOIL
CLAY
WASTE

CLOSURE OF LANDFILL
CELL 717 - CLOSURE
PERMIT # LAD 010395127-CP-4
CROSS SECTIONS

SCALE:
HORIZ. 1" = 20' VERT. 1" = 10'

NOVEMBER 16, 1995

Brown & Butler, Inc.
Consulting Engineers and Land Surveyors
Baton Rouge, Louisiana

FIGURE 20

G:\ROLLER\CELL717\XSECTS1.DWG

NOTE: 3' MINIMUM CLAY DEPTH MAINTAINED IN ALL DITCH SECTIONS.
ADDITIONAL MINIMUM 1' DEPTH MAINTAINED IN DITCH SECTIONS (CLAY OR TOPSOIL DEPENDING ON DITCH GRADES) FOR A MINIMUM DEPTH OF 4'.

TOPSOIL
CLAY
WASTE

CLOSURE OF LANDFILL
CELL 717 – CLOSURE
PERMIT # LAD 010395127–CP–4
CROSS SECTIONS

SCALE:
HORIZ. 1" = 20' VERT. 1" = 10'

NOVEMBER 16, 1995

Brown & Butler, Inc.
Consulting Engineers and Land Surveyors
Baton Rouge, Louisiana

FIGURE 21

CROSS–SECTION 32

CLAY LINER

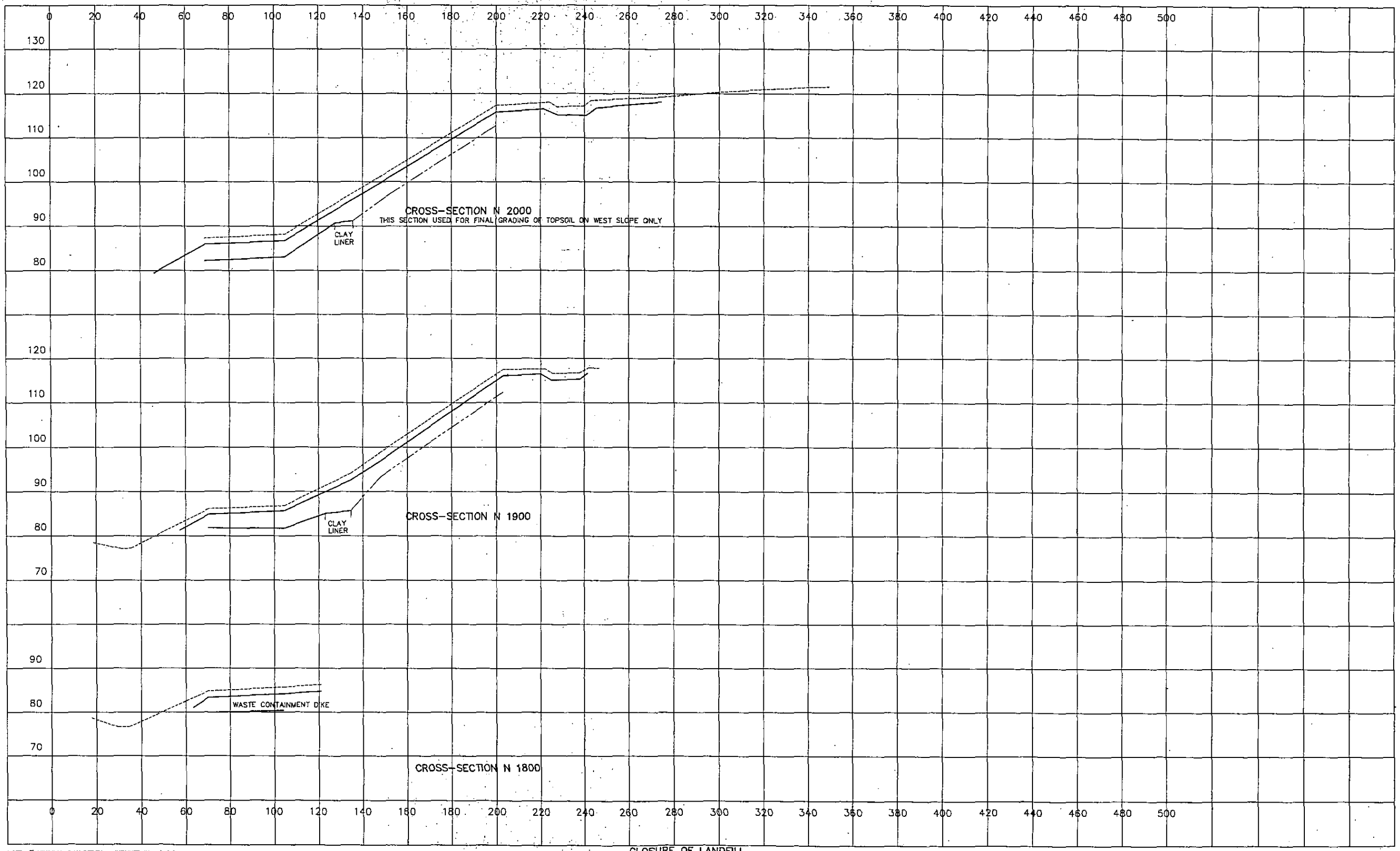
SERVICE ROAD

CROSS–SECTION 33

CLAY LINER

40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420 440 460 480 500

70 80 90 100 110 120 130



NOTE: 3' MINIMUM CLAY DEPTH MAINTAINED IN ALL DITCH SECTIONS. ADDITIONAL MINIMUM 1' DEPTH MAINTAINED IN DITCH SECTIONS (CLAY OR TOPSOIL DEPENDING ON DITCH GRADES) FOR A MINIMUM DEPTH OF 4'.

TOPSOIL
CLAY
WASTE

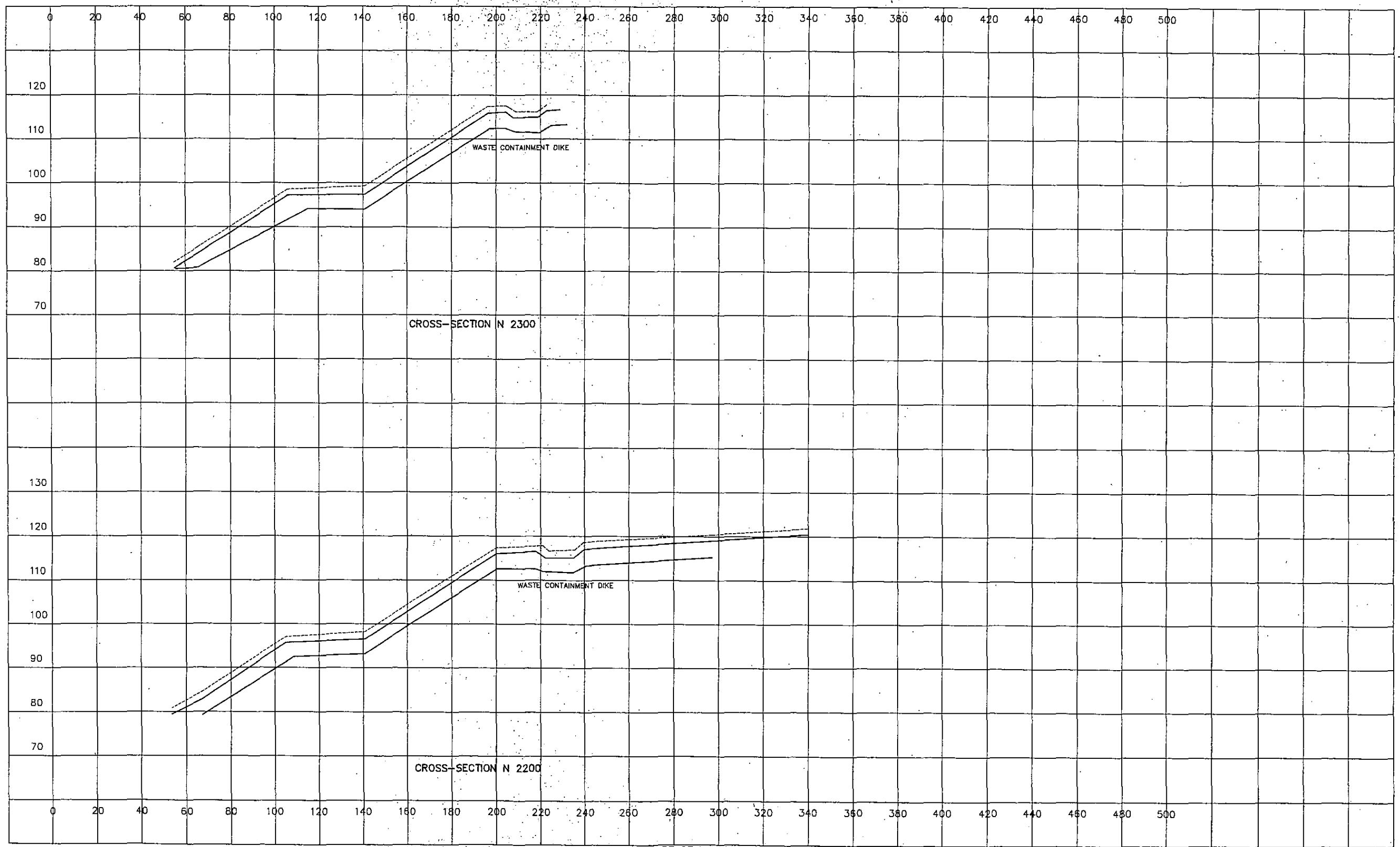
CLOSURE OF LANDFILL
CELL 717 – CLOSURE
PERMIT # LAD 010395127-CP-4
CROSS SECTIONS

SCALE:
HORIZ. 1" = 20' VERT. 1" = 10'

NOVEMBER 16, 1995

Brown & Butler, Inc.
Consulting Engineers and Land Surveyors
Baton Rouge, Louisiana

FIGURE 22



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TOPSOIL
CLAY
WASTE

CLOSURE OF LANDFILL
CELL 717 – CLOSURE
PERMIT # LAD 010395127-CP-4
CROSS SECTIONS

SCALE:
HORIZ. 1" = 20' VERT. 1" = 10'

NOVEMBER 16, 1995

Brown & Butler, Inc.
Consulting Engineers and Land Surveyors
Baton Rouge, Louisiana

FIGURE 23

APPENDIX A

PERTINENT CORRESPONDENCE

HISTORY OF LANDFILL CELL 717 CLOSURE
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

FEBRUARY 17, 1987 CONSENT DECREE WITH LDEQ:

- Sections G.1.b. & G.1.c.: Task 1.b. - Develop and submit closure plan within 75 days.
  - May 4, 1987 - Submitted closure plan to LDEQ.
  - June 9, 1987 - Approval letter from Ground Water Protection Division of LDEQ.
  - March 25, 1988 - Submitted addendum to closure plan as requested by Permits Section of LDEQ.
  - August 25, 1988 - Telecon with Jeff Meyers of Permits Section on this date indicated approval of Landfill Cell Closure Plan.
  - September 2, 1988 - Public Notice of Closure Plan.
  - October 27, 1988 - LDEQ Closure Permit LAD 010395127-CP4 for Landfill Cell 717. Expiration Date 4/26/89 - 180 days.
  - April 12, 1989 - RES(LA) submits 180 day extension request (No.1) to LDEQ.
  - May 2, 1989 - LDEQ approves 180 day extension request (No. 1). Expiration Date 10/23/89.
  - September 8, 1989 - RES(LA) submits 180 day extension request (No.2) to LDEQ.
  - January 25, 1990 - LDEQ approves 180 day extension request (No. 2). Expiration Date 4/11/90.
  - February 16, 1990 - Request for site inspection of Cell 904 and transmittal of engineer's certification that the project is complete.
  - February 22, 1990 - Transmittal of Earthwork and Geosynthetics Construction QA/QC Reports for Cell 904.
  - March 19, 1990 - RES(LA) submits 180 day extension request (No. 3) to LDEQ.
  - April 9, 1990 - LDEQ approves 180 day extension request (No. 3). Expiration Date 10/8/90.
  - September 13, 1990 - RES(LA) submits 180 day extension request (No. 4) to LDEQ.

- October 15, 1990 - LDEQ approves 180 day extension request (No. 4). Expiration Date 4/8/91.
- March 8, 1991 - RES(LA) submits 180 day extension request (No. 5) to LDEQ.
- April 15, 1991 - LDEQ approves 180 day extension request (No. 5). Expiration Date 10/8/91.
- September 16, 1991 - RES(LA) submits 180 day extension request (No. 6) to LDEQ.
- October 17, 1991 - LDEQ approves 180 day extension request (No. 6). Expiration Date 4/8/92.
- March 10, 1992 - RES(LA) submits 180 day extension request (No. 7) to LDEQ.
- September 4, 1992 - LDEQ approves 180 day extension request (No. 7). Expiration Date 10/5/92.
- September 22, 1992 - RES(LA) submits 180 day extension request (No. 8) to LDEQ.
- October 28, 1992 - LDEQ approves 180 day extension request (No. 8). Expiration Date 4/2/93.
- March 1, 1993 - RES(LA) submits 180 day extension request (No. 9) to LDEQ.
- April 14, 1993 - LDEQ approves 180 day extension request (No. 9). Expiration Date 9/29/93.
- September 14, 1993 - RES(LA) submits 180 day extension request (No. 10) to LDEQ.
- October 26, 1993 - LDEQ approves 180 day extension request (No. 10). Expiration Date 3/28/94.
- February 28, 1994 - RES(LA) submits 180 day extension request (No. 11) to LDEQ.
- April 26, 1994 - LDEQ approves 180 day extension request (No. 11). Expiration Date 9/21/94.

- September 2, 1994 - RES(LA) submits 180 day extension request (No. 12) to LDEQ.
- October 3, 1994 - LDEQ approves 180 day extension request (No. 12). Expiration Date 3/21/95.
- February 24, 1995 - RES(LA) submits 180 day extension request (No. 13) to LDEQ.
- March 16, 1995 - LDEQ approves 180 day extension request (No. 13). Expiration Date 9/17/95.
- September 6, 1995 - RES(LA) submits 60 day extension request (No. 14) to LDEQ.
- October 26, 1995 - LDEQ approves 60 day extension request (No. 14). Expiration Date 11/16/95.

Rollins Environmental Services (LA) Inc.
P.O. Box 73877, Baton Rouge, Louisiana 70897 (504) 778-1234

Rollins

May 4, 1987

Mr. George H. Cramer, II
Administrator
Groundwater Protection Division
Louisiana Department of Environmental Quality
P. O. Box 44274
Baton Rouge, LA 70804

RE: WORK PLAN - REVISED INITIAL CLOSURE PLAN FOR TASK 1(b) - CONSENT DECREE DATED FEBRUARY 17, 1987

Dear Mr. Cramer:

We are submitting herein for your review and approval four (4) copies of our revised initial closure plan for landfill Cell 717 as required for Task 1 (b) of the Consent Decree dated February 17, 1987. This communication fulfills the 75 day time limit for submittal of this document.

Should you have any questions or require any further information, please contact us at your earliest convenience.

Sincerely,

Thomas G. Bramlette
Vice President

TGB/JCA/DTH/MC/jd

Attachment: Revised Initial Closure Plan - Task 1 (b) - 4 copies
1 set of full size (24"x36") drawings

cc: Louisiana Department of Justice - 1 copy
Mayor/President - City Parish - 1 copy

Louisiana Department of Environmental Quality

12

MARTHA A. MADDEN
SECRETARY

OFFICE OF SOLID AND HAZARDOUS WASTE

JOHN KOURY
ASSISTANT SECRETARY

June 9, 1987

Mr. Thomas G. Bramlette, Vice President
Rollins Environmental Services (LA), Inc.
Post Office Box 73877
Baton Rouge, Louisiana 70897

Dear Mr. Bramlette:

RE: Task 1 (b) (d) and (e) of the February 17, 1987 Decree

The Ground Water Protection Division has reviewed the documents submitted May 4 and May 18, 1987, pertaining to the consent decree. The material is acceptable and considered in compliance with the requirements of the decree.

Certain modifications, however, to the written and implemented plan for closure of Cell 717, Task 1 (b), shall be required and will be addressed by our Permitting Section under separate correspondence.

The Department appreciates your continued cooperation in this matter.

Sincerely,

GEORGE R. CRAMER, II
Administrator

GHC:LML:cer

cc: Joan Albritton, Hazardous Waste Div.
Roland Huson, Legal Council

ENV./LEGAL DISTRIBU

- ✓ T. BRAMLE
- ✓ D. HAGERM
- ✓ B. CLEMMO
- ✓ J. PENTON
- ✓ J. ARBUTH
- ✓ RCRA
- ✓ D. TRENT
- ✓ F. WILLIS
- ✓ M. CONVIS
- ✓ R. YENNER
- ✓ L. LEAL
- ✓ T. HARMES

March 25, 1988

Mr. George H. Cramer, II
Administrator
Groundwater Protection Division
Louisiana Department of Environmental Quality
P. O. Box 44274
Baton Rouge, LA 70804

RE: ADDENDUM I - CLOSURE AND POST-CLOSURE COST ESTIMATES - REVISED INITIAL CLOSURE PLAN FOR LANDFILL CELL 717 - TASK 1(b) CONSENT DECREE DATED FEBRUARY 17, 1987
RES (LA) SUBMITTAL DATED MAY 4, 1987
LDEQ RESPONSE DATED JUNE 9, 1987

Gentlemen:

We are submitting herein for your review and approval Addendum I to the Revised Initial Closure Plan for Landfill Cell 717 which was submitted on May 4, 1987 under Task 1(b) of the February 17, 1987 Consent Decree. This addendum contains the closure and post-closure cost estimates for this facility. Mr. Jeffery Meyers of the Permits Section had requested this information recently to complete their review of this plan.

Should you have any questions or require further information, please contact us at your earliest convenience. Your continued cooperation on this Consent Decree is appreciated.

Sincerely,

Thomas C. Bramlette
Vice President

TGB/JCA/MJH/MC/jd

Attachment - Addendum I - Revised Initial Closure Plan

cc: Mr. Jeffery Meyers - Permits Section, LDEQ
Louisiana Department of Justice
Mayor, City/Parish

MEMO TO FILE

FROM: John Arbuthnot

DATE: September 2, 1988

SUBJECT: AUGUST 25, 1988 TELECON BETWEEN DAVE HAGERMAN AND JEFF MEYERS - PERMITS SECTION, LDEQ
CLOSURE PLAN - LANDFILL CELL 717 - CONSENT ORDER

Mr. Jeff Meyers called Dave Hagerman on August 25, 1988 to advise that he had reviewed and approved the subject closure plan. (Note this plan was submitted on May 4, 1987 to the Groundwater Protection Division- Approved by GWPD on June 9, 1987. Cost data submitted to LDEQ on March 25, 1988.) Mr. Meyers indicated the next step was to put out a public notice. He does not expect any problems or opposition. Should be similar to surface impoundment closure plans.

John C. Arbuthnot, P.E.
Engineering Manager

JCA/jd

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY

BUDDY ROEMER
GOVERNOR

CC: Higgs
Bramlette
Arbuthnot
Original: Joel Penton
9-6-88
PTO

PAUL H. TEMPLET, Ph.D.
SECRETARY

September 2, 1988

RECEIVED

SEP 06 1988

OFFICE OF THE VICE PRESIDENT
RES (LA) INC.

Mr. Thomas G. Bramlette, Vice President
Rollins Environmental Services(LA), Inc.
Post Office Box 73877
Baton Rouge, Louisiana 70897

RE: Rollins, Baton Rouge (LAD 010395127)
Closure Status, Public Notice

Dear Mr. Bramlette:

The Louisiana Department of Environmental Quality-Hazardous Waste Division (LDEQ-HWD) has reviewed your revised closure plan of March 25, 1988 for the closure of the Landfill Cell #717, and finds it to be acceptable. However, a thirty (30) day period to allow public comment must be allowed before you continue closure. Public notice will commence on or about the first week in September after which you will be notified of any needed modifications. If no comments are received from the public notice, then the closure permit will be granted.

If you have any questions concerning this matter, please contact J. P. Meyers at (504) 342-4685.

Sincerely,

for GLENN A. MILLER, Administrator
Hazardous Waste Division

GAM:JPM:jal

cc: Sam Becker, EPA
Randy Brown, EPA
Carl Bolden, EPA

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY

BUDDY ROEMER
GOVERNOR

PAUL H. TEMPLET, Ph.D.
SECRETARY

cc: Bramlette
Higgs
Arbuthnot
Original: Penton
11/9/88
pte

October 27, 1988

RECEIVED
NOV 0 9 1988
OFFICE OF THE VICE PRESIDENT
RES (LA) INC.

CERTIFIED - RETURN RECEIPT REQUESTED (P 567 871 258)

Mr. Thomas G. Bramlette
Vice President
Rollins Environmental Services (LA) Incorporated
P. O. Box 73877
Baton Rouge, Louisiana 70897

RE: Closure Permit (LAD 010395127-CP4)
Rollins, Baton Rouge

Dear Mr. Bramlette:

Please find attached your closure permit for the Landfill Cell #717 closure plan dated March 25, 1988.

We ask that you contact Mr. Tom Patterson of this office as soon as possible of your intended construction start date.

Your cooperation during our review and processing of the closure plan is greatly appreciated.

If you have any questions concerning this matter, please contact J. P. Meyers at (504) 342-4685.

Sincerely,

Timothy W. Hardy

TIMOTHY W. HARDY
Assistant Secretary

TWH:JPM:jal

Enclosure

cc: Mr. Sam Becker, EPA Region VI
Mr. Randy Brown, EPA Region VI
Mr. Carl Bolden, EPA Region VI

CLOSURE PERMIT

Permit Issued: October 27, 1988
Permit Number: LAD 010395127-CP4
Expiration Date: April 26, 1989

Pursuant to Act 449 of the 1979 Legislature, the Rules and Regulations of the Hazardous Waste Management Program, and in reliance on statements and representations heretofore made in the application, an interim permit is issued authorizing Rollins Environmental Services, Baton Rouge, Louisiana, to close the Landfill Cell #717, represented with the approved closure plan, dated March 25, 1985.

Additional limitations and conditions applicable to this permit:

1. This permit applies only to the Rollins TSD facility located on Highway 61, Alsen, Louisiana, East Baton Rouge Parish.

2. This permit is subject to all applicable rules, regulations and orders of the Hazardous Waste Regulations now or hereafter in effect.

3. Alteration of any representation within the Approved Closure Plan without prior written notification to the Department and subsequent approval will cause this permit to be null and void.

4. Any and all certifications and supporting documentation regarding the Closure Plan must be submitted to the Department in writing.

5. Any request for extensions must be submitted to the Department, in writing, at least ten (10) days in advance of the April 26, 1989 deadline.

6. Failure to comply with any of the provisions, terms or conditions of the closure plan or this permit will constitute a violation of the Act.

7. This permit may be modified at any time by the Secretary upon receipt of any information (e.g., inspects the facility, receives information submitted by the permittee as required in the permit, receives a request for modification, or conducts a review of the file), that justifies the application of different conditions.

Paul H. Templet, Ph.D., Secretary
Department of Environmental Quality

10/21/88
DATE

ROLLINS
ENVIRONMENTAL SERVICES (LA) INC.

P.O. Box 74137, Baton Rouge, LA 70874-4137, 504/778-1234 General Offices, 504/778-1242 Sales Office

April 12, 1989

Mr. Timothy W. Hardy
Assistant Secretary
Louisiana Department of Environmental Quality
Office of Solid and Hazardous Waste
P. O. Box 44307
Baton Rouge, Louisiana 70804-4307

Re: Closure Permit (LAD 010395127-CP4) Dated October 27, 1988
Rollins Environmental Services (LA) Inc. (RES (LA))

Dear Mr. Hardy:

The subject closure permit authorizes RES(LA) to close Landfill Cell 717 according to an approved closure plan dated March 25, 1988. Closure activities to date have included placement of clay cap and topsoil and construction of drainage ditches in portions of the landfill.

The quantity of earthwork activities required to complete this project are such that it is unlikely this closure will be completed within the 180 days allowed by the permit. Installation of a large box culvert and relocation of roadway is also required before finalizing the clay cap and topsoil. Completion of this type work is further hampered during the winter and spring by frequent rains and poor drying conditions.

Condition No. 5 requires that any request for extensions must be submitted to the Department, in writing, at least ten (10) days in advance of the April 26, 1989 deadline. For the reasons described above, RES(LA) respectfully requests an extension of 180 days to continue the closure of Cell 717 under Closure Permit No. LAD 010395127-CP4.

Your prompt attention to this request would be greatly appreciated. Should you have any questions regarding these activities, please do not hesitate to call.

Sincerely,

Thomas G. Bramlette
Vice President

TGB/JCA/MJH/MC/dh

cc: Jeffery Meyers - Permits Section

State of Louisiana

Department of Environmental Quality

BUDDY ROEMER
Governor

PAUL TEMPLET
Secretary

cc: T. Bramlette
M. Higgs
J. Arbuthnot
Original: J. Penton
PTB 5/2/89

May 2, 1989

RECEIVED
MAY 0 8 1989
OFFICE OF THE VICE PRESIDENT
RES (LA) INC.

Posted 5/8/89 PTB

Mr. Thomas G. Bramlette
Vice-President
Rollins Environmental Services
Post Office Box 74137
Baton Rouge, Louisiana 70874-4137

RE: Rollins, Baton Rouge (LAD010395127-CP4)
Closure Status - 180 Day Closure Permit Extension for Completion of Closure for the Landfill Cell #717.

Dear Mr. Bramlette:

The Louisiana Department of Environmental Quality-Hazardous Waste Division (LDEQ-HWD) is in receipt of your letter dated April 12, 1989, requesting an additional 180-days for the competion of closure to your hazardous waste landfill cell.

Due to the time required to facilitate the closure schedule of this landfill cell, this Department concurs with the request for a 180-day extension to the April 26, 1989, deadline. Your new permit expiration date is now October 23, 1989.

Should you have any questions concerning this matter, please contact J. P. Meyers at (504) 342-4685.

Sincerely,

Timothy W. Hardy

TIMOTHY W. HARDY
Assistant Secretary

TWH:JPM:pgw

ROLLINS
ENVIRONMENTAL SERVICES (LA) INC.

P.O. Box 74137, Baton Rouge, LA 70874-4137, 504/778-1234 General Offices, 504/778-1242 Sales Office

September 8, 1989

Mr. Timothy W. Hardy
Assistant Secretary
Louisiana Department of Environmental Quality
Office of Solid and Hazardous Waste
P. O. Box 44307
Baton Rouge, Louisiana 70804-4307

Re: CLOSURE PERMIT (LAD 010395127-CP4) DATED JUNE 13, 1988 FOR LANDFILL CELL 717 - EXTENSION FOR COMPLETION OF CLOSURE DATED MAY 2, 1989
ROLLINS ENVIRONMENTAL SERVICES (LA) INC. (RES (LA))

Dear Mr. Hardy,

The purpose of this letter is to advise the Louisiana Department of Environmental Quality of the current status of closing Landfill Cell 717. During this 180 day extension of the subject closure permit, field work has continued on placement of clay cap, topsoil, and erosion protection. Field work during the months of May and June was limited because of excessive rainfall (37+ inches). Approximately 60% of the earthwork activities are complete. However, a great deal of work remains to be done before this major closure can be finalized. This includes drainage and road modifications and work associated with the Interim Measure Corrective Action Plan for Landfill Cells 619/719, which are located west and adjacent to Landfill Cell 717. This must be completed before clay capping can continue.

As a result, the quantity of field work remaining is such that completion of this task by the new permit expiration date of October 23, 1989 can not be achieved. In addition, report preparation and submittal of the closure certification must still be accomplished following completion of these field activities.

Condition No. 5 requires that any request for extensions must be submitted to the Department, in writing, at least ten (10) days in advance of the expiration date. For the reasons described above, RES(LA) respectfully requests an extension of 180 days to continue the closure of Cell 717 under Closure Permit No. LAD 010395127-CP4. I wish to point out it is likely that at least one additional extension will subsequently be required as well.

Your prompt attention to this request would be greatly appreciated. Should you have any questions regarding these activities, please do not hesitate to call.

Sincerely,

Thomas G. Bramlette
Vice President

TGB/JCA/MC/jd

cc: Dr. Yong Gho - Permits Section

State of Louisiana

Department of Environmental Quality

BUDDY ROEMER
Governor

January 25, 1990

PAUL TEMPLET
Secretary

CERTIFIED-RETURN RECEIPT REQUESTED (P 673 111 942)

RECEIVED
JAN 31 1990
OFFICE OF THE VICE PRESIDENT
RES (LA) INC.

Mr. Thomas Bramlette
Vice President
Rollins Environmental Services (LA) Inc.
P. O. Box 74137
Baton Rouge, Louisiana 70874-4137

Re: Rollins Environmental Services (LA), Inc.
(LAD 010395127-CP4)
Closure Status - 180 day Closure Permit
Extension for Closure of Landfill Cell 717

Dear Mr. Bramlette:

The Louisiana Department of Environmental Quality-Hazardous Waste Division (LDEQ-HWD) is in receipt of your letter dated September 8, 1989, requesting an additional 180 days for the completion of closure to your hazardous waste landfill cell 717.

Due to the time required to facilitate the closure schedule of the Landfill Cell 717, this Department concurs with the request for a 180 day extension to the OCtober 23, 1989 deadline. Your new permit expiration date is April 11, 1990.

Should you have any questions concerning this matter, please contact for Y.S. Goh at (504) 342-4685.

Sincerely,

Timothy W. Hardy
Assistant Secretary

cc: Arbuthnot
Hiss
TGB
Martin
file

TWH:YSG:jal

ROLLINS
ENVIRONMENTAL SERVICES (LA) INC.

P.O. Box 74137, Baton Rouge, LA 70874-4137, 504/778-1234 General Offices, 504/378-1242 Sales Office

RECEIVED
FEB 16 1990
Dept. of Environmental Quality
GEOTECHNICAL SECTION

February 16, 1990

Mr. Timothy W. Hardy
Assistant Secretary
Office of Solid and Hazardous Waste
Louisiana Department of Environmental Quality
P. O. Box 44307
Baton Rouge, LA 70804-4307

RE: REQUEST FOR SITE INSPECTION AND OPERATION PERMIT
CERTIFICATION OF COMPLETION - LANDFILL CELL 904
ROLLINS ENVIRONMENTAL SERVICES (LA) INC. PLANT SITE

Dear Mr. Hardy:

In accordance with LAC33:V-303I, this letter is to notify the Louisiana Department of Environmental Quality that construction has been completed, and to request final inspection of Landfill Cell 904, so that an Order to Proceed with operation of this unit can be issued.

Approval to construct Landfill Cell 904 was conveyed in your letter dated July 27, 1988. Construction began in late 1988 with some initial site preparation and proceeded until completion recently on February 12, 1990. The LDEQ (Groundwater Protection Division and subsequently the newly formed Geotechnical Group of the Hazardous Waste Division beginning on December 14, 1989) has been kept advised of the activities through the status reports submitted by RES (LA) on a bi-weekly basis. In fulfillment of the regulations referenced above, we have included a copy of our engineer's certification that the project is complete.

Your prompt attention to this request for final inspection and subsequent Order to Proceed would be greatly appreciated. Should you have any questions, please do not hesitate to call.

Sincerely,

George B Martin

George B. Martin
Vice President

GBM/JCA/MJH/MC/jd

cc: Glenn Miller Don Nugent Narendra Dave

ESPEY,
HUSTON &
ASSOCIATES, INC.
Engineering & Environmental Consultants

15 February 1990

Mr. George B. Martin
Vice President
Rollins Environmental Services (LA) Inc.
P.O. Box 74137
Baton Rouge, Louisiana 70874-4137

EH&A Job No. 6612

RE: Hazardous Waste Landfill - Cell 904

Dear Mr. Martin:

I hereby certify to the best of my knowledge and belief, that Cell 904 - Phase I improvements are complete and were built in accordance with the plans and specifications and the current state-of-practice. Authorization to construct Cell 904 was via a letter dated July 27, 1988 from the State of Louisiana, Department of Environmental Quality, Hazardous Waste Division.

The Cell 904 - Phase I improvements consist of the following:

- Foundation Soils
- Composite Secondary Liner System
- Leak Detection, Collection and Removal System
- Composite Primary Liner System
- Leachate Collection and Removal System
- Protective Soil Cover

This certification is being submitted in accordance with the requirements of the Louisiana Administrative Code, Title 33, Part V, Subpart 1, Chapter 3, Article 303.I.1. This certification with respect to completeness, is based on site visits made by the undersigned during the construction of Cell 904 and a review of the following construction quality assurance documents as prepared by Ware Lind Furlow Engineers, Inc.:

- Earthwork Construction Quality Assurance for Landfill Cell 904, dated February 13, 1990.

- Geosynthetic Construction Quality Assurance for Landfill Cell 904, dated February 13, 1990.

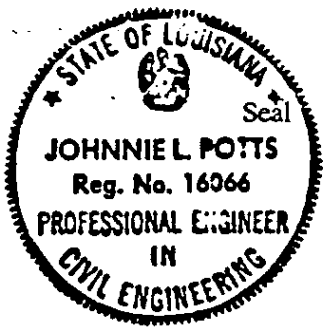
Should you have any questions, or need any additional information, do not hesitate to call.

Sincerely,

Johnnie L. Potts

Johnnie L. Potts, P.E.
Assistant Division Manager
Houston Division

JLP/jej



R E C E I P T

I hereby acknowledge receipt on behalf the Louisiana Department of Environmental Quality of a letter to Mr. Timothy W. Hardy from Mr. George B. Martin, Vice President, Rollins Environmental Services (LA) Inc. dated February 16, 1990 regarding Request for Site Inspection and Operation Permit Certification of Completion - Landfill Cell 904.

Joni Combs
Signature

Feb. 16, 1990
Date

ROLLINS
ENVIRONMENTAL SERVICES (LA) INC.

P.O. Box 74137, Baton Rouge, LA 70874-4137, 504/778-1234 General Offices, 504/778-1242 Sales Office

February 22, 1990

Mr. Glenn Miller
Administrator
Office of Solid and Hazardous Waste
Louisiana Department of Environmental Quality
P. O. Box 44307
Baton Rouge, LA 70804-4307

RE: EARTHWORK AND GEOSYNTHETICS CONSTRUCTION QA/QC REPORTS - LANDFILL CELL 904 - ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

Dear Mr. Miller:

As requested recently by Messrs. Dave and Durbin of the Geotechnical Section, we are transmitting herein copies of the subject reports which document the earthwork and geosynthetic construction for Landfill Cell 904.

We hope this information will assist you in the final inspection and review of this unit. Should you have any questions, please do not hesitate to call.

Sincerely,

George B Martin

George B. Martin
Vice President

GBM/JCA/MC/MJH/jd

Attachments: Earthwork Construction Quality Assurance for Landfill Cell 904 - February 13, 1990
Geosynthetics Construction Quality Assurance for Landfill Cell 904 - February 13, 1990

R E C E I P T

I hereby acknowledge receipt on behalf the Louisiana Department of Environmental Quality of a letter to Mr. Glenn Miller from Mr. George B. Martin, Vice President, Rollins Environmental Services (LA) Inc. dated February 22, 1990 regarding Earthwork and Geosynthetics Construction QA/QC Reports - Landfill Cell 904 along with a copy of each report.

Hope Harriman — Signature

2-22-90 — Date

ROLLINS
ENVIRONMENTAL SERVICES (LA) INC.

P.O. Box 74137, Baton Rouge, LA 70874-4137, 504/778-1234 General Offices, 504/778-1242 Sales Office

March 19, 1990

Mr. Timothy W. Hardy
Assistant Secretary
Louisiana Department of Environmental Quality
Office of Solid and Hazardous Waste
P. O. Box 44307
Baton Rouge, Louisiana 70804-4307

Re: REQUEST FOR EXTENSION - CLOSURE PERMIT (LAD 010395127-CP4)
DATED JUNE 13, 1988 FOR LANDFILL CELL 717
ROLLINS ENVIRONMENTAL SERVICES (LA) INC. (RES (LA))

Dear Mr. Hardy,

The purpose of this letter is to advise the Louisiana Department of Environmental Quality of the current status of closing Landfill Cell 717 and to request an extension to continue work activities. During this 180 day extension (beginning October 23, 1989) of the subject closure permit, field work has been limited primarily to the construction of drainage features (box culvert and drop structure). Earthwork activities has been minimal during these recent months because of rainy conditions (40"± 10/23/89 through 3/19/90) and poor drying conditions. Approximately 66% of the earthwork activities are complete.

Work remaining includes additional drainage, road modifications, and clay capping/topsoil placement. There is also work associated with Landfill Cells 619/719, located west and adjacent to Landfill Cell 717, which will affect the final closure. This must be completed before the clay capping of the west side can be finalized.

As a result, the quantity of field work remaining is such that completion of this task by the new permit expiration date of April 11, 1990 cannot be achieved. In addition, report preparation and submittal of the closure certification must still be accomplished following completion of these field activities.

Condition No. 5 requires that any request for extensions must be submitted to the Department, in writing, at least ten (10) days in advance of the expiration date. For the reasons described above, RES(LA) respectfully requests an extension of 180 days to continue the closure of Cell 717 under Closure Permit No. LAD 010395127-CP4. I wish to point out it is likely that at least one additional extension will subsequently be required as well.

Your prompt attention to this request would be greatly appreciated. Should you have any questions regarding these activities, please do not hesitate to call.

Sincerely,

George B Martin

George B. Martin
Vice President

GBM/JCA/MJH/jd

cc: Dr. Yong Gho - Permits Section

State of Louisiana

Department of Environmental Quality

BUDDY ROEMER
Governor

PAUL TEMPLET
Secretary

April 9, 1990

XC: Martin
Bramlette
Arbuthnot
Higgs
Original: Penton

RECEIVED

APR 12 1990

OFFICE OF THE VICE PRESIDENT
RES (LA) INC.

CERTIFIED-RETURN RECEIPT REQUESTED (P 673 112 013)

Mr. George Martin
Vice President
Rollins Environmental Services (LA) Inc.
P. O. Box 74137
Baton Rouge, Louisiana 70874-4137

Re: Rollins Environmental Services (LA), Inc
(LAD 010395127-CP4)
Closure Status - 180 day Closure Permit
Extension for Closure of Landfill Cell 717

Dear Mr. Martin:

The Louisiana Department of Environmental Quality-Hazardous Waste Division (LDEQ-HWD) is in receipt of your letter dated March 19, 1990, requesting an additional 180 days for the completion of closure to your hazardous waste Landfill Cell 717.

Due to the time required to facilitate the closure schedule of the Landfill Cell 717, this Department concurs with the request for a 180 day extension to the April 11, 1990 deadline. Your new permit expiration date is October 8, 1990.

Should you have any questions concerning this matter, please contact Yong Goh at (504) 342-4685.

Sincerely,

Timothy W. Hardy

Timothy W. Hardy
Assistant Secretary

TWH:YSG:jal

ROLLINS
ENVIRONMENTAL SERVICES (LA) INC.

P.O. Box 74137, Baton Rouge, LA 70874-4137, 504/778-1234 General Offices, 504/778-1242 Sales Office

September 13, 1990

Mr. Timothy W. Hardy
Assistant Secretary
Louisiana Department of Environmental Quality
Office and Solid and Hazardous Waste
P. O. Box 44307
Baton Rouge, Louisiana 70804-4307

Re: REQUEST FOR EXTENSION - CLOSURE PERMIT (LAD 010395127-CP4) FOR LANDFILL CELL 717 - CURRENT EXPIRATION DATE - OCTOBER 8, 1990 - ROLLINS ENVIRONMENTAL SERVICES (LA) INC. (RES (LA))

Dear Mr. Hardy:

The purpose of this letter is to advise the Louisiana Department of Environmental Quality of the current status of closing Landfill Cell 717 and to request an extension to continue work activities. During this 180-day extension (beginning April 11, 1990) of the subject closure permit, field work has included construction of drainage features and placement of clay cap, topsoil and erosion protection on the top and slopes. Approximately 50% and 75% of the drainage features and earthwork activities are complete, respectively.

Work remaining includes clay capping/topsoil placement on the north slope, west slope and west top; construction of drop structure in the northeast corner; additional drainage; and roadway modifications.

As a result, the quantity of field work remaining is such that completion of this task can not be achieved by the current permit expiration date of October 8, 1990. In addition, report preparation and submittal of the closure certification must still be accomplished following completion of these field activities.

Condition No. 5 of the closure permit requires that any request for extensions must be submitted to the Department, in writing, at least ten (10) days in advance of the expiration date. For the reasons described above, RES(LA) respectfully requests an extension of 180-days to continue the closure of Cell 717 under Closure Permit No. LAD 010395127-CP4. I wish to point out that it is possible (depending on weather which can effect earthwork) that at least one additional extension may be required as well.

Your prompt attention to this request would be greatly appreciated. Should you have any questions regarding these activities, please do not hesitate to call.

Sincerely,

George B Martin

George B. Martin
President

GBM/JCA/MJH/MC/jd

cc: Dr. Yong Gho - Permits Section

State of Louisiana

Department of Environmental Quality

BUDDY ROEMER
Governor

October 15, 1990

PAUL TEMPLET
Secretary

CERTIFIED - RETURN RECEIPT REQUESTED (P 583 883 288)

RECEIVED
OCT 22 1990
OFFICE OF THE PRESIDEN
RES (LA) INC.

Mr. George Martin
President
Rollins Environmental Services (LA) Inc.
Post Office Box 74137
Baton Rouge, Louisiana 70874-4137

RE: Rollins Environmental Services (LA), Inc.
(LAD010395127-CP4)
Closure Status - 180 day Closure Permit
Extension for Closure of Landfill Cell 717

Dear Mr. Martin:

The Louisiana Department of Environmental Quality-Hazardous Waste Division (LDEQ-HWD) is in receipt of your letter dated September 13, 1990, requesting an additional 180 days to complete closure of the hazardous waste Landfill Cell 717.

Due to the time required to complete closure of the Landfill Cell 717, LDEQ-HWD concurs with the request for a 180 day extension to the October, 8, 1990 deadline. Your new permit expiration date is now April 8, 1991.

Should you have any questions, please refer them to Dr. Yong Goh at (504) 342-4685.

Sincerely,

Timothy W. Hardy

TIMOTHY W. HARDY, Assistant Secretary
Office of Solid and Hazardous Waste

TWH:SSN:ssn

XC → Martin
Bramlette
Arbuthnot
Higgs
Lutz
Original → Penton
PTB
10/22/90

ROLLINS
ENVIRONMENTAL SERVICES (LA) INC.

P.O. Box 74137, Baton Rouge, LA 70874-4137, 504/778-1234 General Offices, 504/778-1242 Sales Office

March 8, 1991

Mr. Timothy W. Hardy
Assistant Secretary
Louisiana Department of Environmental Quality
Office and Solid and Hazardous Waste
P. O. Box 44307
Baton Rouge, Louisiana 70804-4307

Re: REQUEST FOR EXTENSION - CLOSURE PERMIT (LAD 010395127-CP4) FOR LANDFILL CELL 717 - CURRENT EXPIRATION DATE - APRIL 8, 1991 - ROLLINS ENVIRONMENTAL SERVICES (LA) INC. (RES (LA))

Dear Mr. Hardy:

The purpose of this letter is to advise the Louisiana Department of Environmental Quality of the current status of closing Landfill Cell 717 and to request an extension to continue work activities. During this 180-day extension (beginning October 8, 1990) of the subject closure permit, field work has included construction of drainage features and placement of clay cap, topsoil and erosion protection on the top and slopes. Most of the field activities were limited to the months of October and November, 1990 because of weather. Approximately 70% and 85% of the drainage features and earthwork activities are complete, respectively.

Work remaining includes clay capping/topsoil placement on the north slope, west slope and west top; additional drainage and roadway modifications. Activities on this project have been limited in recent months because of rainy weather and poor drying conditions.

As a result, the quantity of field work remaining is such that completion of this task can not be achieved by the current permit expiration date of April 8, 1991. In addition, report preparation and submittal of the closure certification must still be accomplished following completion of these field activities.

Condition No. 5 of the closure permit requires that any request for extensions must be submitted to the Department, in writing, at least ten (10) days in advance of the expiration date. For the reasons described above, RES (LA) respectfully requests an extension of 180-days to continue the closure of Cell 717 under Closure Permit No. LAD 010395127-CP4. I wish to point out that it is possible (depending on weather which can effect earthwork) that at least one additional extension may be required as well.

Your prompt attention to this request would be greatly appreciated. Should you have any questions regarding these activities, please do not hesitate to call.

Sincerely,

George B Martin

George B. Martin
President

GBM/JCA/MJH/MH/jd

cc: Dr. Yong Gho - Permits Section

State of Louisi:
Department of Environment

XC: Martin
Bramlette
Higgs
Arbuthnot
Lentz

Orig: Penton PTB 4-19-91

BUDDY ROEMER
Governor

PAUL TEMPLET
Secretary

April 15, 1991

CERTIFIED MAIL - RETURN RECEIPT REQUESTED (P 659 431 369)

RECEIVED
APR 19 1991
OFFICE OF THE PRESIDENT
RES (LA) INC.

Mr. George B. Martin
President
Rollins Environmental Services (LA), Inc.
Post Office Box 74137
Baton Rouge, Louisiana 70804-4307

RE: Rollins Environmental Services (LA), Inc.
(LAD 010395127-CP4)
Closure Status - 180 Day Closure Permit Extension
for Closure of Landfill Cell 717

Dear Mr. Martin:

The Louisiana Department of Environmental Quality - Hazardous Waste Division (LDEQ-HWD) has received your letter dated March 8, 1991, requesting an additional 180 days to complete closure of the hazardous waste Landfill Cell 717.

Due to the time required to facilitate the closure of Cell 717, LDEQ-HWD concurs with the request for a 180-day extension to the April 8, 1991 deadline. Your new permit expiration date is now October 8, 1991.

Please continue to update the Department on the progress of the closure activities, and be prepared to submit a written certification upon completion of closure in accordance with the requirements of LAC 33:V.3517.

Refer any questions concerning this matter to Shelli Nash of my staff, at (504) 765-0272.

Sincerely,

Timothy W. Hardy

TIMOTHY W. HARDY, Assistant Secretary
Office of Solid and Hazardous Waste

TWH:SSN:ssn

ROLLINS
ENVIRONMENTAL SERVICES (LA) INC.

P.O. Box 74137, Baton Rouge, LA 70874-4137, 504/778-1234 General Offices, 504/778-1242 Sales Office

September 16, 1991

Mr. Timothy W. Hardy
Assistant Secretary
Louisiana Department of Environmental Quality
Office of Solid and Hazardous Waste
P. O. Box 82178
Baton Rouge, Louisiana 70884-2178

RE: REQUEST FOR EXTENSION - CLOSURE PERMIT (LAD 010395127-CP4) FOR LANDFILL CELL 717 EXPIRATION DATE OCTOBER 8, 1991
RES(LA) BATON ROUGE FACILITY

Dear Mr. Hardy:

The purpose of this letter is to advise the Louisiana Department of Environmental Quality of the current status of closing Landfill Cell 717 and to request an additional extension to continue work activities.

During this current extension (beginning April 11, 1991) of the subject closure permit, field work has been primarily the placement of clay cap and topsoil. Earthwork activities have been hampered during this time by above normal rainfall (44+ inches from April through August, 1991 - approx. 20 inches above normal). Approximately 80% of the earthwork activities are complete.

Work remaining includes additional clay capping/topsoil placement, seeding and erosion control, construction of drainage and road features, leachate collection riser replacement, surveying and reporting on final closure certification. As a result, the quantity of work remaining is such that completion of this task by the new permit expiration date of October 8, 1991 cannot be achieved.

Condition No. 5 requires that any request for extensions must be submitted to the Department in writing, at least ten (10) days in advance of the expiration date. For the reasons described above, RES(LA) respectfully requests an extension of 180 days to continue the closure of Cell 717 under Closure Permit No. LAD 010395127-CP4. RES(LA) will attempt to complete closure of this unit during this next 180 day permit period, weather permitting. If problems arise, one additional extension may subsequently be required as well.

Your continued cooperation on this project is greatly appreciated. Should you have any questions regarding these activities, please do not hesitate to call.

Sincerely,

George B Martin

George B. Martin
President

GBM/JCA/MJH/jd

cc: Robert Cunningham - Permits Section

State of Louisiana

Department of Environmental Quality

BUDDY ROEMER
Governor

PAUL TEMPLET
Secretary

October 17,1991

CERTIFIED MAIL - RETURN RECEIPT REQUESTED (P 659 431 469)

RECEIVED
OCT 29 1991
OFFICE OF THE PRESIDENT
RES (LA) INC.

Mr. George B. Martin
President
Rollins Environmental Services (LA), Inc.
Post Office Box 74137
Baton Rouge, Louisiana 70804-4307

RE: Rollins Environmental Services (LA), Inc.
(LAD 010395127-CP4)
Closure Status - 180 Day Closure Permit Extension
for Closure of Landfill Cell 717

Dear Mr. Martin:

The Louisiana Department of Environmental Quality - Hazardous Waste Division (LDEQ-HWD) has received your letter dated September 16, 1991, requesting an additional 180 days to complete closure of the hazardous waste Landfill Cell 717.

Due to the time required to facilitate the closure of Cell 717, LDEQ-HWD concurs with the request for a 180-day extension to the October 8, 1991 deadline. Your new permit expiration date is April 8, 1992.

Please continue to update the Department on the progress of the closure activities, and be prepared to submit a written certification upon completion of closure in accordance with the requirements of LAC 33:V.3517.

Refer any questions to Debra Bendily or a member of the Closure Unit staff at (504) 765-0272.

Sincerely,

Timothy W. Hardy

TIMOTHY W. HARDY, Assistant Secretary
Office of Solid and Hazardous Waste

XC: Martin
Bramlette
Arbuthnot
Lutz
Hays
Orig → Higgs

TWH:DEB
A:\Rollinx2.717

closure
717

ROLLINS
ENVIRONMENTAL SERVICES (LA) INC.

P.O. Box 74137, Baton Rouge, LA 70874-4137, 504/778-1234 General Offices, 504/778-1242 Sales Office

March 10, 1992

Mr. Glenn A. Miller, Asistant Secretary
Louisiana Department of Environmental Quality
Office of Solid and Hazardous Waste
P. O. Box 82178
Baton Rouge, Louisiana 70884-2178

RE: REQUEST FOR EXTENSION - CLOSURE PERMIT (LAD 010395127-CP4) FOR LANDFILL CELL 717 EXPIRATION DATE APRIL 8, 1992
RES(LA) BATON ROUGE FACILITY

Dear Mr. Miller:

The purpose of this letter is to advise the Louisiana Department of Environmental Quality of the current status of closing Landfill Cell 717 and to request an additional extension to continue work activities.

Field activities have been limited during recent months due to above normal rainfall and poor drying conditions. Work remaining to complete the closure of Landfill Cell 717 includes additional clay capping/topsoil placement (approximately 80% complete), seeding and erosion control, construction of drainage and road features, leachate collection riser replacement (4 required), surveying and reporting on final closure certification. The quantity of work remaining is such that completion of this task by the new permit expiration date of April 8, 1992 cannot be achieved.

Condition No. 5 requires that any request for extensions must be submitted to the Department in writing, at least ten (10) days in advance of the expiration date. For the reasons described above, RES(LA) respectfully requests an extension of 180 days to continue the closure of Cell 717 under Closure Permit No. LAD 010395127-CP4. RES(LA) will attempt to complete closure of this unit during this next 180 day permit period, weather permitting. If problems arise, one additional extension may subsequently be required as well.

Your continued cooperation on this project is greatly appreciated. Should you have any questions regarding these activities, please do not hesitate to call.

Sincerely,

Michael F. DeCarlo
President

MFD/JCA/MJH/jd

cc: Robert Cunningham - Permits Section

closure 717

SEP-04-1992 15:35 FROM HAZ WASTE DIVISION TO 97783510 P.03

08

State of Louisiana

Department of Environmental Quality

Edwin W. Edwards
Governor

September 4, 1992

Kai David Midboe
Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED (P 389 278 816)

Mr. Michael F. DeCarlo, President
Rollins Environmental Services (LA), Inc.
Post Office Box 74137
Baton Rouge, Louisiana 70874-4137

RE: Extension of Closure Permit (LAD 010395127-CP4)
Landfill Cell 717

Dear Mr. DeCarlo:

The Louisiana Department of Environmental Quality-Hazardous Waste Division (LDEQ-HWD) received your March 10, 1992 request for an extension for the Closure Permit for Landfill Cell 717. The request for an additional 180 days to complete closure meets the definition of a Class 1 modification as defined by LAC 33:V.322.D.1.b.

The LDEQ-HWD hereby approves the 180-day extension for closure of Landfill Cell 717. The new expiration date is October 5, 1992. Rollins Environmental Services (LA), Inc. should proceed with the notification procedures required by LAC 33:V.321.C.1 upon receipt of this letter.

Should you have any questions in this matter, please contact Toni Evans at (504) 765-0272.

Sincerely,

Ross E. Williams
Acting Administrator

REW:TE:te

c: Mr. William Honker, USEPA
Mr. William Gallagher, USEPA
Ms. Kathryn Liuzza, Acting Program Manager

Environmental/Legal Distribution

John Arbuthnot - BR
Eric Olafson - BR
David Frashier - BR
Ed Chevallier - BR
Mike DeCarlo - BR
Paul Kimble - BR
Ed Lutz - BR
Craig Lackey - BR
Frank Willis - DE
Leonard Leal - DE

ROLLINS
ENVIRONMENTAL SERVICES (LA) INC.

P.O. Box 74137, Baton Rouge, LA 70874-4137, 504/778-1234 General Offices, 504/778-1242 Sales Office

September 22, 1992

Mr. Glenn Miller
Assistant Secretary
Louisiana Department of Environmental Quality
Office of Solid and Hazardous Waste
P. O. Box 82178
Baton Rouge, Louisiana 70884-2178

RE: REQUEST FOR EXTENSION - CLOSURE PERMIT (LAD 010395127-CP4) FOR LANDFILL CELL 717 EXPIRATION DATE OCTOBER 5, 1992
RES(LA) BATON ROUGE FACILITY

Dear Mr. Miller:

The purpose of this letter is to advise the Louisiana Department of Environmental Quality of the current status of closing Landfill Cell 717 and to request an additional extension to continue work activities.

Since the 180-day closure permit extension period began on April 8, 1992, work activities have included the development of additional leachate collection wells, earthwork and survey QA/QC data evaluation and compilation and review/planning of west slope grade preparation and clay cap/topsoil placement. Work remaining includes additional clay cap/topsoil placement on the west top, west end of north slope and west slopes; construction of drainage and roadway features; surveying and reporting on final closure certification. The quantity of work remaining are such that completion of this task by the permit expiration date of October 5, 1992 cannot be achieved.

Condition No. 5 requires that any request for extensions must be submitted to the Department in writing, at least ten (10) days in advance of the expiration date. For the reasons described above, RES(LA) respectfully requests an extension of 180 days to continue the closure of Cell 717 under Closure Permit No. LAD 010395127-CP4. RES(LA) will attempt to complete closure of this unit during this next 180-day closure permit period, weather permitting. An additional extension may be required to address impact closure of Cells 619/719 will have if any on this project.

Your prompt attention to this request would be greatly appreciated. Should you have any questions regarding these activities, please do not hesitate to call.

Sincerely,

Michael F. DeCarlo
President

MFD/JCA/SWC/jd

cc: Ross E. Williams - Permits Section

State of Louisiana

Department of Environmental Quality

Edwin W. Edwards
Governor

Kai David Midboe
Secretary

October 28, 1992

CERTIFIED MAIL - RETURN RECEIPT REQUESTED (P 389 278 876)

RECEIVED
NOV 02 1992
OFFICE OF THE PRESIDENT
RES (LA) INC.

Mr. Michael F. DeCarlo, President
Rollins Environmental Services (LA), Inc.
Post Office Box 74137
Baton Rouge, Louisiana 70874-4137

RE: Extension of Closure Permit (LAD 010395127-CP4)
Landfill Cell 717

Dear Mr. DeCarlo:

The Louisiana Department of Environmental Quality - Hazardous Waste Division (LDEQ-HWD) received your September 22, 1992 request for an extension for the Closure Permit for Landfill Cell 717. The request for an additional 180 days to complete closure meets the definition of a Class 1 modification as defined by LAC 33:V.322.D.1.b.

The LDEQ-HWD hereby approves the 180-day extension to the October 5, 1992 deadline for closure of Landfill Cell 717. Your new permit expiration date is April 2, 1993. Rollins Environmental Services (LA), Inc. should proceed with the notification procedures required by LAC 33:V.321.C.1 upon receipt of this letter.

Should you have any questions concerning this matter, please contact Toni Evans or Quentin Cannatella at (504) 765-0272.

Sincerely,

REW by Jeffrey P. Meyer

Ross E. Williams
Acting Administrator

Environmental/Legal
Distribution

John Arbuthnot - BR
Eric Olafson - BR
David Frashier - BR
Ed Chevallier - BR
Mike DeCarlo - BR
Paul Kimble - BR
[illegible] Lutz - BR
Craig Lackey - BR
Frank Willis - DE
Leonard Leal - DE
Nick Pappas - DE
John Day - DE
Tom Bramlette - DE

Closure 717

ROLLINS
ENVIRONMENTAL SERVICES (LA) INC.

P.O. Box 74137, Baton Rouge, LA 70874-4137, 504/778-1234 General Offices, 504/778-1242 Sales Office

March 1, 1993

Mr. Glenn Miller
Assistant Secretary
Louisiana Department of Environmental Quality
Office of Solid and Hazardous Waste
P.O. Box 82178
Baton Rouge, Louisiana 70884-2178

RE: REQUEST FOR EXTENSION - CLOSURE PERMIT (LAD 010395127-CP4) FOR LANDFILL CELL 717 EXPIRATION DATE APRIL 2, 1993
RES(LA) BATON ROUGE FACILITY

Dear Mr. Miller:

The purpose of this letter is to advise the Louisiana Department of Environmental Quality of the current status of closing Landfill Cell 717 and to request an additional extension to continue work activities.

Since the 180-day closure permit extension period began on October 5, 1992, work activities have included primarily grade preparation and clay cap/topsoil placement on the west and northwest slopes. This work effort has been limited because of weather (rain and poor drying conditions). Work remaining includes additional clay cap/topsoil placement on the west top, west end of north slope and west slopes; construction of drainage and roadway features; surveying and reporting on final closure certification. The quantity of work remaining are such that completion of this task by the permit expiration date of April 2, 1993 cannot be achieved.

Condition No. 5 requires that any request for extensions must be submitted to the Department in writing, at least ten (10) days in advance of the expiration date. For the reasons described above, RES(LA) respectfully requests and extension of 180 days to continue the closures of Cell 717 under Closure Permit No. LAD 010395127-CP4. RES(LA) will attempt to complete closure of this unit during this next 180-day closure permit period, weather permitting.

Your prompt attention to this request would be greatly appreciated. Should you have any questions regarding these activities, please do not hesitate to call.

Sincerely,

Michael F. DeCarlo
President

MFD/JCA/SWC/tc

cc: Ross E. Williams - Permits Section

Exhibit 21

ROLLINS
ENVIRONMENTAL SERVICES (LA) INC.

P.O. Box 74137, Baton Rouge, LA 70874-4137, 504/778-1234 General Offices, 504/778-1242 Sales Office

September 14, 1993

Mr. Glenn Miller
Assistant Secretary
Louisiana Department of Environmental Quality
Office of Solid and Hazardous Waste
P.O. Box 82178
Baton Rouge, Louisiana 70884-2178

RE: REQUEST FOR EXTENSION - CLOSURE PERMIT (LAD 010395127-CP4) FOR LANDFILL CELL 717 EXPIRATION DATE SEPTEMBER 29, 1993
RES(LA) BATON ROUGE FACILITY

Dear Mr. Miller:

The purpose of this letter is to advise the Louisiana Department of Environmental Quality of the current status of closing Landfill Cell 717 and to request an additional extension to continue work activities.

Since the 180-day closure permit extension period began on April 3, 1993, work activities have included the completion of clay cap/topsoil placement on the west and northwest slopes and top. In addition, construction of permanent leachate collection piping and supports was initiated. Work remaining includes reworking clay cap/topsoil around the leachate collection riser pipes and control building, design and installation of permanent leachate collection pumping and control system, construction of drainage and roadway features, surveying and reporting on final closure certification. The quantity of work remaining are such that completion of this task by the permit expiration date of September 29, 1993 cannot be achieved.

Condition No. 5 requires that any request for extensions must be submitted to the Department in writing, at least ten (10) days in advance of the expiration date. For the reasons described above, RES(LA) respectfully requests an extension of 180 days to continue the closure of Cell 717 under Closure Permit No. LAD 010395127-CP4. RES(LA) will attempt to complete closure of this unit during this next 180-day closure permit period, weather permitting.

Your prompt attention to this request would be greatly appreciated. Should you have any questions regarding these activities, please do not hesitate to call.

Sincerely,

Michael F. DeCarlo
President

MFD/JCA/jrd

Cell 717

State of Louisiana

Department of Environmental Quality

Edwin W. Edwards
Governor

April 14, 1993

Kai David Midboe
Secretary

CERTIFIED MAIL (P389 278 901)
RETURN RECEIPT REQUESTED

RECEIVED
APR 19 1993
OFFICE OF THE PRESIDENT
RES (LA) INC.

Mr. Michael F. DeCarlo, President
Rollins Environmental Services (LA), Inc.
Post Office Box 74137
Baton Rouge, Louisiana 70874-4137

RE: Extension of Closure Permit (LAD 010395127-CP4)
Landfill Cell 717

Dear Mr. DeCarlo,

The Louisiana Department of Environmental Quality - Hazardous Waste Division (LDEQ-HWD) received your March 1, 1993 request for an extension for the Closure Permit for Landfill Cell 717. The request for an additional 180 days to complete closure meets the definition of a Class 1 modification as defined by LAC 33:V.322.D.1.b.

The LDEQ-HWD hereby approves the 180-day extension to the April 2, 1993 deadline for closure of Landfill Cell 717. Your new permit expiration date is September 29, 1993. Rollins Environmental Services (LA), Inc. should proceed with the notification procedures required by LAC 33:V.321.C.1 upon receipt of this letter.

If you have any questions, please contact Ms. Toni Evans or Ms. Jodi G. Miller at (504)765-0272.

Sincerely,

Glenn A. Miller
Assistant Secretary

GAM/DR/dr

c: Ms. Ann Zimmerman, USEPA, Region VI
Mr. William Gallagher, USEPA, Region VI

Environmental/Legal Distribution	
John Arbuthnot	BR
Mike Barnett	BR
Ed Chevalier	BR
Mike DeCarlo	BR
David Frashier	BR
Paul Kimble	BR
Craig Lackey	BR
Eric Olafson	BR
David Taylor	BR
Tom Bramlette	DE
John Day	DE
Mike Higgs	DE
Leonard Leal	DE
Nick Pappas	DE
Phil Retallick	DE
Frank Willis	DE

closure - 717

State of Louisiana

Department of Environmental Quality

Edwin W. Edwards
Governor

October 26, 1993

Kai David Midboe
Secretary

CERTIFIED MAIL P 219 113 175
RETURN RECEIPT REQUESTED

Mr. Michael F. DeCarlo
President
Rollins Environmental Services (LA), Incorporated
Post Office Box 74137
Baton Rouge, Louisiana 70874-4137

RECEIVED
NOV 01 1993
OFFICE OF THE PRESIDENT
RES (LA) INC.

ATTENTION: Mr. Stephen Cange

Dear Mr. DeCarlo:

RE: (LAD 010395127) - Extension Request for Closure Permit CP-4

Your September 14, 1993 letter requesting an extension of 180 days to continue the closure of Cell 717 under Closure Permit Number LAD 010395127 CP-4 has been reviewed by the Louisiana Department of Environmental Quality - Hazardous Waste Division (LDEQ-HWD).

The LDEQ-HWD approves this extension to complete additional construction and work described in the above-referenced letter. Your new permit expiration date is March 28, 1994.

Thank your for your cooperation. Should you have any questions concerning this matter, please refer them to Mr. Scott Guilliams at (504) 765-0272.

Sincerely,

Glenn A. Miller
Assistant Secretary

GAM/KL/bg

c: Mr. William Gallagher, USEPA
Ms. Ann Zimmerman, USEPA

Env/Legal Distribution (LA
Engineering/Remediation
Technical/Laboratory
Operations

Corporate
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Encotec
Matt Wagner

ROLLINS
ENVIRONMENTAL SERVICES (LA) INC.

P.O. Box 74137, Baton Rouge, LA 70874-4137, 504/778-1234 General Offices, 504/778-1242 Sales Office

February 28, 1994

Env/Legal Distribution (LA)
Engineering/Remediation
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Corporate
Engineering/Remediation
Environmental/Regulatory

CERTIFIED MAIL - P 250 385 468

Mr. Glenn Miller
Assistant Secretary
Louisiana Department of Environmental Quality
Office of Solid and Hazardous Waste
P.O. Box 82178
Baton Rouge, Louisiana 70884-2178

RE: REQUEST FOR EXTENSION - CLOSURE PERMIT (LAD 010395127-CP4) FOR LANDFILL CELL 717 EXPIRATION DATE MARCH 28, 1994
RES(LA) BATON ROUGE FACILITY

Dear Mr. Miller:

The purpose of this letter is to advise the Louisiana Department of Environmental Quality of the current status of closing Landfill Cell 717 and to request an additional extension to continue work activities.

Since the 180-day closure permit extension period began on September 30, 1993, work activities have included the design and construction (ongoing) of permanent leachate collection piping and support and design of a permanent leachate collection pumping and control system (ongoing). Other work remaining includes reworking clay cap/topsoil around the leachate collection riser pipes and control building, installation of permanent leachate collection pumping and control system, surveying and reporting on final closure certification. The quantity of work remaining are such that completion of this task by the permit expiration date of March 28, 1994 cannot be achieved.

Condition No. 5 requires that any request for extensions must be submitted to the Department in writing, at least ten (10) days in advance of the expiration date. For the reasons described above, RES(LA) respectfully requests an extension of 180 days to continue the closure of Cell 717 under Closure Permit No. LAD 010395127-CP4. RES(LA) will attempt to complete closure of this unit during this next 180-day closure permit period, weather permitting.

Your prompt attention to this request would be greatly appreciated. Should you have any questions regarding these activities, please do not hesitate to call.

Sincerely,

Michael F. DeCarlo
President

MFD/SWC/JCA/jrd

State of Louisiana

Department of Environmental Quality

Edwin W. Edwards
Governor

April 6, 1994

APR 14 1994

Environmental/Legal
RES(LA) Inc.

William A. Kucharski
Secretary

CERTIFIED MAIL P 219 113 370
RETURN RECEIPT REQUESTED

Mr. Michael F. DeCarlo
President
Rollins Environmental Services (LA) Inc.
Post Office Box 74137
Baton Rouge, Louisiana 70874-4137

RECEIVED
APR 14 1994
OFFICE OF THE PRESIDENT
RES (LA) INC.

RE: REQUEST FOR EXTENSION
CLOSURE PERMIT LAD 010395127-CP-4
LANDFILL CELL 717

Dear Mr. DeCarlo:

The Louisiana Department of Environmental Quality - Hazardous Waste Division (LDEQ-HWD) is in receipt of your letter dated February 28, 1994, requesting an extension to the above referenced permit, which expires on March 28, 1994.

The LDEQ-HWD hereby grants your request for an extension to continue closure activities associated with Cell 717. Your new expiration date is September 21, 1994.

Thank you for your cooperation. Should you have any questions concerning this matter, please contact Mr. Scott Guilliams at (504) 765-0272.

Sincerely,

Glenn A. Miller
Assistant Secretary

GAM/KL/bg

Closure - 717

ROLLINS
ENVIRONMENTAL SERVICES (LA) INC.

P.O. Box 74137
Baton Rouge, Louisiana 70874-4137
Phone 504/778-1234, Fax 504/778-3510

September 2, 1994

CERTIFIED MAIL - Z 1088 648 840

Mr. Glenn Miller
Assistant Secretary
Louisiana Department of Environmental Quality
Office of Solid and Hazardous Waste
P.O. Box 82178
Baton Rouge, Louisiana 70884-2178

RE: REQUEST FOR EXTENSION - CLOSURE PERMIT (LAD 010395127-CP4) FOR LANDFILL CELL 717 EXPIRATION DATE SEPTEMBER 21, 1994
ROLLINS ENVIRONMENTAL SERVICES (LA) INC. BATON ROUGE FACILITY

Dear Mr. Miller:

The purpose of this letter is to advise the Louisiana Department of Environmental Quality of the current status of closing Landfill Cell 717 and to request an additional extension to continue work activities.

Since the 180-day closure permit extension period began on March 29, 1994, work activities have included the design and construction (ongoing) of permanent leachate collection piping and support system and design of a permanent leachate collection pumping and control system (ongoing). The installation of the piping system is approximately 50% complete. Selection of pumping and control system is complete. Design (ongoing) of this system is approximately 50% complete. The surface casings have been replaced on all of the leachate collection risers. Concrete pads have also been constructed around 90% of the wells. Other work remaining besides completion of the permanent leachate collection system includes minor grading, seeding surveying and reporting on final closure certification. The quantity of work remaining is such that completion of this closure by the permit expiration date of September 21, 1994 cannot be achieved.

Condition No. 5 of the permit requires that any request for extensions must be submitted to the Department in writing, at least ten (10) days in advance of the expiration date. For the reasons described above, RES(LA) respectfully requests an extension of 180 days to continue the closure of Landfill Cell 717 under Closure Permit No. LAD 010395127-CP4. RES(LA) will attempt to complete closure of this unit during this next 180-day closure permit period, weather permitting.

Your prompt attention to this request would be greatly appreciated. Thanks for the continued cooperation on this project. Should you have any questions regarding these activities, please do not hesitate to call me or John Arbuthnot of our staff at (504) 778-3596.

Sincerely,

Michael F. DeCarlo
President

SWC
MFD/SWC/JCA/jrd

ROLLINS
ENVIRONMENTAL SERVICES (LA) INC.

P.O. Box 74137, Baton Rouge, LA 70874-4137, 504/778-1234 General Offices, 504/778-1242 Sales Office

February 24, 1995

CERTIFIED MAIL - Z 109 359 275

Mr. Glenn A. Miller, Assistant Secretary
Hazardous Waste Division
Louisiana Department of Environmental Quality
P. O. Box 82178
Baton Rouge, LA 70884-2178

RE: REQUEST FOR EXTENSION - CLOSURE PERMIT (LAD 010305127-CP4 FOR LANDFILL CELL 717 - EXPIRATION DATE MARCH 21, 1995
ROLLINS ENVIRONMENTAL SERVICES (LA) INC. (RES(LA))
BATON ROUGE FACILITY - LAD NO. 010395127-P

Dear Mr. Miller:

The purpose of this letter is to provide written confirmation of the current status of closing Landfill Cell 717 and to request an additional extension to complete closure work activities. The closure status of Cell 717 has been discussed recently in meetings and conversations with members of your staff. In addition, Messrs. Hackler, Archibald and Landrum of your staff visited the RES(LA) facility on February 15, 1995 for purposes of reviewing the closure status.

Since the 180-day closure permit extension period began on September 22, 1994, work activities have included design (essentially complete) and construction (ongoing) of permanent leachate collection piping and control system. The installation of the piping system is approximately 90% complete. All surface casings and concrete pads for the leachate collection and leak detection riser pipes have been completed. Installation of the air and electrical supply is approximately 30% complete. We anticipate completing this new utility installation in April, weather permitting. The new pumping system (pumps and controls) have been received and are awaiting completion of the air and electrical system. Other work remaining besides completion of the permanent leachate collection system include utility abandonment, backfill, minor grading, seeding, surveying and reporting on final closure certification. Most of this work cannot be done until the new air and electrical supply is complete. The quantity of work remaining is such that completion of this closure by the permit expiration date of March 21, 1995 cannot be achieved.

Condition No. 5 of the permit requires that any request for extensions must be submitted to the Department in writing, at least ten (10) days in advance of the expiration date. For the reasons described above, RES(LA) respectfully requests an extension of 180 days to complete the closure of Landfill Cell 717 under Closure Permit No. LAD 010395127-CP4. RES(LA) plans to complete closure of this unit during this next 180-day closure permit period, weather permitting.

Your prompt attention to this request would be greatly appreciated. Thanks for the continued cooperation on this project. Should you have any questions or require any additional information, please do not hesitate to call me or John Arbuthnot of our staff at (504) 778-3596.

Sincerely,

Michael F. DeCarlo
President

swc
MFD/JCA/SWC/jrd

State of Louisiana

Department of Environmental Quality

Edwin W. Edwards
Governor

William A. Kucharski
Secretary

October 3, 1994

OCT - 6 1994
Environmental/Legal
RES(LA) Inc.

CERTIFIED MAIL P 219 112 742
RETURN RECEIPT REQUESTED

RECEIVED
OCT 06 1994
OFFICE OF THE PRESIDENT
RES (LA) INC.

Mr. Michael F. DeCarlo
President
Rollins Environmental Services (LA) Inc.
Post Office Box 74137
Baton Rouge, Louisiana 70874-4137

RE: REQUEST FOR EXTENSION
CLOSURE PERMIT LAD 010395127-CP-4
LANDFILL CELL 717

Dear Mr. DeCarlo:

The Louisiana Department of Environmental Quality - Hazardous Waste Division (LDEQ-HWD) is in receipt of your letter dated September 2, 1994, requesting an extension to the above referenced permit, which expires on September 21, 1994.

The LDEQ-HWD hereby grants your request for a 180 extension to continue closure activities associated with Cell 717. Your new expiration date is March 21, 1995.

Thank you for your cooperation. Should you have any questions concerning this matter, please contact Mr. Scott Guilliams at (504) 765-0272.

Sincerely,

Glenn A. Miller
Assistant Secretary

GAM/KL/bg

Env/Legal Distribution (LA)
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Engineering/Technical
Operations
Corporate
Engineering/Remediation
Environmental/Regulatory

OFFICE OF SOLID AND HAZARDOUS WASTE HAZARDOUS WASTE DIVISION P.O. BOX 82178 BATON ROUGE, LOUISIANA 70884-2178
TELEPHONE (504) 765-0355 FAX (504) 765-0617

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State of Louisiana

Department of Environmental Quality

RECEIVED MAR 20 1995 Environmental/Legal RES(LA) Inc.

Edwin W. Edwards
Governor

William A. Kucharski
Secretary

March 16, 1995

CERTIFIED MAIL Z 030 805 032
RETURN RECEIPT REQUESTED

RECEIVED
MAR 20 1995
OFFICE OF THE PRESIDENT
RES (LA) INC.

Mr. Michael F. DeCarlo, President
Rollins Environmental Services
Post Office Box 74137
Baton Rouge, Louisiana 70874-4137

RE: Rollins Environmental Services
LAD 010 395 127
180-Day Extension Request for Closure of Landfill Cell 717

Dear Mr. DeCarlo:

The Louisiana Department of Environmental Quality - Hazardous Waste Division (LDEQ-HWD) has received your letter dated February 24, 1995, requesting a 180-day extension to complete closure activities for Landfill Cell 717.

The LDEQ-HWD concurs with this request and acknowledges that you have submitted it in accordance with LAC 33:V.3513.B. Your new closure deadline is September 17, 1995.

Thank you for your cooperation. Should you have any questions concerning this matter, please refer them to Mr. Blaise Guzzardo at (504) 765-0272.

Sincerely,

Glenn A. Miller
Assistant Secretary

GAM/CWH/mb

ROLLINS
ENVIRONMENTAL SERVICES (LA) INC.

P.O. Box 74137
Baton Rouge, Louisiana 70874-4137
Phone 504/778-1234, Fax 504/778-3510

September 6, 1995

CERTIFIED MAIL - Z 204 236 199

Mr. Glenn A. Miller, Assistant Secretary
Hazardous Waste Division
Louisiana Department of Environmental Quality
P. O. Box 82178
Baton Rouge, LA 70884-2178

RE: REQUEST FOR EXTENSION - CLOSURE PERMIT (LAD 010305127-CP4 FOR LANDFILL CELL 717 - EXPIRATION DATE SEPTEMBER 17, 1995
ROLLINS ENVIRONMENTAL SERVICES (LA) INC. (RES(LA))
BATON ROUGE FACILITY - LAD NO. 010395127-P

Dear Mr. Miller:

The purpose of this letter is to provide written confirmation of the current status of closing Landfill Cell 717 and to request a 60-day extension to complete closure work activities. The closure status of Cell 717 was discussed recently in a conversation with Mr. Guzzardo of your staff.

Since the current 180-day closure permit extension period began on March 22, 1994, work activities have included design (completed) and construction (ongoing) of permanent leachate collection piping and control system. The installation of the piping system, air and electrical power supply systems, surface casings and concrete pads for the leachate collection and leak detection riser pipes has been completed. The new pumping system (pumps and controls) is currently being installed (60% complete). Other work remaining besides completion of the permanent leachate collection system include utility abandonment, backfill, minor grading and seeding. Review of the as-built surveying, preparation and filing of the deed restriction and closure certification are in progress. The quantity of work remaining is such that completion of this closure by the permit expiration date of September 17, 1995 cannot be achieved.

Condition No. 5 of the permit requires that any request for extensions must be submitted to the Department in writing, at least ten (10) days in advance of the expiration date. For the reasons described above, RES(LA) respectfully requests an extension of 60 days to complete the closure of Landfill Cell 717 under Closure Permit No. LAD 010395127-CP4. RES(LA) plans to complete closure of this unit including submittal of the deed restriction and closure certification during this next 60-day closure permit period.

Your prompt attention to this request would be greatly appreciated. Thanks for the continued cooperation on this project. Should you have any questions or require any additional information, please do not hesitate to call me or John Arbuthnot of our staff at (504) 778-3596.

Sincerely,

Michael F. DeCarlo
President

MFD/JCA/SWC/jrd

State of Louisiana

Department of Environmental Quality

Edwin W. Edwards
Governor

William A. Kucharski
Secretary

October 26, 1995

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NOV - 6 1995
Environmental/Legal
RES(LA) Inc.

RECEIVED
NOV 06 1995
OFFICE OF THE PRESIDENT
RES (LA) INC.

CERTIFIED MAIL Z 030 865 889
RETURN RECEIPT REQUESTED

Mr. Michael F. DeCarlo
President
Rollins Environmental Services (LA) Inc.
Post Office Box 74137
Baton Rouge, Louisiana 70874-4137

RE: ROLLINS ENVIRONMENTAL SERVICES (LA)
CLOSURE PERMIT No. LAD 010 395 127-CP-4
LANDFILL CELL 717
REQUEST FOR EXTENSION

Dear Mr. DeCarlo:

The Louisiana Department of Environmental Quality - Hazardous Waste Division (LDEQ-HWD) is in receipt of your letter dated September 6, 1995, requesting an extension to the above referenced permit, which expires on September 17, 1995.

The LDEQ-HWD hereby grants your request for a 60-day extension to continue closure activities associated with Cell 717. Your new expiration date is November 16, 1995.

Thank you for your cooperation. Should you have any questions concerning this matter, please contact Mr. Blaise Guzzardo of the HWD Permit Section at (504) 765-0272.

Sincerely,

Glenn A. Miller
Assistant Secretary

GAM/BG/en

c: Ms. Laurie King, U.S. EPA
Ms. Ann Zimmerman, U.S. EPA

HISTORY OF UPGRADES TO LEACHATE COLLECTION SYSTEM

LANDFILL CELL 717

ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

FEBRUARY 17, 1987 CONSENT DECREE WITH LDEQ:

- Section G.1.a. - Assess effectiveness and propose any corrective measures to restore Landfill Cell 717 leachate collection and leak detection systems within 105 days.
    - June 2, 1987 - Submitted Assessment Report on Landfill Cell 717 Leak Detection and Leachate Collection Systems.
    - June 8, 1987 - Approval letter from LDEQ.
    - July 8, 1987 - Submittal of Grouting and Abandonment Protocols.
    - August 7, 1987 - Submittal Leachate Collection Well Replacement Protocols.
    - August 11, 1987 - Approval letter from LDEQ Leachate Collection Well Replacement Protocols.
    - August 17, 1987 - Approval letter from LDEQ for Grouting and Abandonment Protocols.
    - September 8, 1987 - Submittal of Leachate Collection Pumping System Evaluation Report.
    - September 10, 1987 - Request by LDEQ for additional information on proposed new pumping system.
    - September 21, 1987 - Submittal of plan for replacement of LC-19.
    - September 24, 1987 - Approval letter from LDEQ for replacement of LC-19.
    - October 7, 1987 - Submittal of addition information on proposed new pumping system to LDEQ.
    - November 19, 1987 - Submittal of Bubbler Line Evaluation to LDEQ.
    - November 30, 1987 - Approval letter from LDEQ for the proposed new leachate collection pumping system.

HISTORY OF UPGRADES TO LEACHATE COLLECTION SYSTEM

LANDFILL CELL 717 CONTINUED

PAGE 2

- December 7, 1987 - RES(LA) letter advising of delay in field work for replacement wells.
- December 7, 1987 - RES(LA) letter requesting a modification for the grouting and abandonment procedures for Wells D-2 and 611B.
- December 11, 1987 - Approval letter from LDEQ granting extension to complete field work.
- February 15, 1988 - Submittal of Sanding, Grouting and Abandonment Procedures Report.
- February 22, 1988 - Approval letter from LDEQ of Sanding, Grouting and Abandonment Procedures Report.
- March 9, 1988 - Submittal of Exploratory Pilot Holes Report for Replacement Leachate Collection Wells.
- March 23, 1988 - Approval letter from LDEQ of Exploratory Pilot Holes Report.
- October 14, 1988 - Submittal of Leachate Collection Well Replacement Report.
- March 23, 1989 - Submittal of Request to Replace and Abandon Leak Detection Wells D-3 and D-7.
- April 26, 1989 - Approval letter from LDEQ to Replace and Abandon Leak Detection Wells D-3 and D-7.
- January 13, 1992 - Request for Approval of Workplan for Replacement of Leachate Collection Wells.
- February 24, 1992 - LDEQ approval of Installation of Leachate Collection/Removal Wells.

Rollins Environmental Services (LA) Inc.
P.O. Box 73877, Baton Rouge, Louisiana 70897 (504) 778-1234

Rollins

June 2, 1987

Louisiana Department of Environmental Quality
Groundwater Protection Division
P. O. Box 44274
Baton Rouge, LA 70804

ATTN: Mr. George H. Cramer, II
Administrator

RE: ASSESSMENT REPORT ON LEAK DETECTION AND LEACHATE COLLECTION SYSTEMS OF LANDFILL CELL 717 - TASK 1(a) - CONSENT DECREE DATED FEBRUARY 17, 1987

Gentlemen:

We are submitting herein for your review and approval the Assessment Report on the Leak Detection and Leachate Collection Systems of Landfill Cell 717 for Task 1(a) of the Consent Decree dated February 17, 1987. This communication fulfills the 105 day time limit for submittal of this document.

Should you have any questions or require any further information, please contact us at your earliest convenience.

Sincerely,

Thomas G. Bramlette
Vice President

TGB/JCA/DTH/MC/jd

Attachment: Assessment Report on the Detection and Leachate Collection Systems of Landfill Cell 717

cc: Louisiana Department of Justice
Mayor/President - City Parish

MARTHA A. MADDEN
SECRETARY

OFFICE OF SOLID AND HAZARDOUS WASTE

JOHN KOURY
ASSISTANT SECRETARY

June 8, 1987

Mr. Thomas G. Bramlette, Vice President
Rollins Environmental Services of La., Inc.
P. O. Box 73877
Baton Rouge, LA 70897

Re: Consent decree, Feburary 17, 1987
Cell 717, Task 1(a)

Dear Mr. Bramlette:

The report of June 2, 1987 by Ware Lind Furlow Engineers, Inc., which was compiled to meet the provisions of the referenced decree has been reviewed and accepted by the Ground Water Protection Division.

The projected work tasks generated by this study, however, must be individually approved by this Division prior to implementation.

Please continue to have your personnel maintain contact, and notify ground water personnel prior to beginning any work.

Your cooperation is appreciated.

Sincerely,

GEORGE H. CRAMER, II
Administrator

GHC:LML:rlr

cc: Roland Huson, Legal Counsel

Rollins Environmental Services (LA) Inc.
P.O. Box 7387 Baton Rouge, Louisiana 70807 (504) 778-1234

Rollins

July 8, 1987

Mr. George H. Cramer, II
Administrator
Groundwater Protection Division
Louisiana Department of Environmental Quality
P. O. Box 44274
Baton Rouge, LA 70804

RE: GROUTING AND ABANDONMENT PROTOCOLS - LEAK DETECTION AND LEACHATE COLLECTION SYSTEMS LANDFILL CELL 717 TASK 1(A) CONSENT DECREE DATED FEBRUARY 17, 1987

Dear Mr. Cramer:

We are submitting herein for your review and approval grouting and abandonment protocols for the leak detection and leachate collection systems of Landfill Cell 717 as required for Task 1(a) of the Consent Decree dated February 17, 1987.

The June 2, 1987 assessment report on the leak detection and leachate collection systems of Landfill Cell 717 recommended that the subject protocols be developed and submitted within 30 days of acceptance of this report. The review and acceptance by LDEQ was acknowledged in a letter dated June 8, 1987.

This communication fulfills the 30 day time limit for submittal of this document.

Should you have any questions or require any further information, please contact us at your earliest convenience.

Sincerely,

Thomas G. Bramlette

Thomas G. Bramlette
Vice President

TGB/JCA/DTH/MC/jd

Attachment

cc: Louisiana Department of Justice
Mayor/President - City Parish

Rollins Environmental Services (LA) Inc.
P.O. Box 73877, Baton Rouge, Louisiana 70897 (504) 778-1234

Rollins

August 7, 1987

Mr. George H. Cramer, II
Administrator
Groundwater Protection Division
Louisiana Department of Environmental Quality
Post Office Box 44274
Baton Rouge, Louisiana 70804

RE: WELL REPLACEMENT PROTOCOLS - LEACHATE COLLECTION SYSTEMS
LANDFILL CELL 717 TASK 1(A) CONSENT DECREE DATED FEBRUARY 17, 1987

Dear Mr. Cramer:

We are submitting herein for your review and approval well replacement protocols for the leachate collection systems of Landfill Cell 717 as required for Task 1(a) of the Consent Decree dated February 17, 1987.

The June 2, 1987 assessment report on the leak detection and leachate collection systems of Landfill Cell 717 recommended that the subject protocols be developed and submitted within 60 days of acceptance of this report. The review and acceptance by LDEQ was acknowledged in a letter dated June 8, 1987.

This communication fulfills the 60 day time limit for submittal of this document.

Should you have any questions or require any further information, please contact us at your earliest convenience.

Sincerely,

Thomas G. Bramlette

Thomas G. Bramlette
Vice President

TGB/JCA/DTH/MC/bl

Attachment

cc: Louisiana Department of Justice
Mayor/President - City Parish

MARTHA A. MADDEN
SECRETARY

OFFICE OF SOLID AND HAZARDOUS WASTE

JOHN KOURY
ASSISTANT SECRETARY

August 11, 1987

Thomas G. Bramlette, Vice President
Rollins Environmental Services (LA) Inc.
Post Office Box 73877
Baton Rouge, Louisiana 70897

Dear Mr. Bramlette:

RE: Replacement procedures for leachate collection systems C-6, C-13 and C-15 of Cell 717, Task 1(a) submitted August 7, 1987

The engineering protocol referenced above, as proposed by your consultants Ware Lind and Furlow is considered appropriate for the task, and is hereby approved for implementation.

Should you have any questions, please do not hesitate to contact this office.

Sincerely,

for Nanondra M. Dave
GEORGE H. CRAMER, II
Administrator

GHC:LML:cer

cc: Joan Albritton, Hazardous Waste

RECEIVED

AUG 1 2 1987

OFFICE OF THE VICE PRESIDENT
RES (LA) INC.

Original to Joel Penton 8-19-87

J. Arbuthnot

Louisiana Department of Environmental Quality

MARTHA A. MADDEN
SECRETARY

OFFICE OF SOLID AND HAZARDOUS WASTE

JOHN KOURY
ASSISTANT SECRETARY

August 17, 1987

Thomas G. Bramlette, Vice President
Rollins Environmental Services (La), Inc.
Post Office Box 73877
Baton Rouge, Louisiana 70897

Dear Mr. Bramlette:

RE: Grouting and Abandonment Protocols, Leak Detection/Collection, Cell 717, Task 1(A), Submitted July 8, 1987

The work proposals pertaining to the referenced document are hereby approved for implementation as scheduled.

Additionally, as per mutual agreement this date, with Messers. Dave Haggerman, John Arbuthnot and Darryl Primeaux, all Leachate Collection systems shall be structurally modified by the addition of a tremied sand column within the annulus, from the bottom of each unit to within 10 feet of the upper limit of landfilled material. The remaining annulus, open to the surface, shall be grouted per the referenced protocol.

Due to the importance of this work task, Rollins shall also be authorized the time necessary to research technology that may enhance integrity and/or guarantee perpetual performance of the riser piping and lift pumps in all leak detection and leachate collection systems.

Your continued cooperation is appreciated.

Sincerely,

George H. Cramer II

GEORGE H. CRAMER, II
Administrator

RECEIVED

AUG 19 1987

OFFICE OF THE VICE PRESIDENT
RES (LA) INC.

GHC:LML:cer

cc: John Koury

Rollins

September 8, 1987

Mr. George H. Cramer, II
Administrator
Groundwater Protection Division
Louisiana Department of Environmental Quality
P. O. Box 44274
Baton Rouge, Louisiana 70804

RE: PUMPING SYSTEM EVALUATION REPORT - LEACHATE COLLECTION SYSTEMS - LANDFILL CELL 717
CONSENT DECREE DATED FEBRUARY 17, 1987

Dear Mr. Cramer:

We are submitting herein for your review and approval an evaluation of the pumping system for the leachate collection systems of Landfill Cell 717 as required for Task 1(a) of the Consent Decree dated February 17, 1987.

The June 2, 1987 assessment report on the leak detection and leachate collection systems of Landfill Cell 717 recommended that the subject evaluation be conducted and submitted within 90 days of acceptance of this report. The review and acceptance by LDEQ was acknowledged in a letter dated June 8, 1987.

This communication fulfills the 90 day time limit for submittal of this document.

This report deals primarily with the downhole pump system. Recommendations are to replace the existing submersible pump system with an air driven ejector type pump. Some additional redesign of the above grade piping, electrical, tankage and pumpage systems will be required to connect the new system with the existing plant facilities. Plans and specifications for this work will be submitted to LDEQ for review prior to installation. Construction of any permanent above grade facilities will have to be delayed until closure of Cell 717 (placement of clay cap and final cover). Some temporary facilities may be installed for the interim until the closure is complete.

Should you have any questions or require any further information, please contact us at your earliest convenience.

Sincerely,

Thomas G. Bramlette
Vice-President

TGB/JCA/DTH/MC/dh

Attachment

cc: Louisiana Department of Justice
Mayor/President - City Parish

A. Hayman

Louisiana Department of Environmental Quality

MARTHA A. MADDEN
SECRETARY

OFFICE OF SOLID AND HAZARDOUS WASTE

JOHN KOURY
ASSISTANT SECRETARY

September 10, 1987

Mr. Thomas G. Bramlette
Vice President
Rollins Environmental Services (LA) Inc.
Post Office Box 73877
Baton Rouge, Louisiana 70897

Dear Mr. Bramlette:

RE: Pumping System Evaluation Report

This is in response to your letter of September 8, 1987 concerning the above referenced subject. While not disagreeing with your choice of pump, we have one issue that needs to be resolved prior to approval. We request more information on the bubbler line liquid level probe, e.g. material of construction, diameter, etc. Our experience with air bubblers is limited, but indicates if the line becomes blocked with debris or scale, the system becomes inoperable. If you have preventive maintenance plans to overcome this situation, we would like a brief statement of the steps that will be taken. Otherwise, we would like to know what design features will minimize or prevent this problem.

We look forward to your early response.

Sincerely,

GEORGE H. CRAMER, II
Administrator

GHC:cer

cc: Warren Byrd
Attorney General's Office

RECEIVED

SEP 14 1987

OFFICE OF THE VICE PRESIDENT
RES (LA) INC.

Rollins Environmental Services
P.O. Box 73877, Baton Rouge, Louisiana 70897 (5(

Rollins

September 21, 1987

Mr. George H. Cramer, II
Adminstrator
Groundwater Protection Division
Louisiana Department of Environmental Quality
P. O. Box 44274
Baton Rouge, Louisiana 70804

RE: REMEDIATION PLAN FOR LEACHATE COLLECTION RISER NO. 19 - SUBCELL 717C - TASK (1A) CONSENT DECREE DATED FEBRUARY 17, 1987

Dear Mr. Cramer:

As discussed in your September 2, 1987 telephone conversation with Mr. John Arbuthnot of Rollins Environmental Services Inc., Leachate Collection Riser No. 19 located in Subcell 717 C has apparently separated approximately 40 to 50 feet below present grade. (See plate C-1 attached for approximate location). Several attempts have been made by a contractor using common well repair techniques to retrieve the pump and piping system from the well and realign the riser pipe. This work has not been successful.

Rollins Environmental Services (LA) Inc. proposes to replace Leachate Collection Riser No. 19 using the replacement protocols, well design criteria and work schedule outlined in our August 7, 1987 submittal for Task 1(a) of the February 17, 1987 Consent Decree. (Copy attached) These protocols were reviewed and approved by LDEQ on August 11, 1987. (Copy attached)

Please review this proposed remediation plan for Leachate Collection Riser No. 19 and advise us if this plan is acceptable. Your continued cooperation on the remediation activities of the Consent Order is appreciated.

Sincerely.

Thomas G. Bramlette
Vice-President

TGB/JCA/DTH/MC/jd

T. BRAMLET
D. HAGERMA
B. CLEMMON
J. PENTON
J. ARBUTHN
RCRA
D. TRENT
F. WILLIS
M. CONVISS
R. YENNERE
L. LEAL
T. HARMESON
J. NEEL

MARTHA A. MADDEN
SECRETARY

OFFICE OF SOLID AND HAZARDOUS WASTE

September 24, 1987

Mr. Thomas G. Bramlette, Vice President
Rollins Environmental Services(LA), Inc.
P. O. Box 73877
Baton Rouge, LA 70897

RE: Remediation Plan for Leachate Collection Riser No. 19 - Subcell 717C

Dear Mr. Bramlette:

The remediation plan being used for collection risers at the site is acceptable to us for use with riser No. 19, also. We appreciate your keeping us informed of occur, and documenting these findings so that the record of remedial work is clear.

Sincerely,

George H. Cramer, II

cc: Warren Byrd
Department of Justice.

RECEIVED

SEP 28 1987

OFFICE OF THE VICE PRESIDENT
RES (LA) INC.

Rollins Environmental Services (LA) Inc.
P.O. Box 73877, Baton Rouge, Louisiana 70897 (504) 778-1234

Rollins

October 7, 1987

Mr. George H. Cramer, II
Administrator
Groundwater Protection Division
Louisiana Department of Environmental Quality
P. O. Box 44274
Baton Rouge, LA 70804

RE: PUMPING SYSTEM EVALUATION - LEACHATE COLLECTION SYSTEMS -
LANDFILL CELL 717 - CONSENT DECREE DATED FEBRUARY 17, 1987
RES (LA) SUBMITTAL DATED SEPTEMBER 8, 1987
LDEQ RESPONSE DATED SEPTEMBER 10, 1987

Gentlemen:

We are submitting herein for your review and approval a September 23, 1987 letter report prepared by Ware Lind Furlow Engineers, Inc. (WLFE) which provides construction details and explanations about the preventive maintenance program planned for the bubbler line liquid level probes. This information was requested in your September 10, 1987 response (copy attached) to RES (LA) Pumping System Evaluation Report on the Leachate Collection System of Landfill Cell 717. As discussed in WLFE's letter report, pilot studies have indicated that the type of bubbler line liquid level probes proposed, coupled with the preventive maintenance program, offers a reliable system for measuring leachate levels.

We hope this information will resolve any remaining questions regarding this system and allow the review and approval process to continue. However, should you have any additional questions, please do not hesitate to contact us at your earliest convenience. Your continued cooperation on this Consent Decree is greatly appreciated.

Sincerely,

Thomas G. Bramlette
Vice President

TGB/JCA/MC/jd

Attachments

cc: Louisiana Department of Justice
Mayor/President East Baton Rouge Parish

Rollins Environmental Services (LA) Inc.
P.O. Box 73877, Baton Rouge, Louisiana 70897 (504) 778-1234

Rollins

November 19, 1987

Mr. George H. Cramer, II
Administrator
Groundwater Protection Division
Louisiana Department of Environmental Quality
P. O. Box 44274
Baton Rouge, LA 70804

RE: BUBBLER LINE PUMPING SYSTEM EVALUATION - LEACHATE COLLECTION SYSTEM - LANDFILL CELL 717 - CONSENT DECREE DATED FEBRUARY 17, 1987
RES (LA) SUBMITTAL DATED SEPTEMBER 8, 1987
LDEQ RESPONSE DATED SEPTEMBER 10, 1987
RES (LA) SUBMITTAL DATED OCTOBER 7, 1987

Gentlemen:

We are submitting herein for your review and approval a November 18, 1987 letter report prepared by Ware Lind Furlow Engineers, Inc. (WLFE) which provides case history information on the bubbler line liquid level device. The additional information had been requested in recent telephone conversations between yourself and WLFE. As discussed in this letter report, the oversize line and positive air pressure minimizes the chance for blockage. In the unlikely event blockage would occur, a high level would be indicated by the system and become apparent to the operator. Measures to remediate this problem could then be taken.

Should you have any questions regarding this information, please advise. Your continued cooperation on this Consent Decree is greatly appreciated.

Sincerely,

Thomas G. Bramlette

Thomas G. Bramlette
Vice President

TGB/JCA/DTH/MC/MJH/jd

cc: Louisiana Department of Justice
Mayor/President, East Baton Rouge Parish

John Arbuthnot

MARTHA A. MADDEN
SECRETARY

OFFICE OF SOLID AND HAZARDOUS WASTE

JOHN KOURY
ASSISTANT SECRETARY

November 30, 1987

Mr. Thomas G. Bramlette
Vice President
Rollins Environmental Services (LA) Inc.
Post Office Box 73877
Baton Rouge, Louisiana 70897

Dear Mr. Bramlette:

RE: Leachate Collection System - Landfill Cell 717

This will approve the pumping system for the above referenced cell, as submitted in your letter of September 8, 1987, and supplemented in your letters of October 7, 1987 and November 19, 1987. With the supplemental data submitted, my concerns about the bubbler system have been addressed.

We appreciate your diligence in the matter.

Sincerely,

GEORGE H. CRAMER, II
Administrator

GHC:cer

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DEC 01 1987
OFFICE OF THE VICE PRESIDENT
RES (LA) INC.

Rollins Environmental Services (LA) Inc.
P.O. Box 73877, Baton Rouge, Louisiana 70897 (504) 778-1234

Rollins

December 7, 1987

Louisiana Department of Environmental Quality
Groundwater Protection Division
P. O. Box 44274
Baton Rouge, LA 70804

ATTN: Mr. George H. Cramer, II,
Administrator

RE: INSTALLATION OF REPLACEMENT WELLS - LEACHATE COLLECTION SYSTEM - LANDFILL CELL 717 - TASK 1(a) - CONSENT DECREE DATED FEBRUARY 17, 1987
RES (LA) SUBMITTALS DATED JUNE 2, AUGUST 7, AND SEPTEMBER 21, 1987
LDEQ RESPONSES DATED JUNE 8, AUGUST 11, AND SEPTEMBER 24, 1987

Gentlemen:

In accordance with the February 17, 1987 Consent Decree, and the referenced correspondence, a report on the drilling of the pilot holes for replacement leachate collection wells of landfill cell 717 is currently scheduled for submittal by the first of January, 1988. As indicated in the well replacement protocols submitted August 7, 1987, drilling of the pilot holes would be scheduled after mid-November, 1987 to take advantage of the cooler weather. This was deemed necessary because of the level of personal protection equipment required for this type work.

The drilling contractor scheduled to perform this drilling has experienced delays (increased scope of work) in completing other projects. As a result, the specialized equipment required to perform the subject drilling will not be available until late December, 1987. Attempts were made to contact other contractors with this type equipment. The result was generally the same, either the equipment was committed to other projects, or could not perform the task.

As a result, this work will likely not be completed by the scheduled deadline. We have been assured by our drilling contractor that equipment will be available on/or about the first of January, 1988. The Consent Decree has provisions to extend scheduled deadlines.

Therefore, RES (LA) respectfully requests an extension of approximately 60 days so that we can complete the pilot holes and submit a report on recommended replacement well design. The revised submittal date would be on/or about March 1, 1988.

RES (LA) respectfully requests your immediate attention to this request. Should you have any questions or need additional information, please contact us at your earliest convenience. Your continued cooperation on this Consent Decree is greatly appreciated.

Sincerely,

Thomas G. Bramlette

Thomas G. Bramlette
Vice President

TGB/JCA/DTH/MC/MJH/jd

cc: Louisiana Department of Justice
Mayor President - City/Parish

Rollins Environmental Services (LA) Inc.
P.O. Box 73877, Baton Rouge, Louisiana 70897 (504) 778-1234

Rollins

December 7, 1987

Louisiana Department of Environmental Quality
Groundwater Protection Division
P. O. Box 44274
Baton Rouge, LA 70804

ATTN: Mr. George H. Cramer, II
Administrator

RE: GROUTING AND ABANDONMENT PROTOCOLS - LEACHATE COLLECTION WELLS - LANDFILL CELL 717 - TASK 1(a) - CONSENT DECREE DATED FEBRUARY 17, 1987
RES (LA) SUBMITTALS DATED JUNE 2 AND JULY 8, 1987
LDEQ RESPONSES DATED JUNE 8 AND AUGUST 17, 1987

Gentlemen:

We are transmitting herein a copy of Ware Lind Furlow Engineers, Inc. (WLFE) letter dated December 7, 1987 which recommends a variance from the grouting and abandonment protocols originally submitted by RES (LA) on July 8, 1987. Specifically, as described in their letter, there are some potential problems with the perforating techniques. It is WLFE's opinion that grouting of Well D-2 and 611B can be accomplished by the techniques described without perforating the PVC and CMP casings. RES (LA) concurs with this recommendation.

Therefore, RES (LA) respectfully requests that LDEQ review and approve this proposed protocol modification so that this grouting and abandonment phase of Task 1(a) can proceed toward completion. As noted in WLFE's letter, the grouting and abandonment work was originally scheduled for completion on/or before the end of December, 1987. All work is essentially complete with the exception of D-2 and 611B which this protocol modification request addresses. We can complete the remaining field work and submit the final report on all grouting work within four (4) weeks after approval of this protocol modification.

RES (LA) respectfully requests your immediate attention to this request. Should you have any questions or need additional information, please contact us at your earliest convenience. Your continued cooperation on this Consent Decree is greatly appreciated.

Sincerely,

Thomas G. Bramlette
Vice President

TGB/JCA/DTH/MC/MJH/jd

Attachment

cc: Louisiana Department of Justice
Mayor President - City Parish

Louisiana Department of Environmental Quality

RECEIVED

DEC 1 8 1987

OFFICE OF THE VICE PRESIDENT
RES (LA) INC.

MARTHA A. MADDEN
SECRETARY

OFFICE OF SOLID AND HAZARDOUS WASTE

JOHN KOURY
ASSISTANT SECRETARY

December 11, 1987

Mr. Thomas G. Bramlette
Vice President
Rollins Environmental Services (LA) Inc.
Post Office Box 73877
Baton Rouge, Louisiana 70897

Dear Mr. Bramlette:

RE: Task 1(a) and 1(f) - CONSENT DECREE Dated February 17, 1987

Your three requests submitted in letters dated December 7, 1987 are hereby approved. These requests represent minor changes in the work and scheduling of the work, and are within the degree of change anticipated in the consent decree.

Specifically, the leachate collection well grouting and abandonment procedure is modified in accordance with your transmittal due to the safety considerations that are now obvious after the completion of the previous work. The completion of the pilot holes and report submission for the leachate collection wells is extended 60 days, to March 1, 1988, due to delays in the availability of the special equipment required. Finally, the Closure Plan submittal date is extended 75 days, to March 14, 1988, to allow time for completion of the other, on-going items which are an integral part of the plan.

Your attention to these details is appreciated.

Sincerely,

George H. Cramer II

GEORGE H. CRAMER, II
Administrator

GHC:cer

cc: John Koury
Warren Byrd (Dept. of Justice)

Rollins Environmental Services (LA) Inc.
P.O. Box 73877, Baton Rouge, Louisiana 70897 (504) 778-1234

Rollins

February 15, 1988

Louisiana Department of Environmental Quality
Groundwater Protection Division
P. O. Box 44274
Baton Rouge, LA 70804

ATTN: Mr. George H. Cramer, II
Administrator

RE: SANDING, GROUTING AND ABANDONMENT PROCEDURES REPORT - LEAK DETECTION AND LEACHATE COLLECTION WELLS OF LANDFILL CELL 717 - TASK 1(a) - CONSENT DECREE DATED FEBRUARY 17, 1987
RES (LA) SUBMITTALS DATED JUNE 2, JULY 8, DECEMBER 7, 1987
LDEQ RESPONSES DATED JUNE 8, AUGUST 17, DECEMBER 11, 1987

Gentlemen:

We are submitting herein for your review and approval the Sanding, Grouting and Abandonment Procedures Report on the Leak Detection and Leachate Collection Wells of Landfill Cell 717 for Task 1(a) of the Consent Decree dated February 17, 1987. This communication completes the requirements of this sub-work task.

Should you have any questions or require any further information, please contact us at your earliest convenience.

Sincerely,

Thomas G. Bramlette
Vice President

TGB/JCA/MJH/MC/jd

Attachment: Sanding, Grouting and Abandonment Procedures Report on the Leak Detection and Leachate Collection Systems of Landfill Cell 717.

cc: Louisiana Department of Justice
Mayor/President - City Parish

Arbuthnot

MARTHA A. MADDEN
SECRETARY

OFFICE OF SOLID AND HAZARDOUS WASTE

February 22, 1988

JOHN KOURY
ASSISTANT SECRETARY

RECEIVED

FEB 24 1988

OFFICE OF THE VICE PRESIDENT
RES (LA) INC.

Thomas G. Bramlette, Vice President
Rollins Environmental Services (LA), Inc.
Post Office Box 73877
Baton Rouge, Louisiana 70897

Dear Mr. Bramlette:

RE: Sanding, Grouting, Abandonment and Modifications of Leachate Detection and Collection Systems, Report of 2/15/88

The referenced document has been received and the work performed is hereby accepted as conforming to the requirements of the Consent Decree of February 17, 1987.

Based on this report, it is our understanding that Rollins acknowledges that risers of wells C-5, C-6, C-12 (or replacement of pump in C-12) C-13, C-15, and C-19 will be replaced, and the surface of risers C-16, C-17 and C-23 will be grouted to complete all modifications to the leachate systems, in accordance with the terms of the decree.

The Ground Water Protection Division awaits your final report in this regard.

Sincerely,

GEORGE H. CRAMER, II
Administrator

GHC:LML:cer

cc: La Dept. of Justice

Rollins Environmental Services (LA) Inc.
P.O. Box 73877, Baton Rouge, Louisiana 70897 (504) 778-1234

Rollins

March 9, 1988

Louisiana Department of Environmental Quality
Groundwater Protection Division
P. O. Box 44274
Baton Rouge, LA 70804

ATTN: Mr. George H. Cramer, II
Administrator

RE: EXPLORATORY PILOT HOLES REPORT FOR LEACHATE COLLECTION WELL REPLACEMENTS IN LANDFILL CELL 717 - TASK 1(a) - CONSENT DECREE DATED FEBRUARY 17, 1987
RES (LA) SUBMITTALS DATED JUNE 2, AUGUST 7, DECEMBER 7, 1987
LDEQ RESPONSES DATED JUNE 8, AUGUST 11, DECEMBER 11, 1987

Gentlemen:

We are submitting herein for your review and approval the Exploratory Pilot Holes Report for the Leachate Collection Well Replacements in Landfill Cell 717 as required under Task 1(a) on the Consent Decree dated February 17, 1987.

Should you have any questions or require any further information, please contact us at your earliest convenience.

Sincerely,

Thomas G. Bramlette
Vice President

TGB/JCA/MJH/MC/jd

Attachment: Leachate Collection Wells Replacements - Exploratory Pilot Holes Report

cc: Louisiana Department of Justice
Mayor/President - City Parish

J. Arbuthnot

RECEIVED

MAR 30 1988

OFFICE OF THE VICE PRESIDENT
RES (LA) INC.

Louisiana Department of Environmental Quality

Paul H. Templet, Ph.D.
SECRETARY

OFFICE OF SOLID AND HAZARDOUS WASTE

Timothy W. Hardy
ASSISTANT SECRETARY

March 23, 1988

Thomas G. Bramlette, Vice President
Rollins Environmental Services (LA) Inc.
Post Office Box 73877
Baton Rouge, Louisiana 70897

Dear Mr. Bramlette:

RE: Exploratory Pilot Holes for the Cell 717 Leachate Collection Well Replacements, Plan of March 9, 1988

The Ground Water Protection Division concurs with your proposal to locate the exploratory holes as indicated on Plate 1 of the referenced document. Please notify this office of any unexpected findings or developments during drilling operations.

Sincerely,

GEORGE H. CRAMER, II
Administrator

GHC:LML:cer

Rollins Environmental Services (LA) Inc.
P. O. Box [illegible] Baton Rouge, Louisiana [illegible]

October 14, 1988

Mr. George H. Cramer, II
Administrator
Groundwater Protection Division
P. O. Box 44274
Baton Rouge, LA 70804-4274

RE: LEACHATE COLLECTION WELL REPLACEMENT ACTIVITIES REPORT FOR LANDFILL CELL 717
TASK 1(a) - CONSENT DECREE DATED FEBRUARY 17, 1987
RES (LA) SUBMITTALS DATED JUNE 2, AUGUST 7, DECEMBER 7, 1987, MARCH 9, 1988
LDEQ RESPONSES DATED JUNE 8, AUGUST 11, DECEMBER 11, 1987, MARCH 23, 1988

Dear Mr. Cramer:

We are submitting herein for your review and approval the Leachate Collection Well Replacements Activities Report for Landfill Cell 717. This report documents the abandonment and replacement of seven leachate collection wells (C-3A, C-5A, C-6A, C-12A, C-13A, C-15A and C-19A). These work activities complete this phase of Task 1(a) of the Consent Decree dated February 17, 1987. The next step will be the installation of a new pumping and piping system. This work will be performed following completion of the final capping operations. During the interim, the existing pumping and temporary piping system will be utilized.

We again thank you for the continued cooperation during this project. Should you have any questions or require any further information, please contact us at your earliest convenience.

Sincerely,

Thomas G. Bramlette
Vice President

TGB/JCA/MJH/MC/jd

Attachment: Leachate Collection Well Replacements Activities Report

cc: Louisiana Department of Justice
Mayor/President - City Parish

ROLLINS
ENVIRONMENTAL SERVICES (LA) INC.

P.O. Box 74137, Baton Rouge, LA 70874-4137, 504/778-1234 General Offices, 504/778-1242 Sales Office

March 23, 1989

Mr. George H. Cramer, II
Administrator
Groundwater Protection Division
Louisiana Department of Environmental Quality
P. O. Box 44274
Baton Rouge, Louisiana 70804-4274

Subject: Replacement and Abandonment of Leak Detection Wells D-3 and D-7
RES (LA) Plant Site

Dear Mr. Cramer:

We are transmitting herein for your review and approval a copy of the Report on the Replacement and Abandonment of Leak Detection Wells D-3 and D-7 which was prepared by Ware Lind Furlow Engineers, Inc.. This report documents the installation of the replacement wells and outlines the plugging and abandonment protocols for the subject wells.

Please review the attached report and provide your comments as soon as possible, so that the well abandonment activities can be implemented. We will be happy to discuss any questions you may have concerning this report.

Sincerely,

Thomas G. Bramlette
Vice President

TGB/JCA/MJH/MC/dh

State of Louisiana

Department of Environmental Quality

BUDDY ROEMER
Governor

PAUL TEMPLET
Secretary

RECEIVED

MAY 0 4 1989

OFFICE OF THE VICE PRESIDENT
RES (LA) INC.

April 26, 1989

Mr. Thomas G. Bramlette
Rollins Environmental Services. Inc.
P.O. Box 74137
Baton Rouge, LA 70874

SUBJECT: Replacement and Abandonment of
Leak Detection Wells D-3 and D-7

Dear Mr. Bramlette:

The Ground Water Protection Division hereby approves the abandonment of leak detection wells D-3 and D-7 as described in your letter of March 23, 1989 provided that the annular space between the PVC pipe and the outer casing is also grouted or otherwise adequately sealed. Please notify this Division at least three (3) days prior to actually beginning this work so that someone from the Division can be on site when this work is performed.

If you have any questions concerning this matter, please call me at 342-8950.

Sincerely,

GEORGE H. CRAMER, II
Administrator

GHC:KPQ:blj

cc: T. Bramlette
J. Arbuthnot
N. Higgs
Original: J. Penton
5-4-89

ROLLINS
ENVIRONMENTAL SERVICES (LA) INC.

P.O. Box 74137, Baton Rouge, LA 70874-4137, 504/778-1234 General Offices, 504/778-1242 Sales Office

January 13, 1992

Mr. Louis R. C. Johnson
Administrator
Office of Water Resources
Groundwater Protection Division
Louisiana Department of Environmental Quality
P. O. Box 82215
Baton Rouge, Louisiana 70884-2215

SUBJECT: REQUEST FOR APPROVAL OF WORKPLAN FOR REPLACEMENT OF LEACHATE COLLECTION WELLS -LANDFILL CELL 717
RES(LA) BATON ROUGE FACILITY

Dear Mr. Johnson:

We are transmitting herein a work plan prepared by ENCOR dated January 13, 1992 to replace two leachate collection wells located within subcell B of Landfill Cell 717 at the RES(LA) facility. Recent evaluations of leachate collection wells LC-16 and LC-17 indicate replacement of these wells are the most feasible method of repair.

RES(LA) proposes to replace these two wells with four (4) new locations as outlined in the attached workplan. These replacements will enhance leachate removal capabilities within Landfill Cell 717. Similar type replacements were installed successfully during 1987 and 1988 and continue to operate effectively.

The level of personnel protection required for health and safety reasons is such that the field work should be conducted during the cool season to minimize heat stress. We have tentively scheduled the field work for the month of February, 1992.

Therefore, your prompt attention to the review and approval of this work plan would be greatly appreciated. Should you have any questions or require additional information, please do not hesitate to call John Arbuthnot at 778-3596.

Sincerely,

Gary G. Stewart
President

GGS/JCA/MJH/jd
Attachments

Arbuthnot

State of Louisiana

Department of Environmental Quality

Eric Olafson - Baton Rouge
David Frashier - " "
Ed Chevalier - " "
Mike DeCarlo - " "
Paul Kimble - " "
Ed Lutz - " "
Frank Willis - Corp. Legal
Leonard Leal - Corp.
Dr. Nick Pappas- "
John Day - "
Tom Bramlette - "

Edwin W. Edwards
Governor

February 24, 1992

CERTIFIED - RETURN RECEIPT REQUESTED (P 583 887 604

Mr. Gary G. Stewart
President
Rollins Environmental Services
Post Office Box 74137
Baton Rouge, LA 70874-4137

OFF

RE: Installation of Leachate Collection/Removal Wells
Landfill Cell 717, Baton Rouge Facility.

Dear Mr. Stewart:

This is to acknowledge your correspondence dated January 13, 1992 addressed to Mr. Louis Johnson of the Ground Water Protection Division regarding installation of leachate collection/removal wells.

We have reviewed your proposal and hereby give approval subject to the procedures described in your plan and the following conditions:

1. Page 1, Item 2: Any abandoned boreholes should be backfilled with bentonite chips or a high solid bentonite grout. This is necessary due to the fact that there is constant movement in the cell.

2. Page 3, Item 3.0: The grouting of the riser annulus should be accomplished with a high solid bentonite grout.

3. You must notify us and obtain approval for any proposed deviation or modification from the plan before any work begins.

4. Please notify Robert Durbin by fax and telephone at least five (5) working days prior to work implementation, and follow this up with a letter to us.

5. The two abandoned leachate wells should also be grouted with a high solid bentonite grout. The riser pipe should be cut below final cap level and this area tamped with compacted clay.

6. A report should be prepared and sent to the Hazardous Waste Division upon completion of the project.

If you need further clarification, do not hesitate to contact Narendra Dave or Robert Durbin at (504)765-0355.

Sincerely,

Peter A. Romanowsky, Acting Administrator
Hazardous Waste Division

PAR:NMD:mlm

c: Louis Johnson, GWPD

APPENDIX B

DAILY FIELD REPORTS

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-2 DATE: 10-01-87

PROJECT: Cell 717 Clay Cap WLFE REP: T. Vrenick

PROJECT NO: 87B052 CONTRACTOR: Sussex

WEATHER: Clear, Cool EQUIPMENT: 225 Backhoe, D6 Dozer 3-DJB'S

ACTIVITIES SUMMARY

After arriving on site at 7:00, I checked in with G. E. Brister (Sussex) to see what he plans on doing today. He informed me he was going to clean out the ditch along the West and South sides of 717. This work continued most of the day. I inspected the exposed liner along the North and West sides and performed density tests and took perm samples at five locations. Victor Donald (WLFE) was also on site today and inspected the exposed liner. The survey crew was performing top of waste cross-sections. I left the site at 16:30.

FIELD DATA

Point No.	N Coord	E Coord	Elev	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1	2319	620	107.8	20.7	109.0	N/a
2	2320	520	109.3	22.5	106.0	N/a
3	2339	296	103.2	19.8	107.2	N/a
4	2223	234	106.1	20.4	104.4	N/a
5	2100	259	106.6	23.3	101.1	N/a

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
1	50/32	1.0×10^{-9}	21.1	105.9	--
2	48/31	1.0×10^{-9}	19.0	109.7	--
3	46/27	3.0×10^{-9}	16.3	111.9	--
4	49/32	1.0×10^{-9}	19.5	108.0	--
5	42/35	2.0×10^{-9}	18.6	103.6	--

INSPECTOR Thomas A. Vrenick ENGINEER Victor R Donald

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-3	DATE:	10-02-87
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, Cool	EQUIPMENT:	225 Backhoe, D6 Dozer 3-DJB'S, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 7:00 and Sussex began clearing topsoil in the borrow area. J. Arbuthnot (RES) arrived on site at 9:30 and he inspected the exposed liner. He and I requested Sussex to dig a trench at cross-section 5+20 so that we could see the edge of the liner on both sides. Photos #22 and #23 show this trench. After inspecting these excavations, we felt confident about the location of the liner. The first lift on the vertical liner began at 14:30, and they continued until 16:30. I left the site at 17:00.

FIELD DATA - None Performed

LABORATORY DATA - None Performed

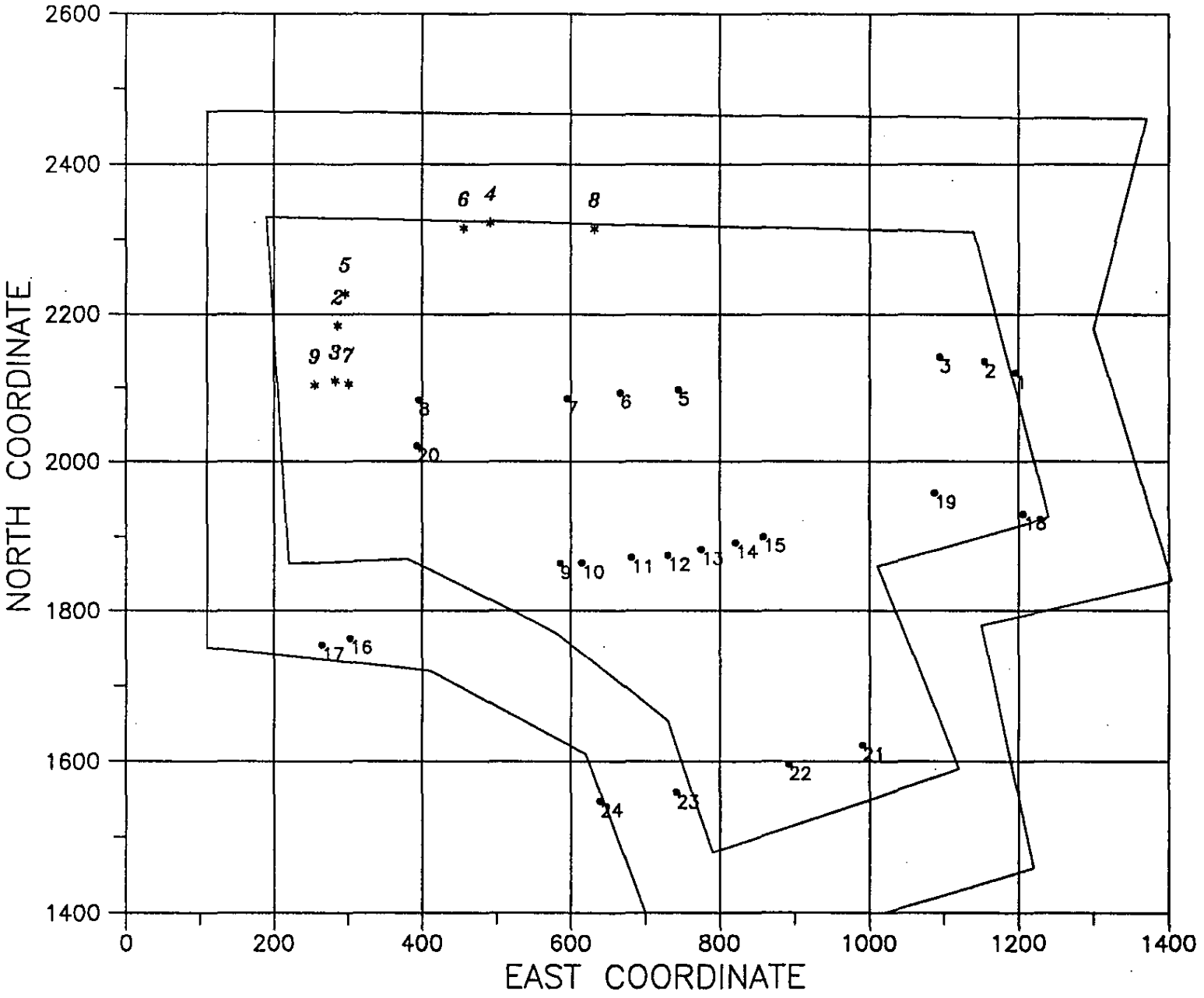
INSPECTOR Thomas A. Vrenick ENGINEER Victor Donald

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-4

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-4	DATE:	10-03-87
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, Cool	EQUIPMENT:	225 Backhoe, D6 Dozer 3-DJB'S, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 7:00. Sussex was finishing the first lift on the vertical liner. One test was run (No. 1). The dry density was too low. The area was re-rolled and two additional tests were run (No. 2 & 3). The next lift was then placed and compacted using the vibratory roller. Two tests were run (No. 4 & 5) on this lift. Sussex then placed and compacted another lift. Two tests were performed on this lift (No.'s 6 & 7). Another lift was started. One test (No. 8) was performed on the North side. They were still compacting the remaining part of the lift, and I will test it on Monday, 10/5/87. I left the site at 15:00.

FIELD DATA

Point No.	N Coord	E Coord	Elev	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1	--	--	--	22.1	91.8	84.2
2	2184	286	106.5	19.6	100.5	92.2
3	2109	283	107.1	17.9	104.6	96.0
4	2322	492	109.9	20.3	103.7	95.1
5	2227	296	106.3	22.5	100.2	91.9
6	2315	456	110.7	18.5	103.3	94.8
7	2105	301	107.6	20.1	104.1	95.5
8	2314	632	110.4	20.8	102.8	94.3
9	2103	255	110.2	20.7	101.3	93.0

LABORATORY DATA

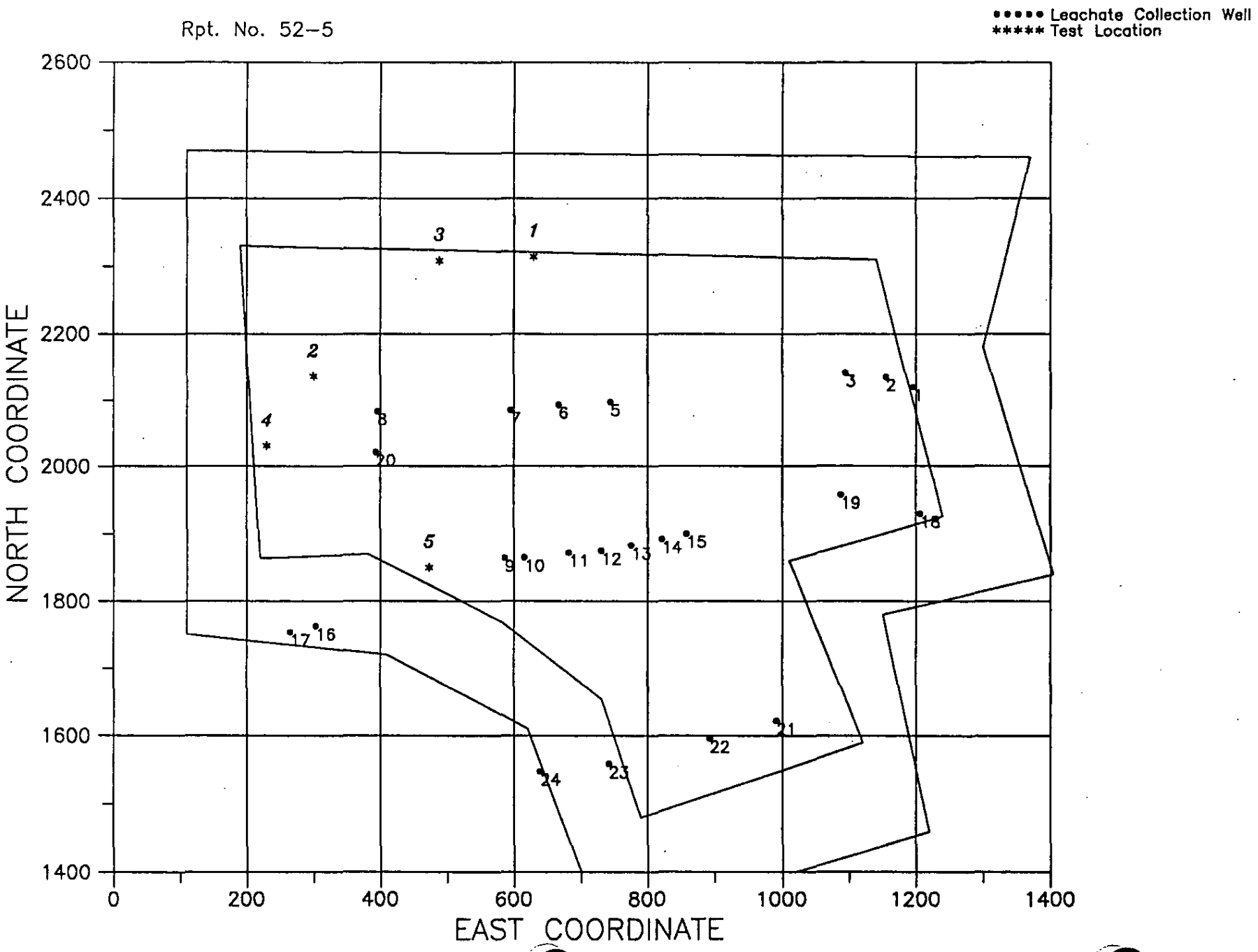
Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
3	47/31	5.0×10^{-9}	18.1	109.1	--

INSPECTOR Thomas A. Vrenick ENGINEER Victor R. Daniel

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-5



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-5	DATE:	10-05-87
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, Cool	EQUIPMENT:	225 Backhoe, D6 Dozer 3-DJB'S, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 7:30. Sussex added a lift to the vertical liner. Two tests were taken on this lift (No. 1 & 2). Sussex began a lift on the slope of the waste and tied it in to the vertical liner. Tests were run on the North, West and South slopes (No. 3, 4 & 5). I left the site at 16:30.

FIELD DATA

Point No.	N Coord	E Coord	Elev	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1	2314	629	111.6	20.7	98.8	90.7
2	2136	300	110.2	21.3	104.2	95.6
3	2308	488	113.7	21.5	98.8	90.7
4	2031	230	113.9	22.3	101.0	92.6
5	1850	473	113.3	20.5	99.2	91.0

LABORATORY DATA - None Performed

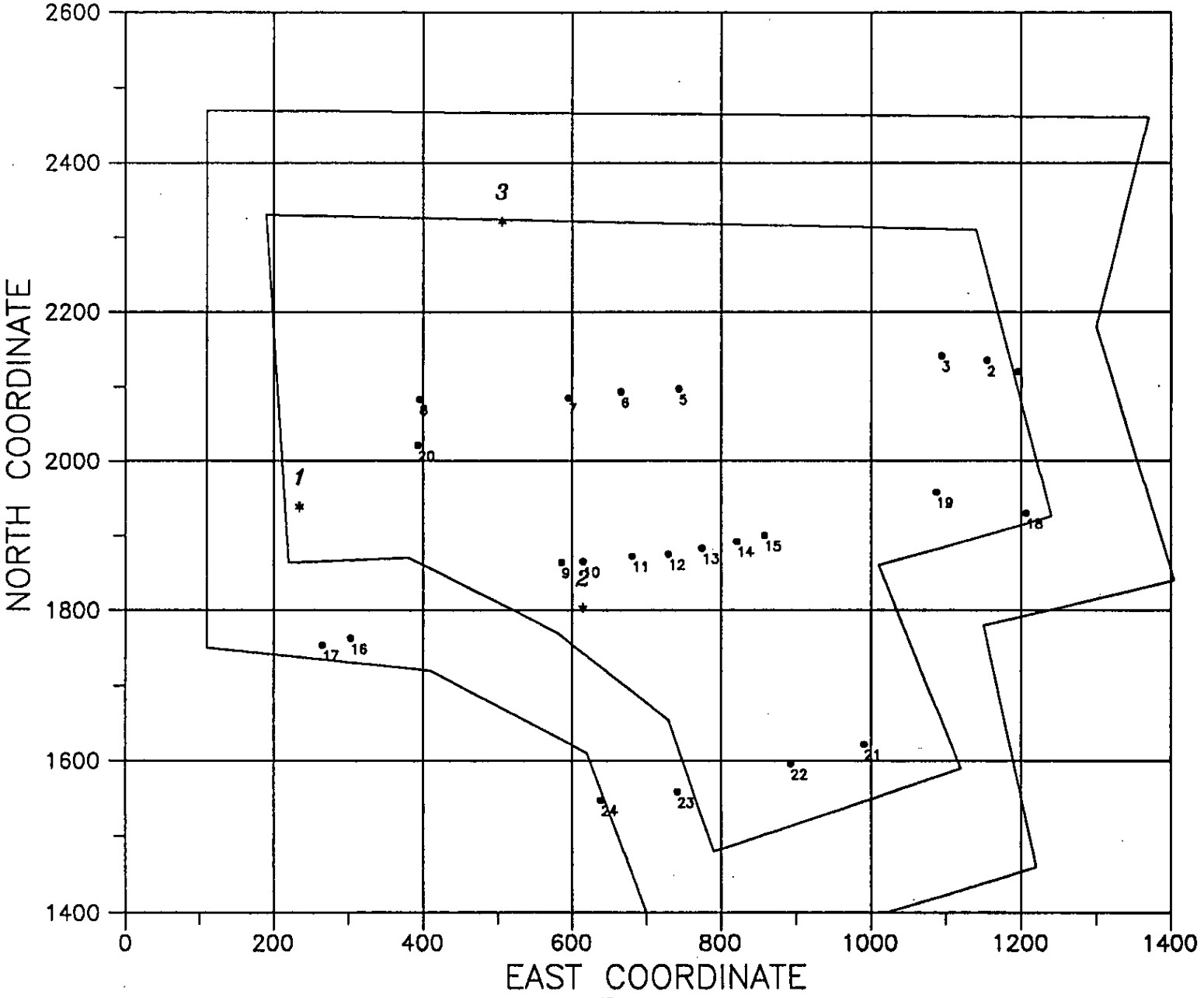
INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52–06

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-6	DATE:	10-06-87
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, Cool	EQUIPMENT:	225 Backhoe, D6 Dozer 3-DJB'S, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 7:00. Sussex continued to put a lift on the waste slope and tie it in to the vertical liner along the North and West. On the remaining portion of the West and along the South, the lift was placed on the waste slope and in the ditch at the bottom of this slope. Three tests were run on this lift (No. 1-3). Sussex then began a lift on top of the waste in the southwest corner and moved along the southern edge. I left the site at 16:30

FIELD DATA

Point No.	N Coord	E Coord	Elev	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1	1939	235	110.2	23.3	101.1	92.7
2	1803	615	112.9	22.4	101.3	93.0
3	2321	506	113.4	22.6	101.3	93.0

LABORATORY DATA

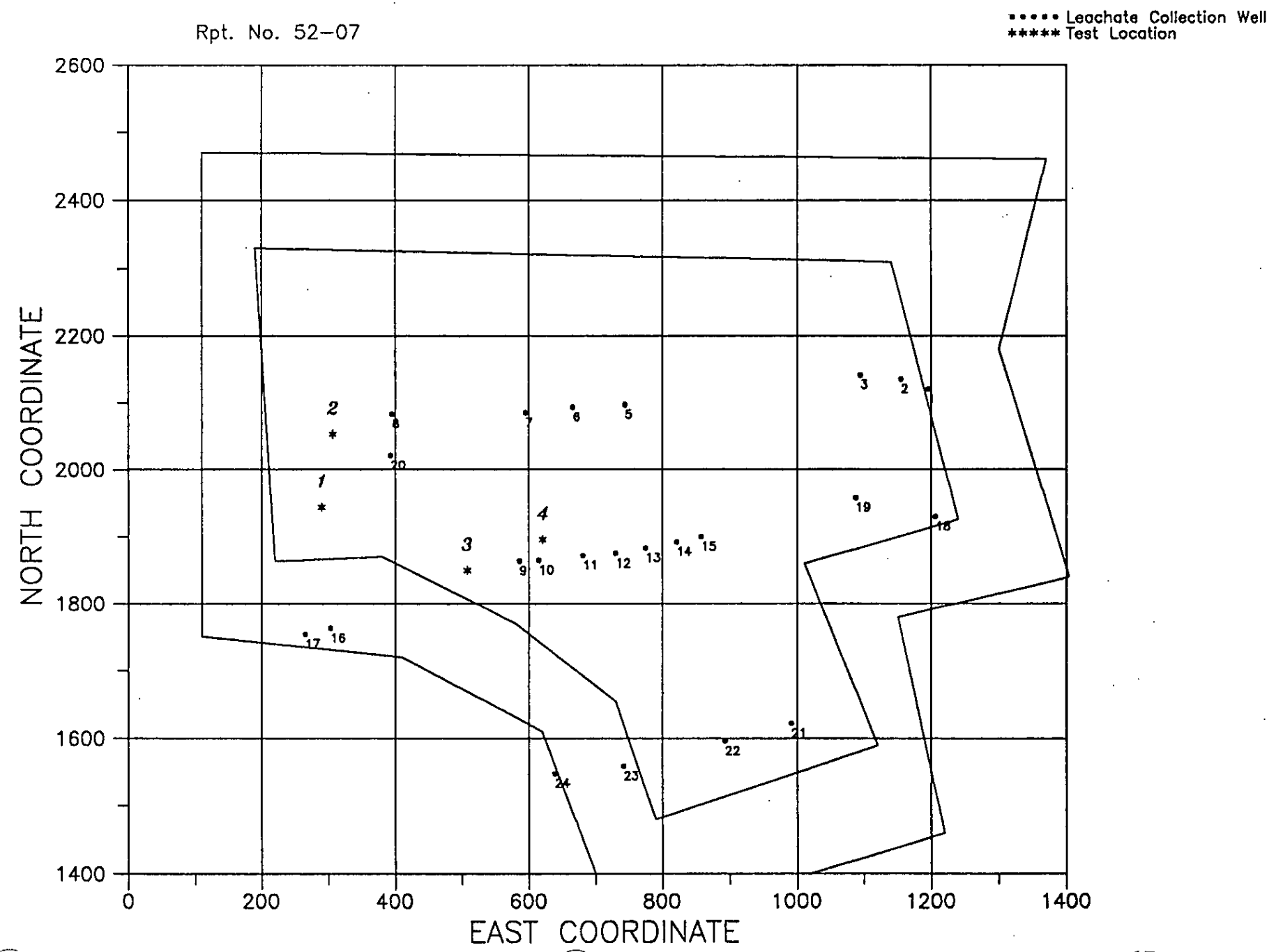
Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
2	40/17	9.0×10^{-8}	26.9	97.2	--

INSPECTOR Thomas A. Vrenick ENGINEER Victor R Druhl

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-07



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-7
PROJECT: Cell 717 Clay Cap
PROJECT NO: 87B052
WEATHER: Clear

DATE: 10-07-87
WLFE REP: T. Vrenick
CONTRACTOR: Sussex
EQUIPMENT: 225 Backhoe, D6 Dozer 3-DJB'S, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 7:00. Sussex was adding a lift on the southern one-third of the 717 cap. This continued all day. Four tests were run (No. 1-4) on the areas that were fully compacted. I left the site at 16:30.

FIELD DATA

Point No.	N Coord	E Coord	Elev	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1	1944	290	116.6	18.6	104.1	95.5
2	2053	307	117.4	17.6	109.4	100.3
3	1850	508	116.9	19.6	104.6	95.9
4	1896	621	118.3	18.2	104.1	95.5

LABORATORY DATA

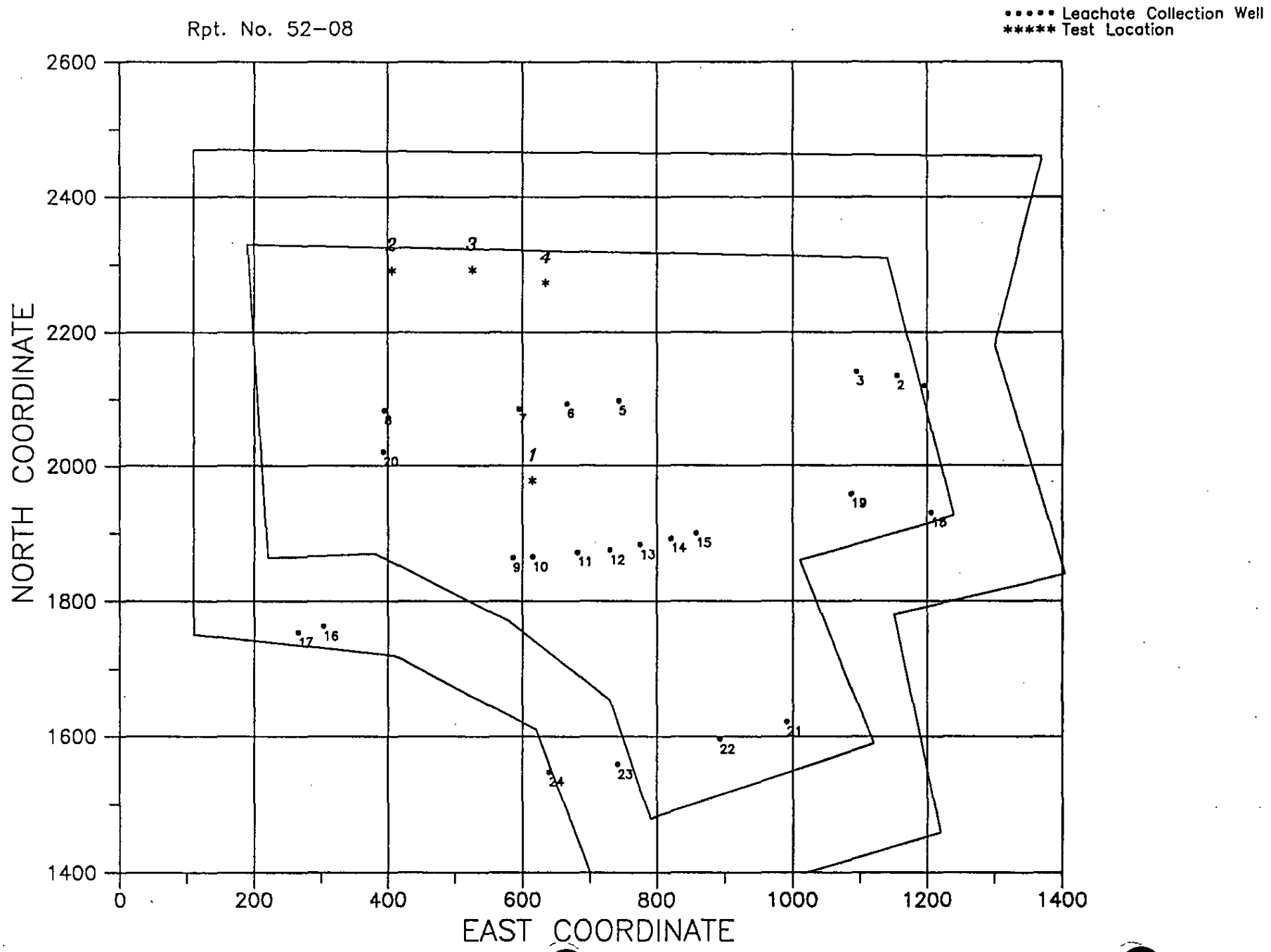
Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
3	44/24	--	22.1	--	--

INSPECTOR Thomas A. Vrenick ENGINEER Victor R. Donald

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-08



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-8	DATE:	10-08-87
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 50's to 80's	EQUIPMENT:	225 Backhoe, D6 Dozer 3-DJB'S, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 7:00. Sussex completed lift on the southern portion 717. One test (No. 1) was run in that area. They then moved to the northern part of 717 and began lift there. Three tests (No. T.P. 10-8-2 thru 10-8-4) were run in this area. I left the site at 16:30.

FIELD DATA

Point No.	N Coord	E Coord	Elev	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1	1978	615	120.5	17.7	106.2	97.5
2	2291	406	116.3	18.7	104.8	96.2
3	2292	526	116.4	18.9	104.8	96.2
4	2273	634	116.9	18.7	104.6	95.9

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
3	42/25	--	19.6	--	Hydrometer

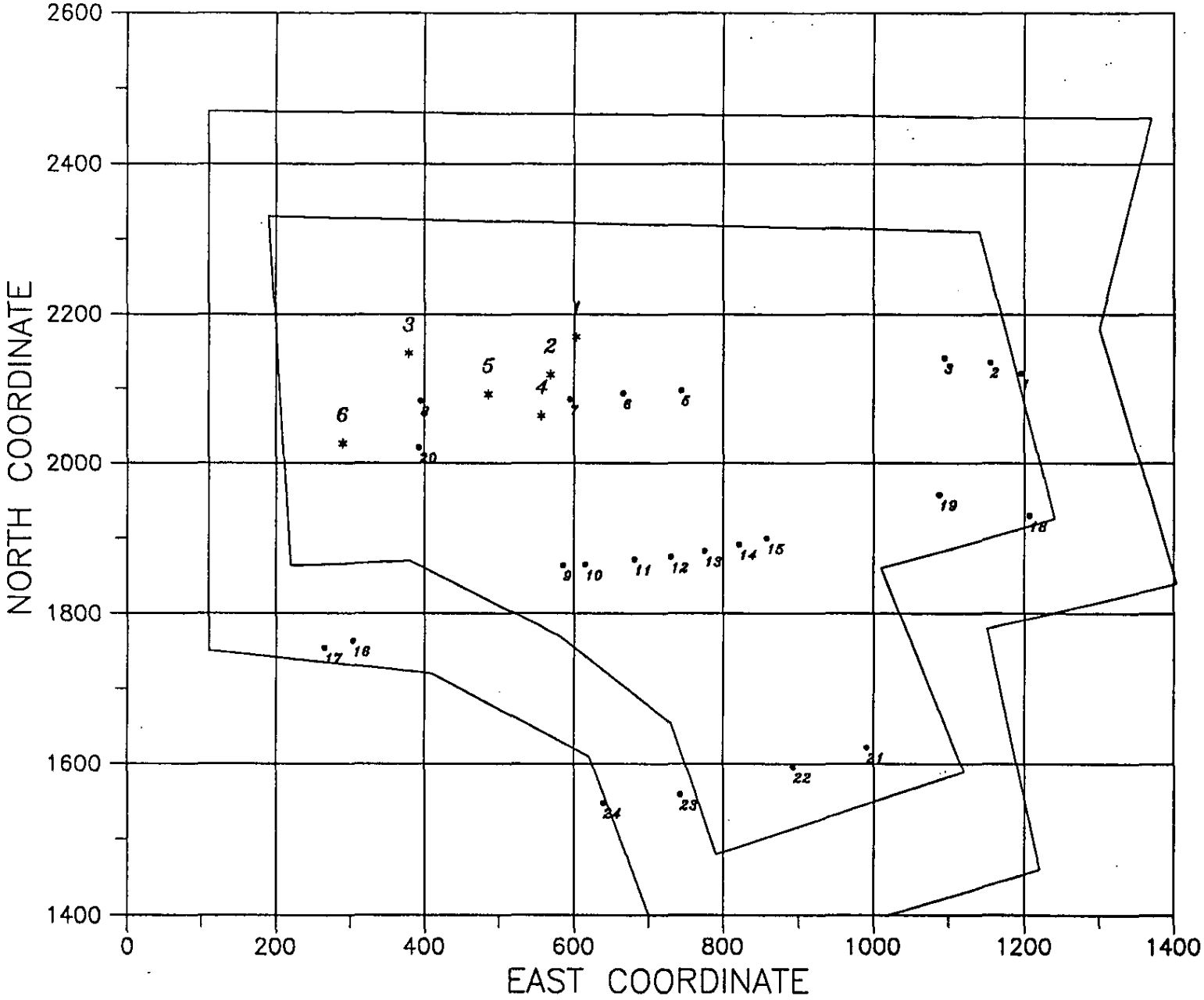
INSPECTOR Thomas A. Vrenick ENGINEER Victor R Donald

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-09

••••• Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-9	DATE:	10/09/87
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 50's to 80's	EQUIPMENT:	225 Backhoe, D6 Dozer, 3-DJB'S, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 8:00. Sussex was continuing the first lift for clay cap. Five tests (No. 1-5) were performed on this remaining area. Before the second lift was started the first lift was dampened with the water truck. One test (No. 6) was performed on the area of the second lift compacted. I left the site at 16:30.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1.	2169	603	118.8	21.2	103.7	95.2
2.	2118	569	119.3	20.1	104.6	96.0
3.	2147	379	119.0	20.8	103.4	94.9
4.	2063	557	122.1	20.1	101.7	93.3
5.	2092	486	120.5	16.7[1]	104.6	96.0
6.	2026	290	117.7	20.9	101.9	93.5

Note: (1) Optimum moisture content was 16.2%.

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
4	41/23	2.0×10^{-8}	23.9	98.1	--

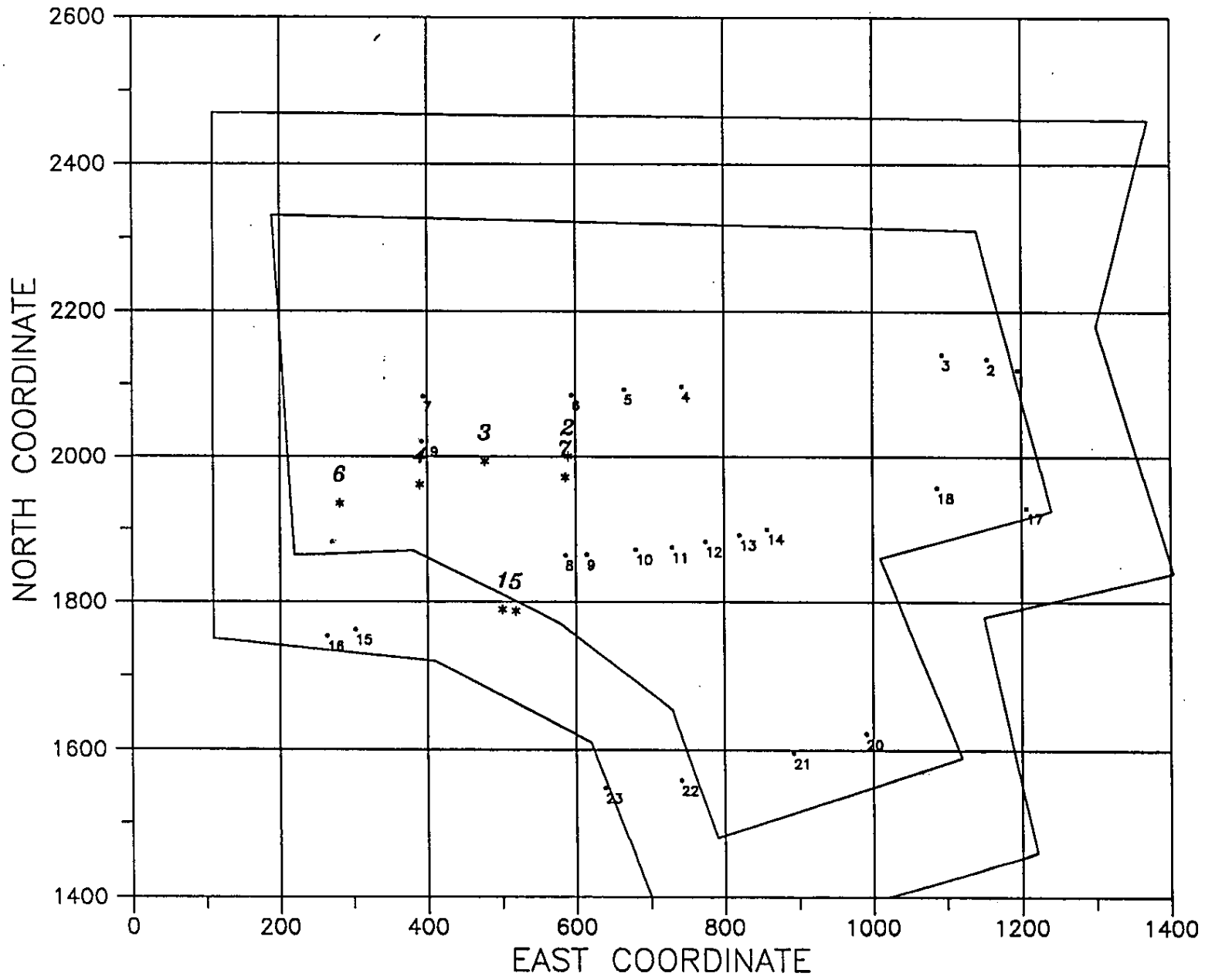
INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

TEST LOCATIONS

Rpt. No. 52–10

• • • • • Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-10 DATE: 10-10-87

PROJECT: Cell 717 Clay Cap WLFE REP: T. Vrenick

PROJECT NO: 87B052 CONTRACTOR: Sussex

WEATHER: Clear, 60's to 80's EQUIPMENT: 235 Backhoe, D6 Dozer 3-DJB'S, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 7:15. Sussex was continuing the lift on the southern part of 717. They also added a lift to the vertical liner on the south side of 717. Test (No. 1) was performed on this lift. Another lift was then placed on the vertical liner and compacted. Test (No. 5) was performed there. The lift on the southern part of the cap was completed and tests No. 2, 4, 6 and 7 performed. I left the site at 14:45.

FIELD DATA

Point No.	N Coord	E Coord	Elev	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1	1790	501	110.4	21.5	101.9	93.5
2	2001	590	121.8	21.6	103.4	94.9
3	1994	478	120.3	22.4	101.4	93.0
4	1962	390	118.9	20.7	103.4	94.8
5	1788	519	110.7	20.7	104.0	95.4
6	1936	282	117.1	22.1	101.3	92.9
7	1972	586	120.9	21.5	103.2	94.7

LABORATORY DATA

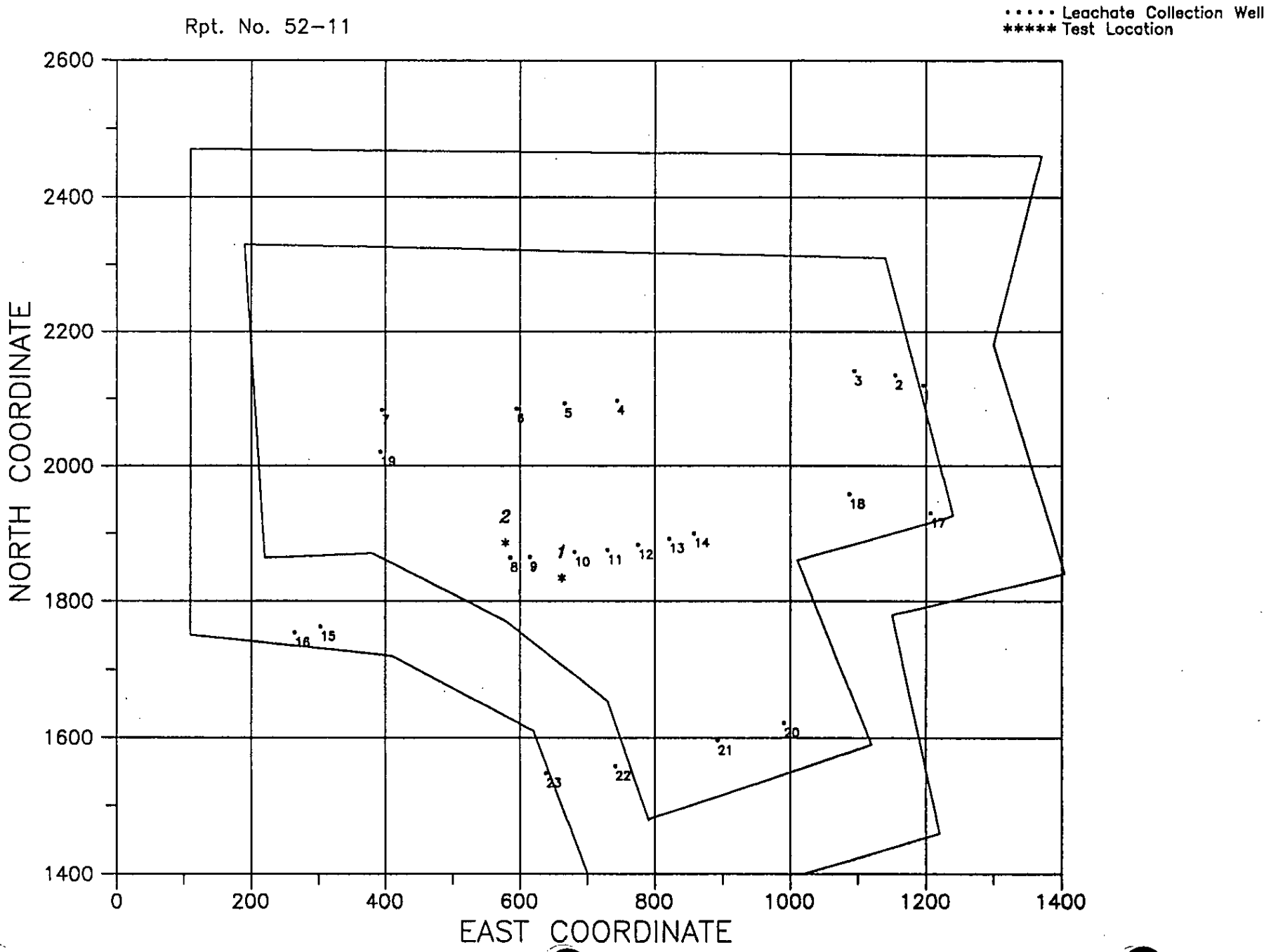
Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
5	48/32	--	20.7	--	--

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-11



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-11	DATE:	10/12/87
PROJECT:	Cell 717 Clay Cap	WLFE REP:	Tom Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 50's - 80's	EQUIPMENT:	235 Backhoe, 3-DJB's D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 7:15. Two tests (No. 1 & 2) were taken in the southeast corner. Sussex then moved activities to the north side and began a lift there. I left the site at 16:45.

FIELD DATA

Point No.	N Coord	E Coord	Elev	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1	1834	662	118.0	20.1	106.4	97.6
2	1886	579	118.2	18.7	104.9	96.2

LABORATORY DATA - None Performed

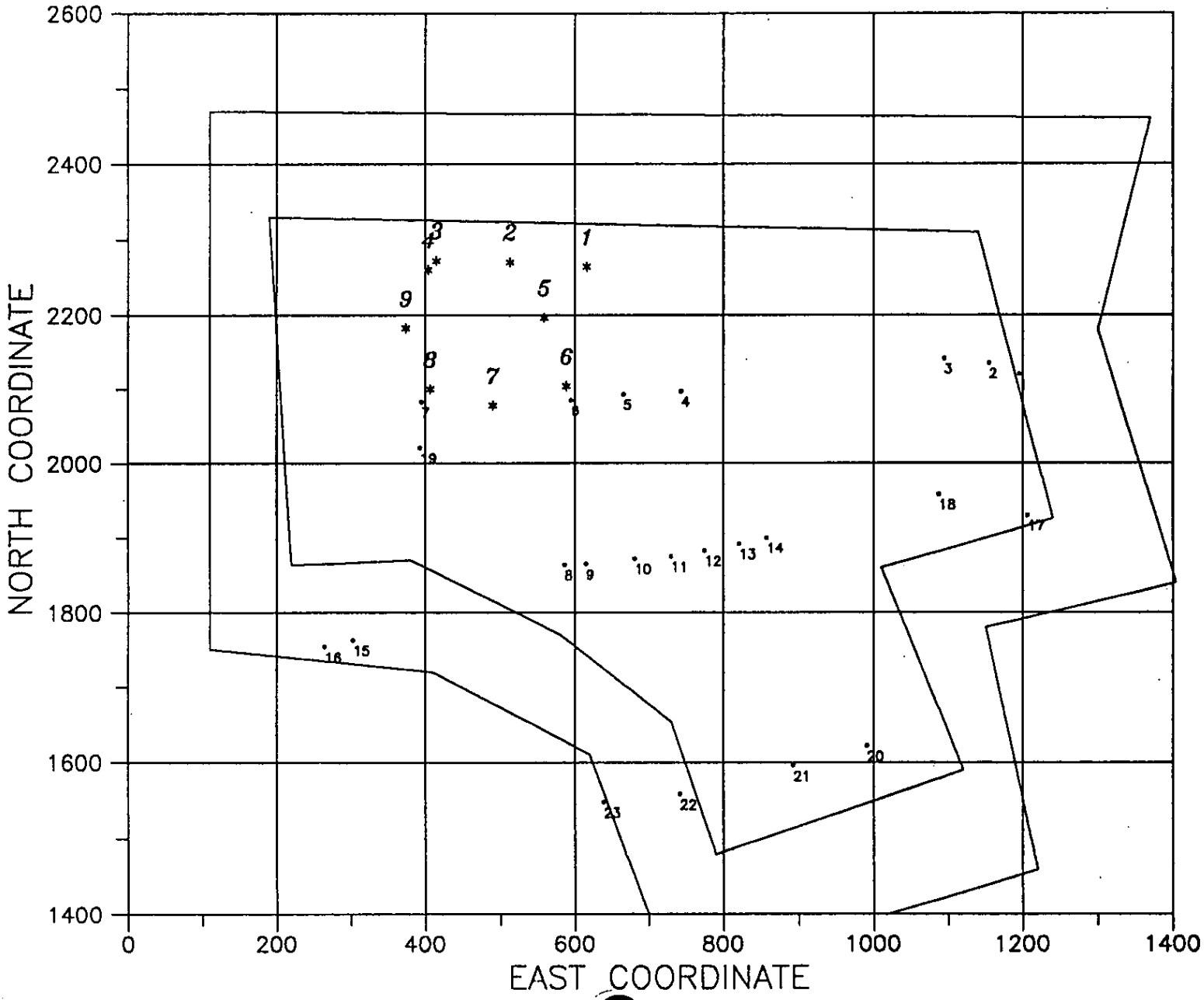
INSPECTOR Thomas A. Vrenick ENGINEER Victor R Donald

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-12

• • • • • Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-12
PROJECT: Cell 717 Clay Cap
PROJECT NO: 87B052
WEATHER: Clear, 50's - 80's

DATE: 10/13/87
WLFE REP: Tom Vrenick
CONTRACTOR: Sussex
EQUIPMENT: 235 Backhoe, 3-DJB's D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 7:15. Sussex was working on the lift on the north side. They finished this lift at noon and tests (No. 1 through 9) were run in this area. Sussex then began a lift in the ditch on the north side. I left the site at 16:45.

FIELD DATA

Point No.	N Coord	E Coord	Elev	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1	2264	616	117.9	20.3	104.1	95.5
2	2270	513	117.8	21.8	101.9	93.5
3	2272	415	117.5	20.0	105.1	96.4
4	2260	404	119.6	20.5	103.6	95.1
5	2196	559	119.7	20.7	103.5	94.9
6	2104	589	121.8	22.1	102.1	93.7
7	2078	490	121.8	20.3	103.7	95.1
8	2100	407	120.8	21.0	103.5	94.9
9	2182	374	119.1	20.7	104.5	95.9

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
6	37/18	2.0×10^{-9}	23.8	99.7	Hydrometer

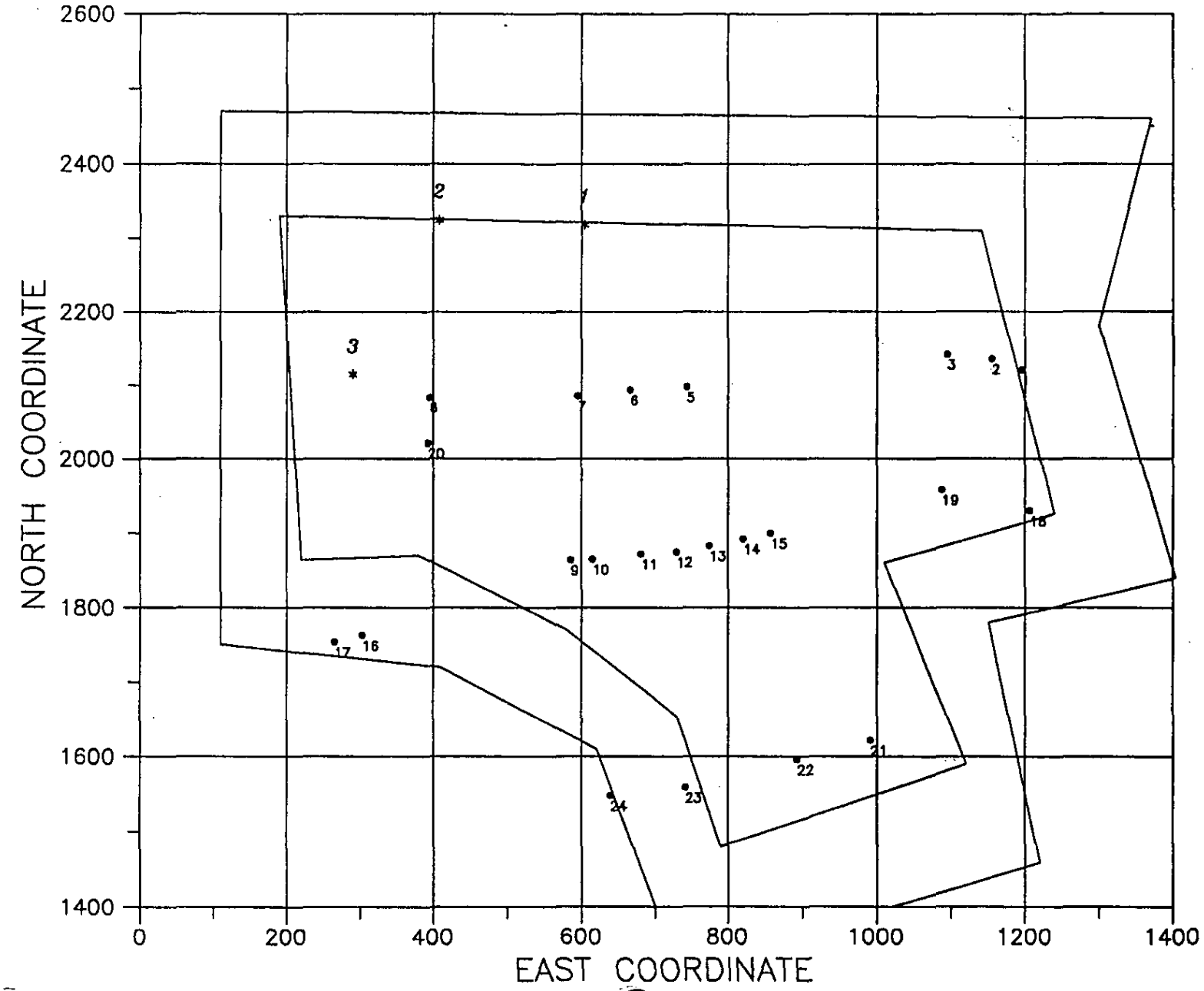
INSPECTOR Thomas A. Vrenick ENGINEER Victor R Donald

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-13

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-13
PROJECT: Cell 717 Clay Cap
PROJECT NO: 87B052
WEATHER: Clear, 50's - 80's

DATE: 10/14/87
WLFE REP: Tom Vrenick
CONTRACTOR: Sussex
EQUIPMENT: 235 Backhoe, 3-DJB's D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 7:15. Sussex began a lift in the ditch on the north side of Cell 717. This lift was continued through the ditch that circles this portion of Cell 717. Three tests (No. 1 through 3) were run on this lift. After this lift was finished, Sussex began another lift in the ditch. I left the site at 16:45.

FIELD DATA

Point No.	N Coord	E Coord	Elev	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1	2318	604	113.8	21.4	99.5	91.3
2	2324	408	113.3	19.9	102.2	93.7
3	2114	290	111.3	20.1	104.5	95.8

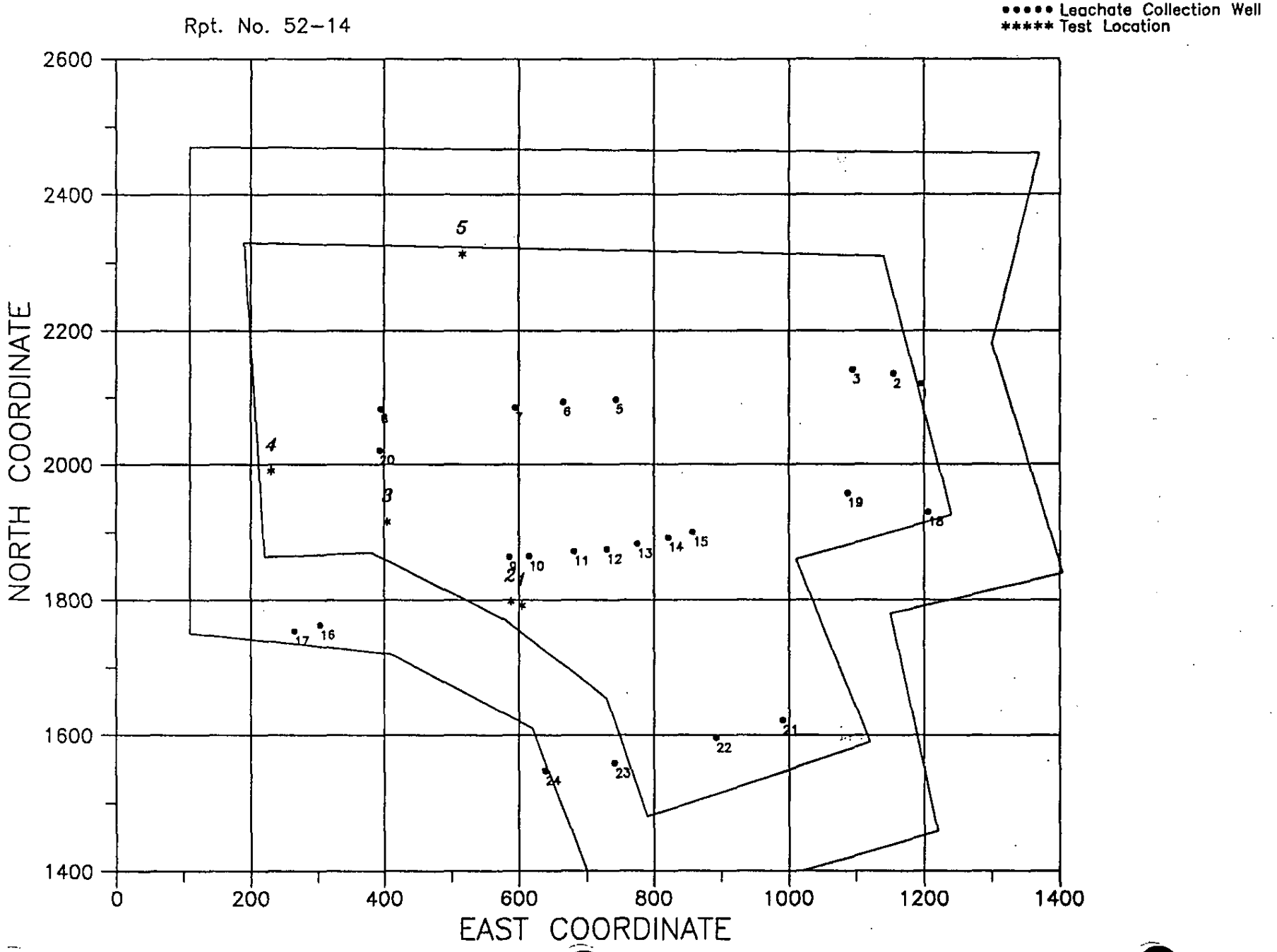
LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Victor R Donald

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-14



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-14
DATE: 10/15/87
PROJECT: Cell 717 Clay Cap
WLFE REP: Tom Vrenick
PROJECT NO: 87B052
CONTRACTOR: Sussex
WEATHER: Clear, 50's - 80's
EQUIPMENT: 235 Backhoe, 3-DJB's D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 7:15. I performed a test (No. 1) in the south ditch. Sussex continued the lift in the ditch. The lift was completed and I performed four tests (No. 2 through 5). Sussex then began a lift on the southern half of the clay cap. I left the site at 16:45.

FIELD DATA

Point No.	N Coord	E Coord	Elev	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1	1792	604	110.7	18.9	106.6	97.8
2	1798	588	112.4	21.0	100.8	92.5
3	1916	405	114.9	19.5	103.3	94.8
4	1991	230	113.7	21.4	100.2	91.9
5	2313	516	115.3	20.7	100.8	92.4

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
5	40/23	--	21.3	--	--

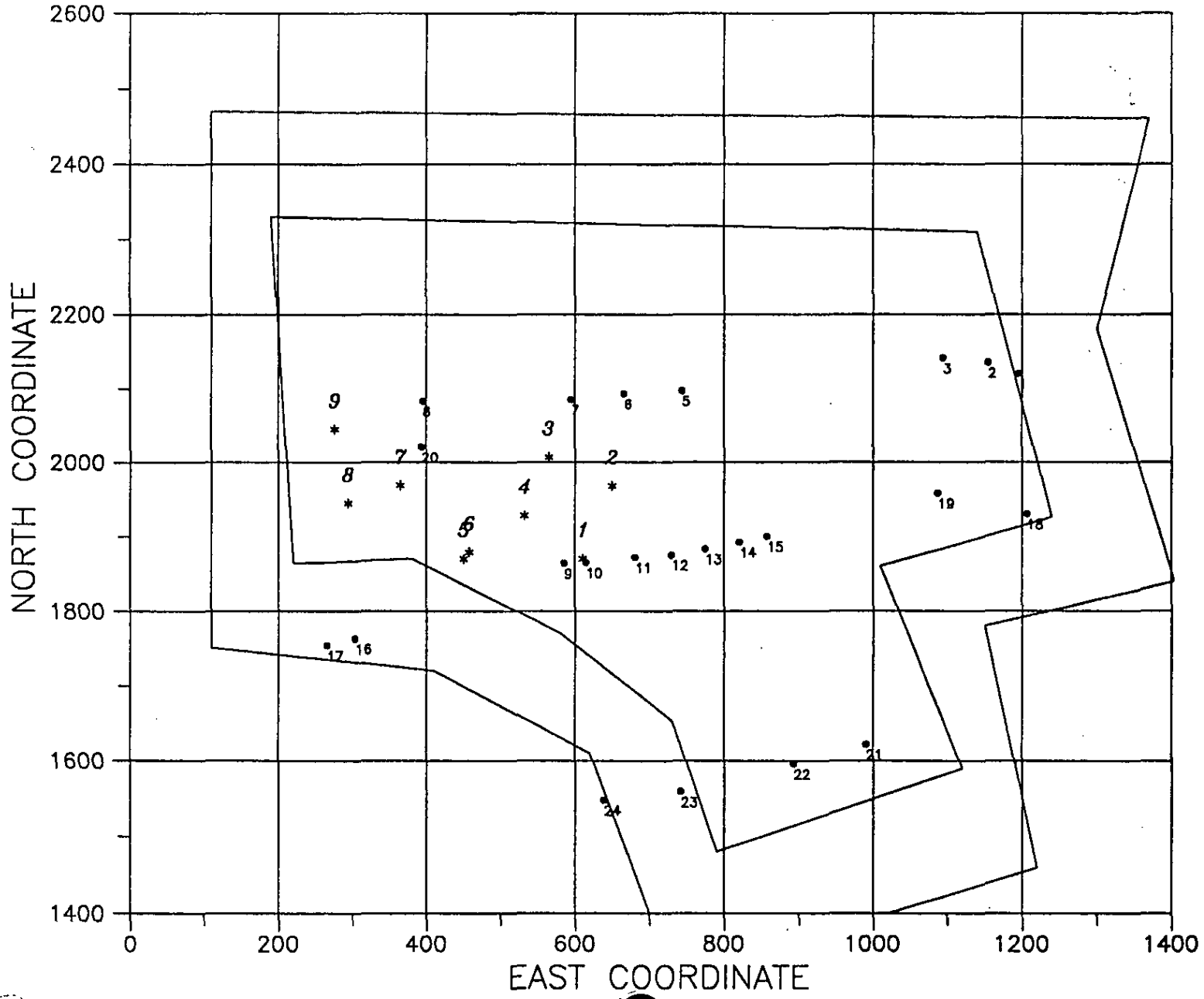
INSPECTOR Thomas A. Vrenick ENGINEER Victor R Donald

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52–15

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-15	DATE:	10/16/87
PROJECT:	Cell 717 Clay Cap	WLFE REP:	Tom Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 50's - 80's	EQUIPMENT:	235 Backhoe, 3-DJB's D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 7:00. Sussex was continuing a lift on the southern portion of the cap area. Water was applied to the previous lift before the next lift was placed. This lift was finished and compacted. Nine tests (No. 1 through 9) were performed on this lift. Sussex then started a lift on the north side. I left the site at 18:00.

FIELD DATA

Point No.	N Coord	E Coord	Elev	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1	1870	611	118.8	19.9	102.9	94.4
2	1968	650	122.0	18.6	106.0	97.3
3	2007	565	122.4	19.7	103.8	95.2
4	1928	532	119.8	21.8	100.1	91.8
5	1870	451	117.5	22.0	98.6	90.5
6	1879	458	117.7	21.1	102.6	94.1
7	1969	365	120.0	23.2	100.7	92.4
8	1945	294	118.3	19.4	103.8	95.2
9	2045	276	118.5	21.4	101.4	93.0

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
7	37/20	--	22.9	--	--

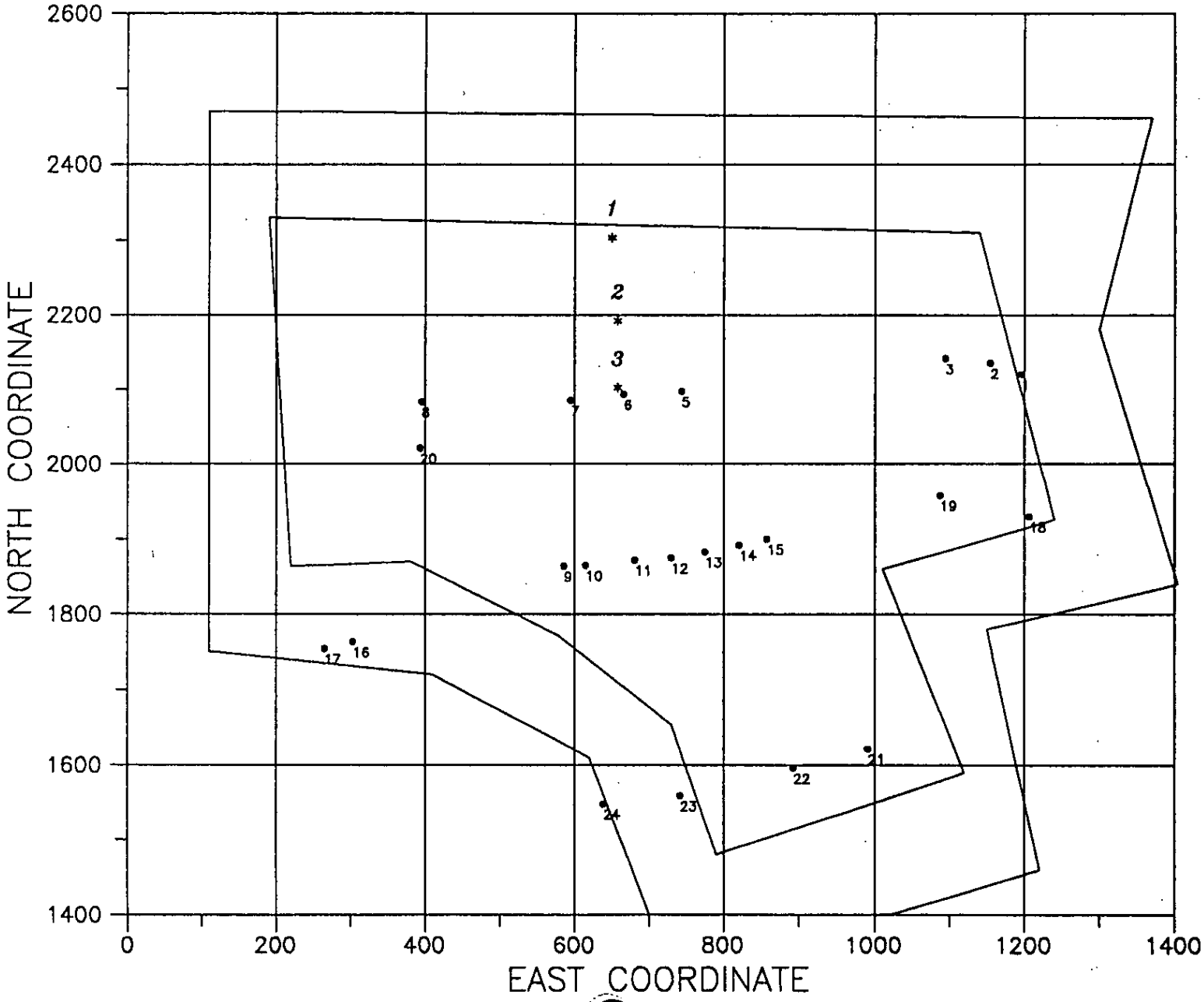
INSPECTOR Thomas A. Vrenick ENGINEER Victor R Donald

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52–16

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-16	DATE:	10/19/87
PROJECT:	Cell 717 Clay Cap	WLFE REP:	Tom Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 60's - 80's	EQUIPMENT:	235 Backhoe, 3-DJB's D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 7:00. Sussex was continuing a lift on the north side. The previous lift was dampened by the water truck before the next lift was placed. A survey crew from Brown and Butler was on site today to set temporary grade stakes. Three tests were run (No. 1 through 3). The area of Test 1 will be reworked tomorrow and retested. I left the site at 16:30.

FIELD DATA

Point No.	N Coord	E Coord	Elev	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1	2303	650	116.58	22.8	98.2	90.1
2	2192	658	120.38	21.0	101.2	92.9
3	2102	658	122.66	19.7	103.3	94.5

LABORATORY DATA

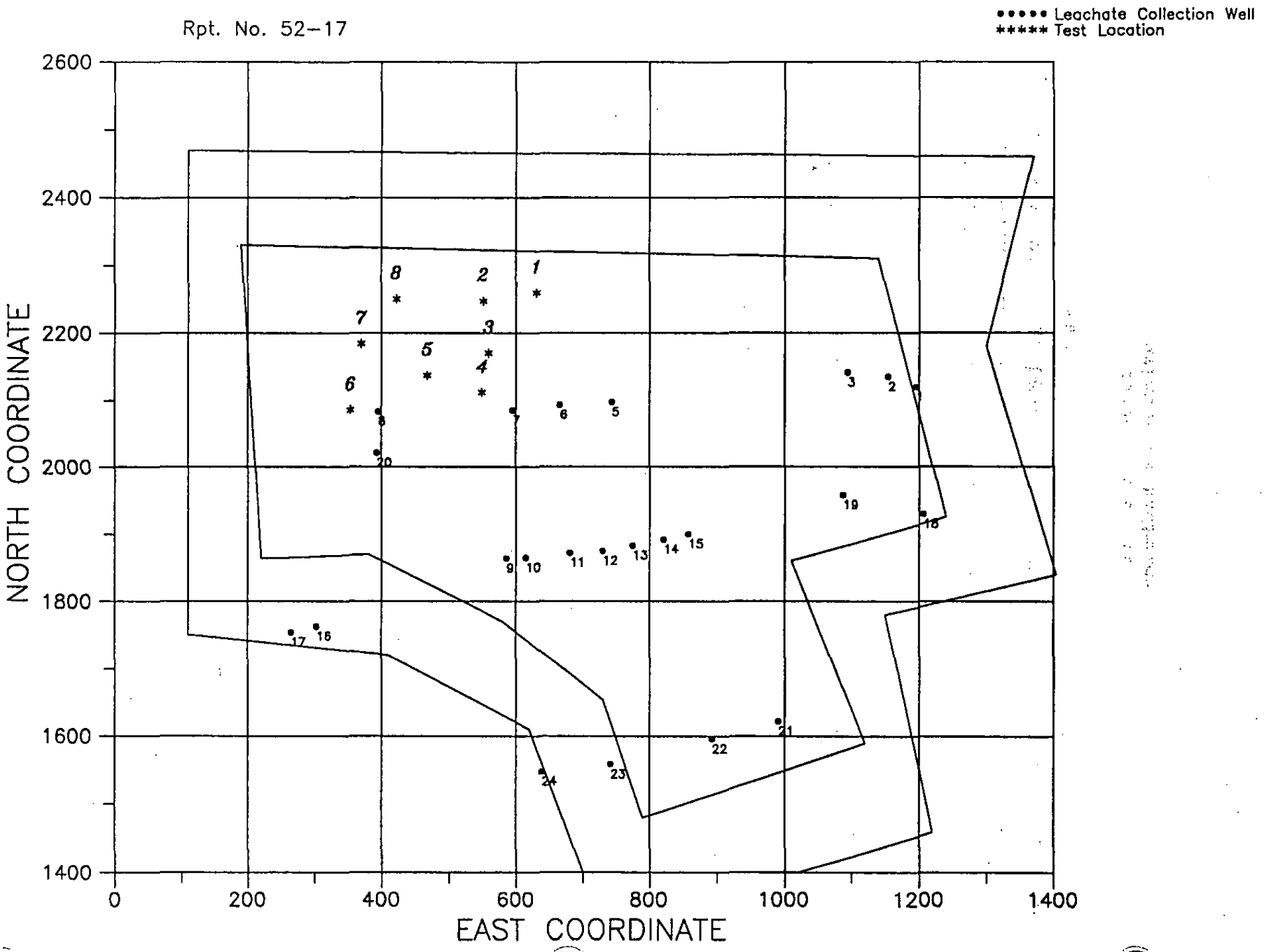
Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
1	37/20	--	22.9	--	Hydrometer
2	37/19	2.0×10^{-8}	21.1	102.1	--

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-17



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-17	DATE:	10/20/87
PROJECT:	Cell 717 Clay Cap	WLFE REP:	Tom Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 60's - 80's Windy, rain in late afternoon	EQUIPMENT:	235 Backhoe, 3-DJB's D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 7:00. Sussex reworked the area of Test No. 1. They also continued the lift on the north side. Test No. 1 was performed in the reworked area. Sussex completed this lift and tests (No. 2 through 8) were performed. They then began a lift on the south side, but it began to rain. Sussex shut down activities at 16:00 and I left the site.

FIELD DATA

Point No.	N Coord	E Coord	Elev	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1	2259	631	118.9	19.6	103.2	94.7
2	2247	551	119.0	19.5	101.9	93.5
3	2170	559	121.0	19.6	105.3	96.6
4	2112	549	122.3	20.7	102.1	93.6
5	2137	468	121.4	20.9	98.8	90.7
6	2086	354	120.7	20.8	101.9	93.5
7	2184	370	119.9	21.3	101.8	93.4
8	2250	422	119.0	20.3	105.5	96.8

LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Victor R. Donald

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-18	DATE:	10/21/87
PROJECT:	Cell 717 Clay Cap	WLFE REP:	Tom Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 50's - 60's Windy	EQUIPMENT:	235 Backhoe, 3-DJB's D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 7:00. Yesterday's rain created wet conditions. Sussex hauled additional material for the lift, but did not compact the lift. The DJBs created deep ruts on the lift just completed on the north side. They planned to rework those areas that were damaged. They continued the lift on the south side and the ditch. I left the site at 16:30.

FIELD DATA - None Performed

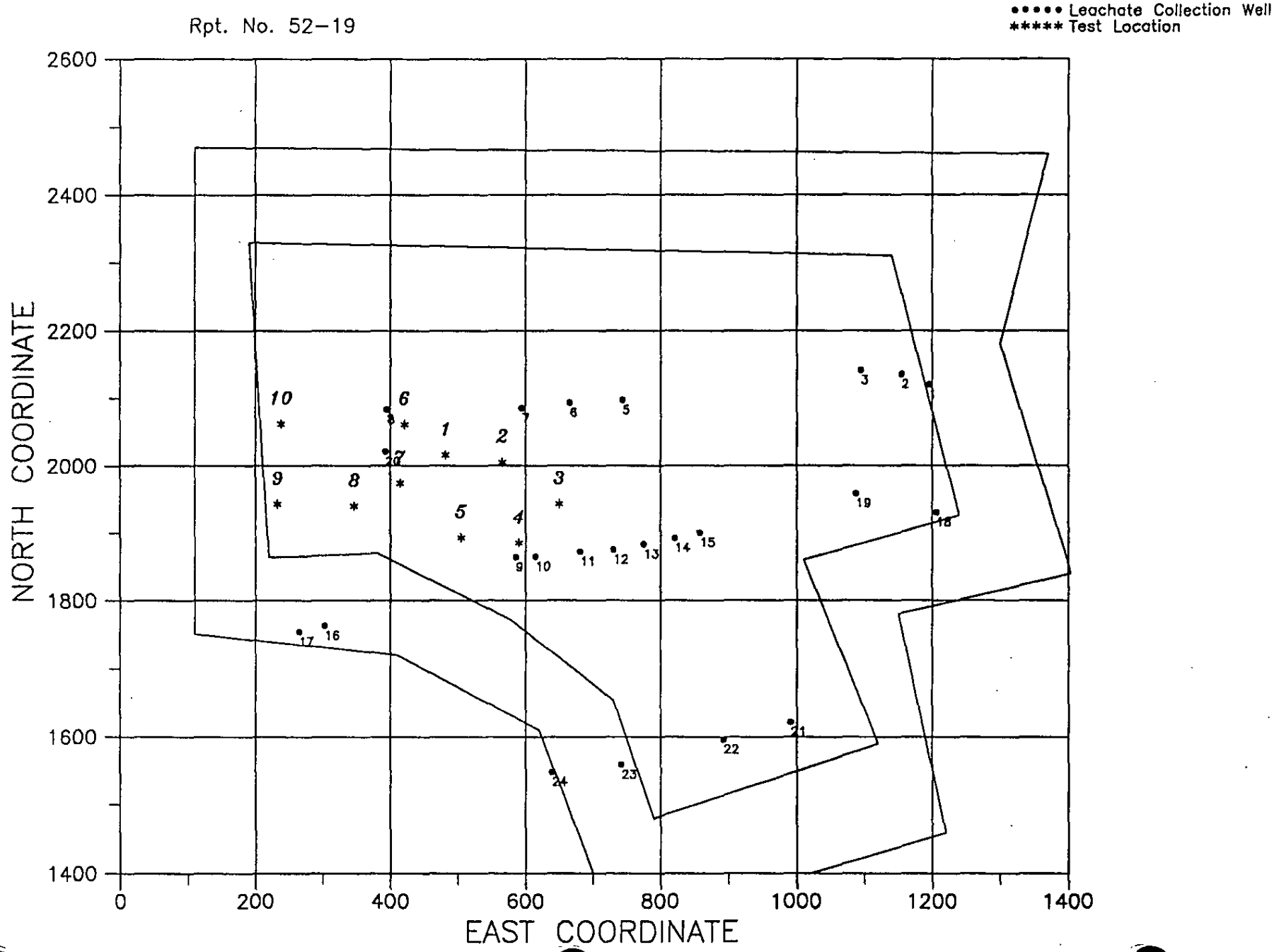
LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Victor R. Donald

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-19



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-19
PROJECT: Cell 717 Clay Cap
PROJECT NO: 87B052
WEATHER: Clear, 60's - 70's

DATE: 10/22/87
WLFE REP: Tom Vrenick
CONTRACTOR: Sussex
EQUIPMENT: 235 Backhoe, 3-DJB's D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 7:15. Sussex continued the lift on the south side. After the lift was compacted, I ran Tests No. 1 through 10 on this lift. Sussex then moved back to the areas that had been damaged by the DJBs during hauling and reworked them. After completing this, they started a lift in the ditch on the north side. I left the site at 16:15.

FIELD DATA

Point No.	N Coord	E Coord	Elev	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1	2016	482	122.1	18.7	106.5	97.7
2	2005	566	123.0	20.7	101.1	92.7
3	1943	650	122.2	19.2	104.9	96.2
4	1885	590	119.6	20.4	104.5	95.8
5	1893	505	119.0	20.3	101.5	93.1
6	2061	421	122.1	21.7	100.0	91.7
7	1974	414	120.8	21.4	101.8	93.4
8	1940	347	119.5	22.6	100.1	91.8
9	1943	233	115.0	20.6	101.9	93.5
10	2062	238	116.1	20.7	101.3	93.0

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
1	47/30	3.0×10^{-9}	19.4	106.5	Hydrometer
5	48/33	--	21.1	--	--
9	46/31	--	22.1	--	--
10	39/25	--	20.2	--	--

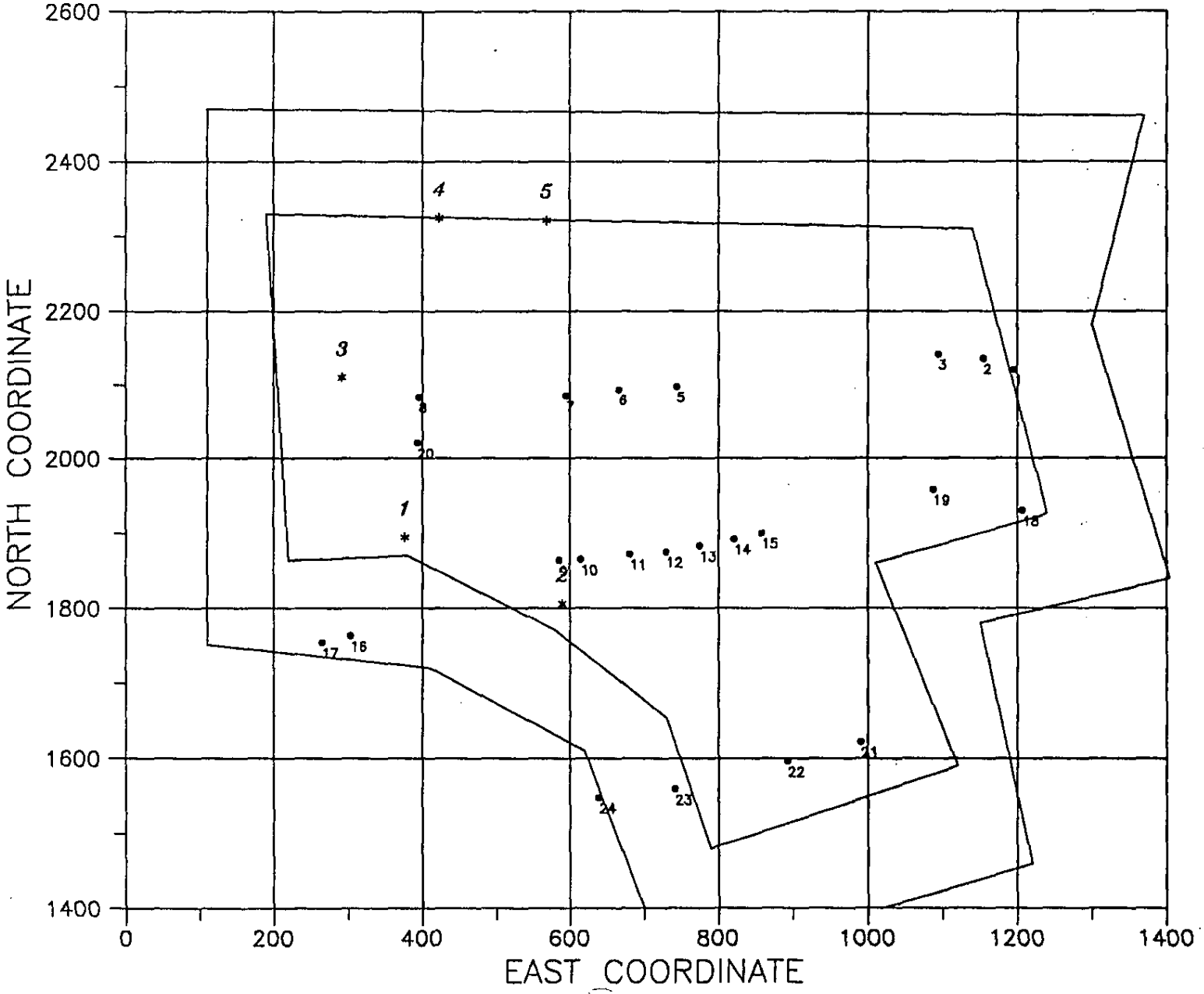
INSPECTOR Tom Vrenick ENGINEER Jack O'R J

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-20

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-20
PROJECT: Cell 717 Clay Cap
PROJECT NO: 87B052
WEATHER: Clear, 60's - 70's

DATE: 10/23/87
WLFE REP: Tom Vrenick
CONTRACTOR: Sussex
EQUIPMENT: 235 Backhoe, 3-DJB's D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 7:15. Sussex continued the lift in the ditch. Tests (No. 1 through 5) are performed on this lift. They then began another lift on the west and south ditch. This lift was completed and the entire area dressed off in the event of rain. I left the site at 16:15.

FIELD DATA

Point No.	N Coord	E Coord	Elev	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1	1895	376	116.8	19.8	103.6	95.0
2	1806	590	113.1	20.1	101.1	92.8
3	2110	292	114.8	19.1	104.2	95.5
4	2324	423	115.6	20.5	101.6	93.2
5	2321	569	115.3	20.9	101.2	92.8

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
3	44/28	--	20.2	--	--

INSPECTOR Thomas A. Vrenick ENGINEER Victor R Donald

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-21	DATE:	10/26/87
PROJECT:	Cell 717 Clay Cap	WLFE REP:	Tom Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, rain	EQUIPMENT:	235 Backhoe, 3-DJB's D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 7:00. Sussex began hauling borrow for clay cap construction even though rain appeared to be approaching. They began a lift on the west ditch, but it began to rain. Activities were planned to resume tomorrow if the weather permits. I left the site at 10:00.

FIELD DATA - None Performed

LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Victor R Donald

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-22
PROJECT: Cell 717 Clay Cap
PROJECT NO: 87B052
WEATHER: Clear, 60's

DATE: 10/27/87
WLFE REP: T. Vrenick
CONTRACTOR: Sussex
EQUIPMENT: 235 Backhoe, 2-DJBs

ACTIVITIES SUMMARY

I arrived on site at 7:00. The site was still very wet. They were not going to haul any clay cap material today, but would strip topsoil this afternoon. I left the site at 10:00.

FIELD DATA - None Performed

LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Victor R Donald

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-23 DATE: 10/28/87

PROJECT: Cell 717 Clay Cap WLFE REP: T. Vrenick

PROJECT NO: 87B052 CONTRACTOR: Sussex

WEATHER: Clear, 60's to 70's EQUIPMENT: 235 Backhoe, 2-DJBs

ACTIVITIES SUMMARY

I arrived on site at 8:30. Sussex was planning to strip topsoil only. I left the site temporarily at 9:00. I returned to the site at 15:00. A survey crew from Brown & Butler were just finishing the grade stakes. I discussed the developments with John Arbuthnot and left the site at 16:30.

FIELD DATA - None Performed

LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Victor R Donald

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-24	DATE:	10/29/87
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 60's	EQUIPMENT:	235 Backhoe, 3-DJBs

ACTIVITIES SUMMARY

I arrived on site at 7:15. Sussex planned to haul topsoil only today. No other activities were taking place on Cell 717. I left the site at 15:45.

FIELD DATA - None Performed

LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Victor R Donald

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-25 DATE: 10/30/87

PROJECT: Cell 717 Clay Cap WLFE REP: T. Vrenick

PROJECT NO: 87B052 CONTRACTOR: Sussex

WEATHER: Clear, 60's to 70's EQUIPMENT: 235 Backhoe, 2-DJBs

ACTIVITIES SUMMARY

I arrived on site at 9:00. Sussex was hauling clay cap material. They placed a lift in the ditch ringing the cap. The material was very wet due to the rain earlier in the week. Large ruts were cut as the DJBs rolled over the lift being placed. They were unable to run the compactor over this lift until late in the day because of the ruts and high moisture content. They quit hauling at 14:30 and smoothed out the ruts and compacted the lift at that time. Two DJBs hauled topsoil until the end of the day. I left the site at 16:00.

FIELD DATA - None Performed

LABORATORY DATA - None Performed

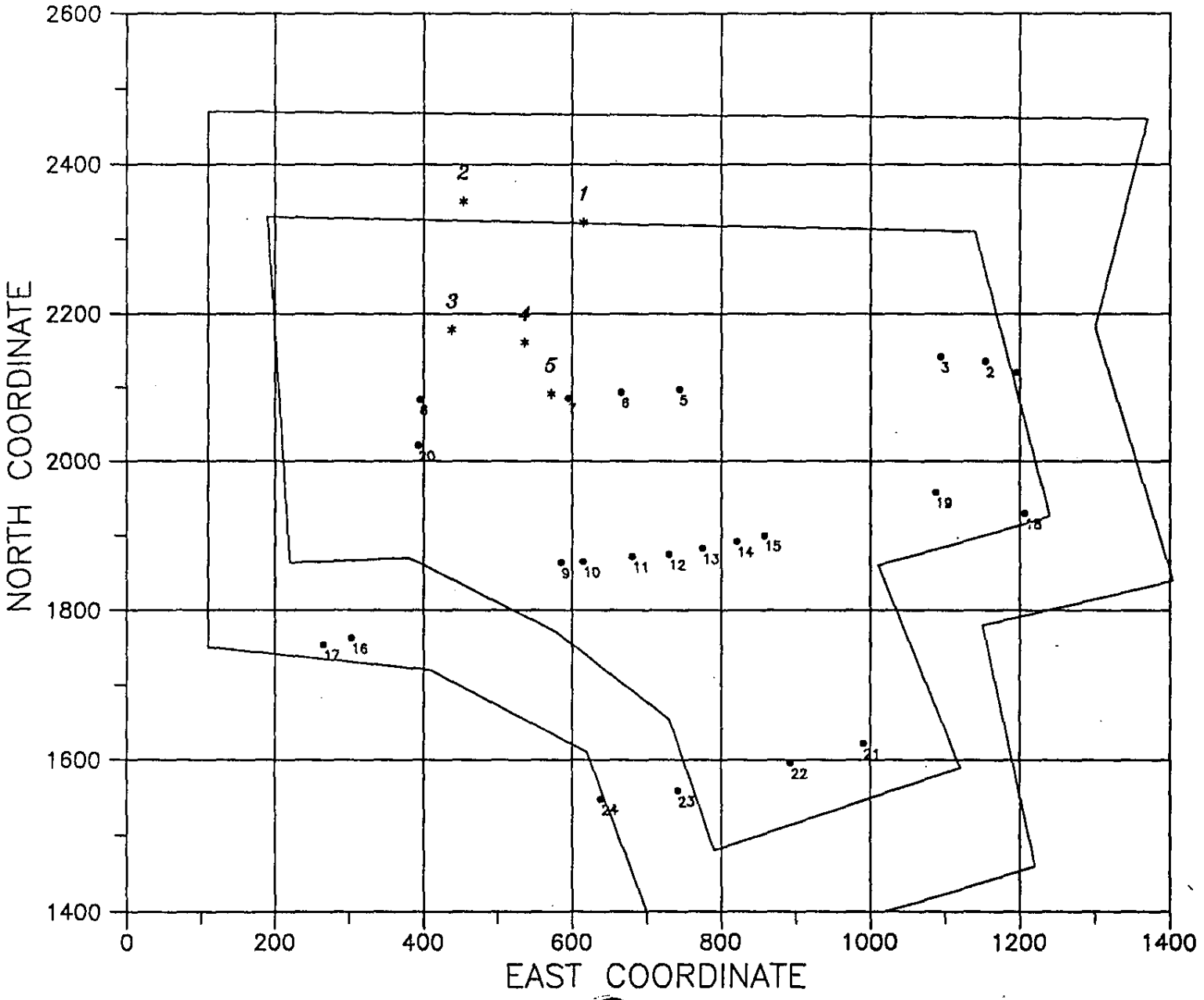
INSPECTOR Thomas A. Vrenick ENGINEER Victor A. Donald

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-26

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-26
PROJECT: Cell 717 Clay Cap
PROJECT NO: 87B052
WEATHER: Clear, 60's to 70's

DATE: 11/02/87
WLFE REP: T. Vrenick
CONTRACTOR: Sussex
EQUIPMENT: 235 Backhoe, 2-DJBs
D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 0700. Sussex strips topsoil until 1000. During this time they also rerolled the lift that was placed Friday. Five tests are taken on this lift. Sussex then began bringing the cap to grade. They continued this until the end of the day. I left the site at 1700.

FIELD DATA

Point No.	N Coord	E Coord	Elev	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1	2322	615	115.46	16.8	109.7	100.7
2	2350	454	115.05	20.0	104.5	95.9
3	2178	439	121.46	17.2	103.1	94.6
4	2161	536	122.01	18.5	102.0	93.6
5	2091	572	124.24	19.0	102.4	94.0

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
3	48/32	6.0×10^{-10}	20.5	108.4	Hydrometer
4	53/35	--	21.7	--	--

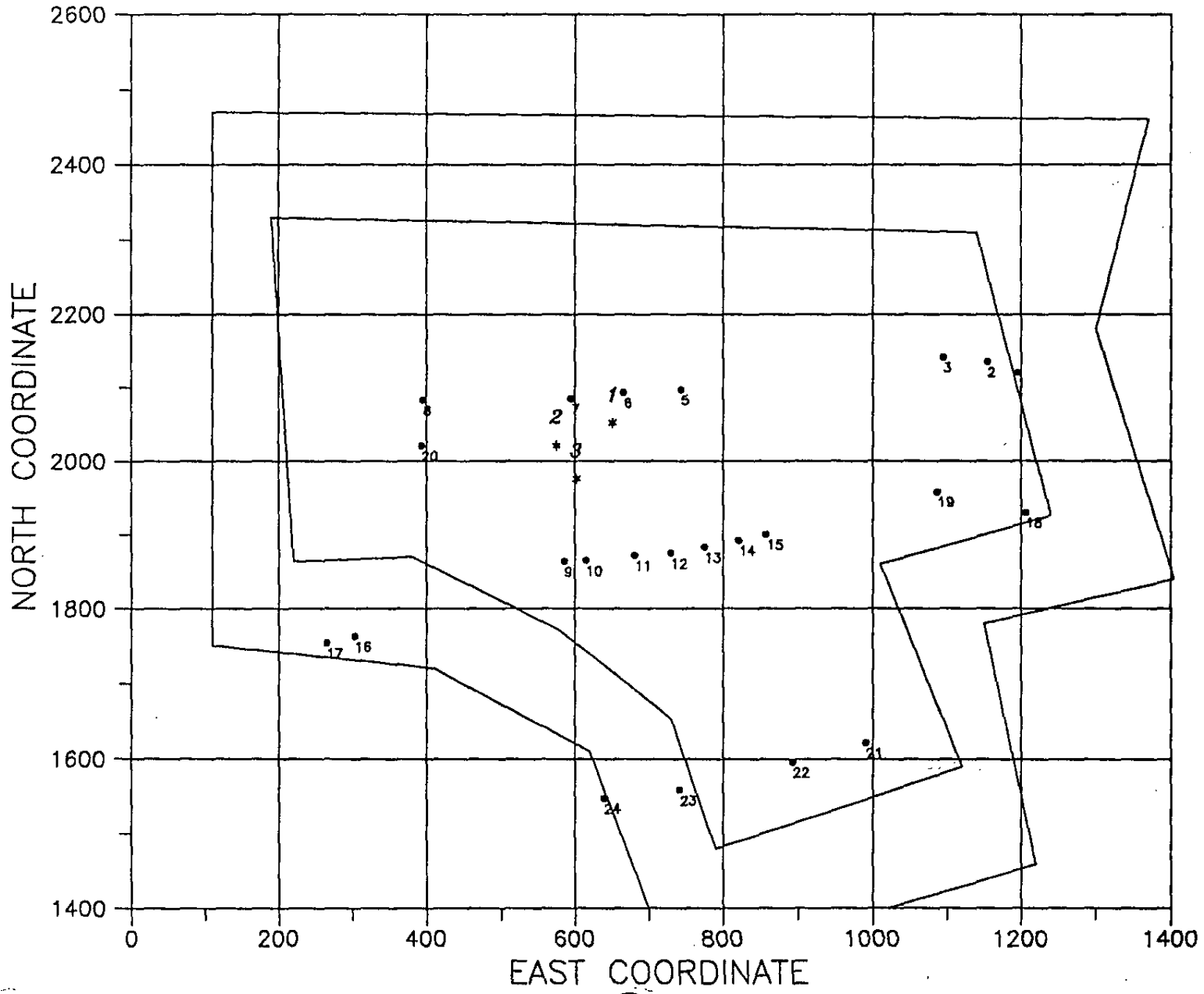
INSPECTOR Thomas A. Vrenick ENGINEER Victor A. Ewald

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-27

●●●●● Leachate Collection Well
✱✱✱✱✱ Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-27
PROJECT: Cell 717 Clay Cap
PROJECT NO: 87B052
WEATHER: Clear

DATE: 11/03/87
WLFE REP: T. Vrenick
CONTRACTOR: Sussex
EQUIPMENT: 235 Backhoe, 2-DJBs
D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 1330. Sussex continued to bring some low areas up to grade. Three tests (No. 1 through 3) were run on these areas. At the end of the day, Sussex felt they had all areas to grade. The survey crew from Brown & Butler will be on site 11/4/87 to do cross-sections. I left the site at 1600.

FIELD DATA

Point No.	N Coord	E Coord	Elev	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1	2052	651	124.93	15.5	105.8	97.1
2	2021	575	123.81	17.4	99.9	91.6
3	1976	602	123.09	18.3	102.9	94.4

LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Victor L. Lund

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-28
PROJECT: Cell 717 Clay Cap
PROJECT NO: 87B052
WEATHER: Clear, 60's to 70's

DATE: 11/04/87
WLFE REP: T. Vrenick
CONTRACTOR: Sussex
EQUIPMENT: 235 Backhoe, 3-DJBs
D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 0700. The survey crew from Brown & Butler arrived on site at 0800 and began setting up to do cross-sections. During this time Sussex put a lift in the ditch. This material was very wet, so they let it dry out before compacting. These areas will be tested 11/4/87. I left the site at 1700.

FIELD DATA - None Performed

LABORATORY DATA - None Performed

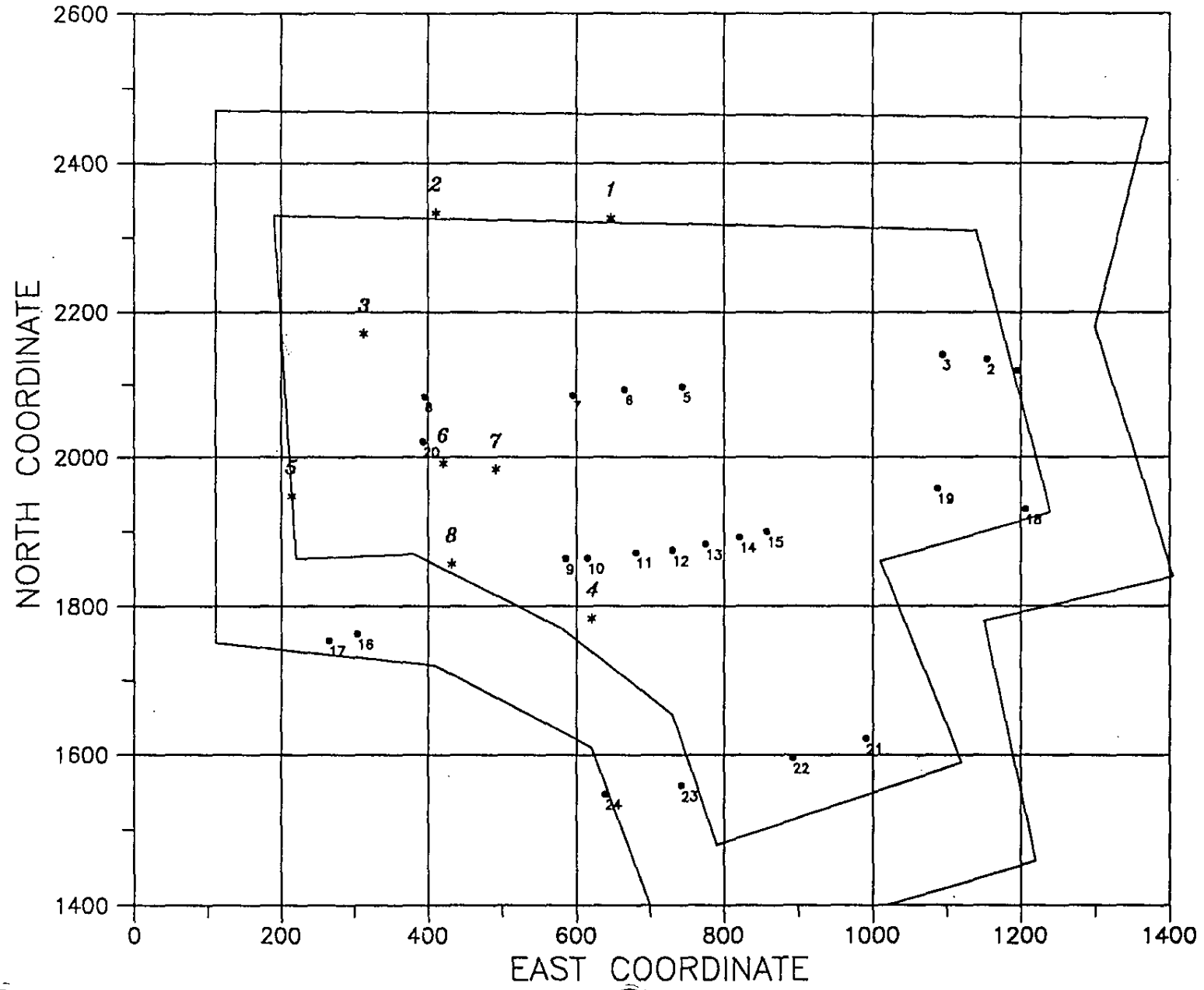
INSPECTOR Thomas A. Vrenick ENGINEER Victor A. Indelicato

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-29

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-29
PROJECT: Cell 717 Clay Cap
PROJECT NO: 87B052
WEATHER: Clear, 60's to 70's

DATE: 11/05/87
WLFE REP: T. Vrenick
CONTRACTOR: Sussex
EQUIPMENT: 235 Backhoe, 3-DJBs
D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 0730. The lift from the previous day was compacted and tested (No. 1 through 6). They started another lift in the ditch. The Brown & Butler survey crew arrived on site at 1000 and we found out we are low in a few areas. Two tests were taken in these areas. Brown & Butler will be back on 11/6/87 to check these areas. I left the site at 1700.

FIELD DATA

Point No.	N Coord	E Coord	Elev	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1	2326	647	116.2	20.2	103.1	94.6
2	2333	411	115.9	20.1	103.4	94.9
3	2170	313	115.7	20.1	108.1	99.2
4	1784	621	113.0	20.7	102.9	94.4
5	1948	214	115.2	19.9	103.0	94.5
6	1992	421	121.8	18.3	106.2	97.5
7	1984	492	122.4	16.7	102.4	93.9
8	1857	432	115.7	20.1	104.2	95.6

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
6	45/28	2.0×10^{-9}	18.1	112.7	Hydrometer

INSPECTOR Thomas A. Vrenick ENGINEER Jack Carl

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-30
PROJECT: Cell 717 Clay Cap
PROJECT NO: 87B052
WEATHER: Clear

DATE: 11/06/87
WLFE REP: T. Vrenick
CONTRACTOR: Sussex
EQUIPMENT: 235 Backhoe, 3-DJBs
D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 0730. Sussex continued the lift in the west and south ditch areas. The survey crew from Brown & Butler arrived on site at 0800. They checked the low areas and they came up fine. Sussex finished the lift in the ditch and, after lunch, began hauling topsoil onto the clay cap. They continued this until the end of the day. I left the site at 1630.

FIELD DATA - None Performed

LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Victor R Donald

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-31
PROJECT: Cell 717 Clay Cap
PROJECT NO: 87B052
WEATHER: Rain

DATE: 11/09/87
WLFE REP: T. Vrenick
CONTRACTOR: Sussex
EQUIPMENT: None

ACTIVITIES SUMMARY

I arrived on site at 0700. I checked with G. E. Brister (Sussex) and he informed me that they will not be doing any work due to the rain. I spoke with John Arbuthnot (RES) and told him of Sussex's work plan. I left the site at 0730.

FIELD DATA - None Performed

LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Victor R Dodd

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-32
PROJECT: Cell 717 Clay Cap
PROJECT NO: 87B052
WEATHER: Cloudy

DATE: 11/10/87
WLFE REP: T. Vrenick
CONTRACTOR: Sussex
EQUIPMENT: None

ACTIVITIES SUMMARY

I arrived on site at 0700 and G. E. Brister (Sussex) informed me that no work will occur today. It is still too wet to haul. I left the site at 0830.

FIELD DATA - None Performed

LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Victor R Donald

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-33
PROJECT: Cell 717 Clay Cap
PROJECT NO: 87B052
WEATHER: Partly Cloudy
60's to 70's

DATE: 11/11/87
WLFE REP: T. Vrenick
CONTRACTOR: Sussex
EQUIPMENT: 235 Backhoe,
2-DJB's, D-6 Dozer

ACTIVITIES SUMMARY

I arrived on site at 0715. Sussex planned to haul topsoil today, so they moved the equipment to do so. They also graded the clay cap areas that they planned to haul topsoil They began hauling topsoil after lunch. I left the site at 1645.

FIELD DATA - None Performed

LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Victor R. Lindal

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-34	DATE:	11/12/87
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear to Partly Cloudy 60's to 70's	EQUIPMENT:	235 Backhoe, 2-DJB's, D-6 Dozer

ACTIVITIES SUMMARY

I arrived on site at 0700. Sussex continued to haul topsoil all day. I left the site at 1600.

FIELD DATA - None Performed

LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Victor R. Arnold

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-35
PROJECT: Cell 717 Clay Cap
PROJECT NO: 87B052
WEATHER: Partly Cloudy
60's to 70's

DATE: 11/13/87
WLFE REP: T. Vrenick
CONTRACTOR: Sussex
EQUIPMENT: 235 Backhoe,
2-DJB's, D-6 Dozer

ACTIVITIES SUMMARY

I arrived on site at 0700. Sussex hauled topsoil until noon. I left the area at 1200.

FIELD DATA - None Performed

LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Victor R. Arnold

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-36	DATE:	11/30/87
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 60's	EQUIPMENT:	235 Backhoe, 2-DJB's, D-6 Dozer

ACTIVITIES SUMMARY

I arrived on site at 0830. Sussex stripped topsoil in the Western Tract and stockpiled it on the completed portion of Cell 717. After lunch, Sussex began to expose the vertical liner along the northeast corner of Cell 717 in preparation for continuation of clay cap construction. I left the site at 1500.

FIELD DATA - None Performed

LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Victor R Dodel

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-37
PROJECT: Cell 717 Clay Cap
PROJECT NO: 87B052
WEATHER: Clear, 60's

DATE: 12/01/87
WLFE REP: T. Vrenick
CONTRACTOR: Sussex
EQUIPMENT: 235 Backhoe, 2-DJB's, D-6 Dozer

ACTIVITIES SUMMARY

I arrived on site at 1030. Sussex continued to expose the vertical liner along the northeast side of Cell 717. I left the site at 1500.

FIELD DATA - None Performed

LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Victor R. Donald

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-38	DATE:	12/02/87
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 50s to 60s	EQUIPMENT:	235 Backhoe, 2-DJB's, D-6 Dozer

ACTIVITIES SUMMARY

I arrived on site at 0830. Sussex was still exposing liner in the northeast corner of Cell 717. They finished exposing liner at 1530. A survey crew from Brown and Butler will be on site tomorrow to survey the exposed vertical liner and set waste grade stakes. I left the site at 1430.

FIELD DATA - None Performed

LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Peter R. Donald

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-39
PROJECT: Cell 717 Clay Cap
PROJECT NO: 87B052
WEATHER: Clear, 50s to 70s

DATE: 12/03/87
WLFE REP: T. Vrenick
CONTRACTOR: Sussex
EQUIPMENT: 235 Backhoe, 2-DJB's,2-D6 Dozers

ACTIVITIES SUMMARY

I arrived on site at 0700. Sussex began stripping topsoil from the Western Tract and stockpiled it on the completed area of Cell 717. A survey crew from Brown and Butler was on site to locate the exposed vertical liner and set waste grade stakes. They completed the survey at 1600 and Sussex will begin grading in the morning to final top of waste. I left the site at 1600.

FIELD DATA - None Performed

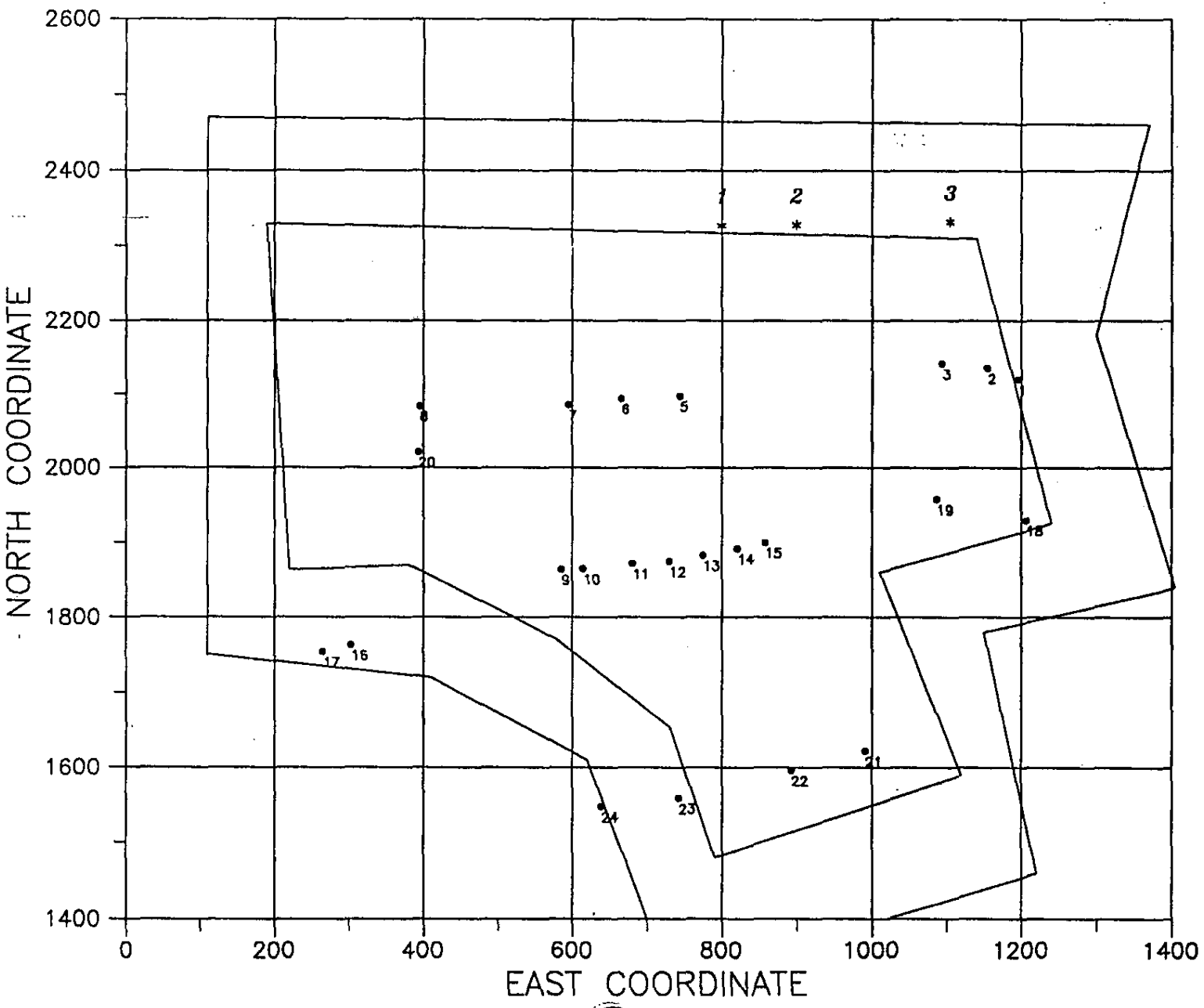
LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Victor R. Donald

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-40



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-40	DATE:	12/04/87
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 50's to 80's	EQUIPMENT:	225 Backhoe, D6 Dozer, 3-DJB'S, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 0730. Sussex was grading the waste to the proper elevation. A survey crew from Brown and butler was on site to assist Sussex and perform cross-sections for top of waste. They surveyed the cross-section for the northern portion of the area to be worked. I obtained three samples of the vertical liner for laboratory testing. Sussex plans to begin clay cap placement tomorrow.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1.	2327	800	106.5	16.6	111.5	102.3
2.	2328	900	105.1	21.5	104.0	95.4
3.	2332	1105	102.0	13.2(1)	119.1	109.3

Note: (1) Test conducted on original vertical liner tie-in.

LABORATORY DATA

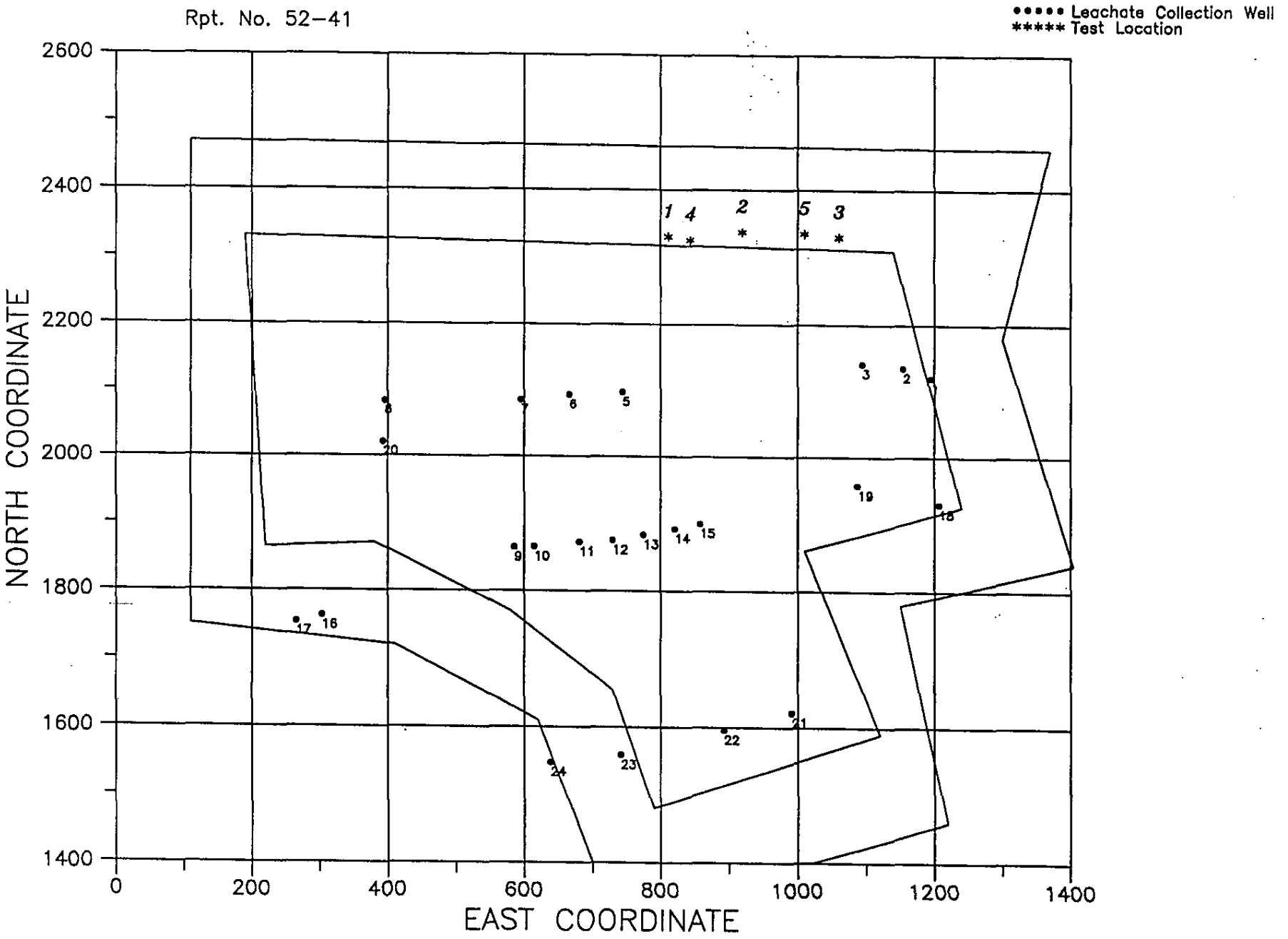
Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
1	46/27	$< 5.0 \times 10^{-10}$	16.1	114.9	-
2	52/33	2.0×10^{-9}	23.5	103.2	-
3	33/16	2.0×10^{-8}	12.6	118.0	-

INSPECTOR Thomas A. Vrenick ENGINEER Mark R. Fuller

ENCOR

TEST LOCATIONS

Rpt. No. 52-41



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-41
PROJECT: Cell 717 Clay Cap
PROJECT NO: 87B052
WEATHER: Clear, 40s to 60s

DATE: 12/05/87
WLFE REP: T. Vrenick
CONTRACTOR: Sussex
EQUIPMENT: 3-DJB's, D6 Dozer
235 Backhoe, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 0715. Sussex placed a lift on the vertical liner. Three tests are run on this lift (Points No. 1, 2 & 3). Sussex also began placing a lift on the 717D berm. They moved back to the vertical liner after the tests were completed. Another lift was placed and compacted. Two tests were run on this lift (Points No. 4 & 5). The third lift was placed on the vertical liner. It was compacted and will be tested Monday. I left the site at 1515.

FIELD DATA

Point No.	N Coord	E Coord	Elev	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1	2330	812	107.23	24.1	101.3	92.9
2	2337	920	105.93	20.6	104.8	96.1
3	2330	1060	104.16	19.4	105.5	96.8
4	2325	844	107.86	20.8	105.0	96.3
5	2335	1010	106.41	20.5	105.6	96.8

LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Victor R Donald

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-42	DATE:	12/10/87
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 60s	EQUIPMENT:	3-DJB's, D6 Dozer 235 Backhoe, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 0730. Sussex began the first lift of clay cap on the waste. No work was done on the vertical liner area as it was still too wet. This material was compacted, but no tests were run on it as it was too wet. I left the site at 1600.

FIELD DATA - None Performed

LABORATORY DATA - None Performed

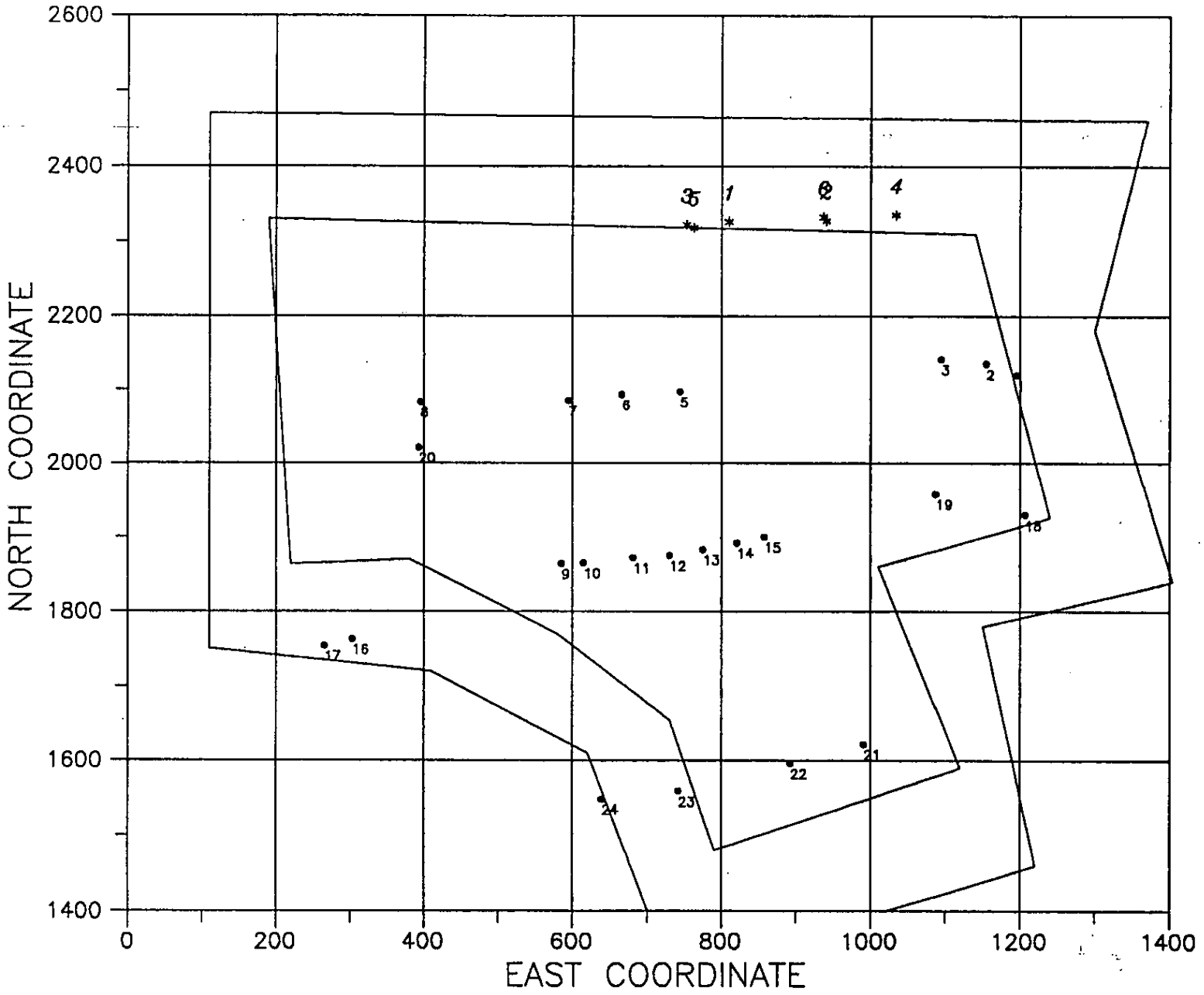
INSPECTOR Thomas A. Vrenick ENGINEER Victor R. Donald

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-43

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-43
DATE: 12/11/87
PROJECT: Cell 717 Clay Cap
WLFE REP: T. Vrenick
PROJECT NO: 87B052
CONTRACTOR: Sussex
WEATHER: Clear to partly cloudy 60s
EQUIPMENT: 3-DJB's, D6 Dozer 235 Backhoe, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 0730. Sussex continued the lift on the waste. They stripped approximately half of the last lift placed on the vertical liner. They then rerolled this lift and I ran two tests on it (Nos. 1 & 2). They proceeded to place a lift on the vertical liner and compacted it. I ran two tests on this lift (Nos. 3 & 4). They placed another lift on the vertical liner and compacted it. I ran two tests on this lift (Nos. 5 & 6).

FIELD DATA

Point No.	N Coord	E Coord	Elev	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1	2326	810	109.14	21.4	105.5	96.8
2	2327	941	107.69	21.6	105.2	96.5
3	2322	753	111.24	21.0	104.0	95.4
4	2335	1034	107.89	21.5	102.6	94.1
5	2318	763	111.79	20.6	105.5	96.8
6	2332	937	109.49	20.2	104.9	96.2

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
5	45/28	1.0×10^{-9}	20.5	107.1	Hydrometer

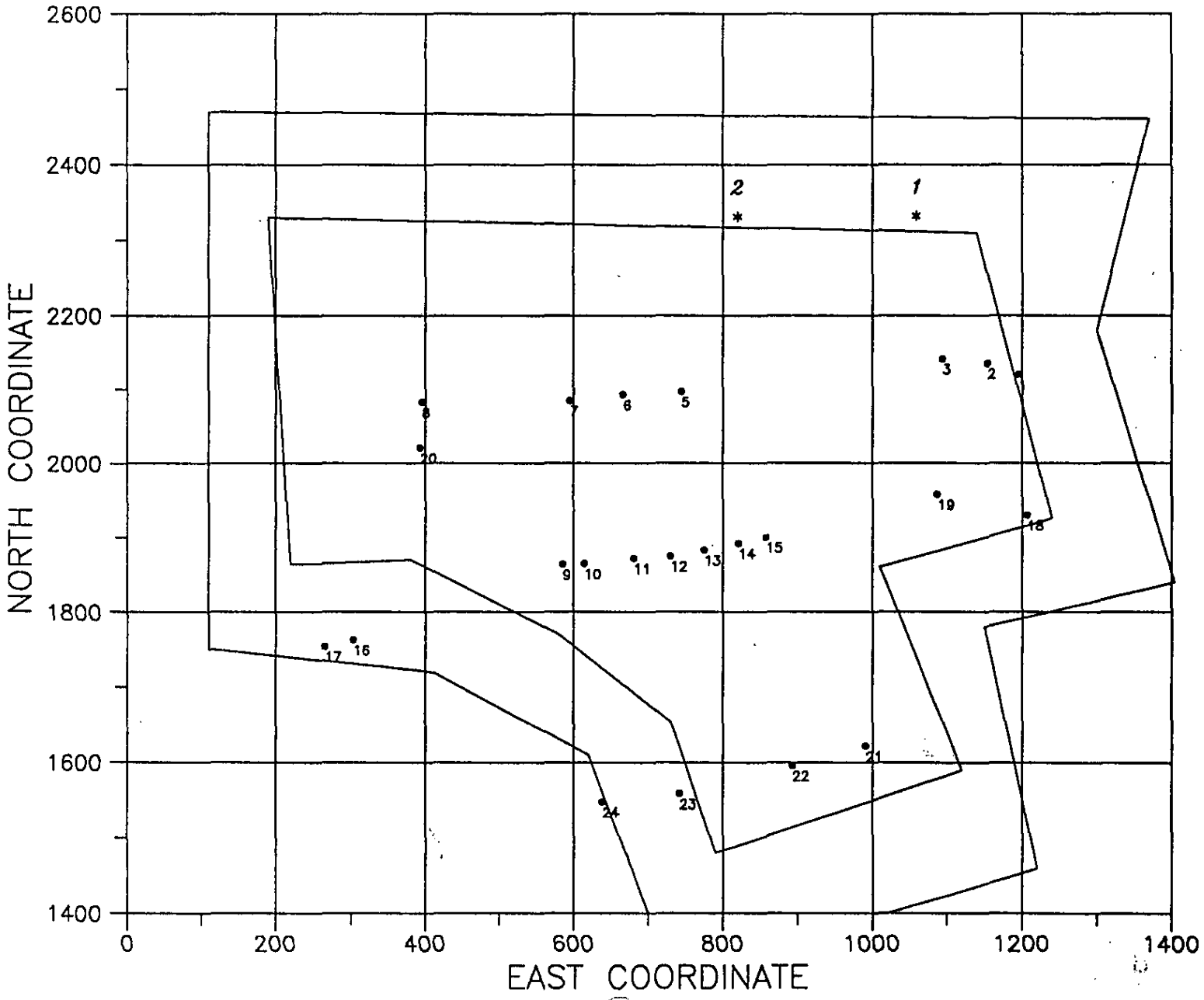
INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-44

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-44
PROJECT: Cell 717 Clay Cap
PROJECT NO: 87B052
WEATHER: Cloudy, windy 70s

DATE: 12/14/87
WLFE REP: T. Vrenick
CONTRACTOR: Sussex
EQUIPMENT: 3-DJB's, D6 Dozer
235 Backhoe, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 0830. Sussex was placing a lift on the vertical liner. After finishing this lift, they began a lift on the waste. I ran two tests on the lift on the vertical lift (Nos. 1 & 2). They continued the lift over the waste. I left the site at 1630.

FIELD DATA

Point No.	N Coord	E Coord	Elev	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1	2332	1059	108.39	18.3	107.0	98.2
2	2331	820	111.59	19.2	107.6	98.7

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
1	44/26	-	20.0	-	-

INSPECTOR Thomas A. Vrenick ENGINEER Victor R Donald

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-45
PROJECT: Cell 717 Clay Cap
PROJECT NO: 87B052
WEATHER: Cool, windy 40s-50s

DATE: 12/15/87
WLFE REP: T. Vrenick
CONTRACTOR: Sussex
EQUIPMENT: 3-DJB's, D6 Dozer
235 Backhoe, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 0730. Sussex was grading the haul roads of the mud from the rain last night. After the roads were cleared, they began hauling clay cap. None of this was tested as it was too wet. They rolled it in to seal it and will begin discing it tomorrow. I left the site at 1330.

FIELD DATA - None Performed

LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Victor R. Donald

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-46
PROJECT: Cell 717 Clay Cap
PROJECT NO: 87B052
WEATHER: Cool, windy 40s-50s

DATE: 12/16/87
WLFE REP: T. Vrenick
CONTRACTOR: Sussex
EQUIPMENT: 2-DJB's,2-D6 Dozers
235 Backhoe, Vibratory
Roller

ACTIVITIES SUMMARY

I arrived on site at 07:30. Sussex continued to place lift on waste. After doing this until 10:00, they moved to the vertical liner and put a lift on it. At 13:00 they moved to the berm south of 717D and finished the lift on it. I left the site at 16:00.

FIELD DATA - None Performed

LABORATORY DATA - None Performed

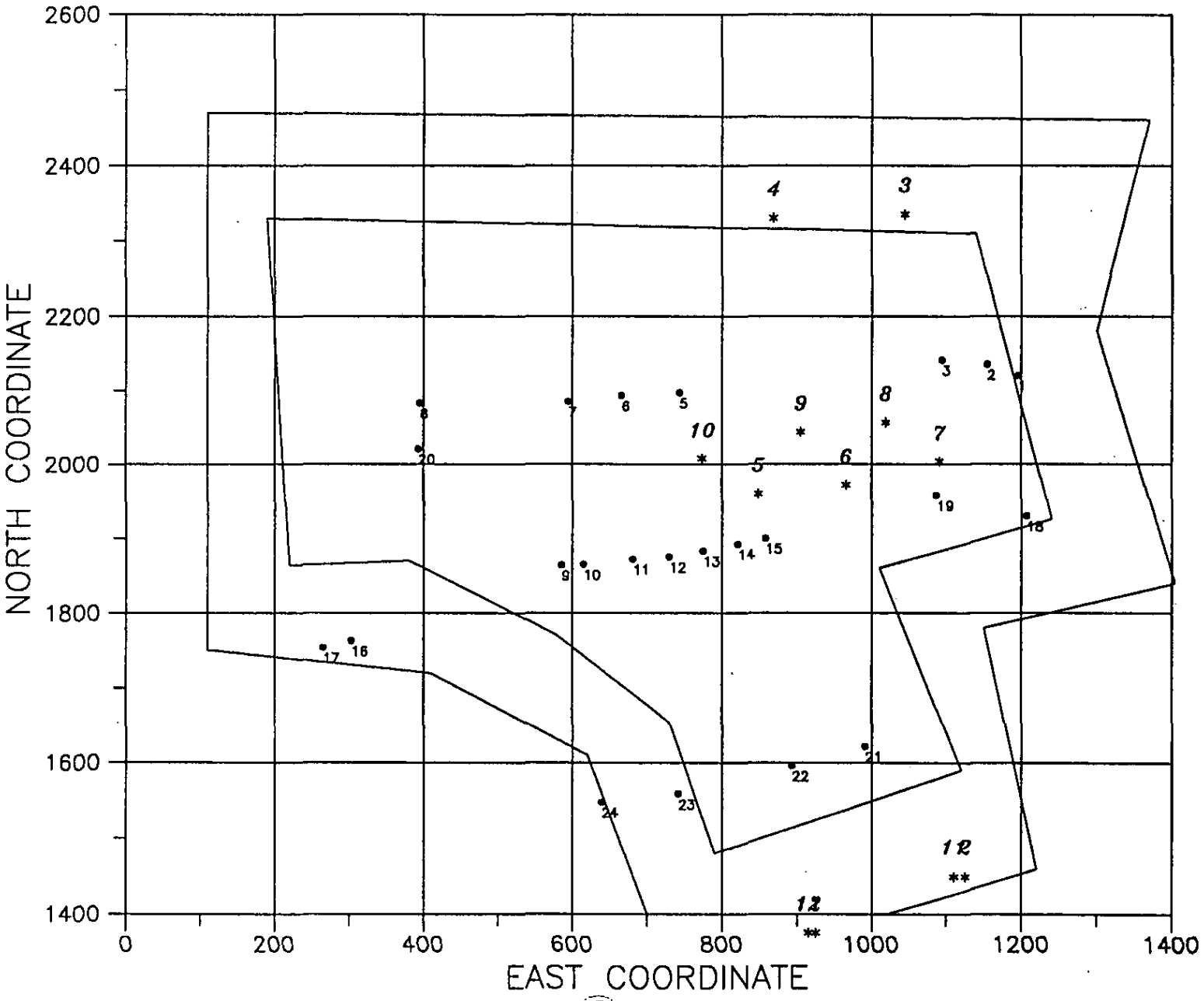
INSPECTOR Thomas A. Vrenick ENGINEER Victor A. Donald

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-47

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-46
PROJECT: Cell 717 Clay Cap
PROJECT NO: 87B052
WEATHER: Cool, windy 40s-50s

DATE: 12/16/87
WLFE REP: T. Vrenick
CONTRACTOR: Sussex
EQUIPMENT: 2-DJB's,2-D6 Dozers
235 Backhoe, Vibratory
Roller

ACTIVITIES SUMMARY

I arrived on site at 07:30. Sussex continued to place lift on waste. After doing this until 10:00, they moved to the vertical liner and put a lift on it. At 13:00 they moved to the berm south of 717D and finished the lift on it. I left the site at 16:00.

FIELD DATA - None Performed

LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Victor D. Donald

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-47	DATE:	12/17/87
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cold, windy 30s-40s	EQUIPMENT:	3-DJB'S, D6 Dozers, 235 Backhoe, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 0700. Sussex compacted the lift on the 717D berm. I performed two tests on this lift (Nos. 1 & 2). Sussex then compacted the lift that was put on the vertical liner. Two tests (Nos. 3 & 4) were performed on this lift. They then completed the first lift on the waste and the area south of LC-3 and LC-5 was tested (Nos. 5 through 10). Another lift was placed on the 717D berm. After compaction, two tests (Nos. 11 & 12) were performed on this lift. Another lift was started on the 717D berm and will be finished in the morning. I left the site at 1530.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1.	1375	925	78.6	16.3	112.2	103.0
2.	1450	1125	79.4	20.0	104.2	95.6
3.	2335	1045	109.61	20.0	100.4	92.1
4.	2330	869	112.06	20.0	105.6	96.9
5.	1960	849	119.32	19.4	101.7	93.3
6.	1972	966	117.99	20.1	106.8	98.0
7.	2004	1091	117.39	19.7	103.6	95.1
8.	2057	1019	119.64	19.7	104.0	95.4
9.	2044	905	120.29	20.6	102.6	94.1
10.	2008	774	121.17	19.1	104.2	95.6
11.	1450	1110	80.0	19.5	106.0	97.2
12.	1375	915	79.2	19.1	106.5	97.7

INSPECTOR Thomas A. Vrenick ENGINEER Mark L. Taylor

EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

REPORT NO: 52-47

LABORATORY DATA

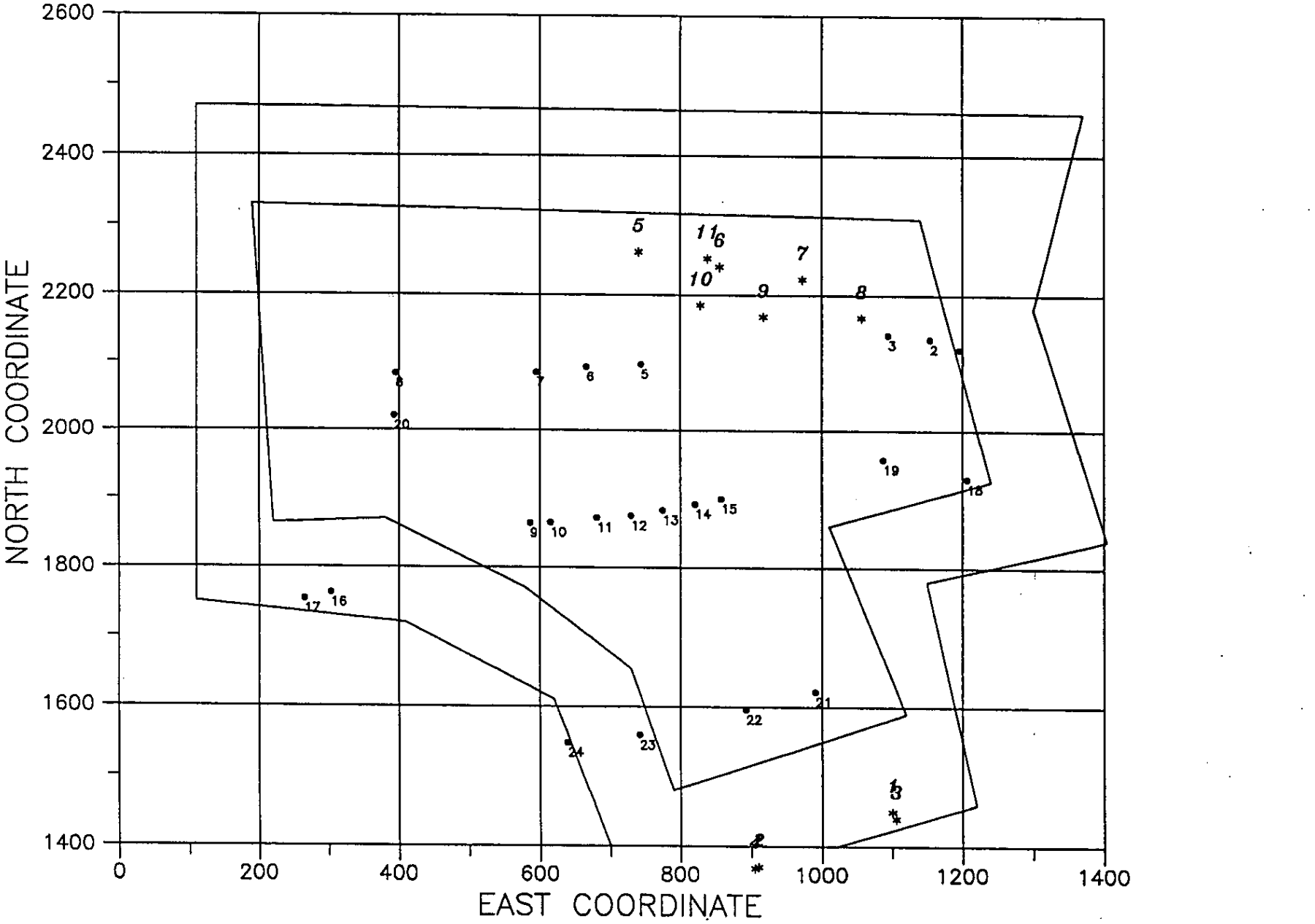
Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
7	39/21	2.0×10^{-9}	20.8	104.1	Hydrometer
11	50/32	1.0×10^{-9}	19.7	107.6	Hydrometer

INSPECTOR Thomas A. Vranek ENGINEER Charles R. Furlow

ENCOR

TEST LOCATIONS

Rpt. No. 52-48



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-48	DATE:	12/18/87
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, cool 40s-50s	EQUIPMENT:	3-DJB'S, D6 Dozers, 235 Backhoe, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 08:00. Sussex compacted the lift on the berm of 717D. I tested the lift (Nos. 1 & 2). They bladed it up and recompacted it. I performed two more tests (Nos. 3 & 4). During this time, Sussex began a lift on the area south of LC-3 and LC-5. The area to the north of LC-3 and LC-5 was tested (Nos. 5 through 11). After lunch, Sussex put a lift on the 717D berm. It will be tested Monday. I left the site at 15:00.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor
1.	1450	1100	80.6	19.6	99.0	90.8
2.	1370	910	79.8	17.8	98.5	90.4
3.	1440	1105	81.2	18.3	106.5	97.7
4.	1368	905	80.4	19.0	108.3	99.4
5.	2262	741	116.27	20.6	102.9	94.4
6.	2241	856	116.47	23.1	97.6	89.6
7.	2223	973	117.01	21.5	101.6	93.2
8.	2167	1056	117.91	19.4	105.3	96.6
9.	2168	918	119.18	20.4	101.6	93.2
10.	2185	829	118.49	19.9	104.4	95.8
11.	2253	839	115.97	19.7	102.1	93.7

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
10	48/30	-	20.1	-	-

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-49	DATE:	12/22/87
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy,50s-70s	EQUIPMENT:	235 Backhoe

ACTIVITIES SUMMARY

I arrived on site at 0830. Sussex is not doing any work due to the previous day's rain. It was decided to lower the risers of the wells in the western tract borrow area. OB-25A is lowered 10.48 feet and OB-25B is lowered 10.06 feet. We then move to OB-29 and lower it 14.66 feet. The protective covers are placed over them and will be cemented in place next week. I left the site at 1700 hours.

FIELD DATA - None Performed

LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Peter R. Donald

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-50
PROJECT: Cell 717 Clay Cap
PROJECT NO: 87B052
WEATHER: Partly Cloudy,50s

DATE: 12/28/87
WLFE REP: T. Vrenick
CONTRACTOR: Sussex
EQUIPMENT: N/A

ACTIVITIES SUMMARY

I arrived on site at 0830. Sussex is not doing any work due to the previous day's rain. Buddy Chenevert and Roland Roger set protective covers on OB-25A, OB-25B and OB-29 and cemented them in place. They also pulled the remaining casing and screen of P-29 and flushed the sand from the hole. The hole was then grouted up. They left the site at 1500 hours.

FIELD DATA - None Performed

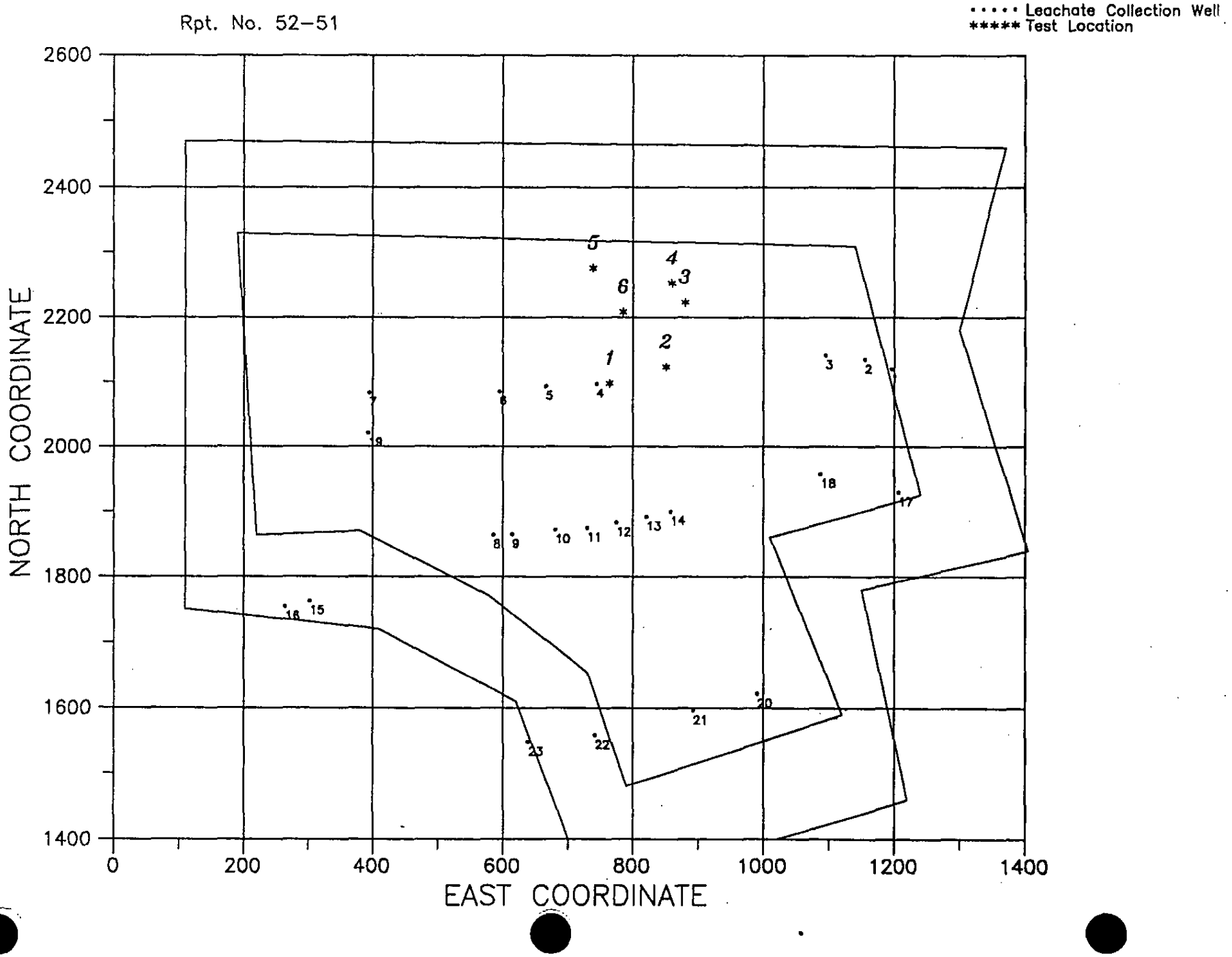
LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Victor R. Donald

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-51



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-51	DATE:	4/13/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, Windy 70's	EQUIPMENT:	D-6 Dozer, 3-DJBs, Disc, Vibratory Roller, 235 Shovel

ACTIVITIES SUMMARY

Sussex discs the lift that had been placed earlier but had not been compacted. This area is disked numerous times and then compacted. Tests No. 1-6 were performed on this area. Sussex also began placing a lift on an area to the east of this.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev	Wet Dens.(pcf)	Dry Dens.(pcf)	Water Cont.(%)	% Proctor	P/F
1	2098	764	121.35	121.1	101.7	19.8	93.3	P
2	2123	851	120.84	122.9	102.8	19.6	94.3	P
3	2223	880	117.29	122.0	101.2	20.5	94.2	P
4	2253	860	115.42	123.6	102.6	20.4	94.2	P
5	2276	739	116.22	119.5	99.9	19.6	91.7	P
6	2208	785	118.22	120.2	100.4	19.7	92.1	P

LABORATORY DATA - None Performed

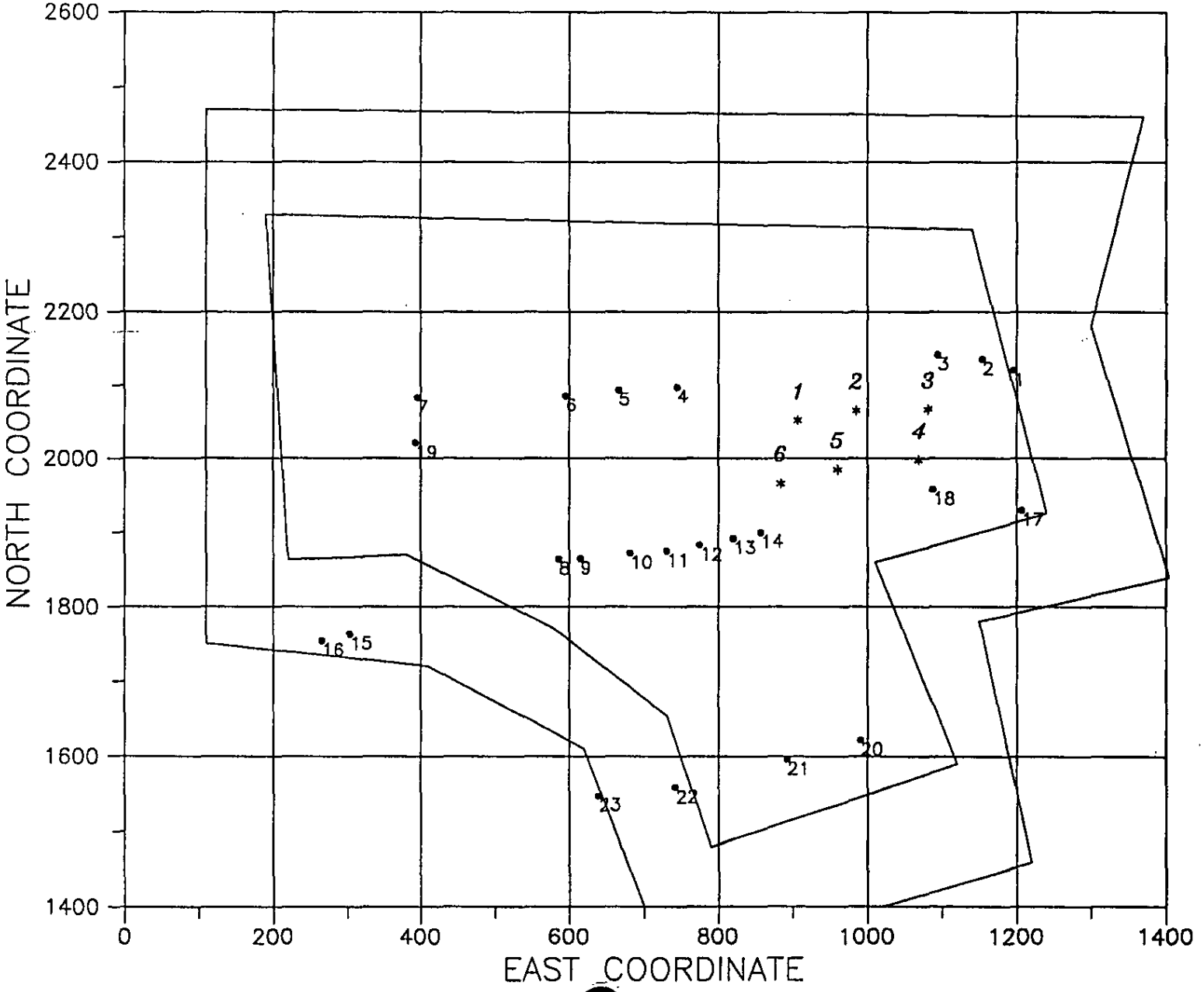
INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-52

***** Test Location
••••• Leachate Collection Well



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-52	DATE:	4/15/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 50's-70's	EQUIPMENT:	D-6 Dozer, 3-DJBs, Disc, 235 Shovel

ACTIVITIES SUMMARY

I arrived on site at 0700. Sussex finishes the lift on area to the north of access road and east of the previously tested area. This area is then compacted and tested. Tests No. 1-6 were performed in this area. Sussex then begins a lift on the area south of the access road and north of LC-21 and LC-22. They continue on this til I leave the site at 1400.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev	Wet Dens.(pcf)	Dry Dens.(pcf)	Water Cont.(%)	% Proctor	P/F
1	2052	907	121.34	127.3	106.1	20.0	97.3	P
2	2065	985	120.99	126.4	105.5	19.8	96.8	P
3	2067	1081	118.74	121.3	101.2	19.9	92.8	P
4	1998	1069	118.54	125.5	104.6	20.0	95.9	P
5	1985	960	119.49	125.6	103.3	21.6	94.7	P
6	1966	884	119.99	126.3	105.5	19.7	96.8	P

LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Victor E. Donald

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-53	DATE:	4/20/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 50's-70's	EQUIPMENT:	235 Shovel, 3-DJBs, D-6 Dozer

ACTIVITIES SUMMARY

I arrived on site at 0730. I checked with G. E. Brister (Sussex) on their plans for today. He said they are going to continue placing the lift south of the access road and north of LC-21 and LC-22. No compaction will be done on the lift at this time. I checked on their progress periodically during the day.

FIELD DATA - None Performed

LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Victor R. Donald

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-54	DATE:	4/21/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 60's-80's	EQUIPMENT:	235 Shovel, 3-DJBs, D-6 Dozer

ACTIVITIES SUMMARY

I arrive on site at 0730. Sussex continues to place a lift south of the access road and north of LC-21 and LC-22. They complete this area at 1200. Sussex then moves to the area north of LC-5 and LC-3. They do not do any compaction work. They continue on this lift until 1630.

FIELD DATA - None Performed

LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-55	DATE:	4/22/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 70's-80's	EQUIPMENT:	235 Shovel, 3-DJBs, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

I arrive on site at 0730. Sussex is working on the lift north of LC-5 and LC-3. They continue to haul until 1430. At 1430, Sussex begins compacting this lift. No tests are run on it.

FIELD DATA - None Performed

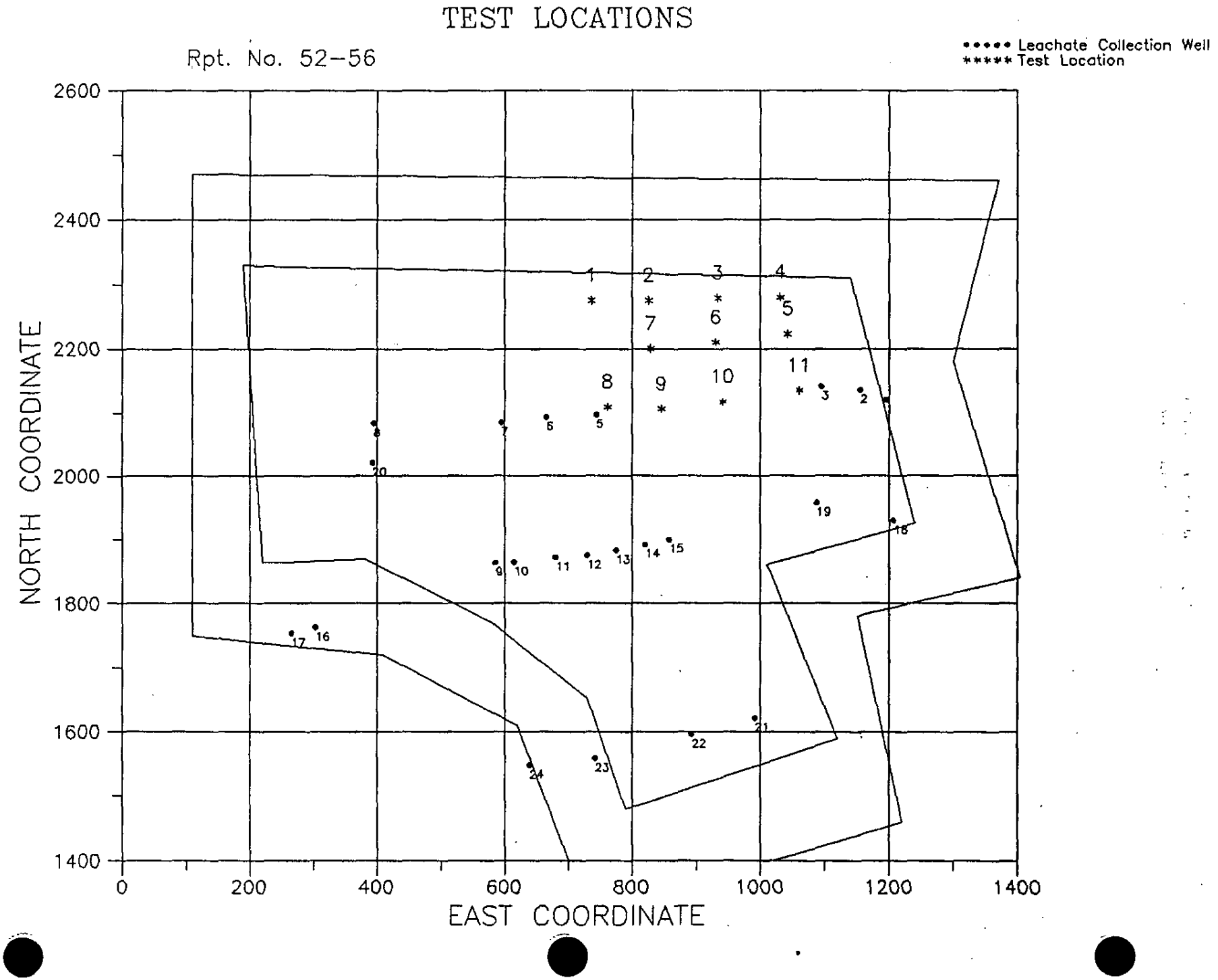
LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER Victor R. Lind

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-56



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.: 52-56
PROJECT: Cell 717 Clay Cap
PROJECT NO.: 87B052
WEATHER: Clear, 60's-80's

DATE: 4/25/88
WLFE REP: T. Vrenick
CONTRACTOR: Sussex
EQUIPMENT: 235 Backhoe, 3-DJBs, D-6 Dozer, Vibratory Compactor

ACTIVITIES SUMMARY

I arrive on site at 0800. Sussex is continuing the lift north of LC-5 and LC-3. They are moving to the east. I monitor the activities throughout the day. They complete this lift at 1500. I then run Tests No. 1 through 11 on this area. While I run the tests Sussex moves to the area south of LC-5 and LC-3 and north of the access road. They continue hauling until 1630. I left the site at 1700.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev	Wet Dens.(pcf)	Dry Dens.(pcf)	Water Cont.(%)	% Proctor	P/F
1	2275	736	116.84	120.9	101.2	19.5	92.8	P
2	2275	826	116.24	126.8	104.7	21.2	96.0	P
3	2279	933	117.74	127.0	104.9	21.1	96.2	P
4	2280	1030	115.59	123.0	102.2	20.3	93.7	P
5	2223	1042	117.39	124.9	103.6	20.6	95.0	P
6	2210	930	118.44	122.6	102.8	19.3	94.3	P
7	2200	829	118.94	122.6	102.6	19.5	94.1	P
8	2109	762	121.76	122.0	101.9	19.7	93.5	P
9	2106	846	121.95	122.3	101.2	20.7	92.9	P
10	2117	941	121.04	123.4	102.7	20.1	94.2	P
11	2135	1060	118.89	123.6	100.7	22.7	92.4	P

LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-57	DATE:	4/26/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	J. C. Lind
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, Hot	EQUIPMENT:	81 Ford Pick-up

ACTIVITIES SUMMARY

I arrive on site at 0900. Sussex is placing lift north of LC-12 and LC-14 and east of trailer. I monitor the activities throughout the day. They continue this lift into the afternoon. No tests were performed.

FIELD DATA - None Performed

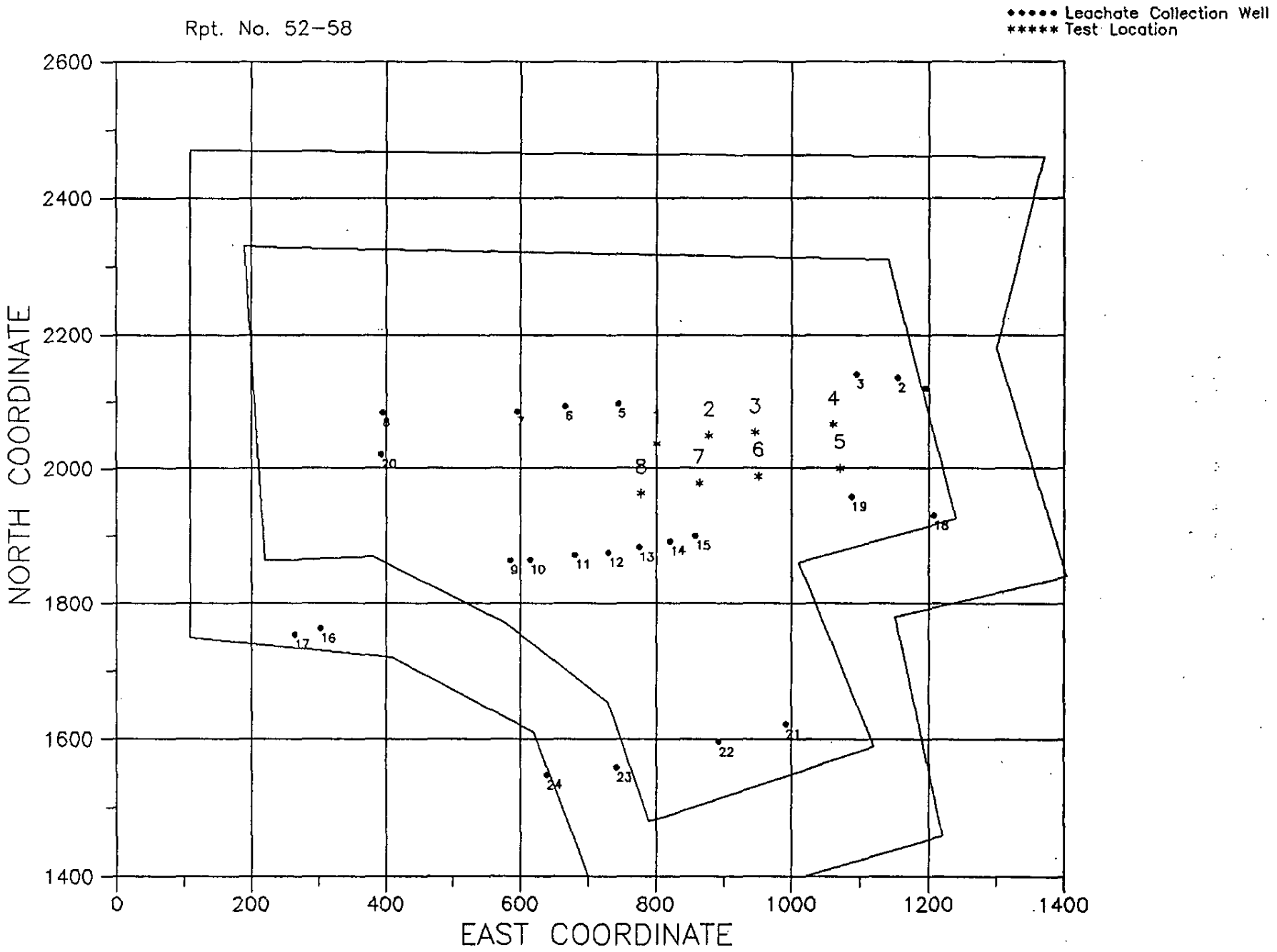
LABORATORY DATA - None Performed

INSPECTOR _____ ENGINEER _____

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-58



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-58	DATE:	4/27/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 50's-70's	EQUIPMENT:	D-6 Dozer, 3-DJBs, 225 Backhoe, Vibratory Roller

ACTIVITIES SUMMARY

I arrive on site at 0800. Sussex is working on the lift on the area between the access road and LC-3 and LC-5. They complete this lift at 1030 and the lift is graded and compacted. They then move back to the area north of LC-3 and LC-5. After lunch I test the area that had just been compacted. Tests No. 1 through 8 are on this area. Sussex continues to haul until 1630. I left the site at 1630.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev	Wet Dens.(pcf)	Dry Dens.(pcf)	Water Cont.(%)	% Proctor	P/F
1	2037	801	122.6	122.7	101.4	21.0	93.0	P
2	2049	878	122.2	126.7	106.0	19.5	97.3	P
3	2054	946	122.0	122.2	101.0	21.0	92.7	P
4	2066	1060	120.14	119.1	97.7	22.0	89.6	F
5	2000	1070	119.3	121.3	100.5	20.6	92.2	P
6	1988	951	120.64	119.4	99.8	19.6	91.5	P
7	1978	864	121.28	122.1	101.9	19.8	93.5	P
8	1963	778	121.83	124.2	103.8	19.7	95.2	P

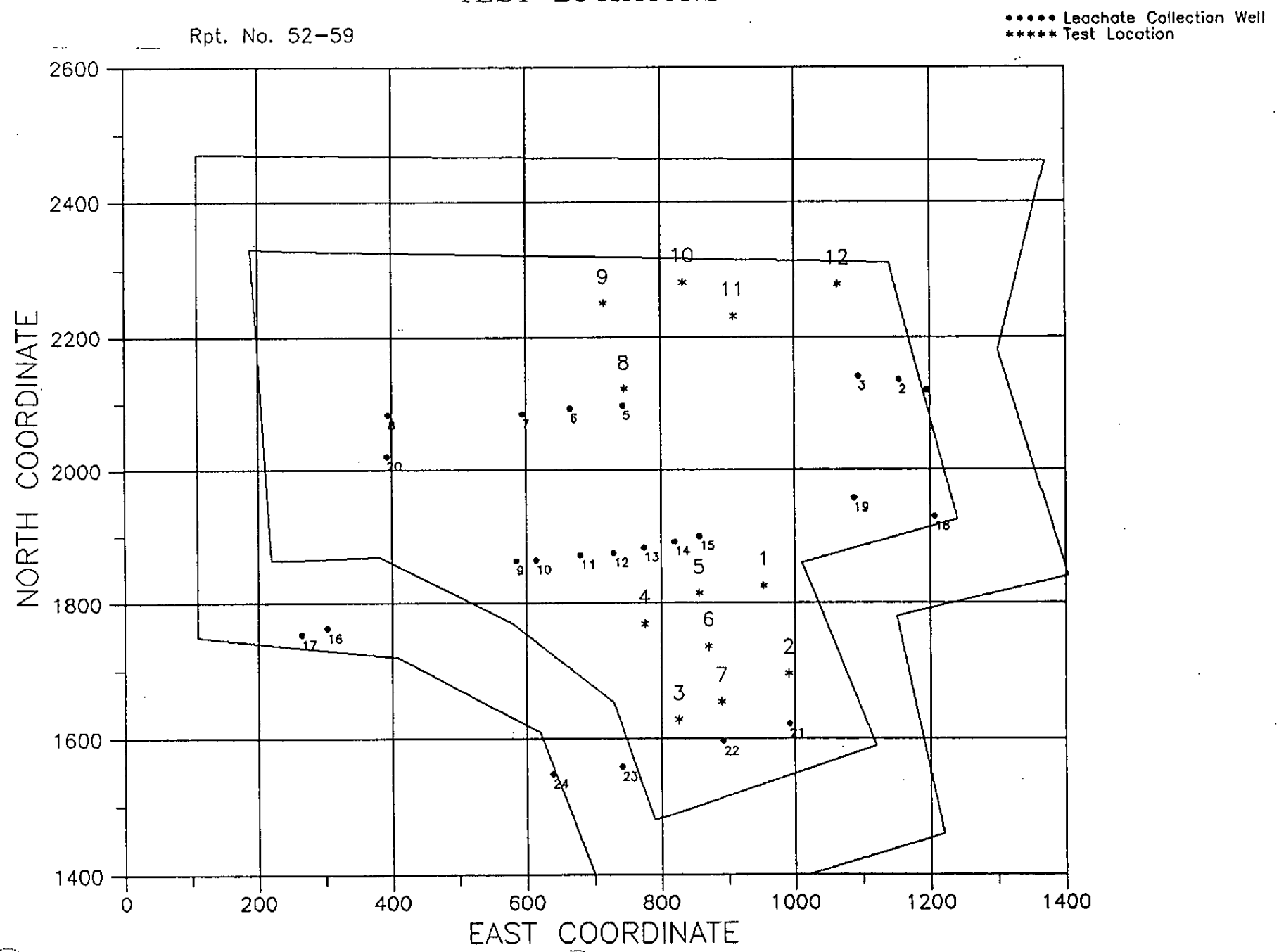
LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-59



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-59	DATE:	4/28/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 60's-80's	EQUIPMENT:	D-6 Dozer, 3-DJBs, 225 Backhoe, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 0800. Sussex continues on the lift north of LC-5 and LC-3. They also compact the lift that is south of the access road and north of LC-21 and LC-22. After it is compacted, I test the area. Tests 1 through 7 are done on this lift. The area of Tests 2, 3 and 7 does not meet specs and will be reworked later. A section is also too dry and Sussex will wet this area or wait until it rains to rework this area. A portion of the lift northof Lc-5 and LC-3 is completed and compacted. Tests 8 through 12 are run on this area. I leave the site at 1700.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev	Wet Dens.(pcf)	Dry Dens.(pcf)	Water Cont.(%)	% Proctor	P/F
1	1826	953	115.79	118.2	100.2	18.0	91.9	P
2	1696	990	115.99	111.3	100.9	10.3	92.6	P
3	1628	826	116.89	114.5	98.0	16.7	89.9	F
4	1769	776	117.79	124.6	105.5	18.2	96.7	P
5	1815	857	119.24	116.5	99.4	17.3	91.2	P
6	1736	871	118.79	122.8	104.3	17.8	95.6	P
7	1655	890	118.99	110.0	92.7	18.6	85.1	F
8	2122	746	122.12	125.5	104.1	20.6	95.5	P
9	2250	716	119.23	123.0	102.4	20.1	94.0	P
10	2281	834	117.04	124.6	103.8	20.0	95.2	P
11	2231	909	119.09	122.0	101.4	20.3	93.0	P
12	2278	1064	116.29	123.3	104.6	17.9	95.9	P

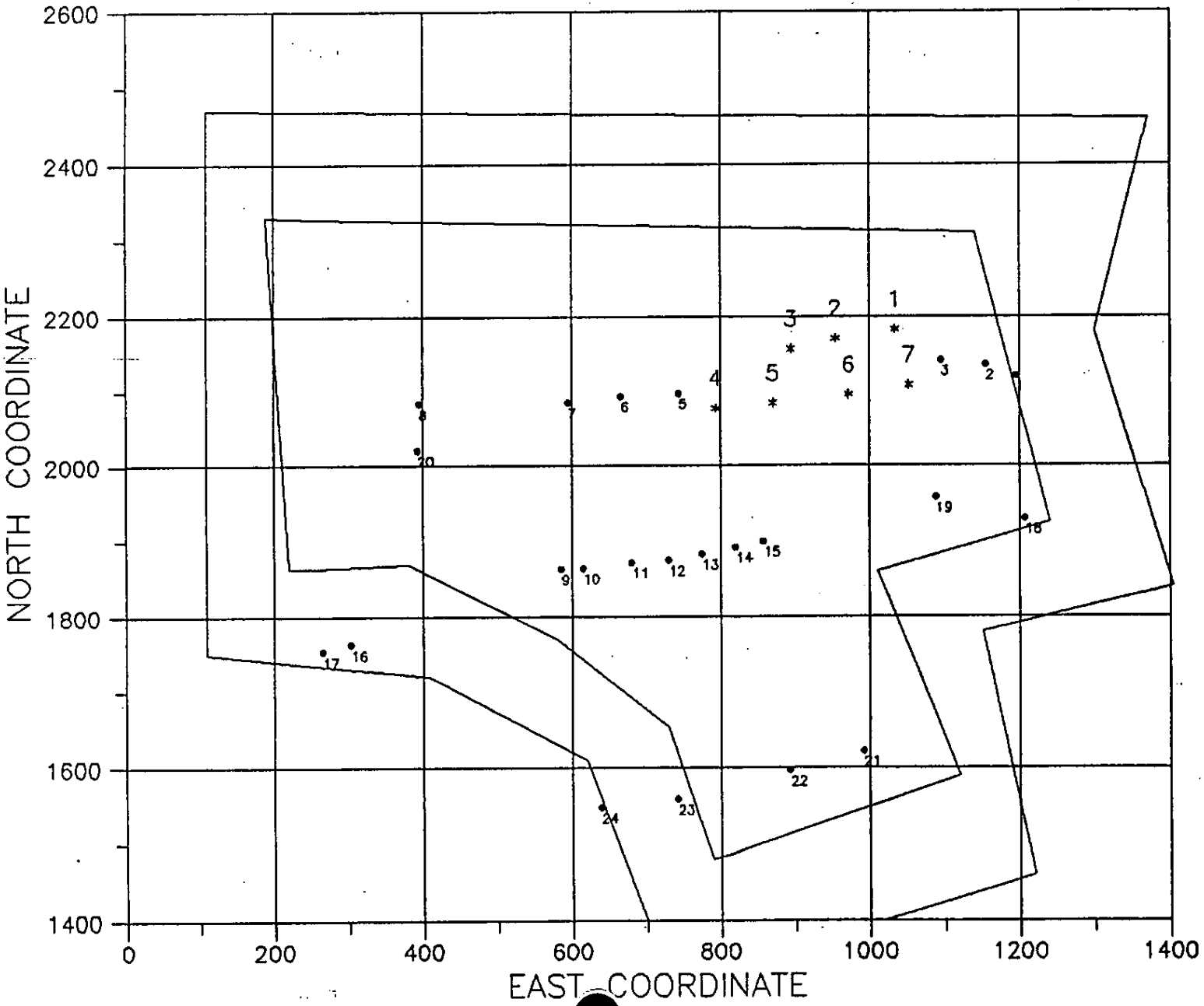
LABORATORY DATA - None Performed

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-60



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-60	DATE:	4/29/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy-Cloudy, Windy	EQUIPMENT:	235 Backhoe, 3-DJB's, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

I arrive on site at 700. Sussex is continuing the lift on the area north of LC-3 & LC-5. They finish out this area at 1000. They then compact this area and I take tests 1-3 on this area. They then begin a lift on the area just to the south. They continue with this lift till 1500. At that time they compact the lift and begin grading off all areas in preparation for the rain. The compacted area is then tested and that area is also graded off. I leave the site at 1700.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Wet Dens.(pcf)	Dry Dens.(pcf)	% Proctor	P/F
1	2182	1033	119.57	21.1	123.1	101.7	93.3	P
2	2170	954	120.57	22.4	122.3	99.9	91.7	P
3	2156	895	121.42	20.8	125.3	103.7	95.2	P
4	2077	794	123.65	21.4	125.1	103.0	94.5	P
5	2084	871	123.22	19.6	126.3	105.6	96.9	P
6	2095	972	122.42	19.2	126.2	105.9	97.1	P
7	2108	1052	120.57	20.3	121.5	101.0	92.6	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
1	48/30	2.0×10^{-9}	20.6	104.3	--
4	43/26	--	21.4	--	--

INSPECTOR Thomas A. Vrenick ENGINEER Victor A. Lund

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-61	DATE:	5/2/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 50's-70's	EQUIPMENT:	235 Backhoe, 3-DJB's, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 800. Sussex begins a lift on the area south of the access road and north of LC-21 & LC-22. They continue with this till 1200. After lunch they strip topsoil in the western tract and stock piled it in the western tract. Also at 1500 Sussex recompacted the area from 4-28-88 that did not meet specs. They continue these activities till 1630. I leave the site at 1700.

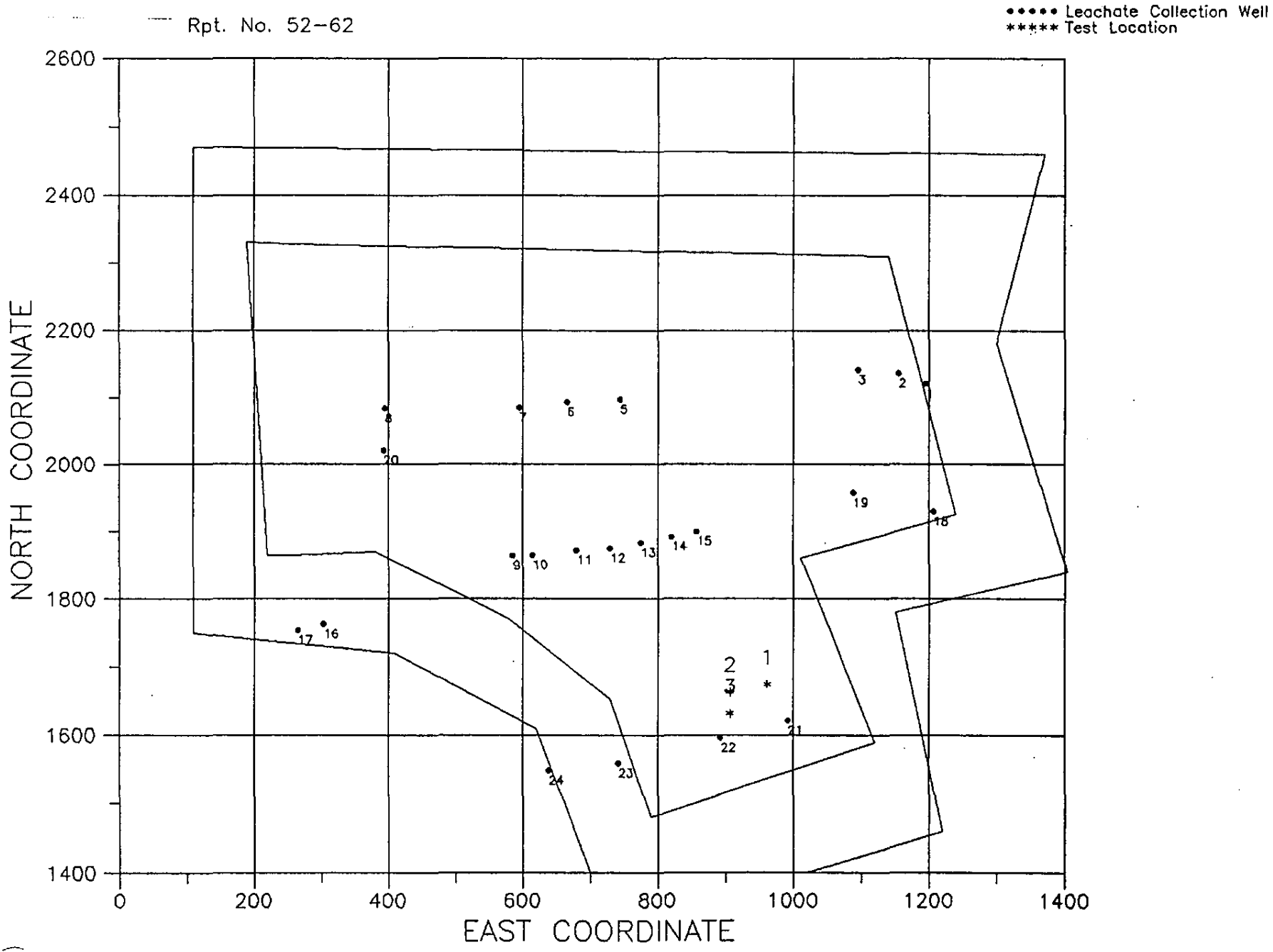
FIELD DATA - None preformed

LABORATORY DATA - None preformed

INSPECTOR Thomas A. Wrenick ENGINEER Walter R Dinell

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-62	DATE:	5/3/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, Breezy 50's-70's	EQUIPMENT:	235 Backhoe, D-6 Dozer, 3-DJB's Vibratory Roller

ACTIVITIES SUMMARY

I arrive on site at 700. Sussex begins hauling clay cap material and continues the lift in the area south of the access road and north of LC-21 and 22. At 800 I take tests 1-3 on the area that had been recompacted yesterday afternoon. Sussex continues to haul clay cap material and place it in the same area as before. No compaction work is done today. They continue hauling till 1630. I left the site at 1700.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev	Water Cont.(%)	Wet Dens.(pcf)	Dry Dens.(pcf)	% Proctor	P/F
1	1675	961	117.35	16.5	118.5	101.7	93.3	P
2	1664	907	119.30	17.0	118.5	101.3	92.9	P
3	1632	907	117.55	17.1	126.1	107.6	98.7	P

LABORATORY DATA

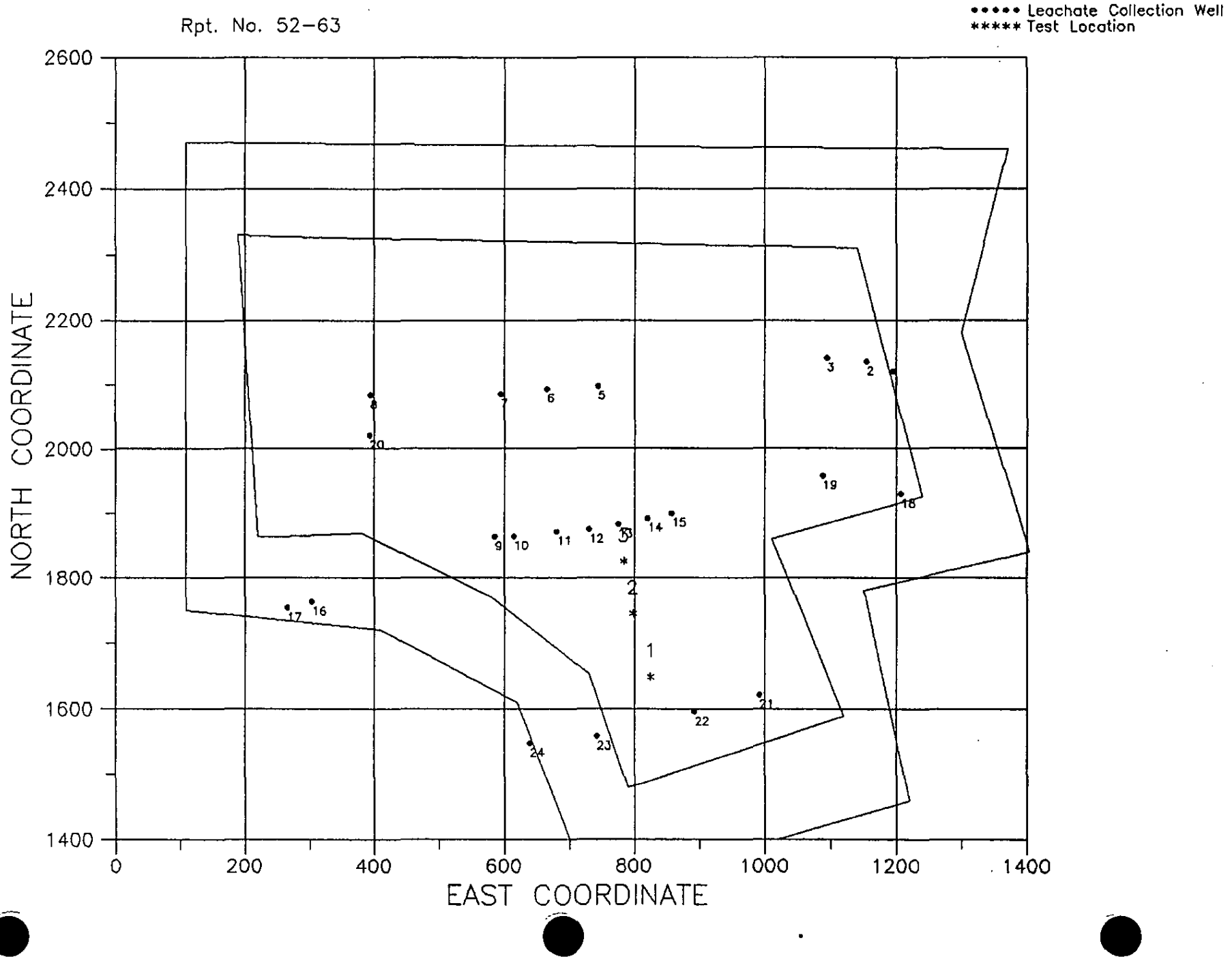
Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
3	42/25	--	17.0	--	--

INSPECTOR Thomas A. Vrenick ENGINEER Peter R Donald

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-63



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-63	DATE:	5/4/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, Windy 50's-70's	EQUIPMENT:	235 Backhoe, D-6 Dozer, 3-DJB's, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 700. Sussex wets down the area south of access road and north of LC-21 & 22 before placing a lift. They also begin compacting the lift placed on 5-3-88. This activity continues till noon. After lunch Sussex again waters the area that they are going to place a lift on. At 1400 I test an area along the western edge of this lift. Sussex continues to haul till 1630. I left the site at 1700.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Wet Dens.(pcf)	Dry Dens.(pcf)	% Proctor	P/F
1	1649	825	118.68	18.5	125.8	106.1	97.3	P
2	1745	798	119.33	19.0	128.0	107.7	98.8	P
3	1826	784	120.28	19.7	123.8	103.4	94.9	P

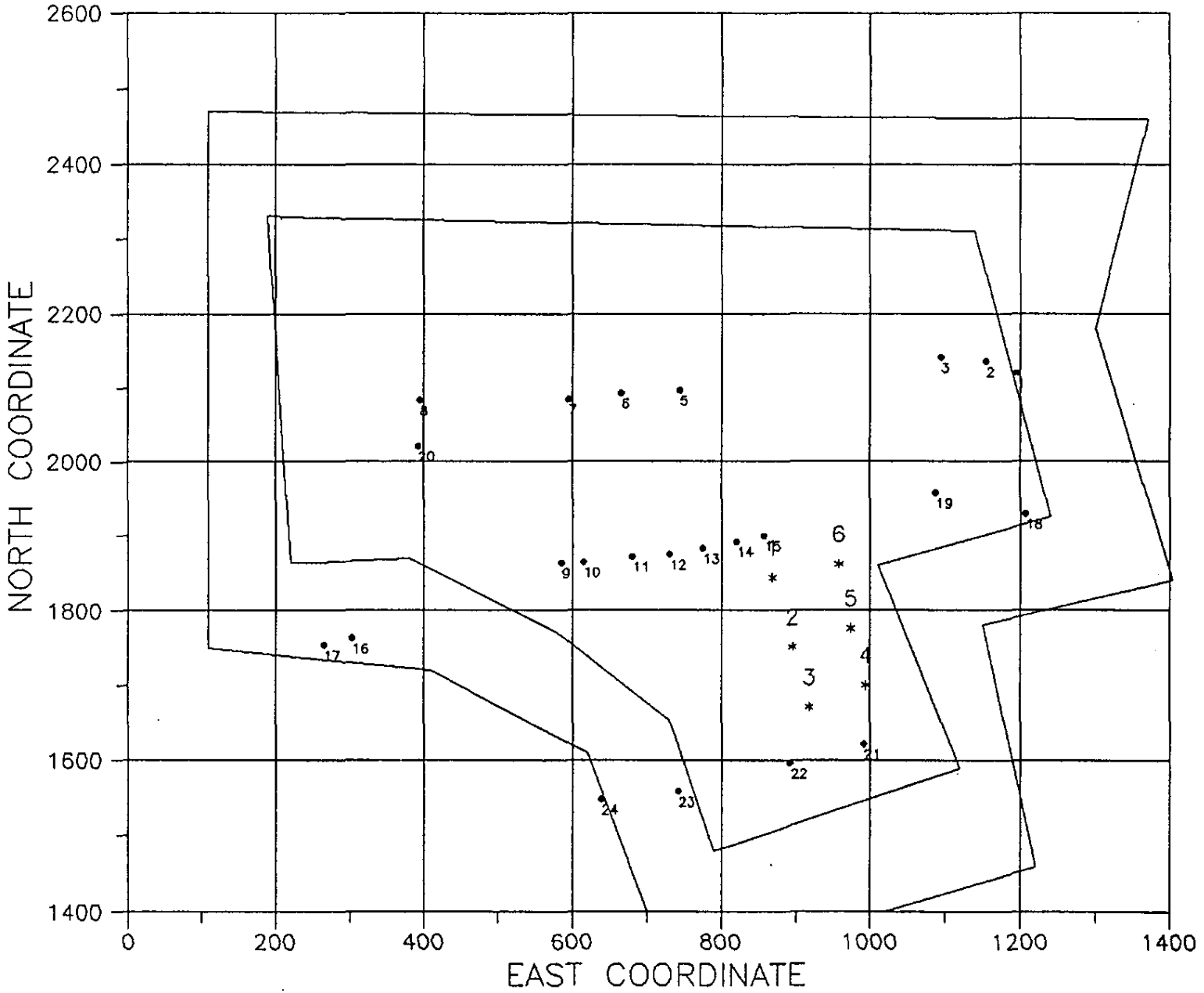
LABORATORY DATA - None performed

INSPECTOR Thomas A. Vrenick ENGINEER Victor R. Donald

TEST LOCATIONS

Rpt. No. 52-64

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-64	DATE:	5/5/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, Windy 50's-80's	EQUIPMENT:	235 Shovel, D-6 Dozer, 3-DJB's, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 730. Sussex completes the lift along the eastern edge of the area south of the access road and north of LC-21 & 22. They then compact this area and I test it and the area to the west of it. Tests 1-6 are on this area. Sussex then moves back to the western edge of this area and places a lift there. A lift is placed on this area and compacted. Tests will be run on it in the morning. I left the site at 1630.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Wet Dens.(pcf)	Dry Dens.(pcf)	% Proctor	P/F
1	1844	869	119.62	19.3	126.0	105.6	96.9	P
2	1751	896	119.77	19.2	128.5	107.8	98.9	P
3	1671	919	120.02	19.1	123.0	103.2	94.7	P
4	1700	994	117.07	17.1	124.7	106.5	97.7	P
5	1776	974	117.02	19.4	124.0	103.8	95.2	P
6	1862	958	116.47	17.3	127.2	108.4	99.4	P

LABORATORY DATA

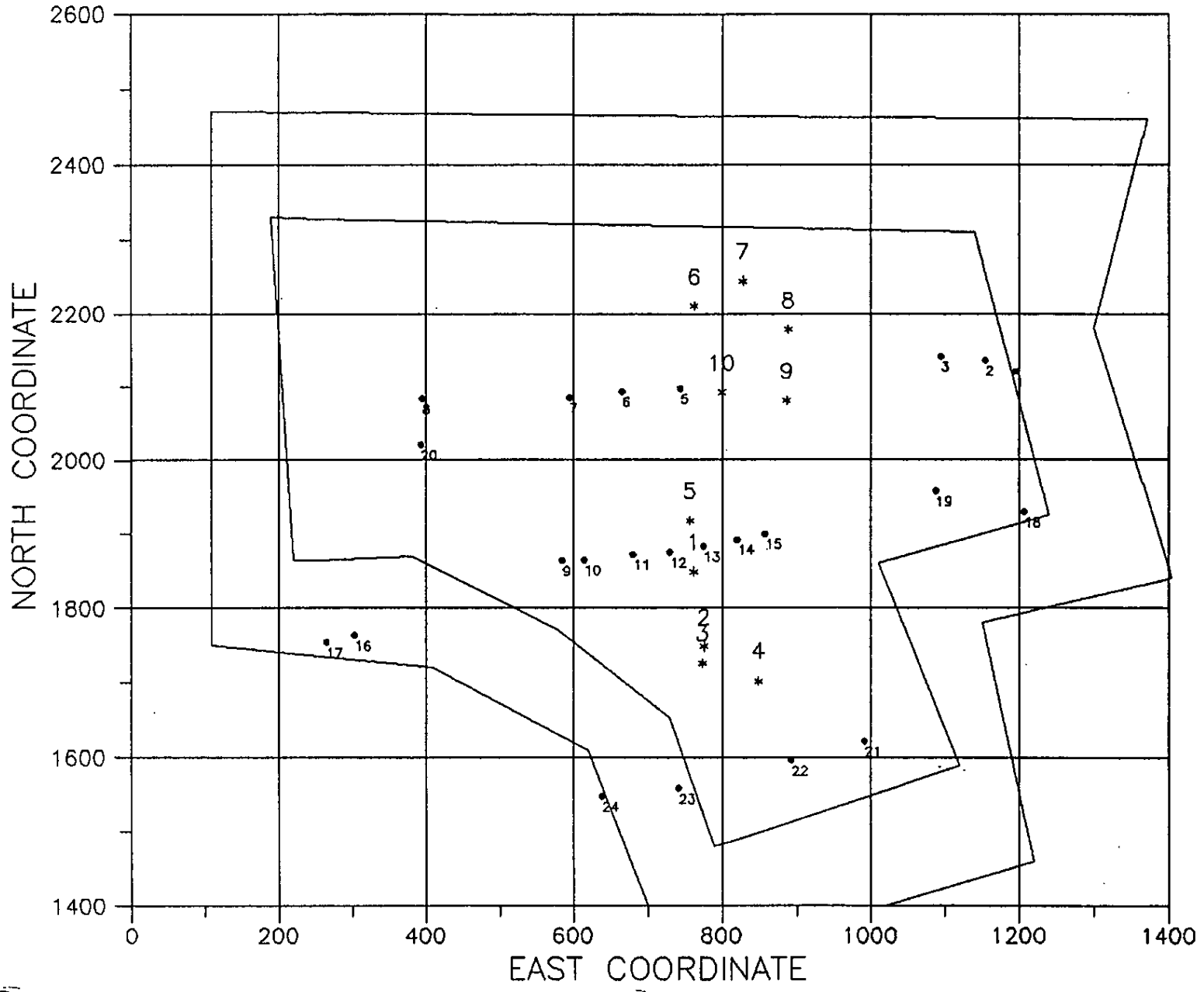
Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
6	45/29	1.0×10^{-9}	18.4	--	--

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC

TEST LOCATIONS

Rpt. No. 52-65



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-65	DATE:	5-6-88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 60's-80's	EQUIPMENT:	235 Shovel, 3-DJB's D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 700. Sussex begins to bring the area north of the access road to final grade. Most of this work involves a lift of 6" or less. While they begin this work I test the area south of the access road. Test 1-5 are performed on this area. Sussex continues to do final grading work till 1600 hrs. At that time I test the areas that are completed. Test 6-10 are in that area. I leave the site at 1630 hrs.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Wet Dens.(pcf)	Dry Dens(pcf)	% Proctor	P/F
1	1849	762	121.01	19.4	124.5	104.2	95.6	P
2	1748	776	119.46	18.9	123.9	104.2	95.6	p
3	1726	774	118.16	17.4	126.5	107.7	98.8	p
4	1702	849	120.76	20.0	126.6	105.5	96.8	p
5	1918	757	121.41	18.7	126.9	106.9	98.1	p
6	2210	763	121.80	18.4	120.0	101.3	93.0	p
7	2244	828	118.66	20.4	124.5	102.4	94.0	p
8	2178	889	121.21	19.2	125.6	105.3	96.6	p
9	2081	887	123.54	21.2	125.4	103.5	94.9	p
10	2092	800	123.57	19.3	125.9	105.6	96.9	p

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
2	40/22	--	18.2	--	--
6	45/27	--	20.1	--	--

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-66	DATE:	05/10/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 80's	EQUIPMENT:	235 Shovel, 3-DJB's, D-6 Dozer

ACTIVITIES SUMMARY

Sussex begins placing lift on the area south of the access road at 1500. They continue hauling till 1630. No compaction is done on this lift.

FIELD DATA - None performed

LABORATORY DATA - None performed

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-67	DATE:	5/11/88
PROJECT:	Cell 717 Clay Cap	WLFE Rep:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 60's-80's	EQUIPMENT:	235 Shovel, 3-DJB's, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

I arrive on site at 700. Sussex works on final clay cap grade on the area north of the access road. They continue this work till 1500. The lift south of the access road that had been placed on 5-10-88 was compacted. Brown and Butler shoots x-sections on the area north of the access road. They find a few low spots and these will be brought to grade tomorrow. At 1500 they begin a lift in the ditch area along the north side. They will finish this lift in the morning. I leave the site at 1700.

FIELD DATA - None performed

LABORATORY DATA - None performed

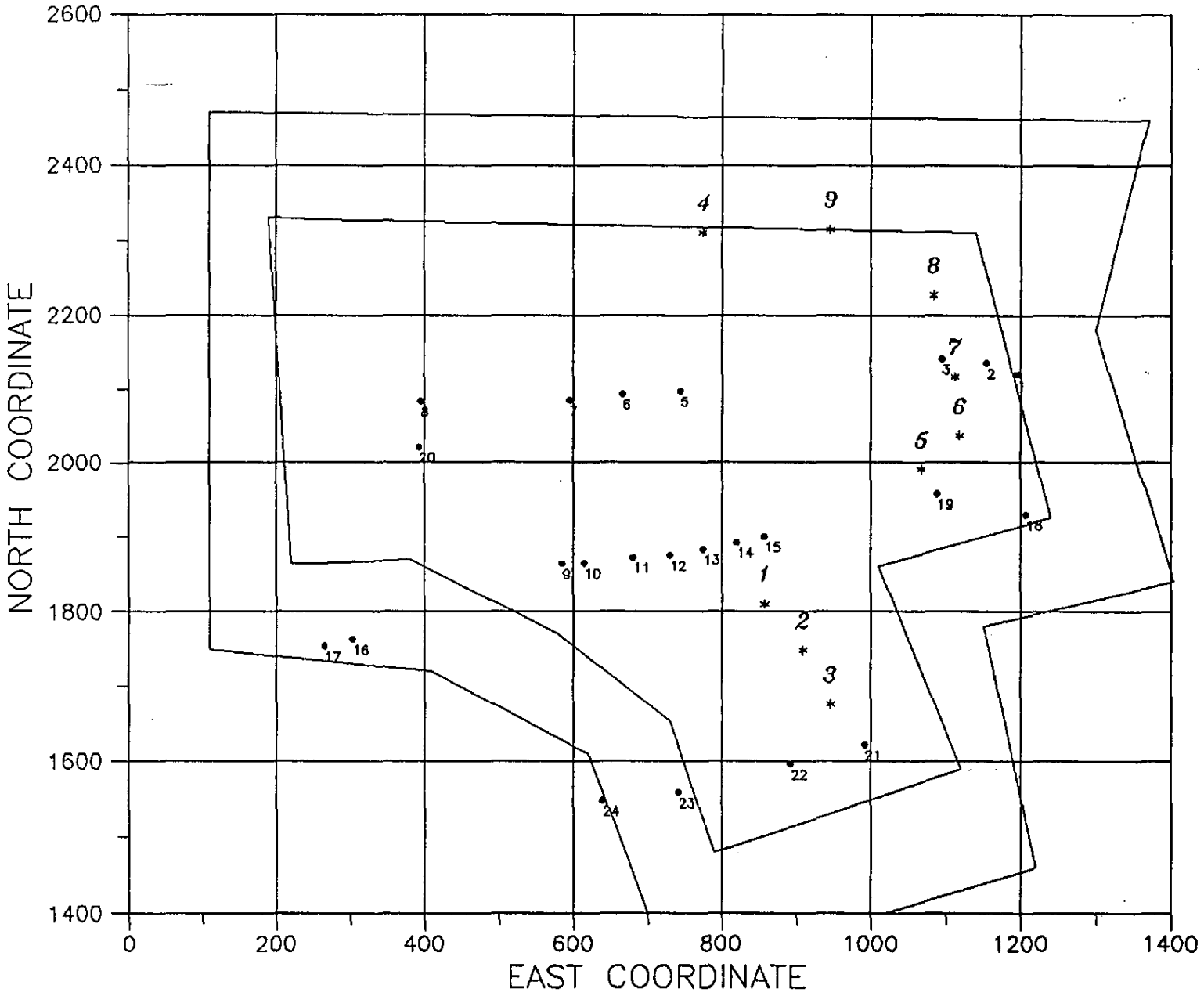
INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-68

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-68	DATE:	5/12/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy 60's-70's	EQUIPMENT:	235 shovel, D-6, Dozer, 3-DJB's, Vibrarory Roller

ACTIVITIES SUMMARY

I arrive on site at 700. I inform Sussex that there are a few low spots that need to be brought to grade. Brown & Butler locates these points and Sussex begins to bring these areas to grade. They are able to bring the low spots on the northern half of the area north of the access road to grade by 1100. Brown & Butler then shoots the x-section of this area. All points come out to grade and Sussex is informed of this. Sussex then moves to the southern half of this area and begins bringing the low spots to grade. They continue this till 1630 but do not finish this area. They will finish this in the morning. I leave the site at 1630.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Wet Dens.(pcf)	Dry Dens.(pcf)	% Proctor	P/F
1	1810	858	121.05	17.3	122.4	104.3	95.7	P
2	1748	909	120.40	18.2	117.4	99.2	91.0	P
3	1676	945	120.35	19.6	122.2	102.1	93.7	P
4	2310	775	114.70	21.6	122.3	100.6	92.2	P
5	1991	1067	119.80	19.8	126.2	105.3	96.6	P
6	2037	1117	118.90	19.7	126.3	105.6	96.8	P
7	2117	1111	118.50	20.8	124.7	103.3	94.7	P
8	2227	1083	117.40	20.6	120.9	100.3	92.0	P
9	2314	945	114.25	19.5	122.9	102.8	94.3	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
1	46/28	--	18.1	--	--
6	33/17	--	19.4	--	--
9	39/21	--	20.6	--	--

INSPECTOR Thomas A. Vrenick ENGINEER Jack Cook

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

PROJECT NO.:	52-69	DATE:	5/13/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 50's-80's	EQUIPMENT:	235 Shovel, D-6 Dozer, 3-DJB's, Vibratory Roller

ACTIVITIES SUMMARY

I arrive on site at 700. Sussex plans to bring the remaining low spots to grade. They continue this activity until 900. At 900 they begin placing topsoil on the northern part of the area north of the access road. They continue to place topsoil till 1630. I left the site at 1630.

FIELD DATA - None performed

LABORATORY DATA - None performed

INSPECTOR Thomas A. Vrenick ENGINEER Jack C. Lind

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-70	DATE:	5/16/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 70's-90's	EQUIPMENT:	235 Shovel, 2-D-6 Dozers, 3-DJB's

ACTIVITIES SUMMARY

I arrived on site at 800. Sussex is beginning to excavate along the east side of Cell 717D to expose the below grade liner. The material that is removed to expose the liner is placed in another portion of Cell 717D. They continue this activity till 1730. I leave the site at 1730.

FIELD DATA - None performed

LABORATORY DATA - None performed

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-71	DATE:	5/17/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 70's-90's	EQUIPMENT:	235 shovel, 2-D-6 Dozers, 3-DJB's

ACTIVITIES SUMMARY

I arrive on site at 700. Sussex is going to continue to excavate to expose the below grade liner along the east side of Cell 717D. They also begin to excavate along the south side of Cell 717C to expose the below grade liner. All of this material is placed in Cell 717D. They continue with this work till 1730. I leave the site at 1730.

FIELD DATA - None performed

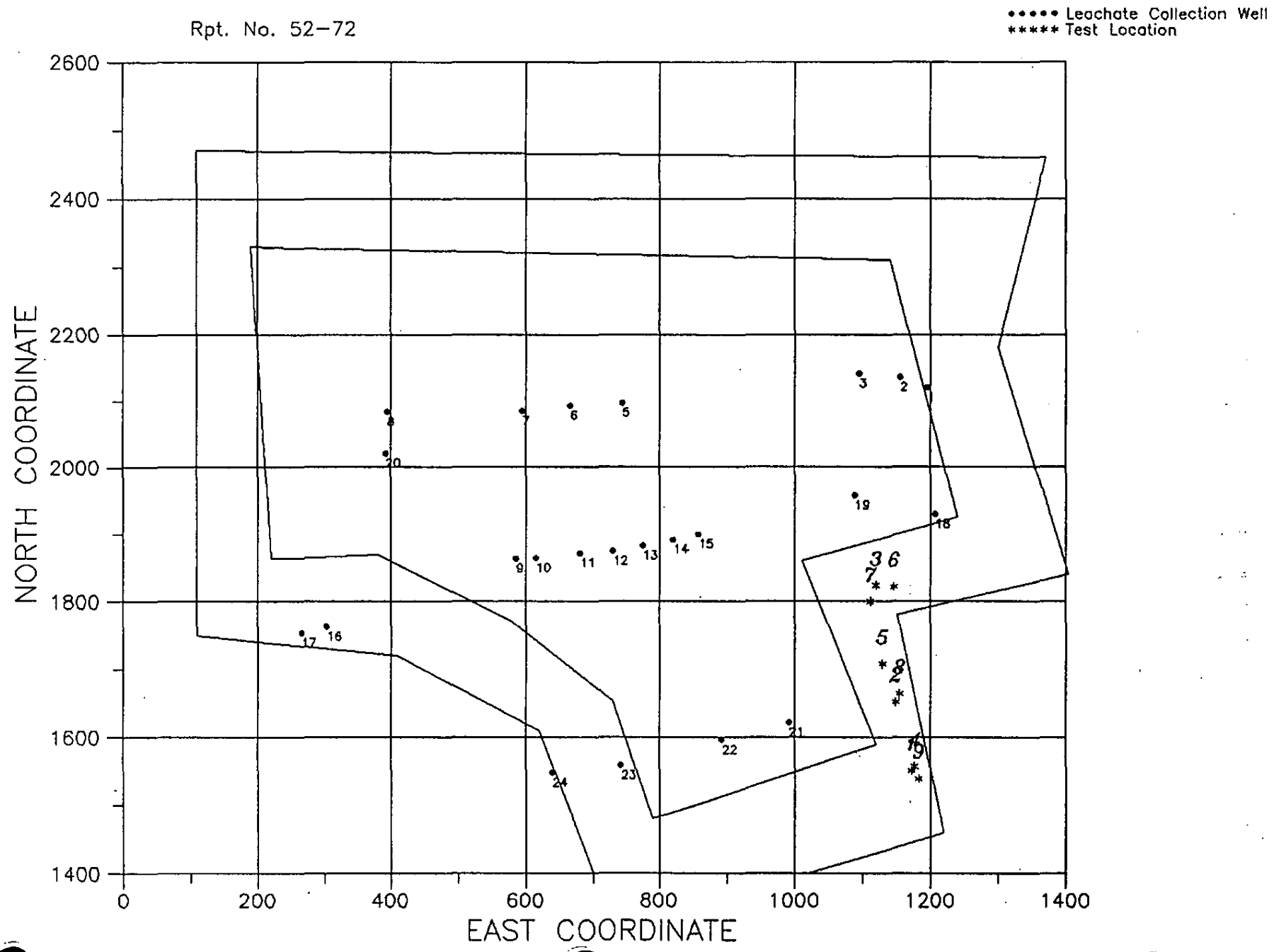
LABORATORY DATA - None performed

INSPECTOR Thomas D. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-72



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-72	DATE:	5/18/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, hot, dry, 80's	EQUIPMENT:	--

ACTIVITIES SUMMARY

I arrived on site at 700. Sussex continues to expose the below grade liner along the east side of 717D and south side of 717C. They complete this at 1100. Brown and Butler then x-sections the exposed liner. At 1245 I do tests 1-3 on this exposed liner and take pictures of it. At 1315 Sussex begins a lift on the exposed liner. It is compacted and then tested (4-6). Brown and Butler also does a waste grade cross-section on the southwest section 717D. Sussex also begins placing a clay cap lift in this area between placing a lift on the exposed liner. A second lift is placed on then exposed liner, compacted and tested. Tests 7-9 are on this lift. The moisture contents for tests 7 & 8 fall below the specifications and after discussion between G. D. Brister, J. Arbuthnot and myself it is decided to strip the lift off and replace it. They begin that process and will finish tomorrow. I left the site at 1730.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Wet Dens.(pcf)	Dry Dens.(pcf)	% Proctor	P/F
1	1551	1171	79.20	22.3	122.6	100.2	91.9	P
2	1652	1148	79.70	19.9	125.4	104.6	95.9	P
3	1824	1119	75.00	22.5	122.9	100.3	92.0	P
4	1557	1176	80.70	22.6	120.5	98.3	90.2	P
5	1708	1128	79.30	18.0	125.4	106.3	97.5	P
6	1822	1145	77.40	18.9	123.9	104.2	95.6	P
7	1800	1111	77.40	15.8	117.7	--	--	F
8	1664	1153	81.60	14.6	117.6	102.6	94.1	F
9	1539	1182	81.60	17.6	124.2	105.6	96.9	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
2	44/26	1.5×10^{-8}	24.3	97.8	--
3	46/26	1.0×10^{-8}	22.0	99.6	--

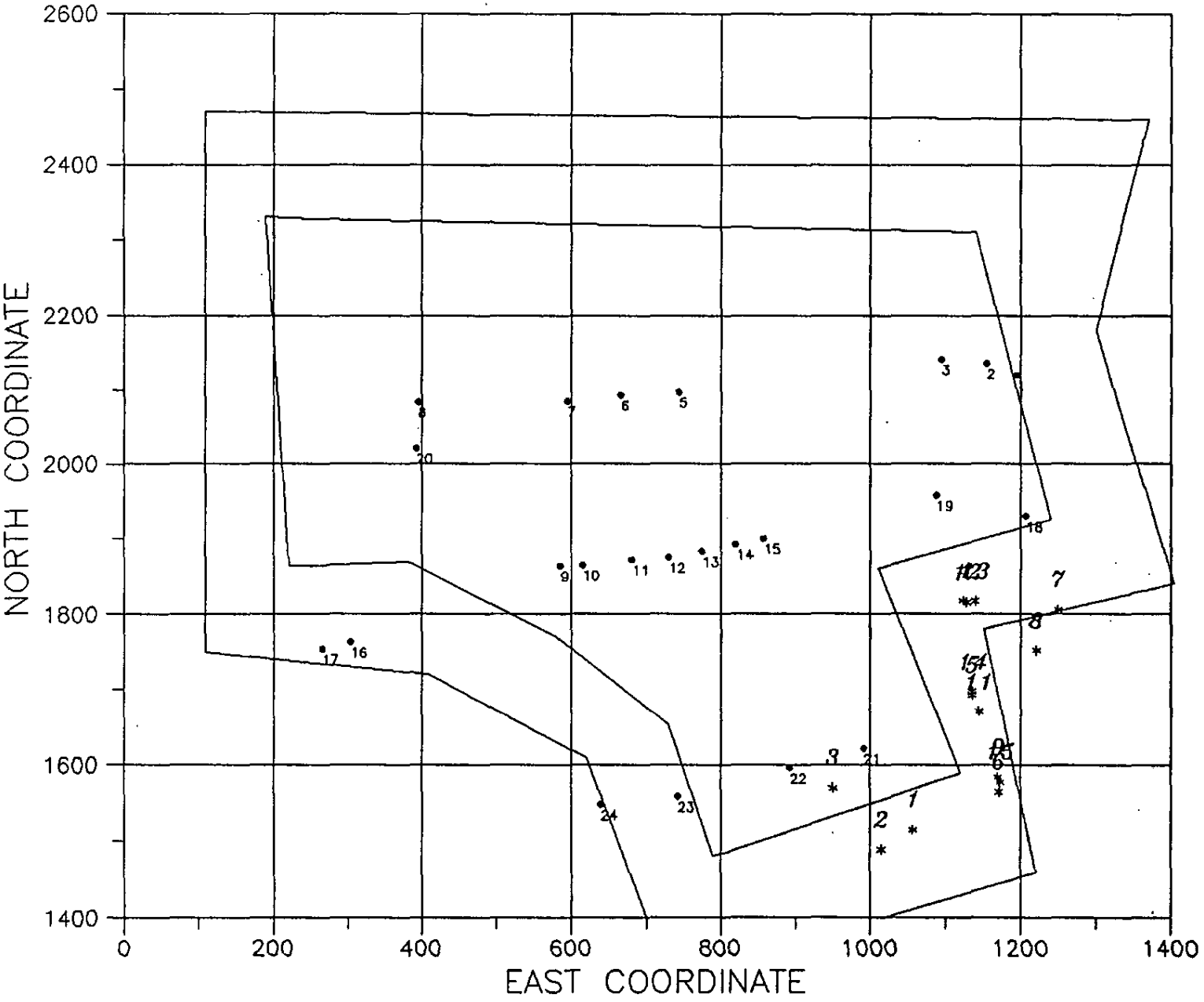
INSPECTOR Thomas A. Vrenick ENGINEER Victor R Daniel

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-73

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.: 52-73 DATE: 5/19/88

PROJECT: Cell 717 Clay Cap WLFE REP: T. Vrenick/ S. Wintheiser

PROJECT NO.: 87B052 CONTRACTOR: Sussex

WEATHER: Clear, hot 70's-90's EQUIPMENT: 235 Shovel, 2-D-6 Dozers, 4-DJB's, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 700. Sussex continues to strip off the last lift that was placed yesterday on the exposed liner. S. Wintheiser arrives on site at 715. I update him on the activities that are associated with the placement of clay cap on Cell 717. At 730 Sussex begins replacing the lift that was stripped off. Steve Wintheiser then takes over monitoring these activities. Sussex also has compacted a portion of the lift placed in the southwest corner of 717D and 3 tests are taken there (1-3). Sussex then completes the lift on the exposed liner and compacts it. Tests 4-6 are taken on this lift. Sussex continues to place a lift on the southern portion of 717D in between working on the exposed liner area. Another lift is then placed on the exposed liner. Tests 7-9 are taken on this lift. At 1230 I take back over for Steve Wintheiser. The lift that was placed just before lunch is then tested (10-12). The area by Test #10 is recompacted. Another lift is then placed on the exposed liner. Tests 13-15 are taken on this lift. Sussex then begins the final lift of the day. It is placed and compacted and will be tested in the morning. They complete this at 1700, and I leave the site at the same time.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Wet Dens.(pcf)	Dry Dens.(pcf)	% Proctor	P/F
1	1515	1056	116.71	18.8	114.6	96.5	88.5	F
2	1489	1014	116.71	18.6	124.0	104.6	95.9	P
3	1570	950	117.37	19.4	122.2	102.3	93.8	P
4	1818	1123	77.78	21.6	124.3	102.2	93.8	P
5	1693	1135	80.89	21.4	125.4	103.3	94.8	P
6	1565	1170	81.89	19.2	124.8	104.7	96.1	P
7	1806	1249	78.46	22.9	124.5	101.3	92.9	P
8	1752	1220	80.22	20.6	124.8	103.5	95.0	P
9	1584	1169	83.08	20.8	122.2	101.2	92.8	P
10	--	--	--	23.1	120.3	97.7	89.6	F
11	1671	1144	83.38	19.1	127.4	107.0	98.1	P
12	1816	1128	79.56	18.3	129.6	109.5	100.5	P
13	1817	1139	80.10	21.2	122.5	101.1	92.7	P
14	1697	1135	83.74	20.1	125.7	104.6	96.0	P
15	1578	1172	84.68	21.3	122.7	101.2	92.8	P

LABORATORY DATA - None performed

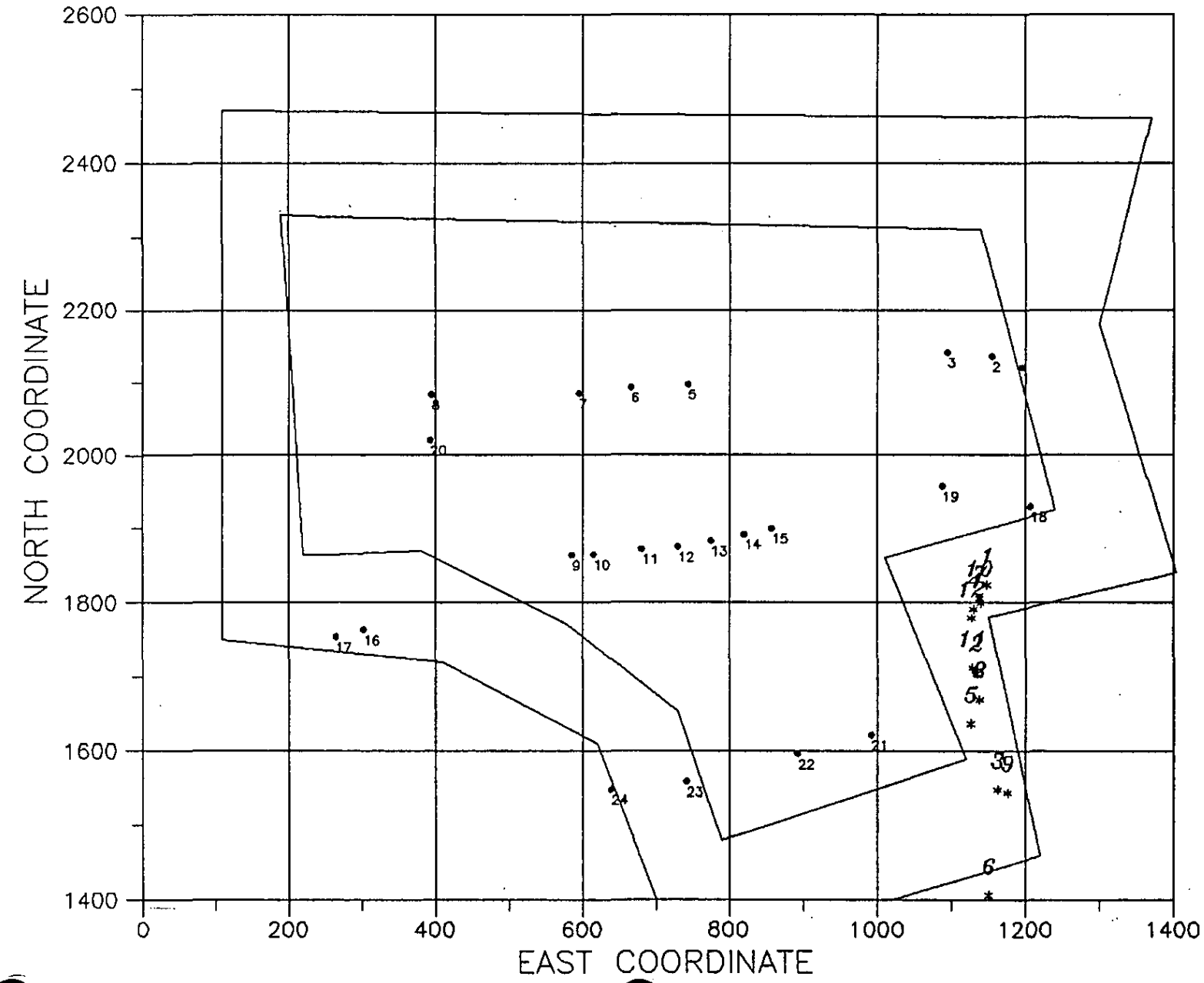
INSPECTOR Steven D. Wintheiser ENGINEER Victor E. Donald

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-74

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-74 (Page 1 of 2)	DATE:	5/20/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 70's-90's	EQUIPMENT:	235 Shovel, 2-D-6 Dozers, 4-DJB's, Vibratory Roller

ACTIVITIES SUMMARY

I arrive on site at 700. I test the lift that was completed yesterday (1-3). Sussex then begins a lift on the exposed liner. They complete this lift and compact it. Tests 4-6 are taken on it. In between placing lifts on the exposed liner area Sussex places a lift on the waste on the southern portion of 717D. Brown & Butler arrives on site at 900 and x-sections the waste slopes on the west & south sides of 717D. Sussex then begins placing clay cap on these slopes in between the work in the exposed liner area. Sussex continues with another lift in the exposed liner area and tests 7-9 are taken on this lift. After this lift Sussex begins the next lift at D-6 and takes it north and around to the area exposed on the south side of 717C. Tests 10 & 11 are on this lift. After these tests are completed Sussex places one more lift over this area. After it is compacted Test #12 is taken on this lift. Sussex continues to place clay cap on the southern portion of 717D but no compaction is done on it. Sussex also begins to expose more of the below grade liner on the south side of 717C. They continue with these activities till 1730. I leave the site at 1730.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Wet Dens.(pcf)	Dry Dens.(pcf)	% Proctor	P/F
1	1824	1148	80.6	21.6	123.8	101.9	93.5	P
2	1705	1134	84.3	21.2	122.0	100.7	92.4	P
3	1548	1162	85.5	21.7	126.2	103.7	95.2	P
4	1791	1130	82.0	19.7	126.9	106.0	97.2	P
5	1637	1126	85.5	22.2	125.3	102.6	94.1	P
6	1406	1150	87.5	23.0	127.0	103.2	94.7	P
7	1800	1139	83.0	21.9	121.8	100.0	91.7	P
8	1670	1137	86.6	22.0	124.4	102.0	93.6	P
9	1544	1175	87.3	22.0	121.5	99.6	91.4	P
10	1806	1137	83.7	22.1	125.7	102.9	94.4	P
11	1712	1128	86.1	18.5	125.9	106.3	97.5	P
12	1779	1127	85.6	21.5	124.6	102.5	94.1	P

INSPECTOR Thomas A. Vrenick ENGINEER [signature]

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

REPORT NO.: 52-74 (Page 2 of 2)

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
8	48/30	--	20.7	--	--
12	44/27	7×10^{-9}	--	--	--

INSPECTOR Thomas A. Vreeland ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-75	DATE:	5/21/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, Rain	EQUIPMENT:	235 Shovel, 225 Backhoe, 5-DJB's, Vibratory Roller, 2-D-6 Dozers

ACTIVITIES SUMMARY

I arrive on site at 700. Sussex is placing clay cap on the south portion of 717D. They are also doing final waste grade work on the southeast corner of 717D. The 225 Backhoe and 2-DJB's are continuing to expose the below grade liner on the south side of 717C. The excavated material is placed in the corner of 717D & 717C. At 930 it begins to rain and Sussex makes provisions for surface drainage. It starts to slack up at 1000 and Sussex decides to wait it out to see if it is going to rain anymore. At 1045 it begins raining again and Sussex decides to not attempt to do any more work. I leave the site at 1130.

FIELD DATA - None performed

LABORATORY DATA - None performed

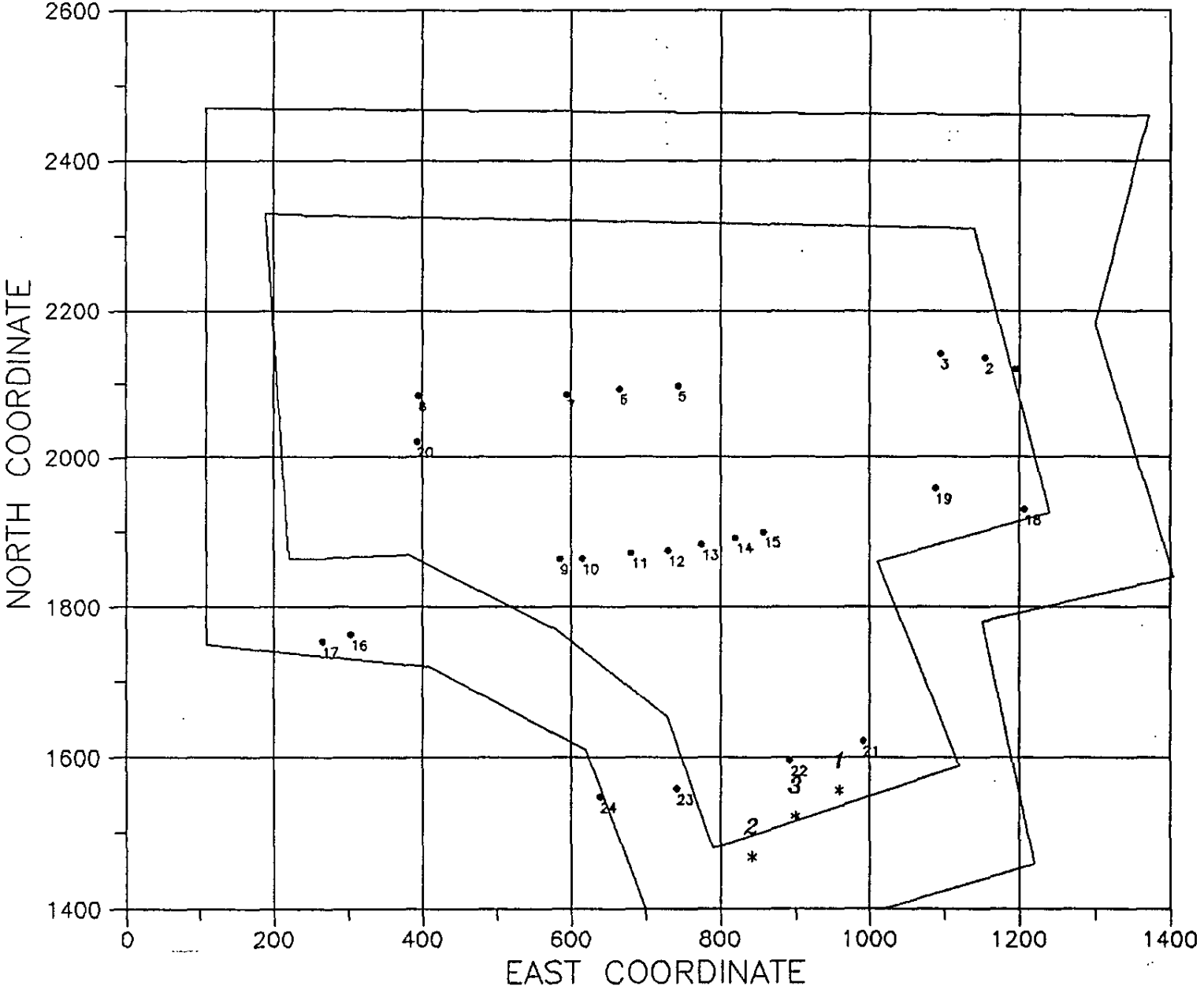
INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-76

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-76	DATE:	5/23/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	K. Lowery
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 70's - 80's	EQUIPMENT:	2-D-6 Dozers, 2-DJB's, 225 Backhoe

ACTIVITIES SUMMARY

I arrive on site at 750. Sussex is exposing the below grade liner on the south & east side of 717C with a 225 Backhoe and 2-DJB's. The excavated material is placed in the corner of 717D & 717C. The material is being rolled down the cell with the Dozers & then compacted. The clay cap that was placed on 5/21/88 in the southwest corner of 717D is tested (1-3). Activities continue until 1715. I leave the site at 1725.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Wet Dens.(pcf)	Dry Dens.(pcf)	% Proctor	P/F
1	1557	959	118.66	20.4	124.8	103.7	95.1	P
2	1469	842	115.09	18.5	121.9	102.9	94.4	P
3	1523	900	107.96	20.5	120.4	99.9	91.6	P

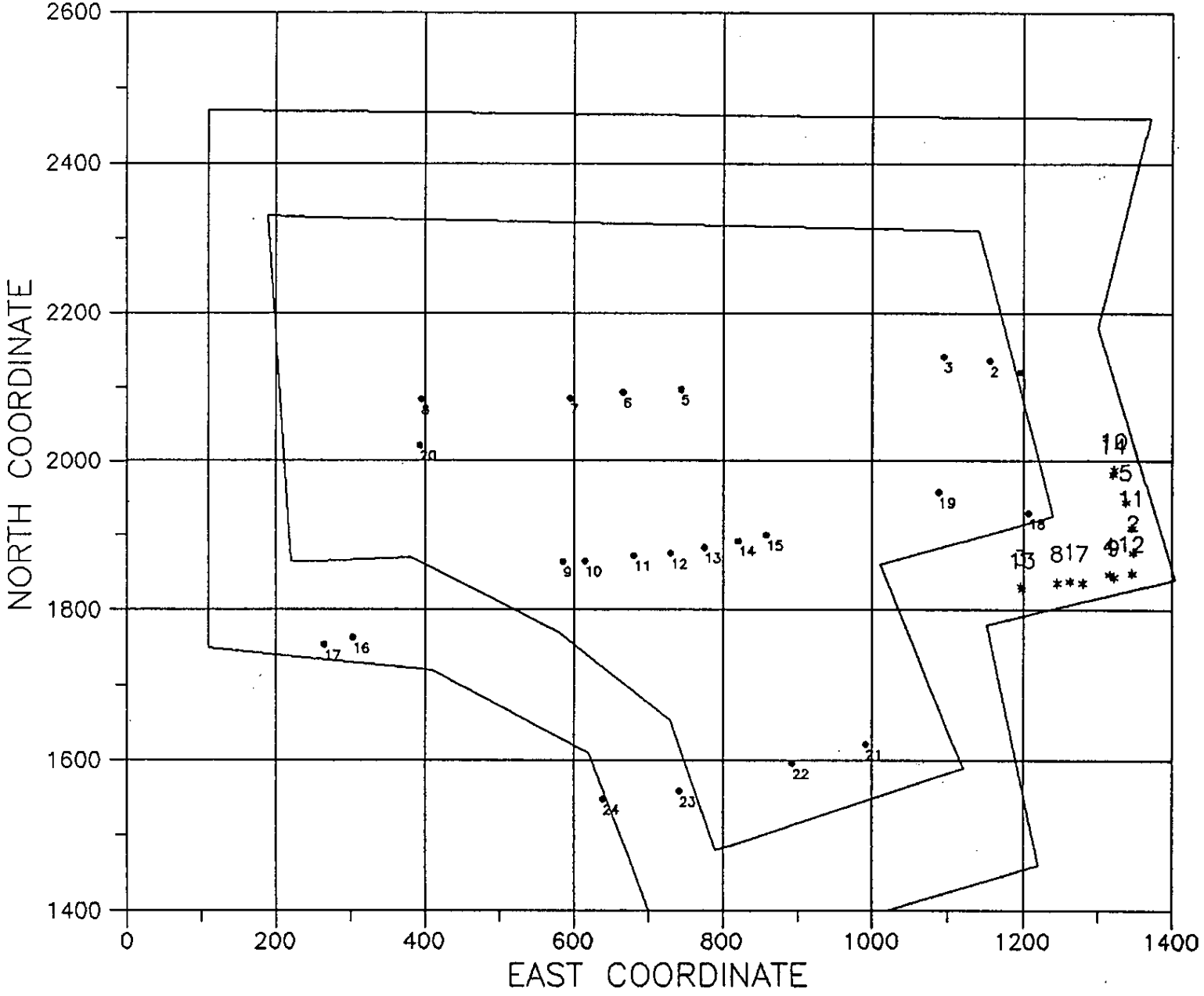
LABORATORY DATA - None performed

INSPECTOR Kirk Lowery ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-77



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-77	DATE:	5/24/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	K. Lowery
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 70's-High 80's	EQUIPMENT:	2 D-6 Dozers, 3 DJB's, 225 Backhoe, Vibratory Roller

ACTIVITIES SUMMARY

I arrive on site at 815. Sussex is exposing the below grade liner on the south side of 717C with a 225 Backhoe & 2-DJB's. At 1000 I test the below grade liner on the south and east side of 717C and take perm and Att samples (# 1 & 2). Brown & Butler start doing cross section of the below grade liner on the south & east side of 717C. Sussex at 1030 starts to put the first lift on the south & east side of 717C, (# 3-5). After lunch, Brown & Butler take cross sections on the slope of 717D. This is the south side where the exposed below grade liner from 717C has been exposed and compacted. Sussex puts second lift on the south & east side of 717C (# 6-11). The third lift is placed on the south & east side of 717C & Att. Samples are taken (# 13-14). A fourth lift is placed on the south side of 717C and Sussex stops working at 1630. I leave at 1645.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Wet Dens.(pcf)	Dry Dens.(pcf)	% Proctor	P/F
1	1838	1262	75.4	22.8	122.2	99.5	91.3	P
2	1877	1347	76.0	19.3	126.6	106.1	97.3	P
3	1831	1196	71.55	20.6	121.8	101.0	92.6	P
4	1847	1315	73.08	17.8	126.8	107.6	98.7	P
5	1945	1337	76.38	19.6	126.6	105.8	97.1	P
6	--	--	--	15.5	125.8	108.9	99.9	F
7	1836	1279	76.91	16.0	118.1	101.7	93.3	P
8	1836	1245	76.52	17.8	123.0	104.4	95.8	P
9	1844	1321	76.77	19.2	120.6	101.2	92.9	P
10	1988	1321	80.31	20.8	122.7	101.6	93.2	P
11	1910	1345	78.54	21.1	120.8	99.8	91.5	P
12	1849	1345	77.61	20.8	120.4	99.6	91.4	P
13	1827	1198	76.80	21.8	125.4	103.0	94.4	P
14	1982	1320	80.97	21.7	121.2	99.6	91.3	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
1	53/32	4.9×10^{-9}	24.6	100.6	--
2	40/21	1.1×10^{-8}	15.9	109.1	--
13	41/24	--	20.7	--	--
14	43/26	--	22.7	--	--

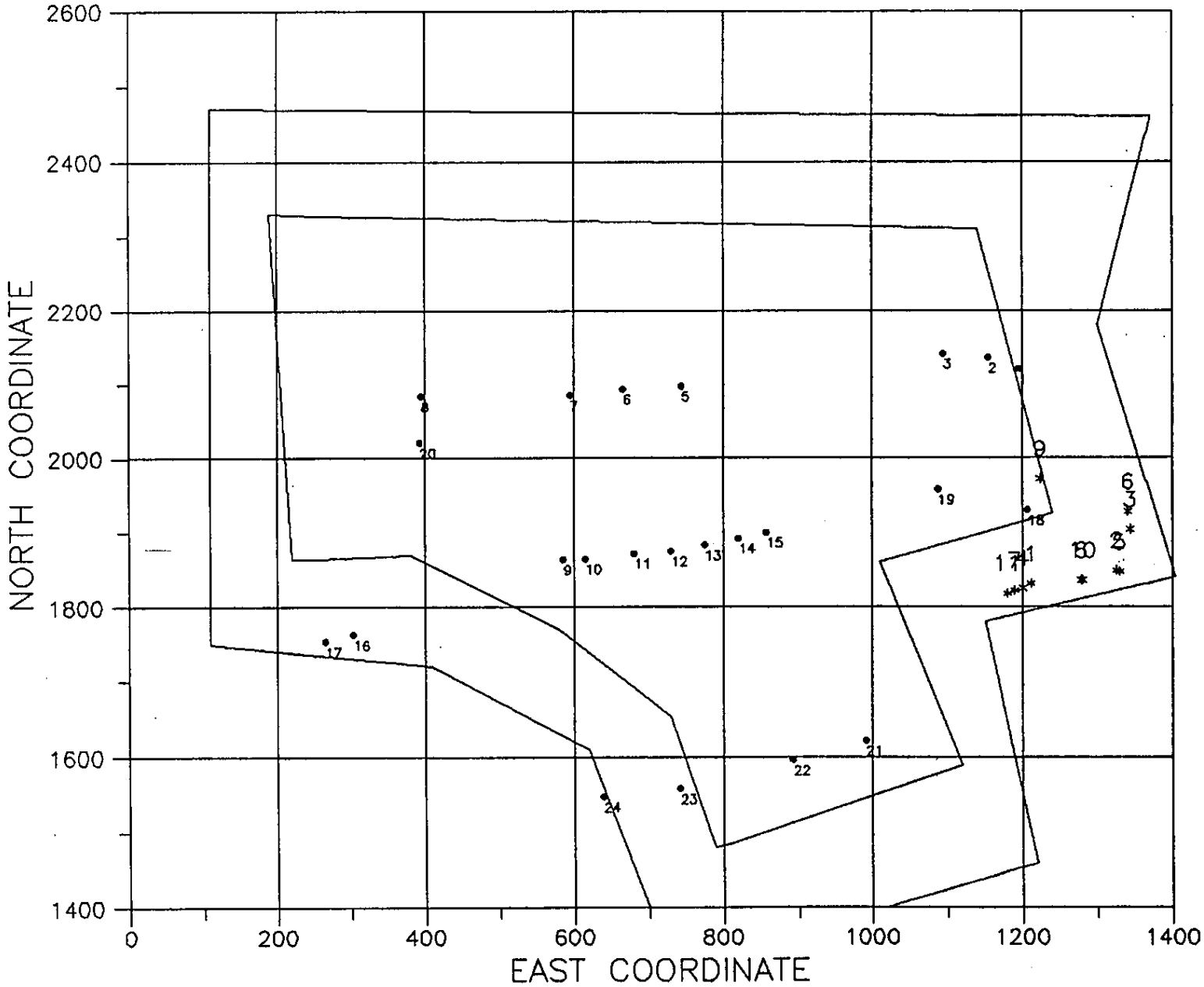
INSPECTOR Thomas A. Wesnick for Kirk Lowery ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-78

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-78	DATE:	5/25/88
PROJECT:	RES/717 Clay Cap	ENCOR REP:	K. Lowery
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Mid 70's-High 80's, Clear	EQUIPMENT:	2 D-6 Dozers, 4 DJB's, Vibratory Roller

ACTIVITIES SUMMARY

I arrive on site at 710. Sussex is putting the fourth lift on the east side of 717C. (Test 1-3). While I test, Sussex is taking clay up to the southeast corner of 717D. One D-6 Dozer is pushing the clay on the bottom lift and one D-6 Dozer is pushing the clay on top of 717D. Sussex continues to bring the fifth lift to the south and east bottom portion of 717 C (Test 7-9). On the seventh lift clay is only brought to the south portion of 717 C (Test 10-11). On the seventh lift I take an att. sample (T.P. 5-25-10). An eighth lift is placed on the southern protion of 717C. But the Troxler battery goes out so I must wait unitl the morning to test the compaction. While I was testing all the lifts and after the eight and final lift, Sussex has been putting clay in the southeast corner of 717D. Sussex shuts down the operation at 1635. I leave site at 1650.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Wet Dens.(pcf)	Dry Dens.(pcf)	% Proctor	P/F
1	1831	1211	78.4	20.6	123.7	102.5	94.1	P
2	1849	1325	78.5	22.7	121.7	99.2	91.0	P
3	1904	1343	80.8	19.0	124.7	104.8	96.1	P
4	1825	1200	79.01	22.2	120.5	98.6	90.5	P
5	1847	1329	79.11	20.4	123.0	102.1	93.7	P
6	1928	1340	81.36	18.8	121.2	102.0	93.6	P
7	1822	1189	80.14	19.3	121.1	101.5	93.1	P
8	1836	1278	79.84	19.7	125.0	104.4	95.8	P
9	1972	1323	81.85	19.7	118.7	99.1	91.0	P
10	1836	1280	80.54	21.9	122.3	100.3	92.0	P
11	1818	1180	81.11	22.0	121.6	99.6	91.4	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cond.(%)	Dry Dens.(pcf)	Other
10	42/25	--	19.5	--	--

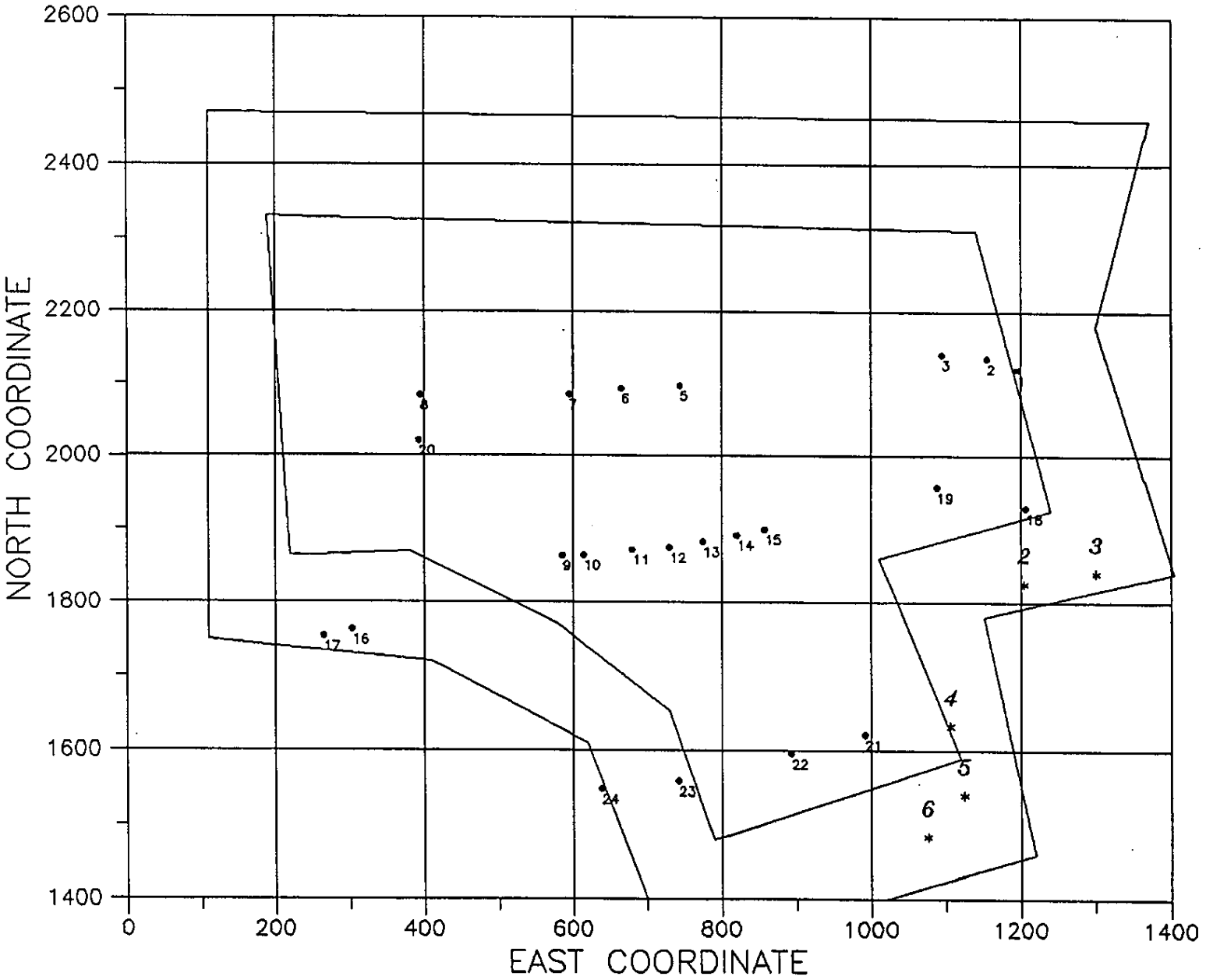
INSPECTOR Thomas A. Vreeuch for K. Lowery ENGINEER Charles R. Furb

ENCOR

TEST LOCATIONS

Rpt. No. 52-79

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-79	DATE:	5/26/88
PROJECT:	RES/717 Clay Cap	WLFE REP:	K. Lowery
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Sunny, Low 70's High 80's	EQUIPMENT:	2 D-6 Dozers, 4 DJB's, Vibratory Roller

ACTIVITIES SUMMARY

I arrive on site at 700. One D-6 Dozer is smoothing out the slope on the south side of 717C. The DJB's are bringing clay to the top of the east slope of 717D. The other D-6 Dozer is pushing the clay down the slope. A vibratory roller is being used on the southeast corner of 717D. At 730 I had to test the final lift from yesterday (Test 1-3). Test 3 is recheck of test 1. At 930 the borrow pit had to have top soil removed to excavate more clay. The top soil is being placed on top of 717A w/ the DJB's and one D-6 Dozer. Brown & Butler at 1000 started to x-section the east side of 717D where the below grade liner is exposed. At 1245 Sussex is now bringing clay to the top of 717D and dumping w/ 4 DJB's on the east side of 717D. A D-6 dozer is pushing the clay down the slopes. Brown and Butler finished x-sectioning at 1245. At 1350 (Test 4-6) were run on the south and east corners of the slope of 717D. The first lift continues on the east side of 717D and into the corner of 717D & 717C. A vibratory roller is compacting the clay along the east side of 717D. Brown & Butler at 1500 begin to x-section the east side of 717C. Sussex quits at 1630. I leave site at 1640.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Wet Dens.(pcf)	Dry Dens(pcf)	% Proctor	P/F
1	--	--	--	23.7	118.7	95.8	87.9	F
2	1826	1204	82.24	20.0	121.9	101.6	93.2	P
3	1841	1300	81.43	18.3	119.1	100.7	92.4	P
4	1633	1105	100.28	20.3	123.8	102.9	94.4	P
5	1540	1124	98.47	20.6	121.8	100.9	92.6	P
6	1484	1075	103.29	18.6	125.1	105.5	96.7	P

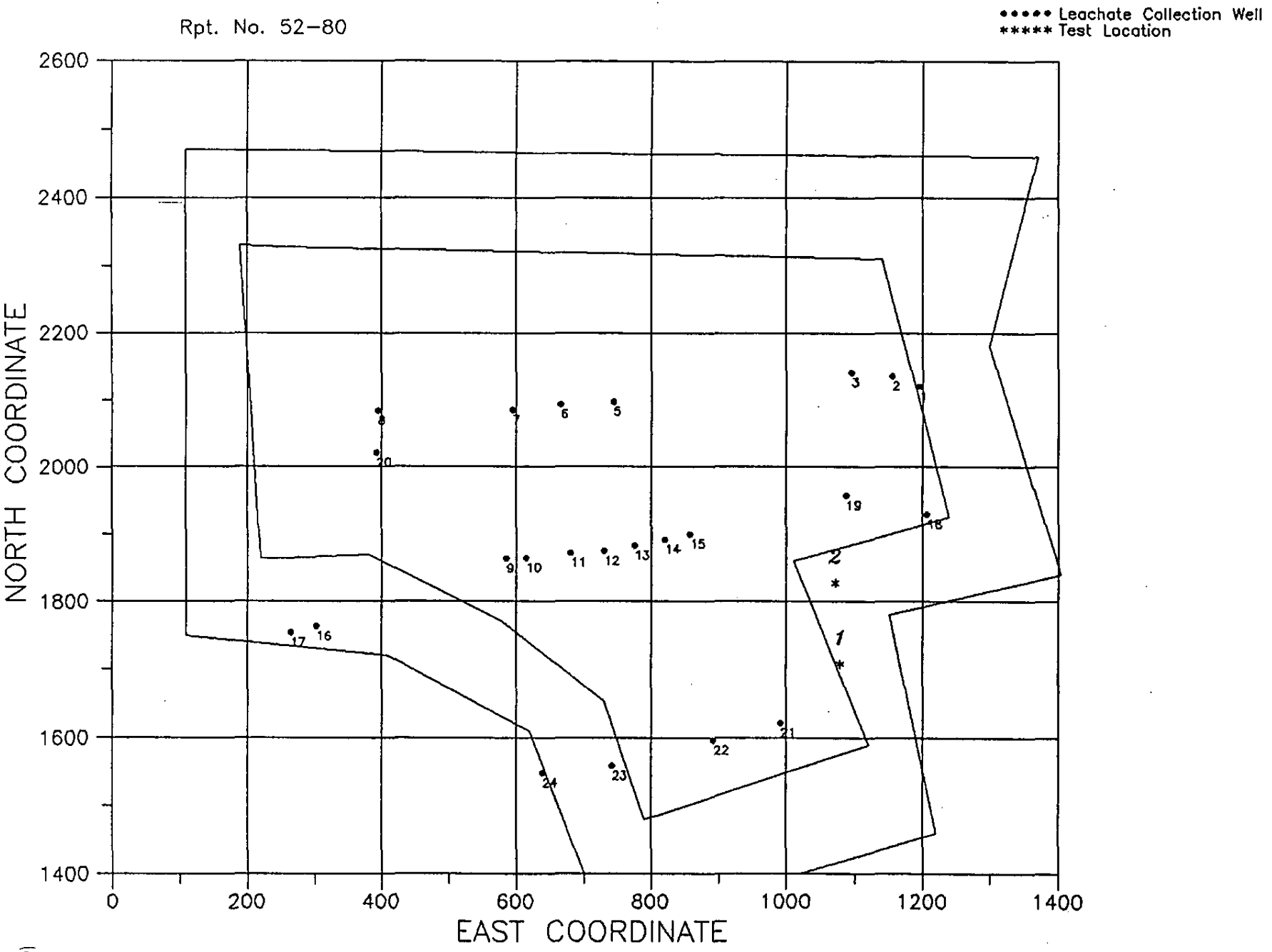
LABORATORY DATA - None performed

INSPECTOR Kirk Lowery ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-80



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-80	DATE:	5/27/88
PROJECT:	RES/717 Clay Cap	WLFE REP:	K. Lowery
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear High 60's-High 80's	EQUIPMENT:	2 D-6 Dozers, Motor grader, 4 DJB's, Vibratory Roller

ACTIVITIES SUMMARY

I arrive on site at 700. Sussex is dumping clay on top of the south border of 717D. They are using 4 DJB's, a D-6 Dozer, and a vibratory roller. The roller completes compacting the first lift on the east side slope of 717D (Test #1-2). John asked me to survey in a ditch on the south side of 717C (Pg. 23-12, 23-13) at 900. I took a perm & an Att. at Test pt. #2. Sussex is now placing clay on the south slope of 717C. They filled in the ditch that I surveyed. The south slope & the southeast corner slope of 717C continue to have clay placed on them. The vibratory roller is compacting the clay on top of the south end of 717D. I gave a copy of the surveyed ditch to John. At 1430 the motor grader is evening the topsoil placed on top of 717A. One D-6 Dozer is pushing clay down & around the slopes of the south & southeast corner of 717C. The other D-6 Dozer w/ the DJB's is placing clay on the top east portion of 717D. The vibratory roller is compacting clay on the south slope of 717C. At 1530 both D-6 Dozers are spreading clay on the east portion of 717D. The vibratory roller is compacting clay on the slope of the southeast corner of 717C. Sussex stopped hauling clay at 1615. I left site at 1630.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Wet Dens.(pcf)	Dry Dens.(pcf)	% Proctor	P/F
1	1708	1078	106.17	21.5	123.2	101.4	93.0	P
2	1828	1071	104.17	19.2	125.4	105.2	96.5	P

LABORATORY DATA

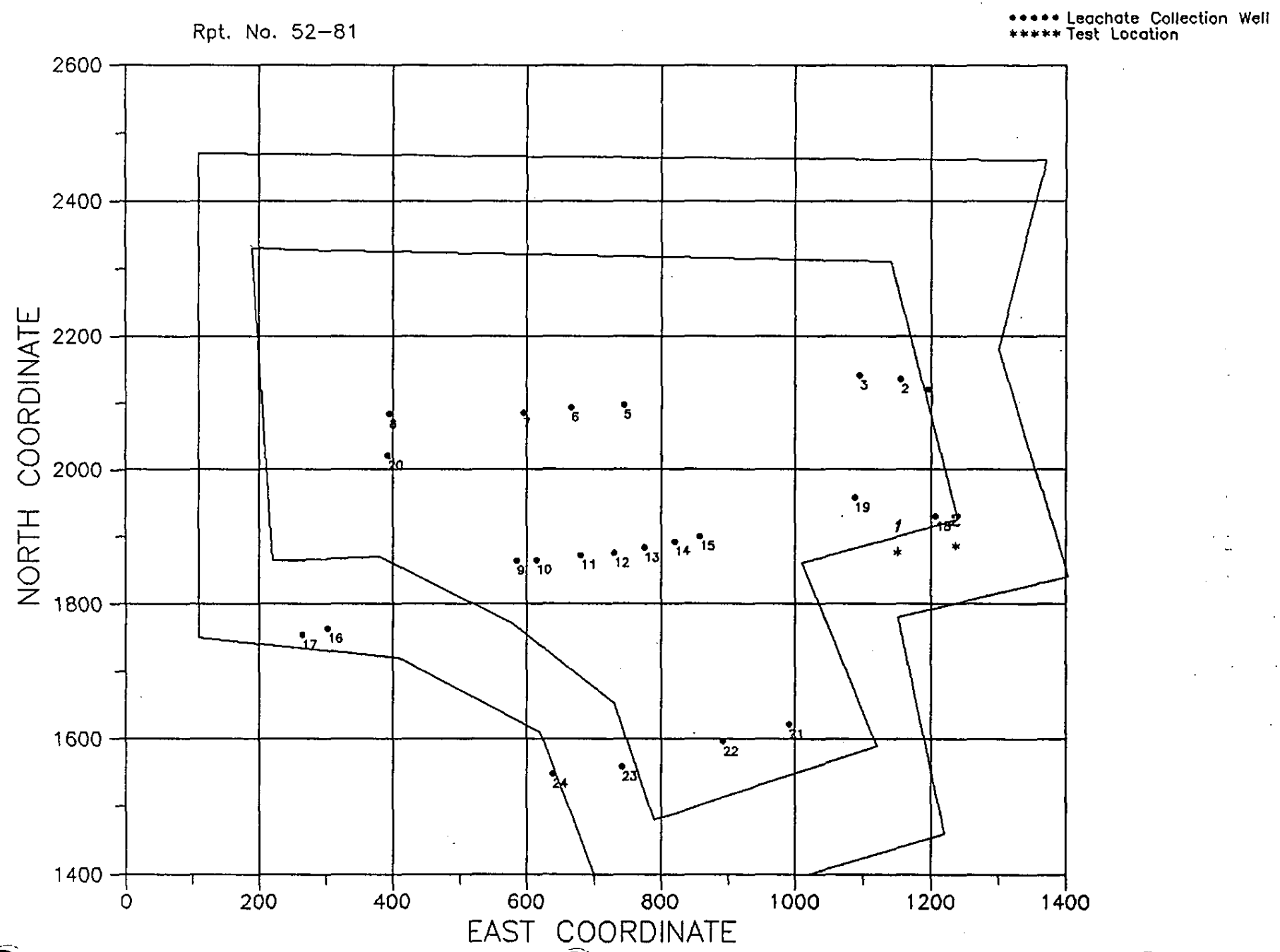
Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
2	42/25	2.0×10^{-9}	21.3	104.8	--

INSPECTOR Kirk Lowery ENGINEER Jack Ware

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-81



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-81	DATE:	5/31/88
PROJECT:	RES/717 Clay Cap	WLFE REP:	K. Lowery
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	70's-80's, Clear	EQUIPMENT:	D-6 Dozer, 4 DJB's, 225 Backhoe

ACTIVITIES SUMMARY

I arrived on site at 705. Sussex is moving top soil to the top of 717A with the DJB's and a D-6 Dozer is smoothing the soil out. On Friday, the south side of 717C was completely rolled for the first lift. I tested the south side at 830 (Test #1 & 2). At 1200 I talked to Mr. Brister & he said that they were going to move top soil the rest of the day. I left the site at 1215.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Wet Dens.(pcf)	Dry Dens.(pcf)	% Proctor	P/F
1	1877	1150	102.89	17.8	125.3	106.3	97.6	P
2	1886	1236	98.76	20.1	123.3	102.6	94.2	P

LABORATORY DATA - None performed

INSPECTOR Mike Lowery ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-82	DATE:	6/1/88
PROJECT:	RES/717 Clay Cap	WLFE REP:	K. Lowery
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 70 - 90	EQUIPMENT:	D-6 Dozer, 4 DJB's, Vibratory Roller, 235 Shovel

ACTIVITIES SUMMARY

I arrived on site at 700. Sussex is moving clay to the southeast corner of 717D. They are pushing the second lift down the slopes of 717D. By 1200 the clay is being brought to the east slope of 717D. A trench was dug down the southeast slope of 717C to put the leachate collection pipe into. The trench extends parallel to the existing up slope access road. At 1530 the vibratory roller began to compact the clay in the southeast corner of 717D. At 1700 Sussex was putting clay down the east slope of 717D. I left site at 1700.

FIELD DATA - None performed

LABORATORY DATA - None performed

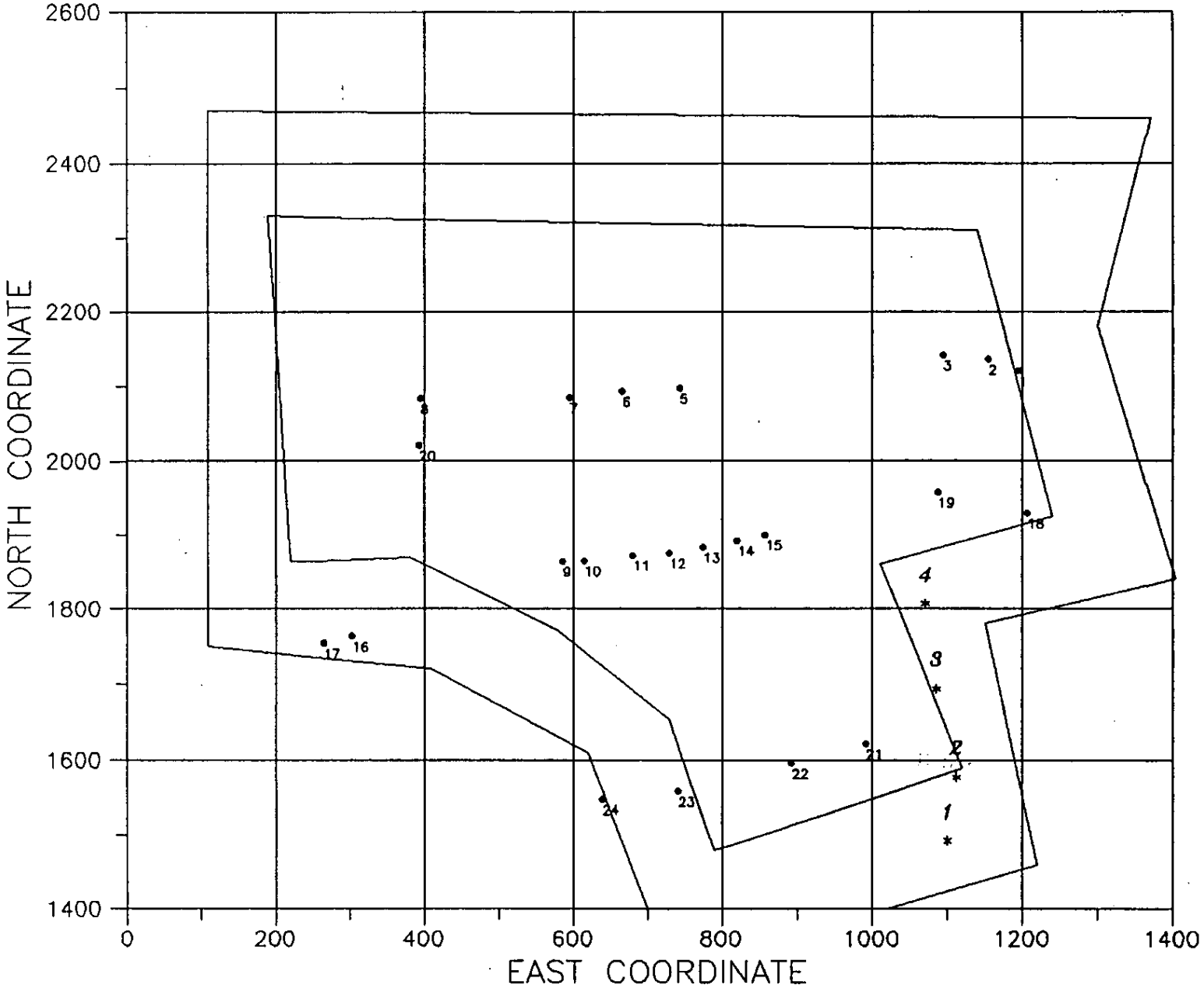
INSPECTOR Kirk Lowery ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-83

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-83	DATE:	6/2/88
PROJECT:	RES/717 Clay Cap	WLFE REP:	K. Lowery
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	--	EQUIPMENT:	D-6 Dozer, Vibratory Roller, 235 Shovel, 4 DJB's

ACTIVITIES SUMMARY

I arrive on site at 700. Sussex is putting clay on the east slope of 717D and in the 717D and 717C corner. They are compacting the east slope of 717D w/ a vibratory roller. At 800 I tested the southeast corner of 717D (Test #1 & 2) and I took a perm, att. %M sample. By 1130 Sussex was putting clay on the south slope of 717C. The clay was compacted and I tested the east slope of 717D (Test #3 & 4). Clay was hauled to the southwest corner of 717D at 1330. At 1400 Sussex continued putting clay down the south slope of 717C. Sussex was putting clay down around the southeast slope of 717C when I left the site at 1500 to attend DFR meeting at the office.

FIELD DATA

Test No.	N Corrd.	E Corrd.	Elev.	Water Cont.(%)	Wet Dens.(pcf)	Dry Dens.(pcf)	% Proctor	P/F
1	1493	1100	104.39	19.5	126.0	105.5	96.7	P
2	1578	1112	106.10	20.1	123.2	102.6	94.1	P
3	1694	1085	106.72	20.3	123.8	102.8	94.3	P
4	1807	1070	106.55	19.6	120.2	100.5	92.2	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
2	46/30	3.0×10^{-9}	20.4	105.9	--

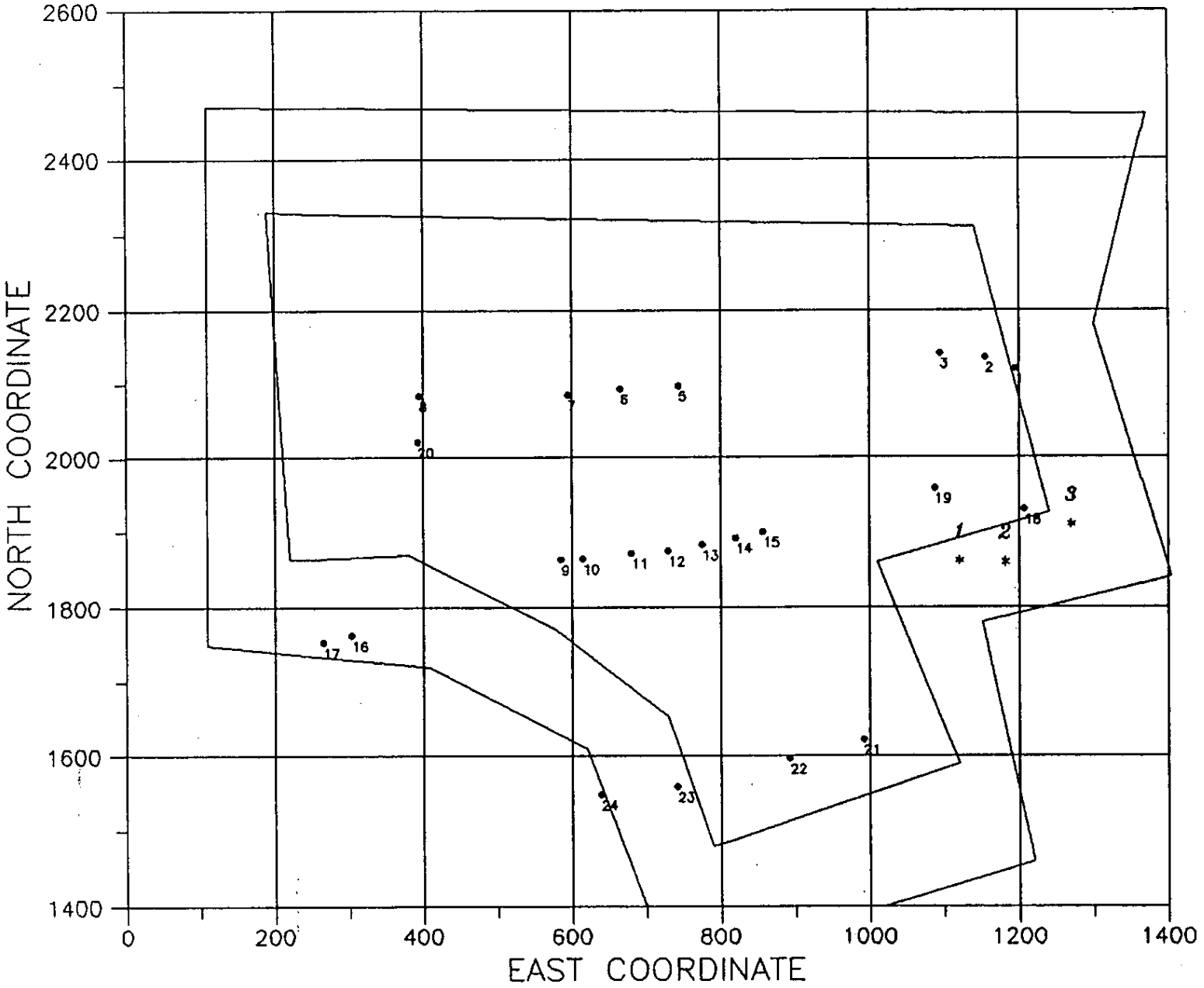
INSPECTOR Kirk Lowery ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-84

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-84	DATE:	6/3/88
PROJECT:	RES/717 Clay Cap	WLFE REP:	K. Lowery
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Low 70's-Low 80's, Overcast & Rainy	EQUIPMENT:	2 D-6 Dozers, 235 Shovel, Vibratory Roller, 4 DJB's

ACTIVITIES SUMMARY

I arrived on site at 700. Sussex is placing clay on the south slope of 717C and around the southeast corner. At 900 Sussex started putting clay down the south slope of 717D. The south and east corner of 717C was tested at 1030, (Test #1-3) and an Att. sample was taken (T.P. 6-2-2). At 1030 Sussex started placing clay down the southeast corner of 717D. It started to sprinkle at 1130. The clay being placed is the third lift. At 1230 it was still raining. Sussex decided not to haul any clay until the weather gave an indication of clearing. By 1600 the weather had not cleared and Sussex finally decided not to haul any clay so I left site.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Wet Dens.(pcf)	Dry Dens.(pcf)	% Proctor	P/F
1	1862	1120	102.48	19.7	124.2	103.8	95.2	P
2	1860	1181	96.18	21.3	121.7	100.3	92.0	P
3	1910	1269	97.01	19.8	125.4	104.7	96.0	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
2	44/26	--	22.1	--	--

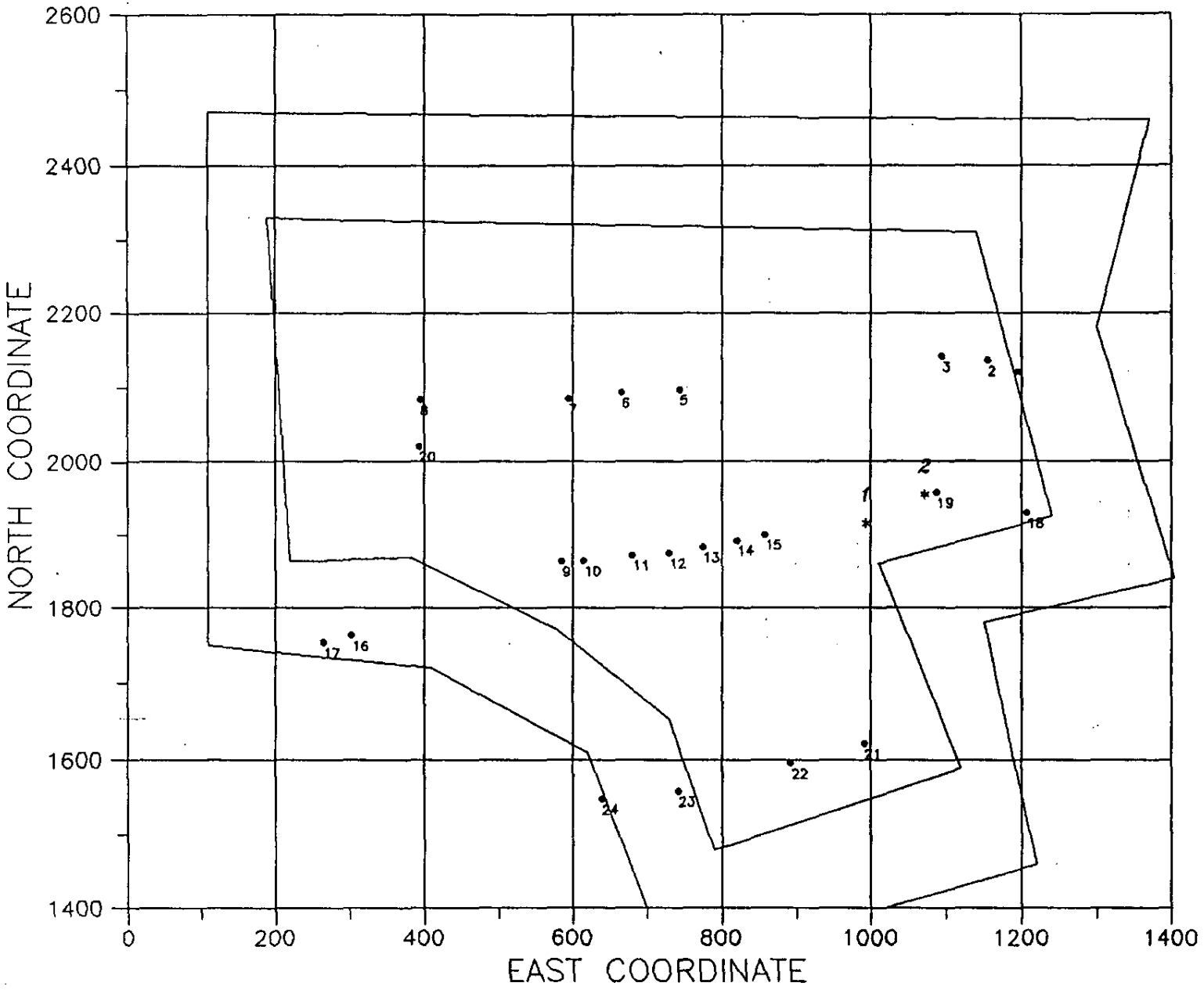
INSPECTOR Kirk Lowery ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-85

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-85	DATE:	6/6/88
PROJECT:	RES/717 Clay Cap	WLFE REP:	K. Lowery
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, Mid 70's-Low 90's	EQUIPMENT:	235 Shovel, D-6 Dozer, 4DJB's, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 800. Sussex is placing clay on the east slope of 717D. At 830, Sussex started putting a lift on top of the south portion of 717C. By 1230 the lift on the south portion had been compacted. A lift was then put on top of the east side of 717D. I tested the lift on the south side of 717C (Test #1 & 2) and I took on Att. & M% sample (T.P. 6-6-2). Sussex stopped placing clay at 1630. I left the site at 1730.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Wet Dens.(pcf)	Dry Dens.(pcf)	% Proctor	P/F
1	1916	993	113.83	20.2	122.8	102.1	93.7	P
2	1955	1072	112.91	18.0	129.4	109.6	100.6	P

LABORATORY DATA

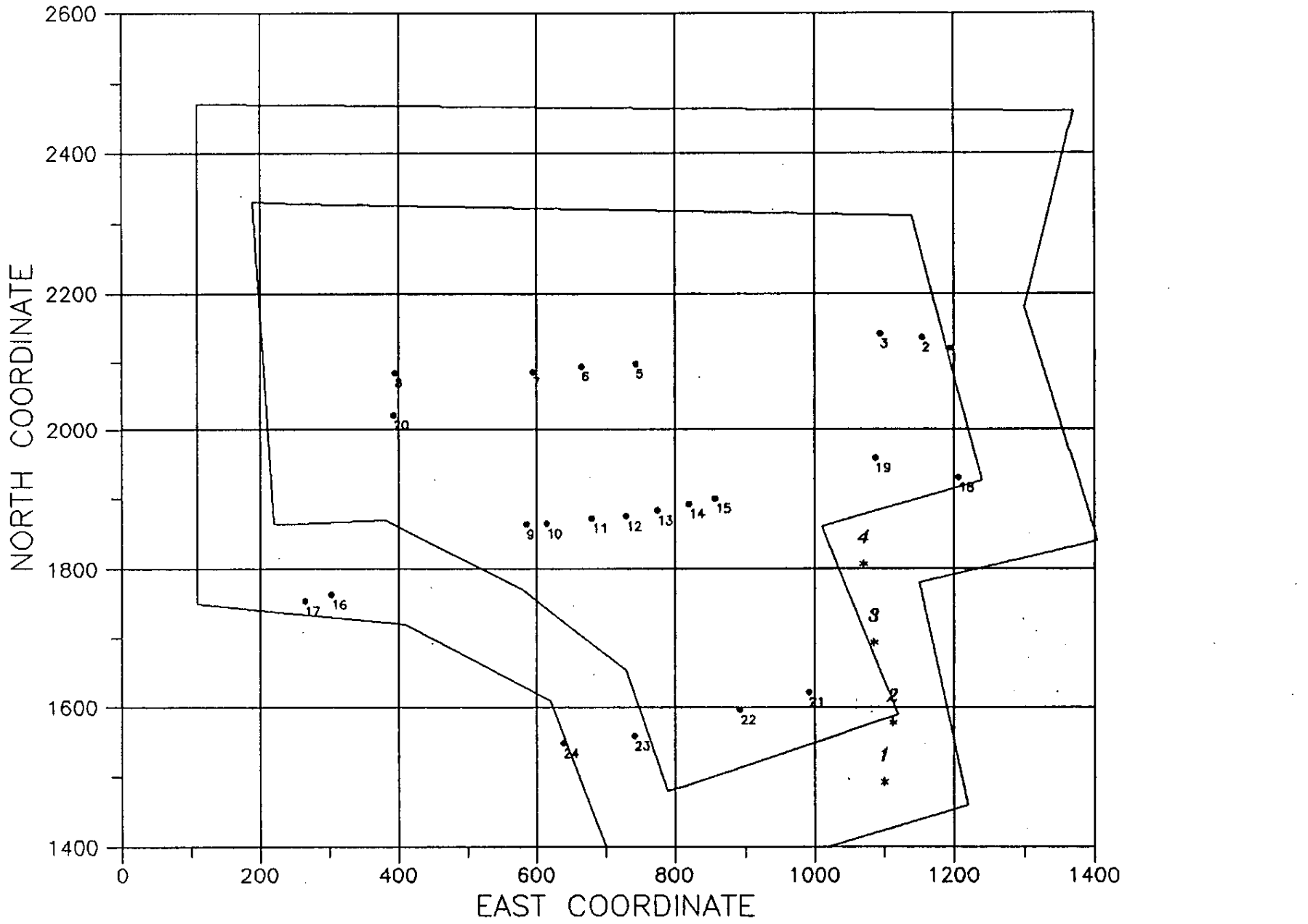
Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
2	44/26	--	20.6	--	--

INSPECTOR Kirk Lowery ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-86



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-86	DATE:	6/7/88
PROJECT:	RES/717 Clay Cap	WLFE REP:	K. Lowery
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Mid 70's-High 80's Overcast	EQUIPMENT:	D-6 Dozer, 235 Shovel, 4 DJB's, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 730. Sussex is compacting clay on the east side of 717D. They are transporting clay to the area on top of the cells between 717C and 717D. At 900 I tested the east side of 717D (Test #1-3). By 1130 the area between 717C f& 717D had been compacted (Test #4-6) (Sample T.P. 6-7-4). At 1230 Sussex put three loads of clay on the east side of 717D. Sussex began putting another lift between 717C & 717D at 1250. Sussex quit for the day at 1615. I left site at 1640.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Wet Dens.(pcf)	Dry Dens.(pcf)	% Proctor	P/F
1	1493	1100	104.39	19.5	126.0	105.5	96.7	P
2	1578	1112	106.10	20.1	123.2	102.6	94.1	P
3	1694	1085	106.72	20.3	123.8	102.8	94.3	P
4	1807	1070	106.55	19.6	106.5	100.5	92.2	P

LABORATORY DATA

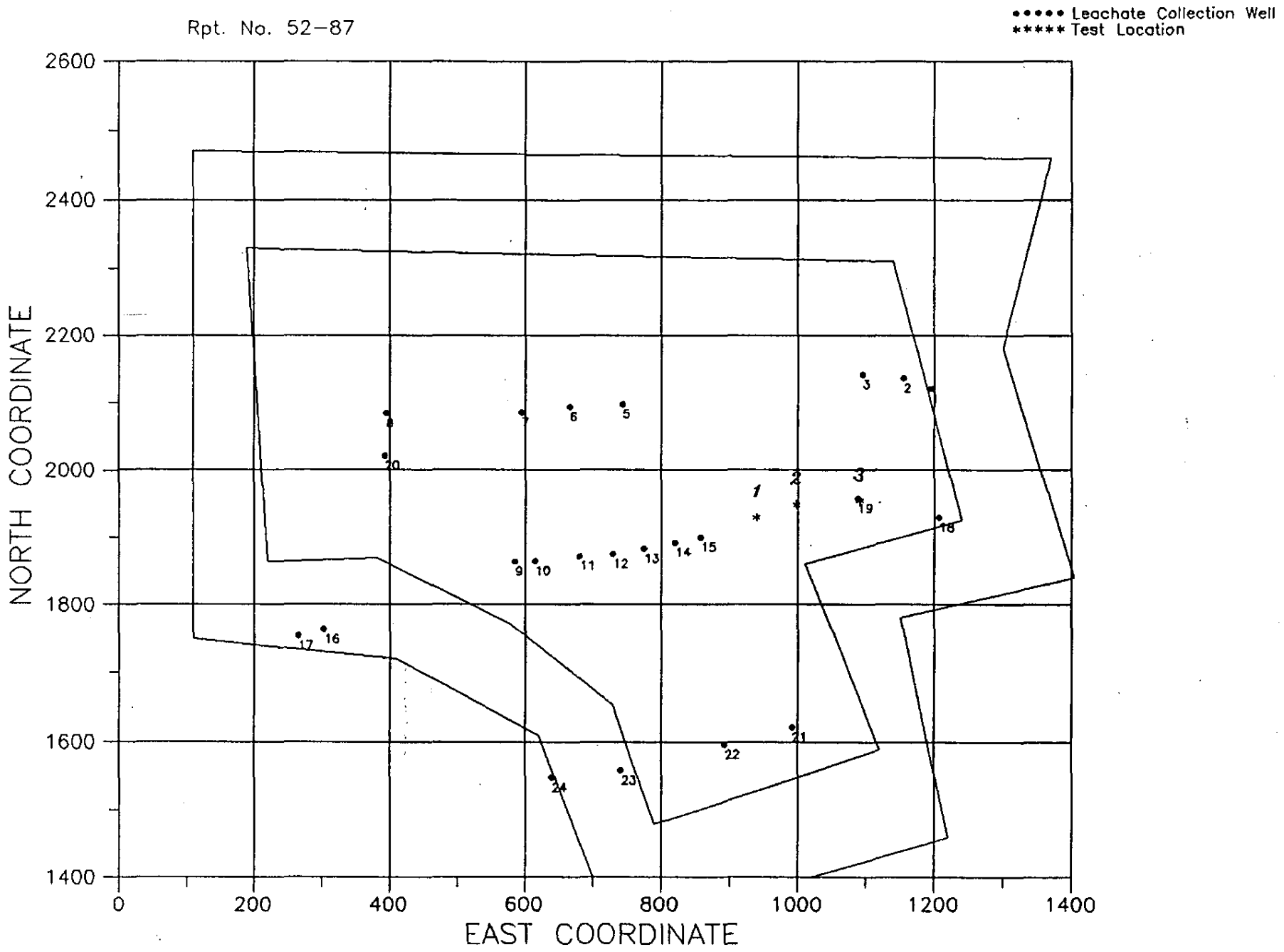
Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
2	44/27	5.0×10^{-10}	20.3	105.1	--

INSPECTOR Kirk Lowery ENGINEER Peter R. Donald

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-87



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-87	DATE:	6/8/88
PROJECT:	RES/717 Clay Cap	WLFE REP:	K. Lowery
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Mid 70's-Low 90's, Clear	EQUIPMENT:	D-6 Dozer, 4 DJB's, 225 Shovel, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 730. Sussex is placing clay on the east slope of 717D. At 900 I tested the clay on top of the cell between 717C & 717D. (Test #1-3). This clay was compacted yesterday. All day, Sussex placed clay on the east slope of 717D and on the slope in the corner of 717C & 717D. During the hot part of the day, vibratory roller's engine overheated & the roller had difficulty in managing the slopes. The roller was finally able to compact the clay between 1530 & 1630. Sussex quit for the day at 1630. I left the site at 1700.

FIELD DATA

Test No.	N Corrd.	E Corrd.	Elev.	Water Cont.(%)	Wet Dens.(pcf)	Dry Dens.(pcf)	% Proctor	P/F
1	1930	939	117.34	20.7	123.7	102.4	94.0	P
2	1949	997	116.84	20.2	123.7	102.9	94.4	P
3	1955	1090	115.42	18.5	119.1	100.5	92.2	P

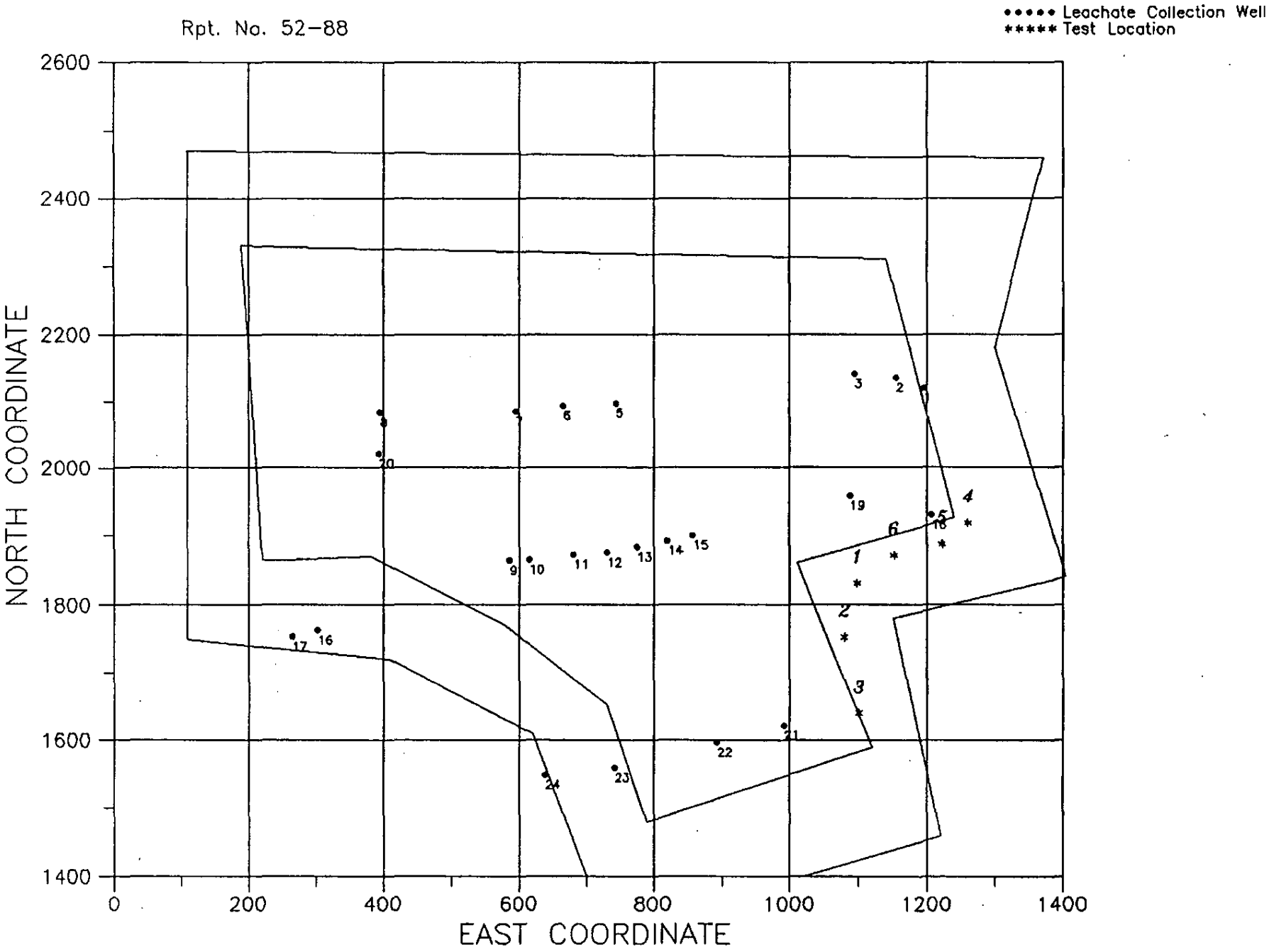
LABORATORY DATA - None performed

INSPECTOR _____ ENGINEER _____

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-88



EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-88	DATE:	06/09/88
PROJECT:	RES/717 Clay Cap	ENCOR REP:	K. Lowery
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Mid 70's-Mid 90's Sunny	EQUIPMENT:	D-6 Dozer, 4 DJB's, 225 Shovel, Vibratory Roller

ACTIVITIES SUMMARY

I arrived on site at 700. Sussex is placing clay on the south slope of 717C and around the southeastern corner of 717C. At 800 I tested the east slope of 717D (Test #1-3). In the northeastern slope of 717D the dry density was just above the minimum allowable. Sussex rerolled the area. (Sample 6-9-2) Sussex placed clay all day until 1545 on the southeastern corner of 717C. At 16;; I tested the southern slope (Sample 6-9-6). The slope of the southern side of the southeastern corner exhibited a dry density just above the minimum. Sussex to rerolled this area from 1545 to 1620. From 1545 to 1620 the DJB's were placing clay on the area between 717C & 717D. Sussex quit at 1620 for the day. I left the site at 1700.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont. (%)	Wet Dens. (pcf)	Dry Dens. (pcf	% Proctor	P.F
1	1831	1097	101.03	20.5	123.3	101.9	93.5	P
2	1753	1079	104.92	21.6	119.4	98.6	90.5	P
3	1641	1100	105.50	20.8	125.4	103.8	95.2	P
4	1918	1260	100.00	20.7	121.0	100.2	92.0	P
5	1887	1222	103.30	22.1	120.1	98.4	90.3	P
6	1871	1151	103.60	19.1	126.9	106.5	97.7	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
2	41/26	--	20.1	--	--
6	40/25	2.0×10^{-9}	18.9	106.3	-

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Furlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-89	DATE:	6/28/88
PROJECT:	RES/717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 95	EQUIPMENT:	D-6 Dozer, Backhoe, Motor Grader

ACTIVITIES SUMMARY

12:35 - 17:15 Gary using Backhoe, D-6 Dozer & Motor grader is exposing clay liner on southwest corner of Cell 717B.
16:30 I left site

Sussex exposing clay liner on southwest corner of 717B

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Steven D. Wintheiser ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-90	DATE:	6/29/88
PROJECT:	RES/717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 95	EQUIPMENT:	D-6 Dozer, 3-DJB's 2- Backhoes

ACTIVITIES SUMMARY

07:05 I arrived on site
07:15 Gary using backhoe & D6 Dozer is exposing clay liner on south side of 717B
09:10 Backhoe is removing CMP from ditch south of 717B
12:00 - 12:30 Lunch
12:35 Site/Sussex cutting off two leachate collection well on south side of 717B so liner can be exposed. Backhoe & 3-DJB's stripping topsoil in Western Tract.
16:20 I left site

Sussex exposing liner and removed CMP from south side of 717B.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Steven D. Wintheiser ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-91 (page 1 of 2)	DATE:	6-30-88
PROJECT:	717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 95+	EQUIPMENT:	2-D-6 Dozers, 235 Shovel, 3-DJB's, compactor

ACTIVITIES SUMMARY

07:00 I arrived on site.
07:10 2-D-6 Dozers working south side of 717B stripping vegetation & exposing liner. 235 Shovel & 3 DJB's stripping topsoil in Western Tract.
08:40 Dozers are stripping & stockpiling clay from undocumented clay cap on south side 717B.
09:10 Two density tests (#1&2) on clay liner passed.
10:15 B&B cross sectioning exposed liner on south side 717B
10:58 D-6 Dozer placing 1st lift over exposed liner
11:20 Compactor rolling 1st lift.
12:00 - 12:30 Lunch.
12:35 Two tests on 1st lift (#3&4) passed.
12:55 Dozer placing 2nd lift.
13:45 Two tests on 2nd lift passed (#5&6)
13:52 Dozer placing 3rd lift.
14:20 Two tests on 3rd lift passed (#7&8).
14:40 Dozer placing 4th lift.
15:00 Two tests on 4th lift passed (#9&10).
15:10 Dozer placing 5th lift.
16:15 Sussex finished for the day.
16:30 I left for the day.

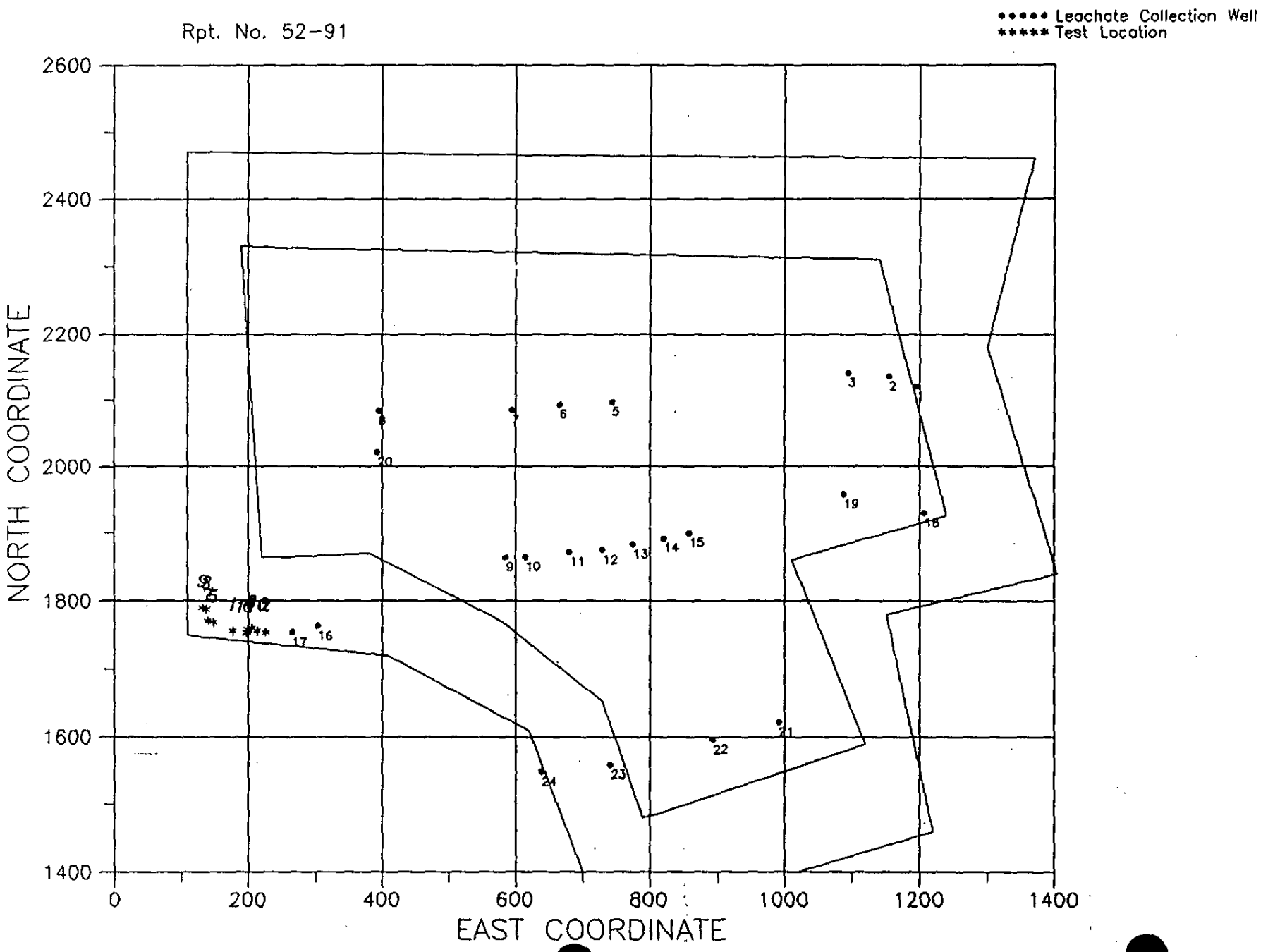
Brown and Butler shot cross-section of existing liner around southwest corner of 717B. Sussex started placing clay cap derived from undocumented cap on south slope of 717B. Sussex stripped topsoil in Western Tract.

INSPECTOR Steven D Wintheiser ENGINEER Jack [illegible]

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-91



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO: 52-91 (page 2 of 2)

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens(pcf)	% Proctor	P/F
1	1756	177	76.10	23.2	98.3	90.2	P
2	1754	226	74.30	24.0	100.8	92.4	P
3	1788	138	81.22	21.3	101.5	93.1	P
4	1758	199	75.51	20.1	103.6	95.0	P
5	1768	148	80.91	19.1	100.7	92.4	P
6	1754	200	76.76	20.3	98.6	90.5	P
7	1771	140	81.63	23.5	101.0	92.6	P
8	1760	205	77.25	20.9	100.2	91.9	P
9	1790	132	82.73	21.1	100.4	92.1	P
10	1756	213	78.60	21.5	104.2	95.6	P
11	1753	197	80.67	20.7	99.9	91.7	P

LABORATORY DATA

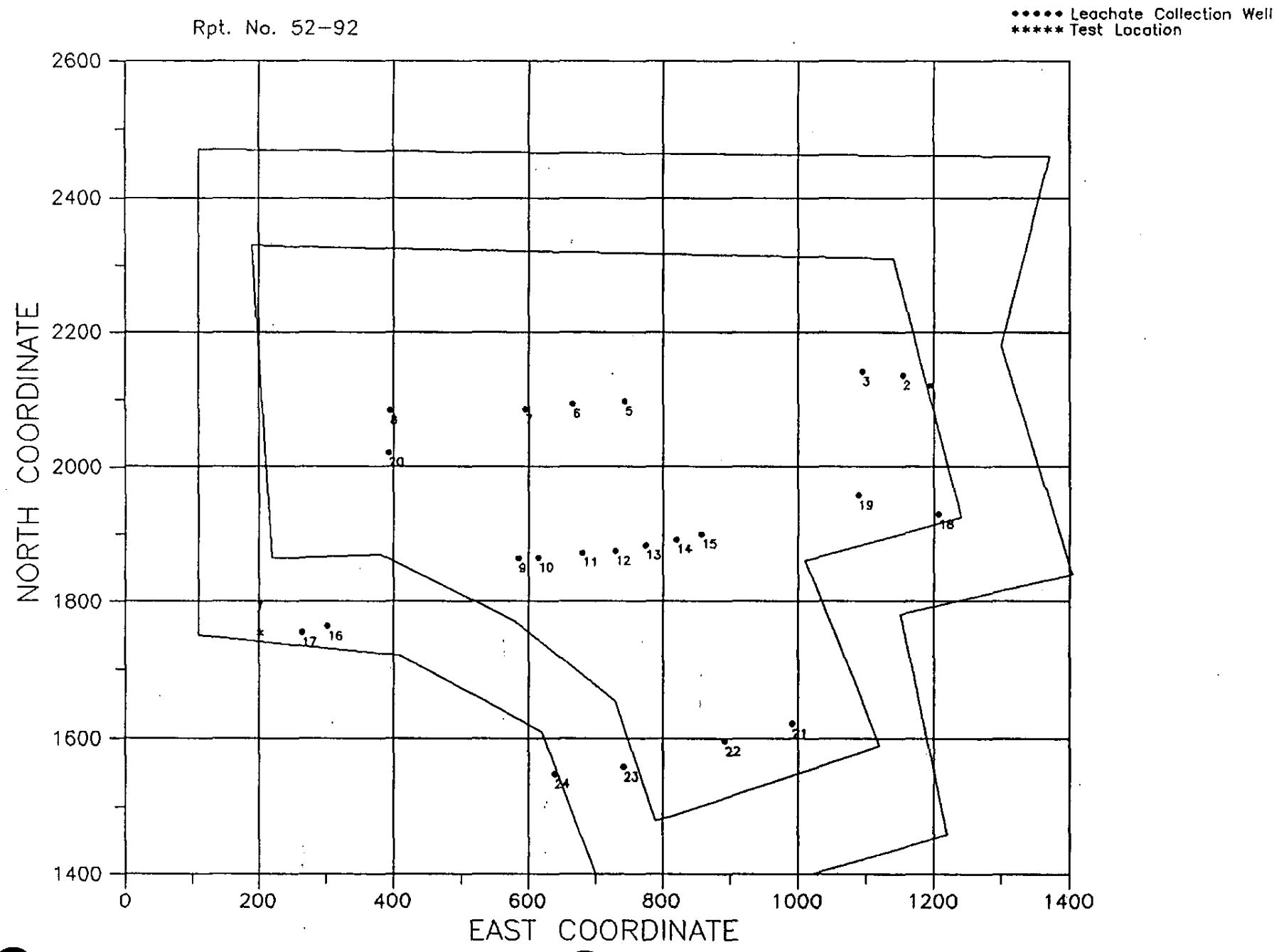
Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
2	51/32	4.3×10^{-9}	23.2	100.6	-
11	50/32	-	19.0	-	-

INSPECTOR Steven D. Winthrop ENGINEER Jack C. [illegible]

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-92



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-92	DATE:	7/1/88
PROJECT:	717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 95	EQUIPMENT:	2 D-6 Dozers, 235 Shovel, 3 DJB's, Compactor

ACTIVITIES SUMMARY

07:00 I arrived on site.
07:10 Sussex marking 2 leachate collection pipes on south slope of 717B w/4x4's.
07:30 D-6 Dozer stripping clay from undocumented clay cap on south slope 717B. 235 Shovel, 3 DJB's and D-6 Dozer stripping topsoil in Western Tract.
08:50 Dozer cutting back side slope at area of unexposed liner.
10:05 Dozer working on drainage south of 717B.
12:00 - 12:30 Lunch
12:50 Dozer placing 6th lift on south side of 717B.
13:40 Test (#1) on 6th lift passed.
14:05 Sussex discontinued work on clay cap, but continue hauling topsoil.
15:15 I left site.

Sussex stripped clay from undocumented clay cap of south slope of 717 B. Placed 6th lift on vertical liner, worked on drainage at toe of south slope.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens(pcf)	% Proctor	P/F
1	1753	202	81.26	20.7	104.0	95.4	P

LABORATORY DATA - None

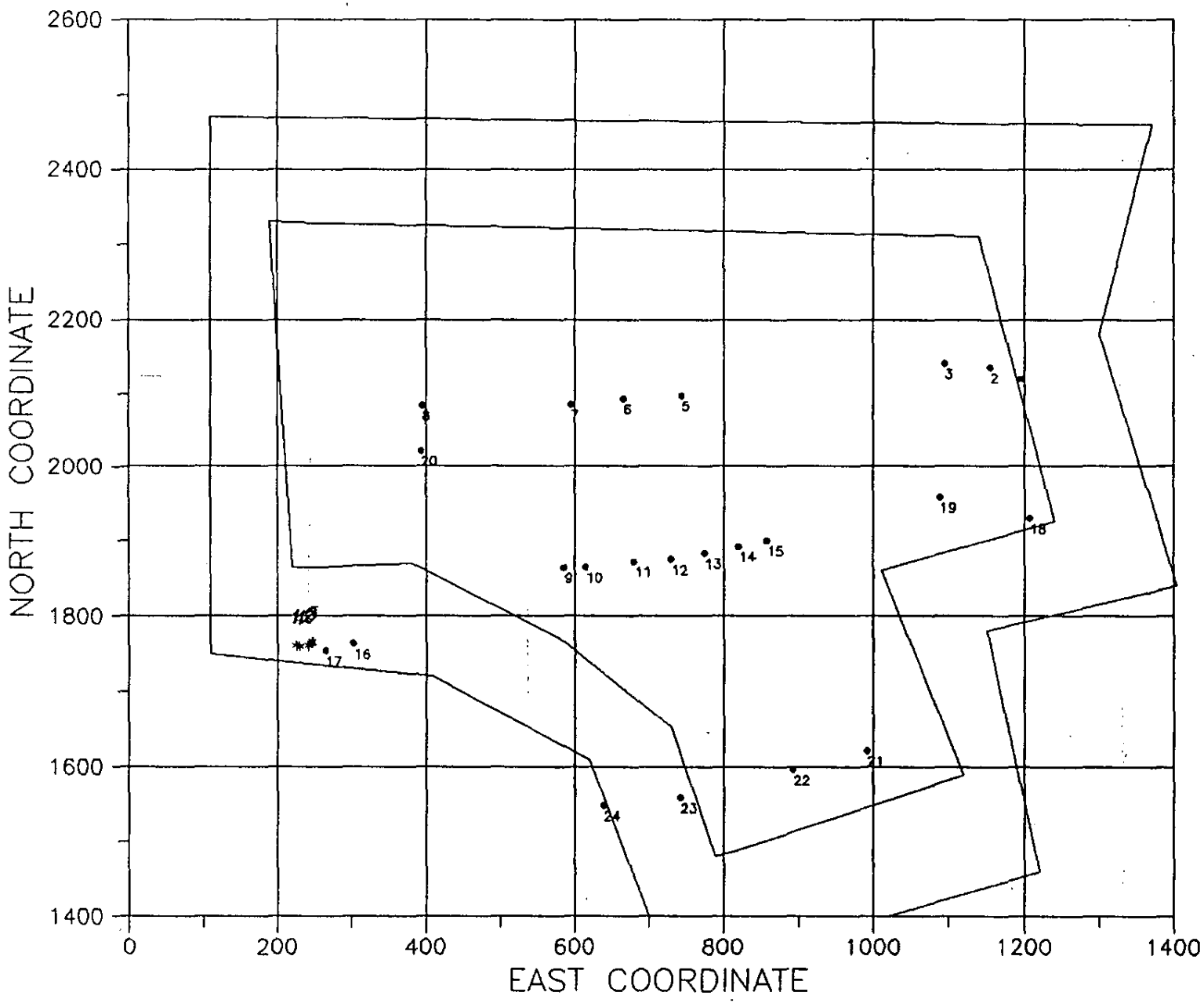
INSPECTOR Steven D. Wintheiser ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-93

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.: 52-93
PROJECT: 717 Clay Cap
PROJECT NO.: 87B052
WEATHER: Cloudy, 90

DATE: 7/5/88
WLFE REP: S. Wintheiser
CONTRACTOR: Sussex
EQUIPMENT: 235 Backhoe & Shovel, 2-D-6 Dozers, 5 DJB's, Compactor

ACTIVITIES SUMMARY

07:00 I arrived on site.
07:10 235 Backhoe & D-6 Dozer excavating to expose clay liner on south side of 717B. DJB is hauling uncompacted fill from excavation to south side slope of 717B. 235 Shovel, D-6 Dozer & 3 DJB's hauling topsoil in Western Tract.
08:20 2 DJB's now hauling from south side of 717B.
09:10 Sussex cutting off western leachate collection pipe (C-16).
12:00 - 12:30 Lunch
12:35 Same activities as at 07:10.
13:05 Two density tests on exposed liner passed (# 1&2). Sussex cutting off eastern leachate collection pipe. (C-17)
13:20 B & B shooting cross section on exposed liner.
13:44 D-6 Dozer placing 1st lift on newly exposed liner (approx 30' west of C-16).
14:30 Test (#3) on 1st lift passed.
15:05 Test (#4) on 2nd lift passed.
15:35 Test (#5) on 3rd lift passed.
17:25 I left site.

Sussex exposing clay liner on south side of 717B and started clay backfill over exposed liner. Brown & Butler shot cross-section west of C-17.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens(pcf)	% Proctor	P/F
1	1760	225	72.97	22.4	102.0	93.6	P
2	1760	242	71.22	22.1	101.7	93.6	P
3	1763	246	74.05	19.5	103.8	95.2	P
4	1759	230	76.68	19.8	102.7	94.3	P
5	1765	248	76.15	23.1	99.3	91.1	P

LABORATORY DATA - None

INSPECTOR Stuart D Wintheiser ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-94 (page 1 of 2)	DATE:	7/6/88
PROJECT:	717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy	EQUIPMENT:	Shovel, Backhoe, Dozers, DJB's, Compactor

ACTIVITIES SUMMARY

07:00 I arrived on site.
07:05 235 Shovel & 3 DJB's are hauling topsoil in Western Tract.
08:00 D-6 Dozer & 235 Backhoe exposing clay liner south of 717B.
08:15 Brown & Butler shot cross section on exposed liner east of LC-17. Two tests on exposed liner passed (# 1&2). Perm & Att samples at T.P. 1. Pictures taken of exposed liner.
08:38 3 DJB's hauling fill from Western Tract to D-6 placing 1st lift on newly exposed liner.
09:10 Test on 1st lift passed (#3).
09:40 Two tests on 2nd lift failed (# 4&5). Area re-rolled - test #6 also failed.
10:00 R. Roger took over while I attended 902 progress meeting. 2nd lift was scraped & re-rolled. Two tests passed (# 7&8)
11:20 Test on 3rd lift passed (#9).
12:00 - 12:30 Lunch
13:10 Two tests on 4th lift passed (# 10&11).
13:45 Test on 5th lift passed (# 12).
14:15 Two tests on 6th lift passed (#13&14).
15:05 Test on 7th lift passed (#15).
15:55 8th lift passed (# 16& 17).
16:40 I left site.

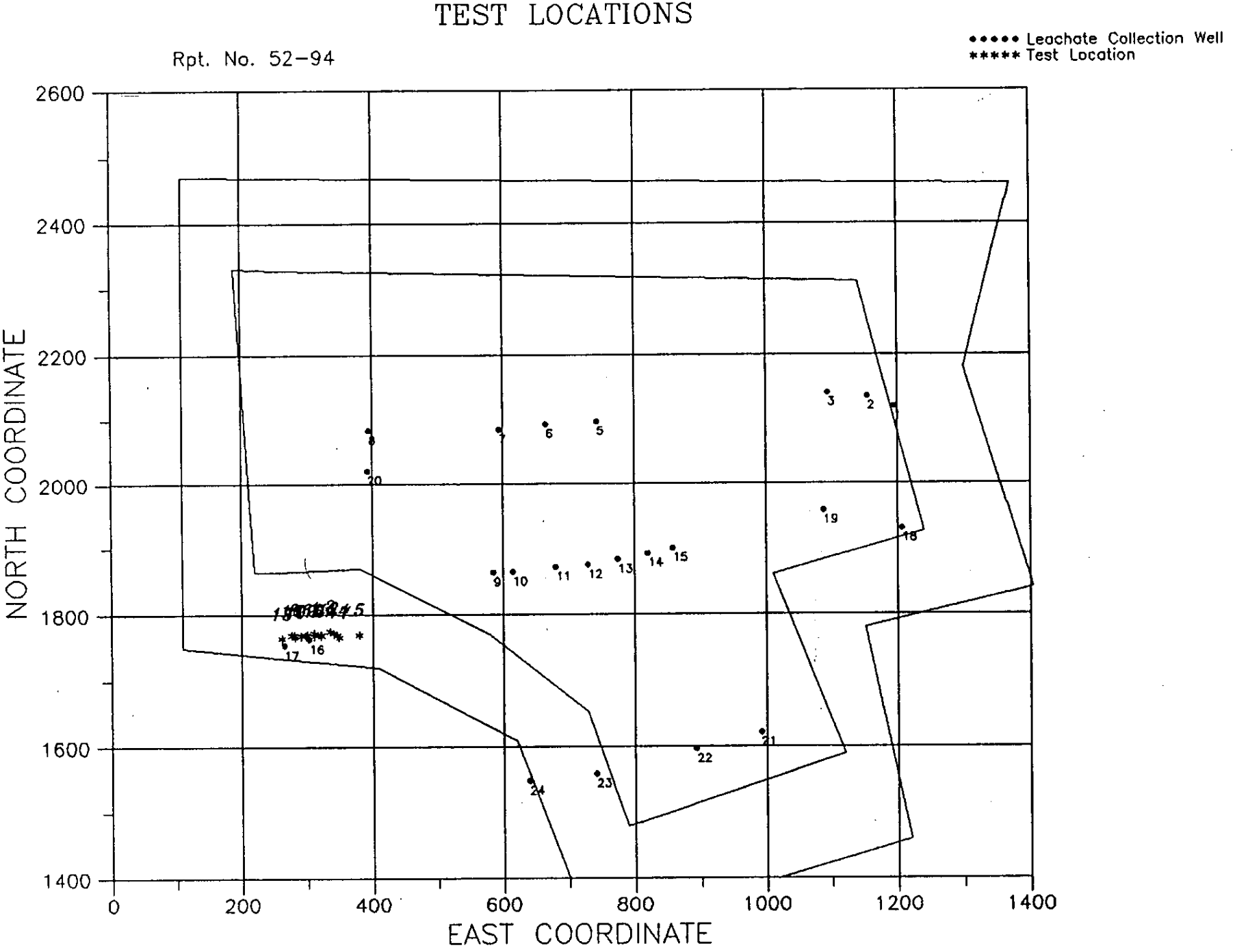
Brown & Butler shot cross section on exposed liner. Sussex placed 8 lifts on exposed liner, south side of 717B.

INSPECTOR Steven D. Wintheiser ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-94



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.: 52-94 (page 2 of 2)

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens(pcf)	% Proctor	P/F
1	1772	311	70.60	18.7	108.6	99.6	P
2	1772	340	70.40	23.7	101.9	93.5	P
3	1775	335	72.48	21.1	101.3	92.9	P
4	1770	321	-	21.0	97.4	89.3	F
5	1770	380	-	24.3	95.0	88.0	F
6	1770	300	-	21.3	97.9	89.8	F
7	1770	321	74.20	21.0	98.7	90.5	P
8	1770	280	74.85	23.0	99.2	91.0	P
9	1768	291	75.65	21.4	99.9	91.6	P
10	1766	281	77.45	22.3	99.7	91.5	P
11	1769	322	76.85	22.7	100.5	92.2	P
12	1768	298	78.07	23.5	98.1	90.0	P
13	1764	261	79.96	22.0	98.2	90.1	P
14	1770	346	79.17	19.0	103.6	95.1	P
15	1768	311	80.28	22.9	102.3	92.8	P
16	1769	276	81.73	22.4	98.3	90.2	P
17	1766	349	81.62	22.3	100.6	92.3	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
1	37/22	2.0×10^{-9}	18.9	112.8	--

INSPECTOR Steven D Winterhalder ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-95	DATE:	7/7/88
PROJECT:	717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy	EQUIPMENT:	235 Backhoe & Shovel, D-6 & D-3 Dozers, 3 DJB's

ACTIVITIES SUMMARY

06:56 I arrived on site.
07:05 Motor grader is working on haul roads - cleaning up muck from overnite rains. 235 Shovel, 3 DJB's & D-6 Dozer hauling topsoil in Western Tract.
10:25 D-6 Dozer scraping muck from clay liner placed on south side of 717B.
12:00 - 12:30 Lunch
12:55 D-3 Dozer w/backhoe is excavating to re-expose C-16 on south side of 717B.
14:20 D-3 Dozer w/backhoe is excavating to re-expose C-17 on south side of 717B. Sussex is extending C-16 through clay liner.
14:55 Heavy downpour started. Sussex done for the day.
15:25 I left site.

Sussex exposed C-16 & extended it through clay liner, & stripped topsoil in Western tract.

FIELD DATA - *None*

LABORATORY DATA - None

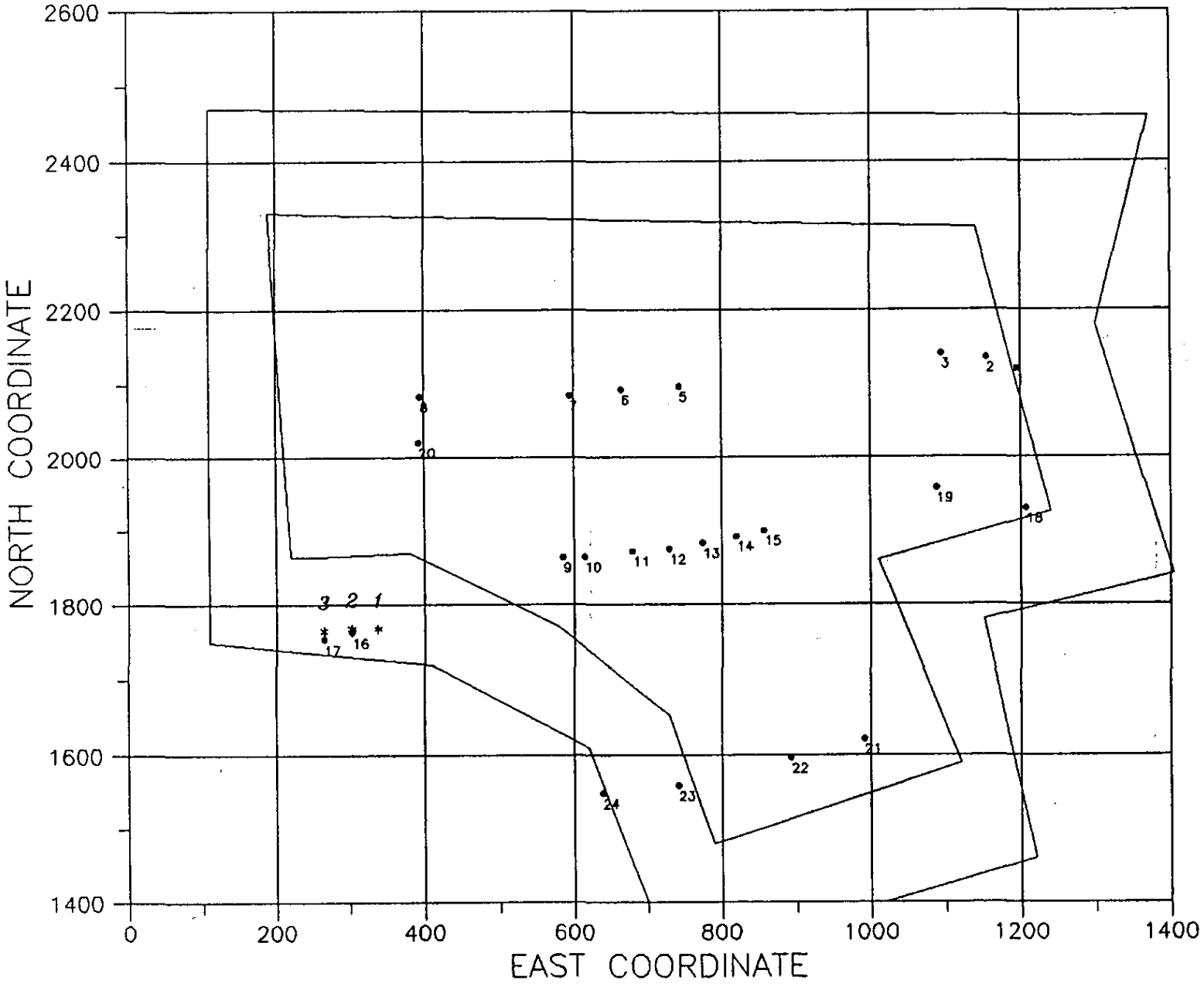
INSPECTOR Stuart D Wintheiser ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-96

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-96	DATE:	7/8/88
PROJECT:	717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 90	EQUIPMENT:	D-6 Dozer, Compactor, Backhoe

ACTIVITIES SUMMARY

07:02 I arrived on site.
07:25 Sussex extending C-16, D-3 w/backhoe re-exposing C-17 on south side of 717B.
09:20 Sussex extending C-17 through clay liner.
12:00 - 12:30 Lunch
12:35 Same as @ 09:20.
12:55 D-6 Dozer backfilling over C-16 & C-17.
13:48 One test each over C-16 & C-17 (#1&3) and on 9th lift (#2) passed.
14:10 D-6 Dozer dressing-up south side of 717B & working on drainage.
14:30 Sussex done for the day.
14:45 I left site.

Sussex extended C-16 & C-17 through clay liner on south of 717B and backfilled over pipes.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens(pcf)	% Proctor	P/F
1	1768	338	82.03	21.5	102.3	93.9	P
2	1768	303	80.61	22.3	104.1	95.5	P
3	1765	265	81.17	26.0	98.1	90.0	P

LABORATORY DATA - None

INSPECTOR Steven D. Wintheiser ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-97 (page 1 of 2)	DATE:	7/11/88
PROJECT:	717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy	EQUIPMENT:	235 Shovel, D-6 Dozer, D-7 Dozer, 3 DJB's, Compactor

ACTIVITIES SUMMARY

07:00 I arived on site.
07:10 235 Shovel & 3 DJB's stripping topsoil in Western Tract. D-6 Dozer placing clay on south side of 717B (10th lift).
08:50 Two tests on 10th lift passed (# 1&2).
09:02 DJB's hauling clay to 717B from Western Tract.
09:45 Two tests on 11th lift failed (# 3&4). Compactor re-rolling this lift.
10:05 D-7 Dozer dressing-up south slope of 717B.
10:20 Two tests on 11th lift passed after being re-rolled (# 5&6). Took Perm and Att. Sample at T.P.5.
11:30 Two tests on 12th lift passed (# 7&8).
12:00 - 12:30 Lunch
12:35 Sussex placing 13th lift.
13:15 Two tests on 13th lift passed (# 9&10).
14:05 Two tests on 14th lift passed (# 11&12).
13:10 Two tests on 15th lift passed (# 13&14).
14:05 Started Raining - couldn't test 16th lift.
14:30 I left site.

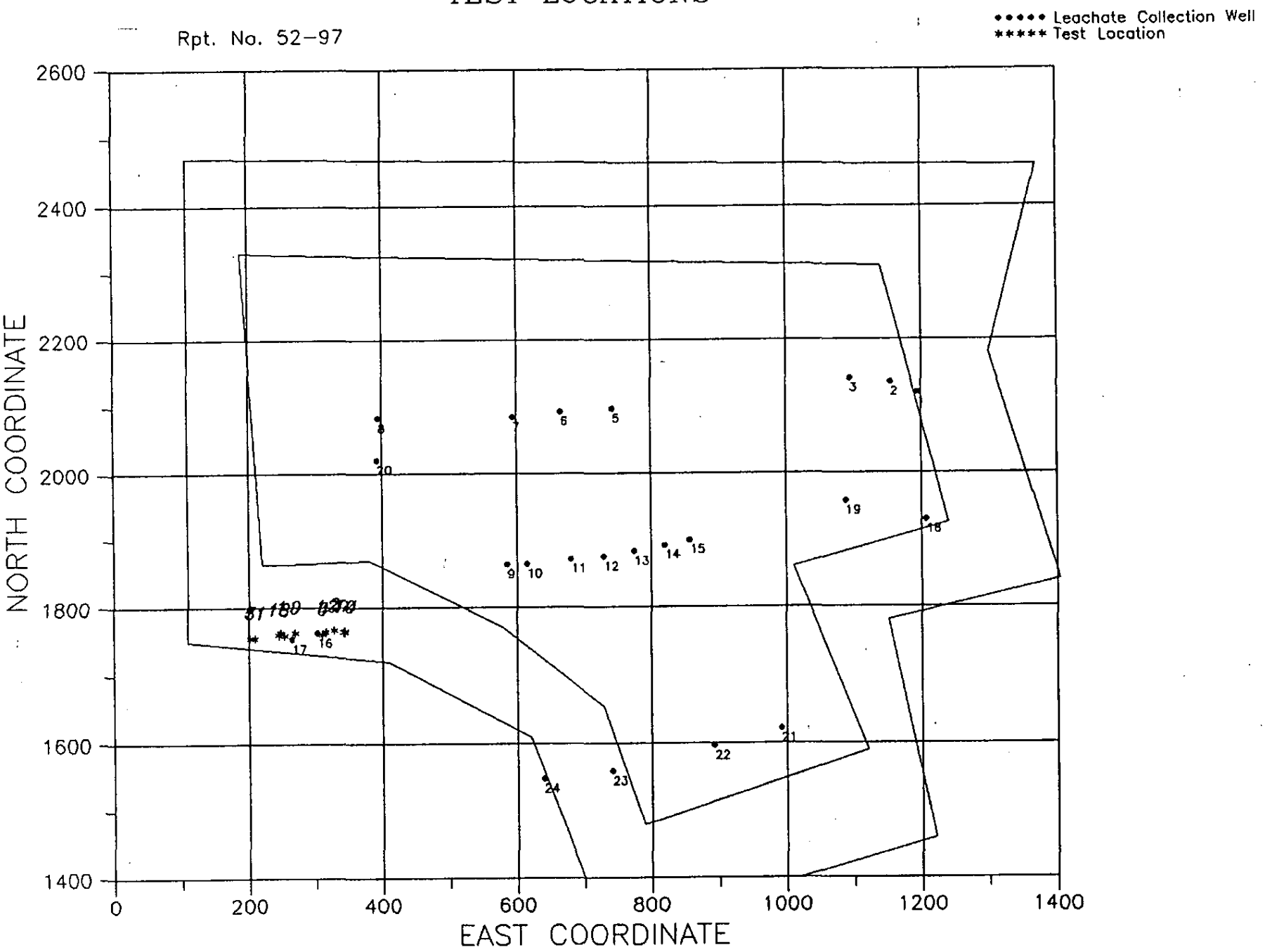
Sussex continued placing clay on liner on south side of 717B. Stripped topsoil in Western Tract.

INSPECTOR Steven D Wintheiser ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-97



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.: 52-97 (page 2 of 2)

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens(pcf)	% Proctor	P/F
1	1763	248	82.51	22.6	103.2	94.6	P
2	1767	329	82.96	22.8	102.5	94.0	P
3	1755	202	-	23.3	97.9	89.1	F
4	1760	311	-	24.3	93.6	84.9	F
5	1755	202	82.83	22.6	102.8	94.3	P
6	1760	311	83.80	22.8	100.1	91.9	P
7	1765	345	85.49	19.5	101.1	92.8	P
8	1759	254	84.23	20.9	99.7	91.5	P
9	1763	270	85.32	22.7	99.9	91.6	P
10	1764	343	86.35	22.3	98.1	90.0	P
11	1755	209	84.47	21.3	103.8	95.2	P
12	1764	316	87.03	23.0	99.6	91.4	P
13	1760	245	86.22	22.1	102.9	94.3	P
14	1764	345	88.19	22.1	100.4	92.1	P

LABORATORY DATA

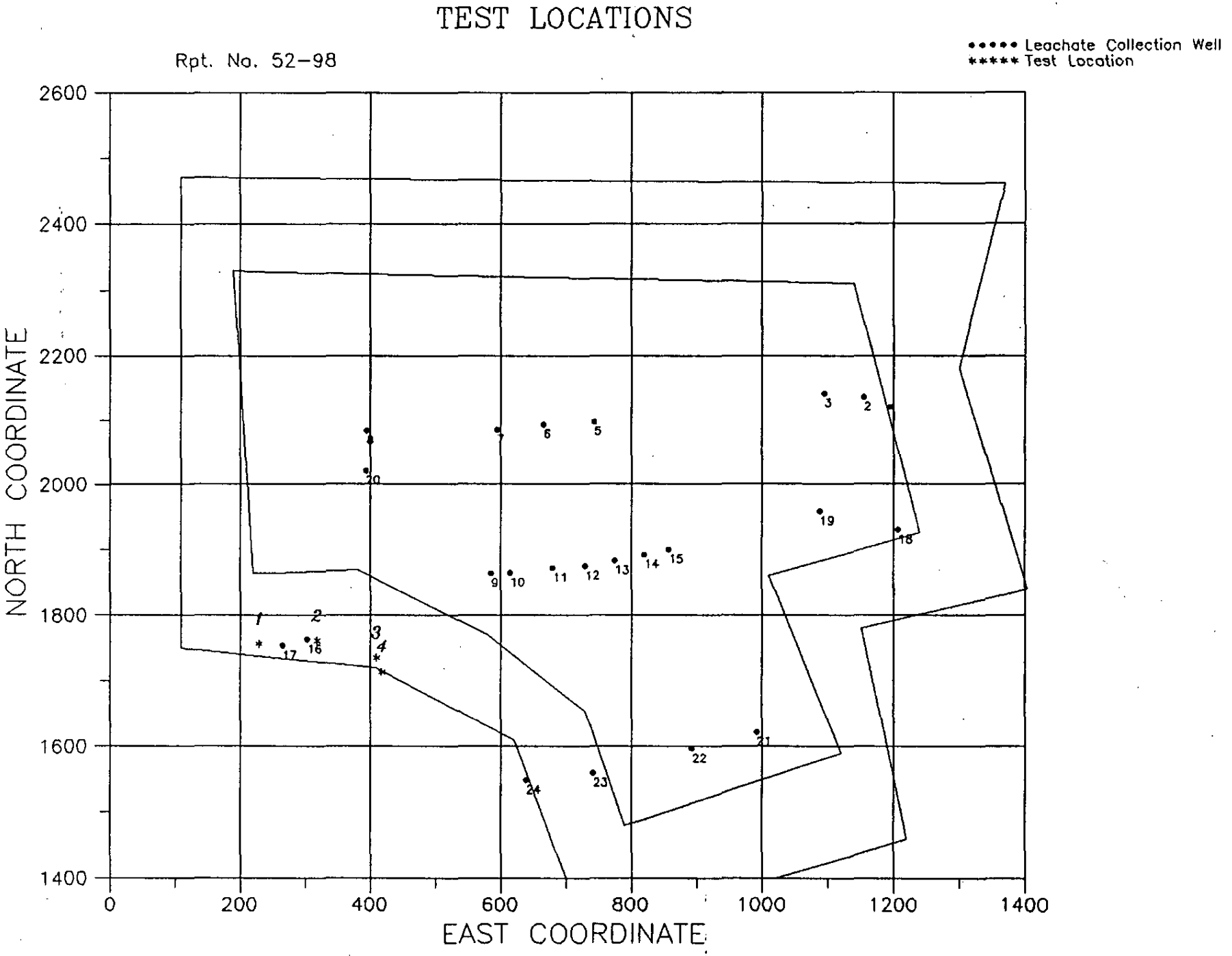
Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
5	51/35	4.0×10^{-10}	20.1	107.4	-

INSPECTOR Steven D. Winthuisen ENGINEER [signature]

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-98



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-98	DATE:	7/12/88
PROJECT:	717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 95	EQUIPMENT:	D-6 Dozer, DJB's, Compacter

ACTIVITIES SUMMARY

07:00 I arrive on site.
08:45 D-6 Dozer is clearing loose fill from west of LD-3.
09:20 Test (#3) on base grade west of LD-3 passed along w/ 2 tests (# 1&2) on 16th lift.
09:35 D-6 is pushing undocumented clay cap from south side of 717B placing 1st lift on base grade west of LD-3. D-6 exposing remaining clay liner on eastern most portion of 717B south slope.
12:00 - 12:30 Lunch.
12:35 Compactor rolling 1st lift west of LD-3.
13:45 Test (#4) on 1st lift west of LD-3 passed.
13:50 DJB's & D-6 placing 17th lift on south side of 717B.
15:00 DJB's & D-6 plcing 2nd lift west of LD-3.
16:30 Sussex finished for the day.
16:45 I left site.

Sussex placed clay liner on south side of 717B and base west of LD-3.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens(pcf)	% Proctor	P/F
1	1756	229	87.05	22.5	101.5	93.1	P
2	1761	318	89.00	22.6	102.5	94.1	P
3	1735	410	83.75	23.4	104.8	96.2	P
4	1714	418	83.74	23.8	99.7	91.5	P

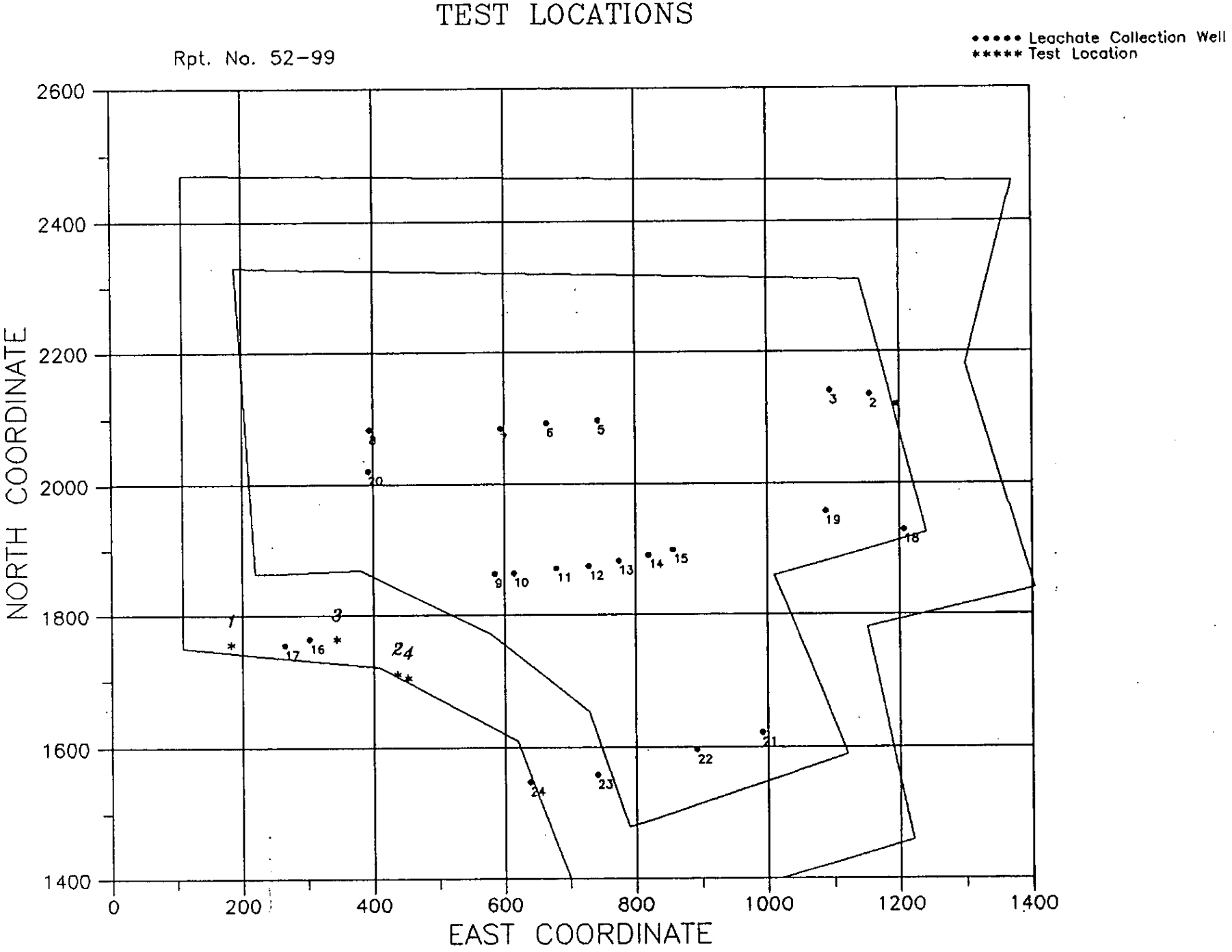
LABORATORY DATA - None

INSPECTOR Steven D Wintheiser ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-99



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-99	DATE:	7/13/88
PROJECT:	717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 90	EQUIPMENT:	235 Backhoe & Shovel, D-6 Dozer, Compactor, 3 DJB's

ACTIVITIES SUMMARY

08:00 I arrived on site.
08:50 Two tests (# 1&3) on 17th lift of clay liner on south side of 717B passed.
09:15 D-6 Dozer pushing undocumented clay cap from south slope of 717B-placing 3rd lift west of LD-3.
12:00 - 12:30 Lunch
12:45 D-6 placing 3rd lift south & west of LD-3
13:20 235 Backhoe is removing fill from between 717B clay liner levee & Cell 901 and placing it on Cell 717B side of liner levee. This material was stockpiled while exposing 717B liner.
14:50 Test (#4) on 3rd lift passed. Took Att & MC sample (T.P.4).
16:20 Sussex done for the day.
17:00 I left site.

Sussex placed clay south & west of LD-3 and excavated fill between 717B & 901.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens(pcf)	% Proctor	P/F
1	1755	183	86.50	19.1	102.3	93.9	P
2	1710	437	84.10	19.1	105.5	96.8	P
3	1763	345	89.92	16.6	102.3	93.9	P
4	1704	453	84.52	21.6	100.1	91.5	P

LABORATORY DATA

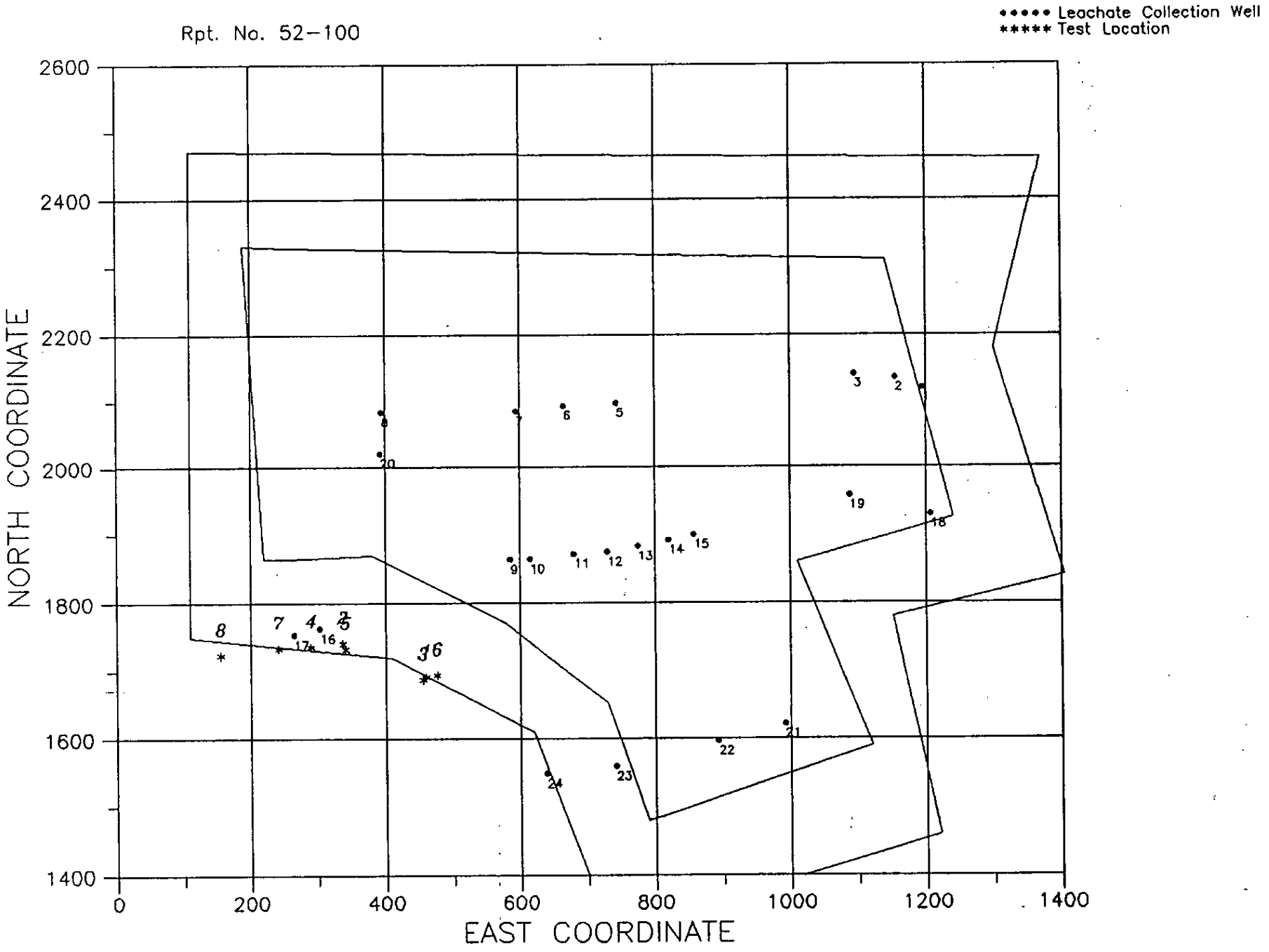
Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
4	50/33	--	19.1	--	--

INSPECTOR Stuart Wintheiser ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-100



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-100	DATE:	7/14/88
PROJECT:	717 Clay Cap	WLFE REP:	K. Lowery
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 90	EQUIPMENT:	235 Backhoe, 225 Shovel, D-6 Dozer, Vibratory Roller, 3 DJB's

ACTIVITIES SUMMARY

07:15 I arrived on site. 235 Backhoe is removing fill from between 717B clay liner levee & Cell 901 and placing it on Cell 717B side of liner levee. D-6 Dozer is pushing clay from the DJB's on the 4th lift west of LD-3.
08:30 Test #1 on 4th lift passed.
09:00 Sussex has finished removing the fill between the two cells.
09:45 Test #2 on base grade between the two cells passed.
10:30 Test #3 on 5th lift west of LD-3 passed.
11:15 Test #4 on 1st lift between the two cells passed.
13:15 Test #5 on 2nd lift between the two cells passed.
14:15 Test #6 on 6th lift west of LD-3 passed.
15:00 Test #7 on 3rd lift between the two cells passed.
16:30 Test #8 on 4th lift between the two cells passed. Sample was taken for MC & Att. at T.P. 8.
17:00 I left site.

Sussex placed 3 lifts of clay west of LD-3 and 4 lifts of clay between Cell 717B & Cell 901.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens(pcf)	% Proctor	P/F
1	1692	459	84.88	22.5	101.7	93.3	P
2	1741	337	81.97	21.3	103.6	95.1	P
3	1688	455	85.91	22.6	100.5	92.2	P
4	1736	290	81.86	22.1	100.9	92.6	P
5	1733	341	83.85	20.8	99.3	91.1	P
6	1695	476	85.95	22.4	101.4	93.0	P
7	1734	242	84.79	22.2	99.0	90.8	P
8	1724	155	95.76	22.2	102.6	94.1	P

LABORATORY DATA - None

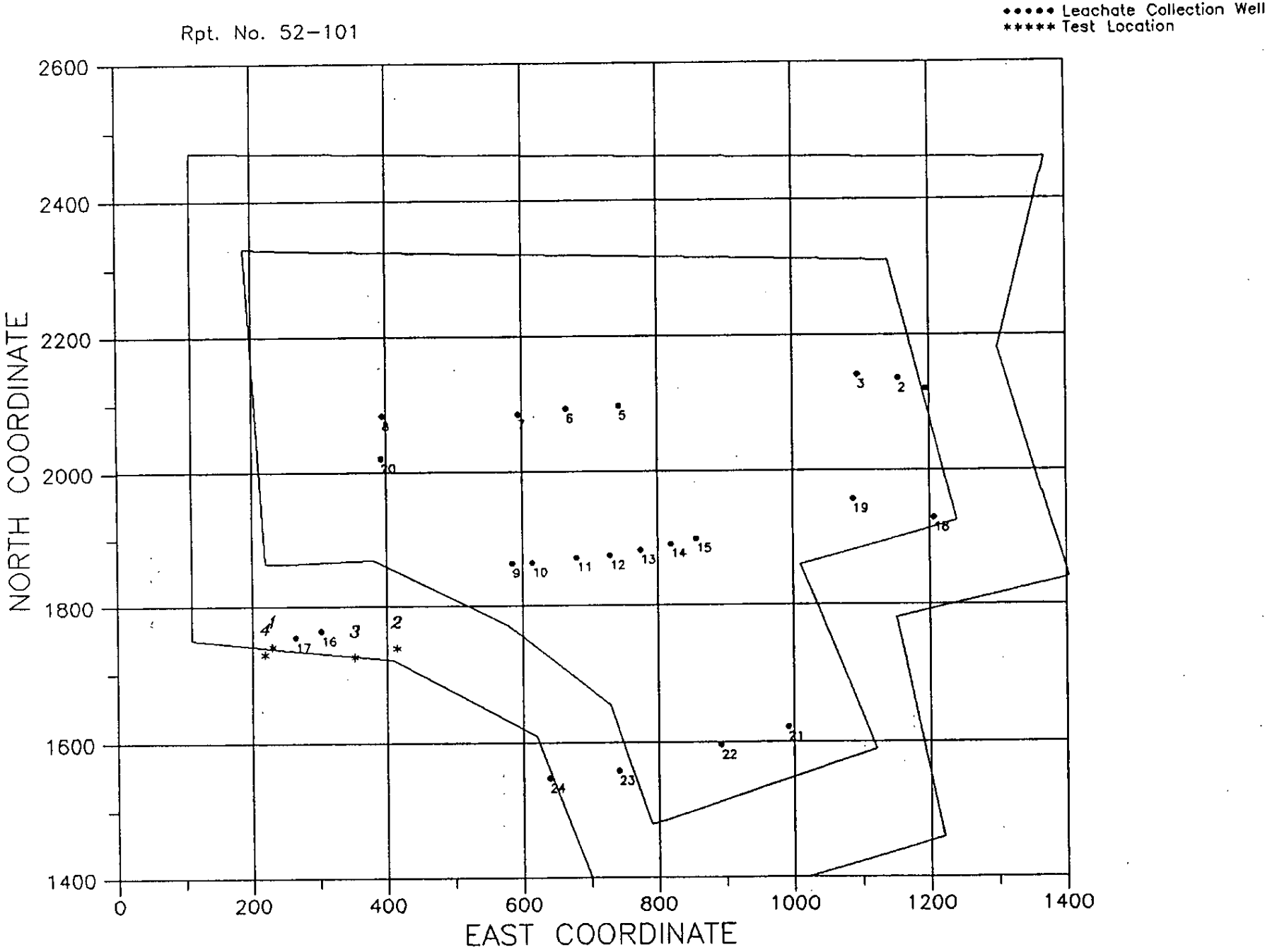
Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
8	53/36	--	19.9	--	--

INSPECTOR Kirk Lowery/KL ENGINEER Jack Ceccarelli

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-101



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-101	DATE:	7/15/88
PROJECT:	717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 90	EQUIPMENT:	D-6 Dozer, 3 DJB's, 235 Shovel

ACTIVITIES SUMMARY

07:00 I arrived on site.
07:10 D-6 Dozer & 3 DJB's placing 5th lift between Cells 901 & 717B.
08:05 Test (#1) on west half of 5th lift passed.
08:50 Sussex placing 6th lift.
09:20 Test (#2) on east half of 5th lift passed.
12:00 - 12:30 Lunch.
12:30 Started raining.
14:20 D-6 Dozer dressing-up south slope of 717B.
15:15 2 tests (# 3&4) on 6th lift passed.
16:20 Sussex done.
17:00 I left site.

Sussex placed 2 lifts between Cells 901 & 717B.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens(pcf)	% Proctor	P/F
1	1740	230	86.50	24.0	99.7	91.4	P
2	1738	415	87.19	23.0	98.4	90.3	P
3	1725	353	87.74	23.8	99.1	90.9	P
4	1729	219	87.35	21.2	103.6	95.1	P

LABORATORY DATA - None

INSPECTOR Stewart Wintheiser ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-102	DATE:	8/17/88
PROJECT:	717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	88B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy	EQUIPMENT:	235 Backhoe, D-6 Dozer, Vibratory Roller, 4 DJB's

ACTIVITIES SUMMARY

07:00 Sussex begins to spread material that had been placed on west and south slope of 717D.
07:30 Sussex continues to place fill on 717D. Sussex rolls this material in as it is being spread.
09:30 Sussex stops hauling as it looks as if it is going to rain any minute.
09:45 Begins to drizzle.
10:00 Begins to rain hard. Sussex ceases work.

FIELD DATA - None

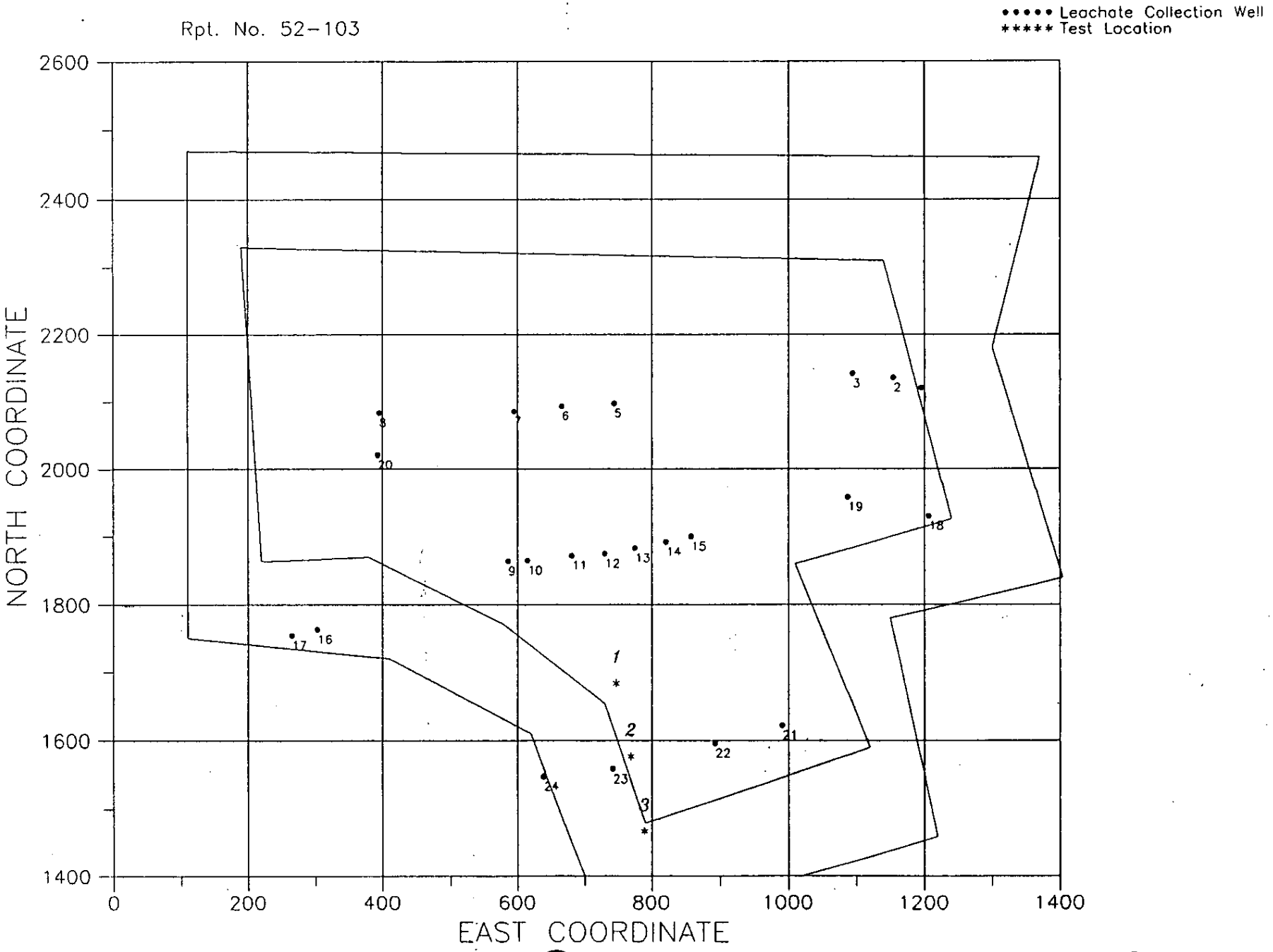
LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Jack

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-103



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-103	DATE:	8/18/88
PROJECT:	717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 90	EQUIPMENT:	Vibratory Roller, 235 Backhoe, DJB's

ACTIVITIES SUMMARY

07:00 I arrive on site. Sussex continues to dump and place a lift on the south and east slopes of 717D.
10:30 It begins to rain. Sussex continues to haul.
11:00 Stops raining. Sussex continues to place lift on south and east slopes.
13:00 Sussex begins compacting west slope.
14:30 I take tests 1, 2 & 3 on west slope of 717D.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pfc)	% Proctor	P/F
1	1684	747	115.1	23.7	100.1	91.8	P
2	1577	769	113.2	24.7	98.5	90.3	P
3	1468	789	110.8	24.5	100.7	92.4	P

LABORATORY DATA - None performed

INSPECTOR Thomas A. Vrenick ENGINEER _____

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-104	DATE:	8/19/88
PROJECT:	717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, rain, 80	EQUIPMENT:	235 Shovel, 3 DJB's, D-6 Dozer

ACTIVITIES SUMMARY

07:00 I arrive on site. Sussex decides to haul to 717D. Due to rain last night, they just stockpile this material along the top of the west slope of 717D.
10:30 Begins to rain. Sussex can no longer haul due to wet conditions in borrow area.
13:00 Sussex decides to wait till Monday to possibly haul more to 717.

Stockpile clay cap on 717D.

FIELD DATA - None

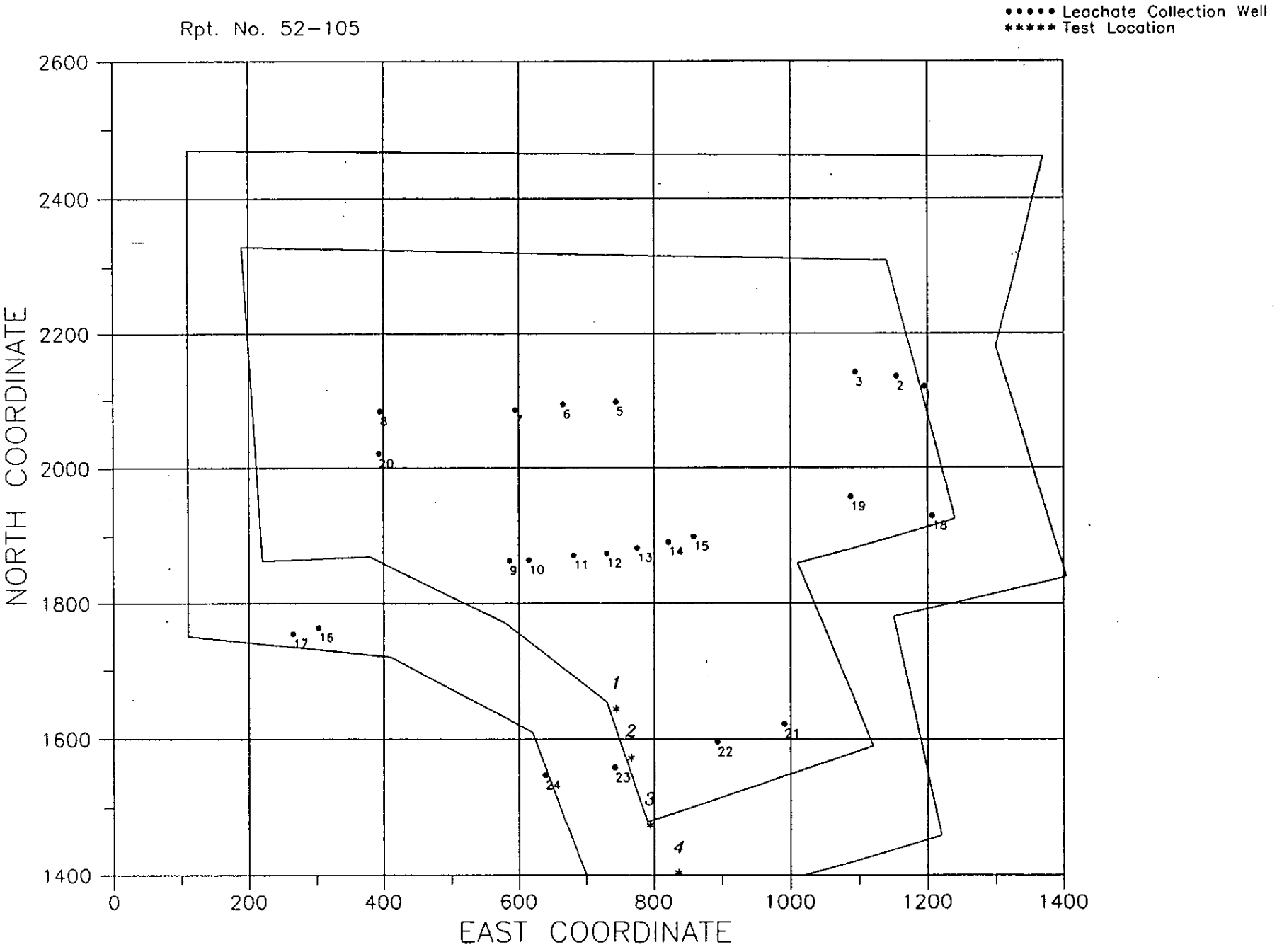
LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-105



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-105	DATE:	8/30/88
PROJECT:	717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear - Partly Cloudy 70's-80's	EQUIPMENT:	235 Shovel, 4-DJB's, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site. Sussex is hauling to 717D. They are placing lift on east side of 717D.
08:00 They begin to place lift on west slope of 717D with material that had been stockpiled previously.
10:00 Sussex continues to dump on 717D.
12:00 Lunch.
12:30 Sussex continues to dump on 717D. They move to east slope and begin dumping there.
14:00 I take tests 1-4 on west slope.
16:30 I leave site.

Sussex places lifts on 717D.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1644	744	109.9	23.3	101.5	93.1	P
2	1573	766	110.2	23.1	102.1	93.6	P
3	1475	794	110.3	22.5	98.2	90.1	P
4	1404	836	107.6	23.4	100.0	91.7	P

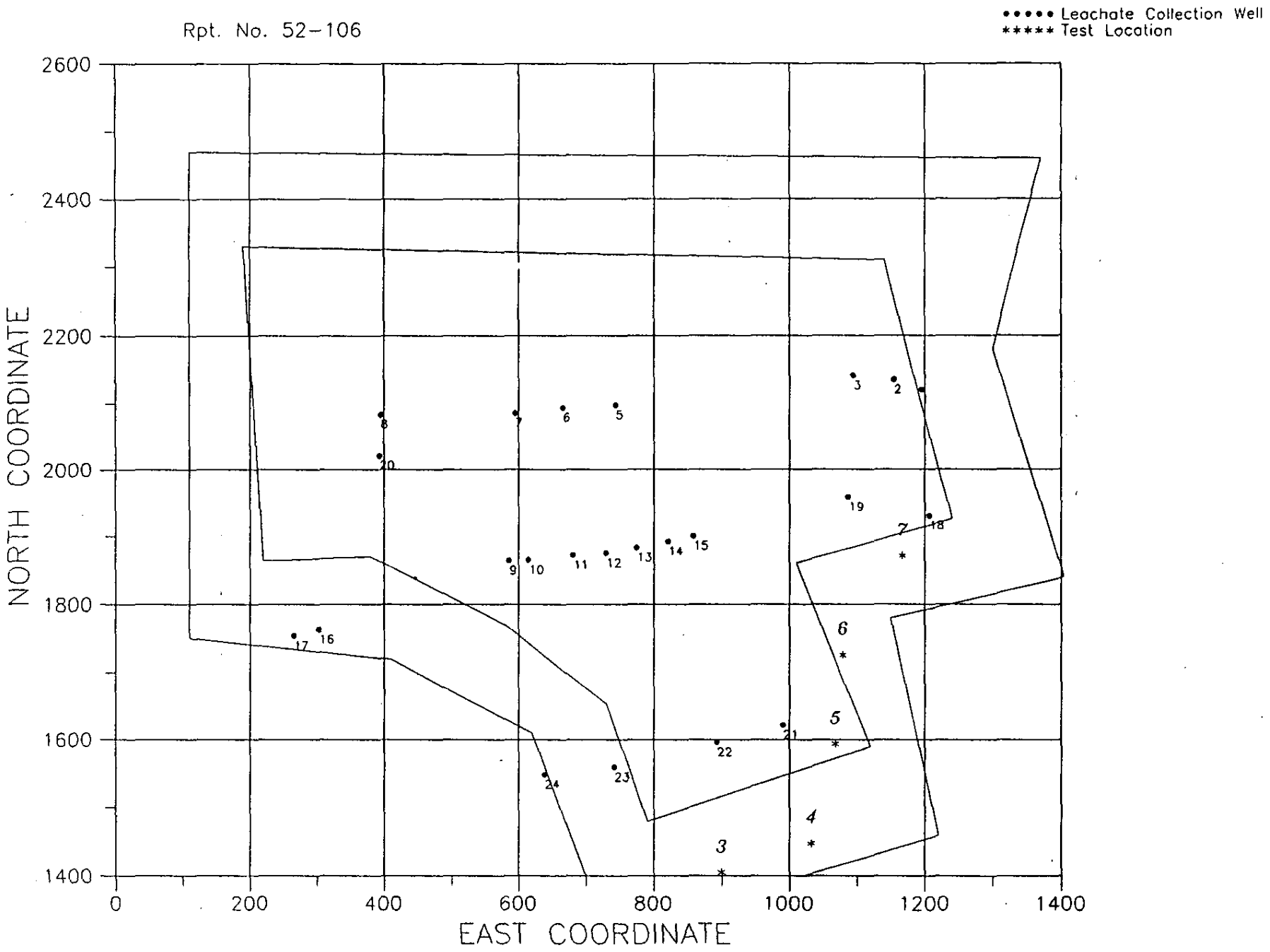
LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-106



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-106	DATE:	8/31/88
PROJECT:	717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy	EQUIPMENT:	Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrived on site.
07:40 Roller is compacting east slope of 717D.
09:15 Two tests (1&2) on west slope failed (high moisture). Two tests (3&4) on south slope of 717D, two (5&6) on east slope of 717D and one (#7) on south slope of 717C all passed.
10:20 Dozer is discing west slope.
12:00 Lunch.
13:30 Sussex rolling west slope.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	-	-	-	25.7	85.1	78.1	F
2	-	-	-	28.0	82.3	75.5	F
3	1405	900	102.8	21.0	104.9	96.2	P
4	1448	1032	102.3	20.2	105.7	97.0	P
5	1594	1068	103.7	21.1	103.5	94.9	P
6	1726	1079	104.0	23.6	99.9	91.7	P
7	1871	1167	104.7	24.3	98.7	90.5	P

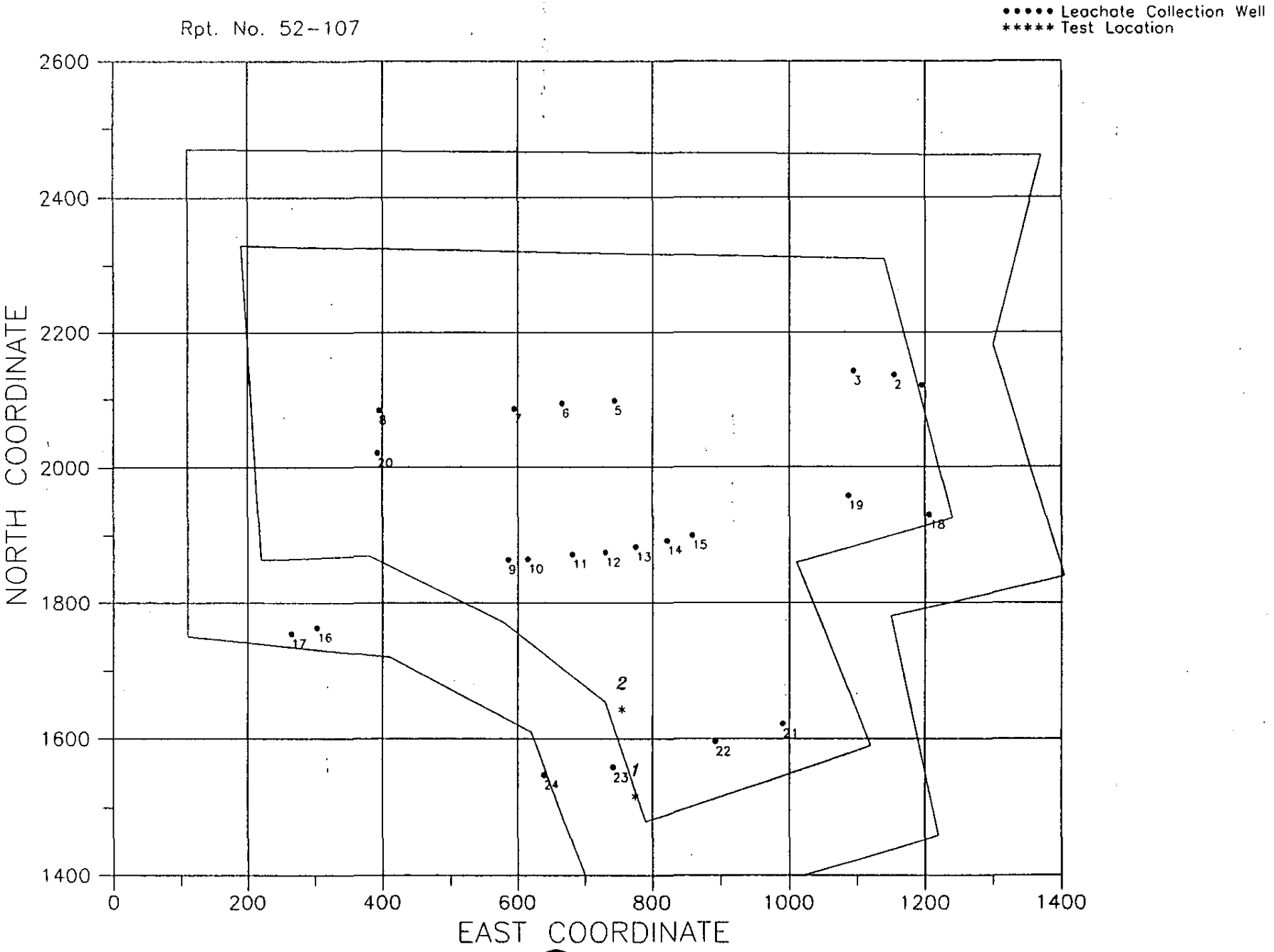
LABORATORY DATA - None

INSPECTOR Steven D Wintheiser ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-107



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-107	DATE:	9/1/88
PROJECT:	717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 80's	EQUIPMENT:	NA

ACTIVITIES SUMMARY

16:00 Two tests on west slope of 717D (which failed yesterday due to high moisture) passed after being disced and re-rolled.

Two tests on west slope passed.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1517	775	113.1	22.0	103.9	95.3	P
2	1643	755	110.6	24.6	101.2	92.8	P

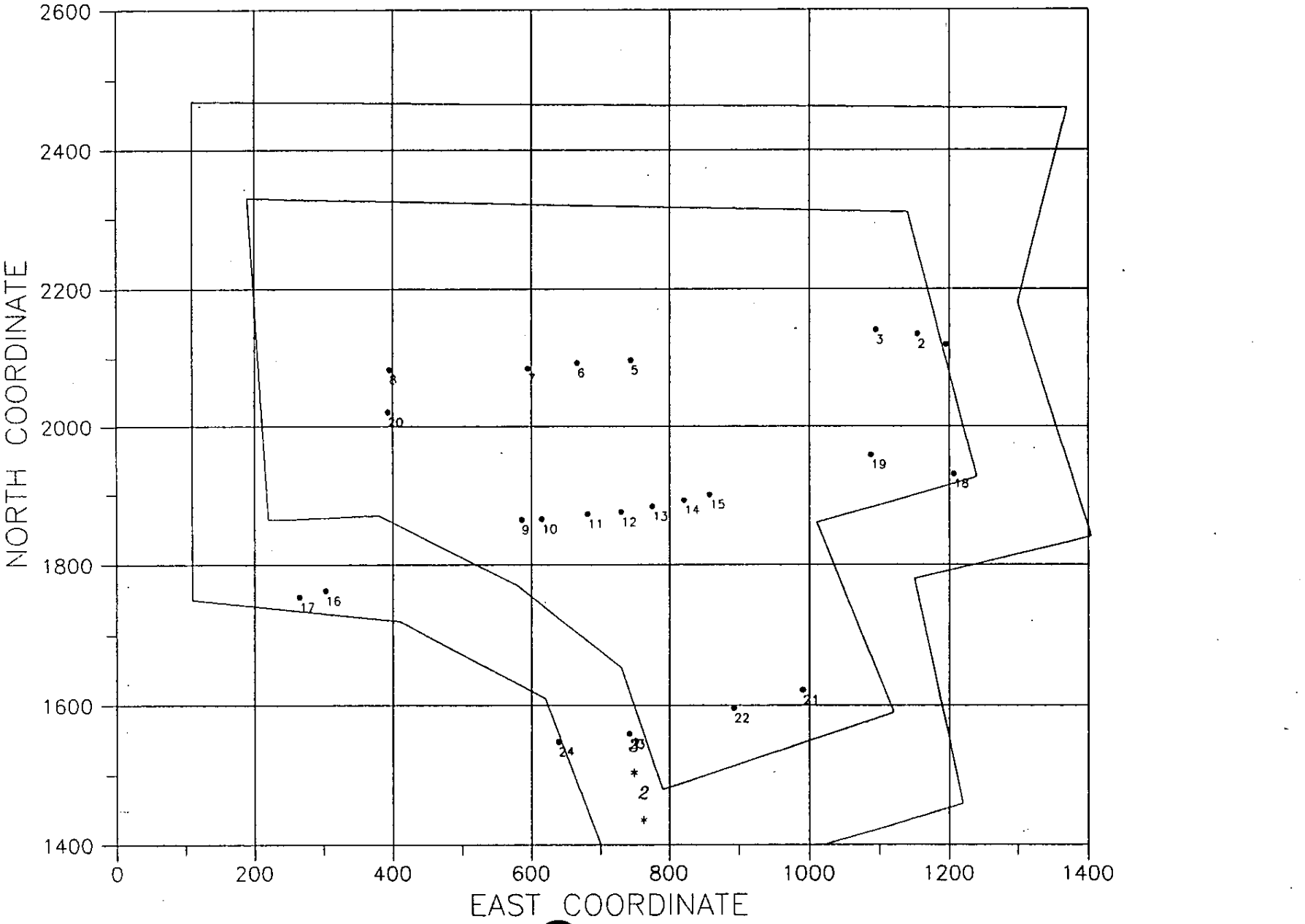
LABORATORY DATA - None

INSPECTOR Steven D Wintheiser ENGINEER Jack C Lee

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-108



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-108	DATE:	9/27/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	M. Caldwell
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Warm and Sunny	EQUIPMENT:	-

ACTIVITIES SUMMARY

07:30 Arrive on site. Sussex scraping grass off of west slope Cell 717. Preparing for lift. Also placing clay on southern portion of Cell cap.
09:00 Begin placing clay on west slope of 717 D.
11:30 Lunch.
16:00 Test densities west slope. Passed.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1504	749	101.5	24.6	96.9	88.9	F
2	1436	763	100.6	24.0	101.4	93.0	P
3	Retest #1		101.5	23.3	101.6	93.2	P

LABORATORY DATA - None

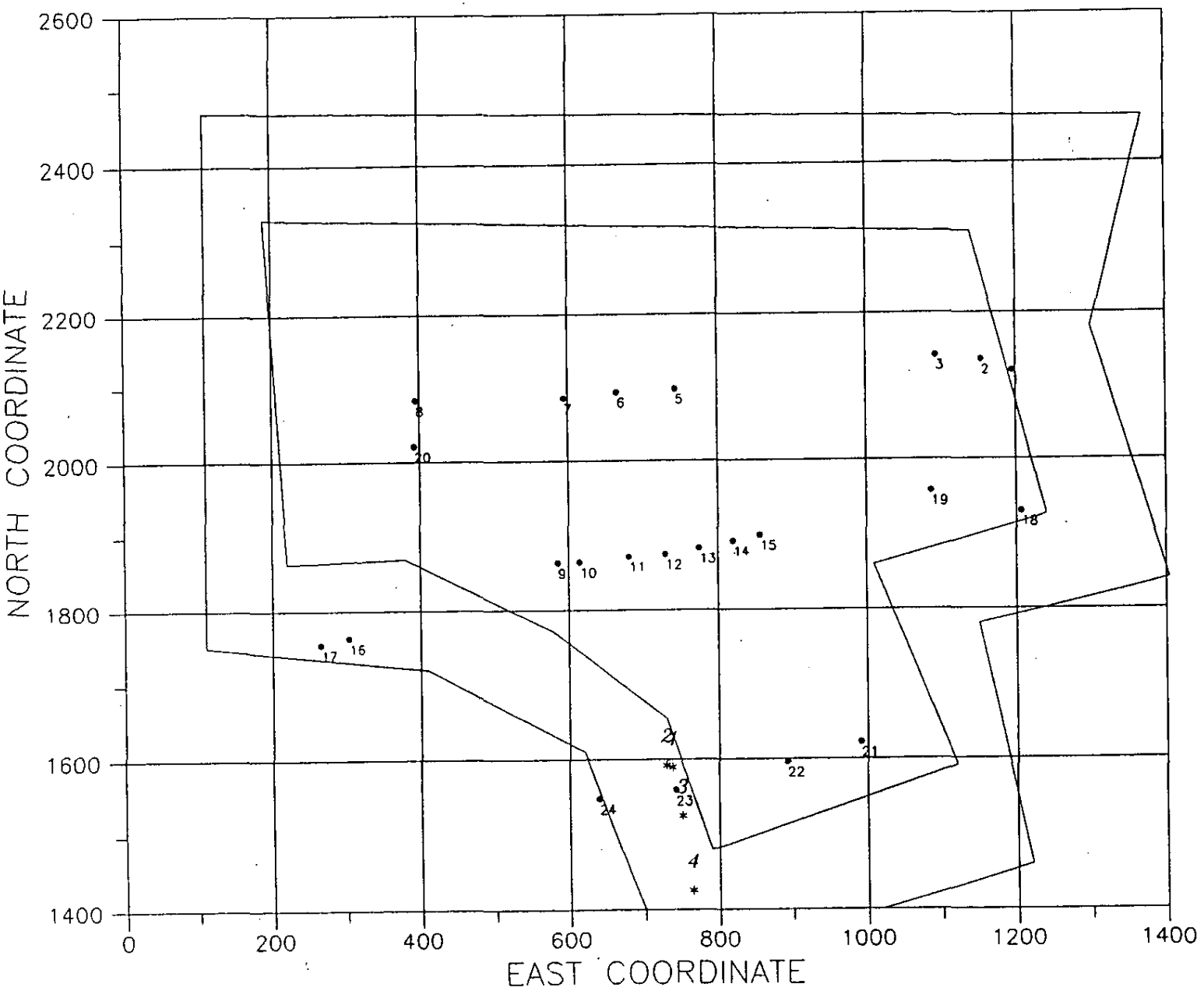
INSPECTOR Michael Caldwell ENGINEER Jack Ware

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-109

●●●●● Leachate Collection Well
✱✱✱✱✱ Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-109	DATE:	9/28/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 70's-80's	EQUIPMENT:	235 Shovel, 235 Backhoe, 5 DJB's, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site. Sussex continues to place lift on west slope of 717D.
09:00 Take tests 1 & 2 on north end of west slope. Sussex is stockpiling material at top of slope and when area is approved they placed lift on slope.
11:00 Sussex compacting lift on south end of west slope.
12:00 Lunch.
12:45 Take tests 3 & 4 on south end of west slope. They begin placing lift there.
17:15 They complete work for day. Have completed lift on south end and will begin rolling in morning.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1589	738	107.4	22.3	100.8	92.5	P
2	1592	730	102.9	22.7	101.2	92.9	P
3	1525	751	105.6	25.7	99.0	90.8	P
4	1426	764	103.2	25.9	98.7	90.6	P

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-110 (page 1 of 2)	DATE:	9/29/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 70's-80's	EQUIPMENT:	235 Shovel, 235 Backhoe, 4 DJB's, D-6 Dozer, Disc, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site. Sussex continues to place material on west slope of 717D.
07:40 Take tests 1 & 2 on north end of this slope. Sussex is rolling lift placed on south end. After tests they begin placing a lift on north end.
10:30 Take tests 3 & 4 on south end. Do not meet specs. Mr. Brister is gone to union meeting so no action taken to dry it out.
12:00 Lunch
14:00 Sussex begins discing the area of T.P. 3 and 4 to attempt to dry it out. They also begin compacting lift placed on north end of west slope. Take tests 5 and 6.
16:00 Test area south of LC-21 and 22 (7-10). Sussex begins to stockpile material there.
17:15 Sussex quits for day.
17:35 I leave for day.

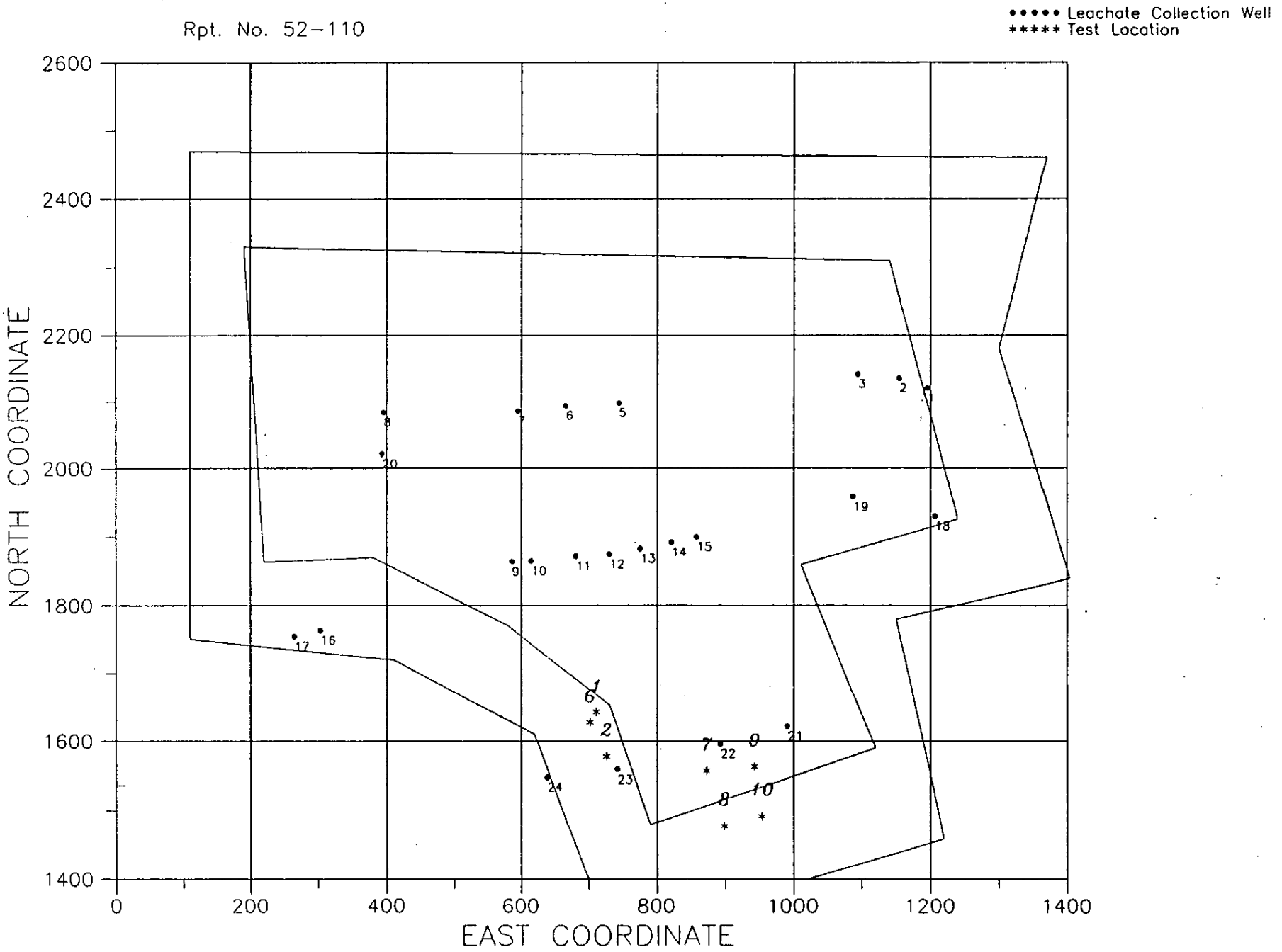
Sussex places lift on 717D.

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-110



DAILY FIELD REPORT
(continued)

Report No. 52-110 (page 2 of 2)

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1643	711	103.4	23.5	100.4	92.1	P
2	1578	726	101.2	24.7	99.5	91.2	P
3	west slope			24.8	97.4	89.4	F
4	west slope			24.7	97.2	89.2	F
5	west slope			25.2	95.9	88.0	F
6	1628	702	99.7	22.7	100.3	92.0	P
7	1557	873	117.2	22.8	101.5	93.1	P
8	1478	899	113.7	21.9	102.7	94.2	P
9	1563	943	117.9	23.3	100.9	92.6	P
10	1492	954	113.4	20.5	105.1	96.4	P

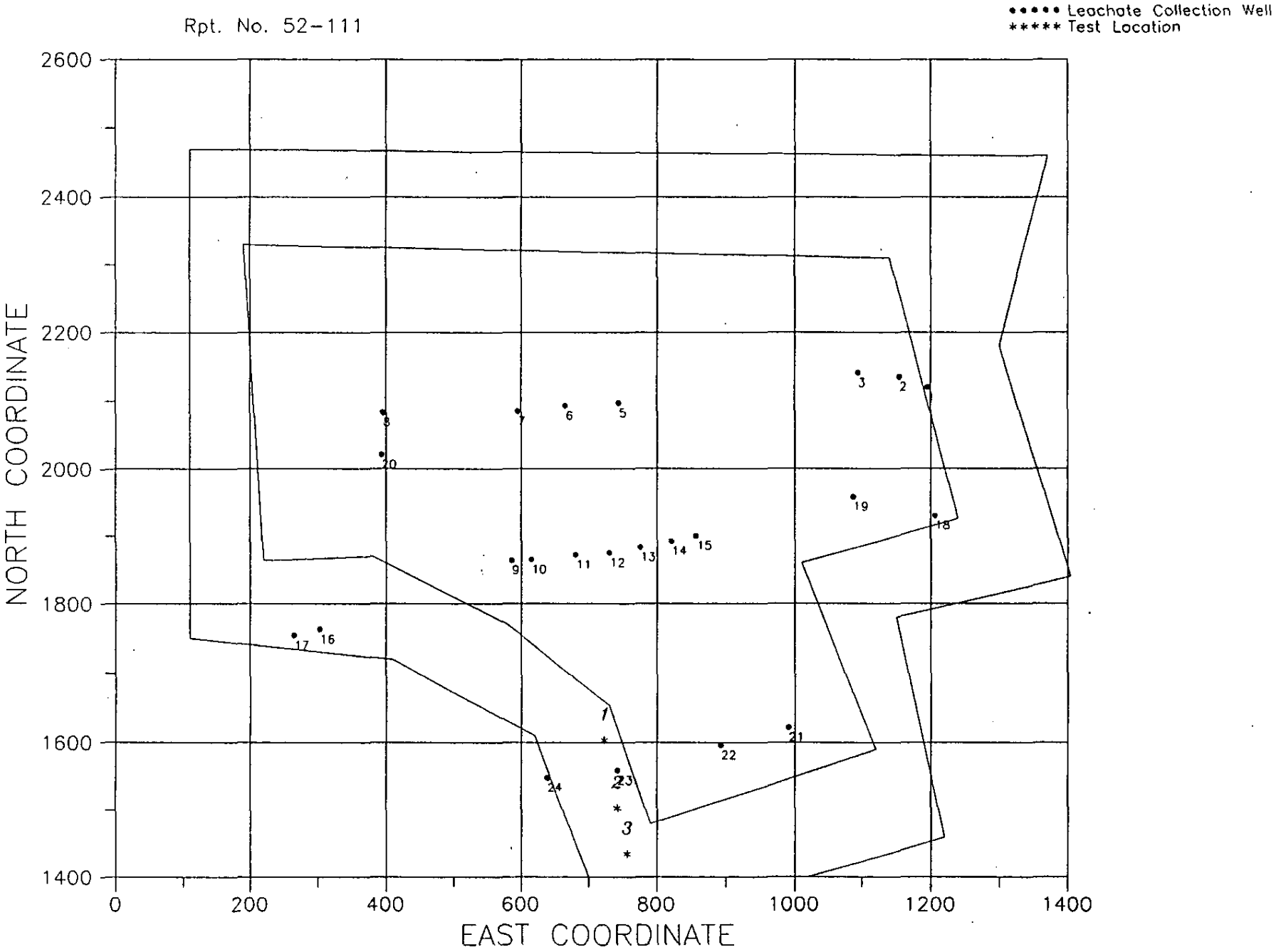
LABORATORY DATA - None

INSPECTOR Thomas A. Vreeke ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-111



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-111	DATE:	9/30/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 70's-80's	EQUIPMENT:	D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site. Take tests 1 - 3 on west slope of 717D.
07:30 Sussex begins placing lift on area tested with material stockpiled yesterday afternoon.
10:00 Continue to place lift on west slope 717D.
12:00 Lunch.
12:30 Continue to place lift on west slope 717D with stockpiled material.
13:30 Begins to rain. Stand by to see what Sussex plans to do today and tomorrow.
15:30 Mr. Brister decides it is too wet. Sussex will not work tomorrow.

Place lift on west slope 717D.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1603	723	103.3	23.5	100.7	92.4	P
2	1503	742	102.3	23.7	98.9	90.8	P
3	1435	756	101.4	22.4	99.8	91.5	P

LABORATORY DATA - None

INSPECTOR Thomas P. Vrenick ENGINEER Jack Cobb

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-112	DATE:	10/3/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 60'-70's	EQUIPMENT:	D-6 Dozer

ACTIVITIES SUMMARY

07:00 I arrive on site. West slope of 717D is very wet. Sussex is unable to work on this area. They attempt to dry this area using the dozer.

09:00 They continue to work the west slope of 717D and south slope of 717B to be able to haul tomorrow. They also begin stockpiling topsoil on capped area of 717C. They do not plan on any other activities on Cell 717 today.

FIELD DATA - None

LABORATORY DATA - None

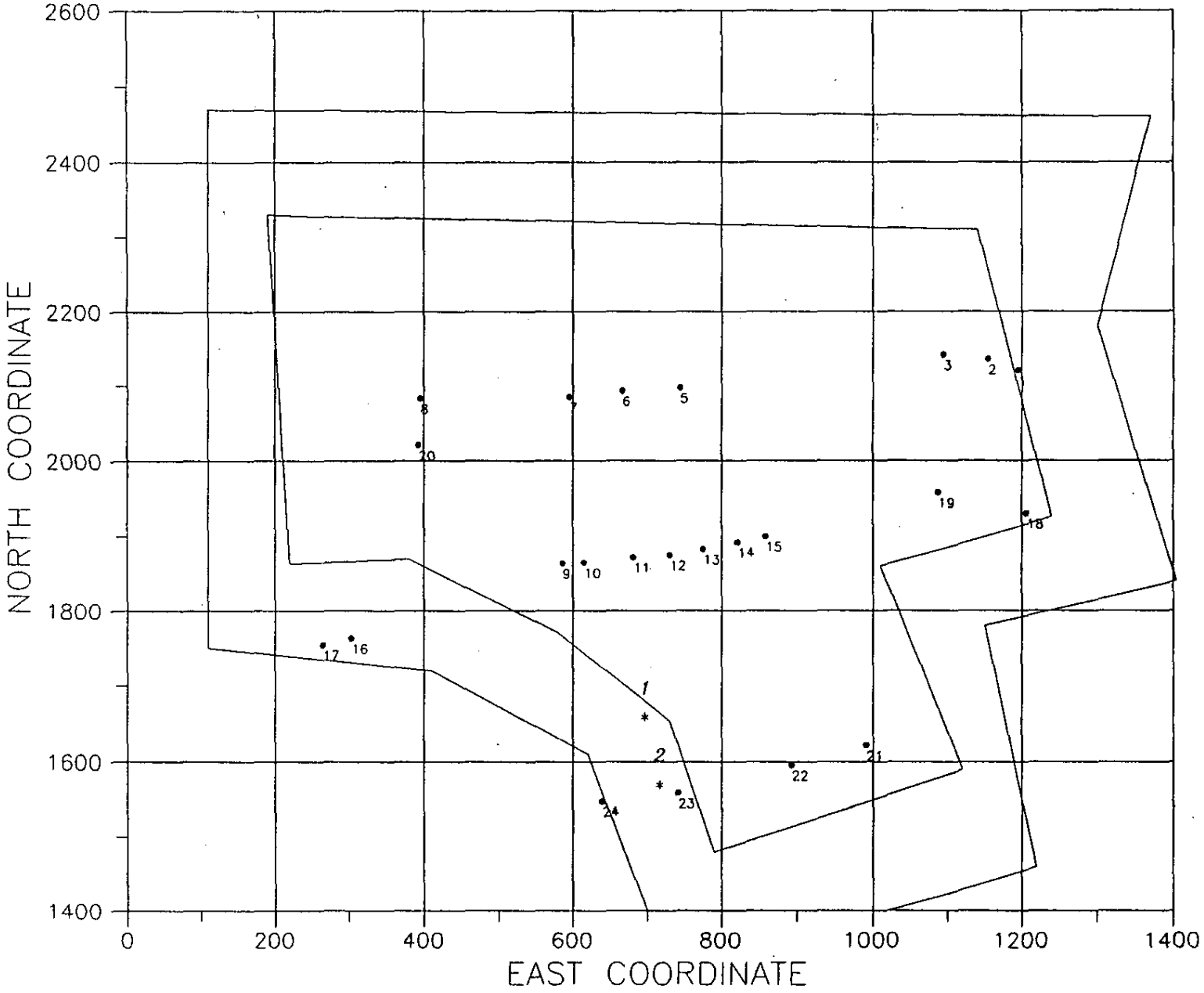
INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-113

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-113	DATE:	10/4/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 60's-70's	EQUIPMENT:	235 Shovel, 2 D-6 Dozers, John Deere Tractor with Sheepsfoot roller, Vibratory Roller, 3 DJB's

ACTIVITIES SUMMARY

07:00 I arrive on site. Sussex plans to place lift on south slope of 717D. They blade thin layer of dry material from surface of this slope and begin placing lift.
07:30 They begin rolling north end of west slope. They also continue to work south end of west slope to dry it out.
10:30 Take tests 1 & 2 on north end of west slope.
12:00 Lunch.
12:30 Finish lift on south slope of 717D and begin lift on area south of LD-21 and LD-22.
13:00 Sussex discs south end of west slope. They also begin to roll south slope.
16:30 Complete lift on area south of LC-21 and 22. They begin to roll this lift. They begin lift on north end of west slope.
17:00 They continue with lift on west slope of 717D. I leave site.

Place lifts on 717D cap.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1659	697	102.8	22.1	102.2	93.7	P
2	1570	717	101.8	23.5	101.0	92.6	P

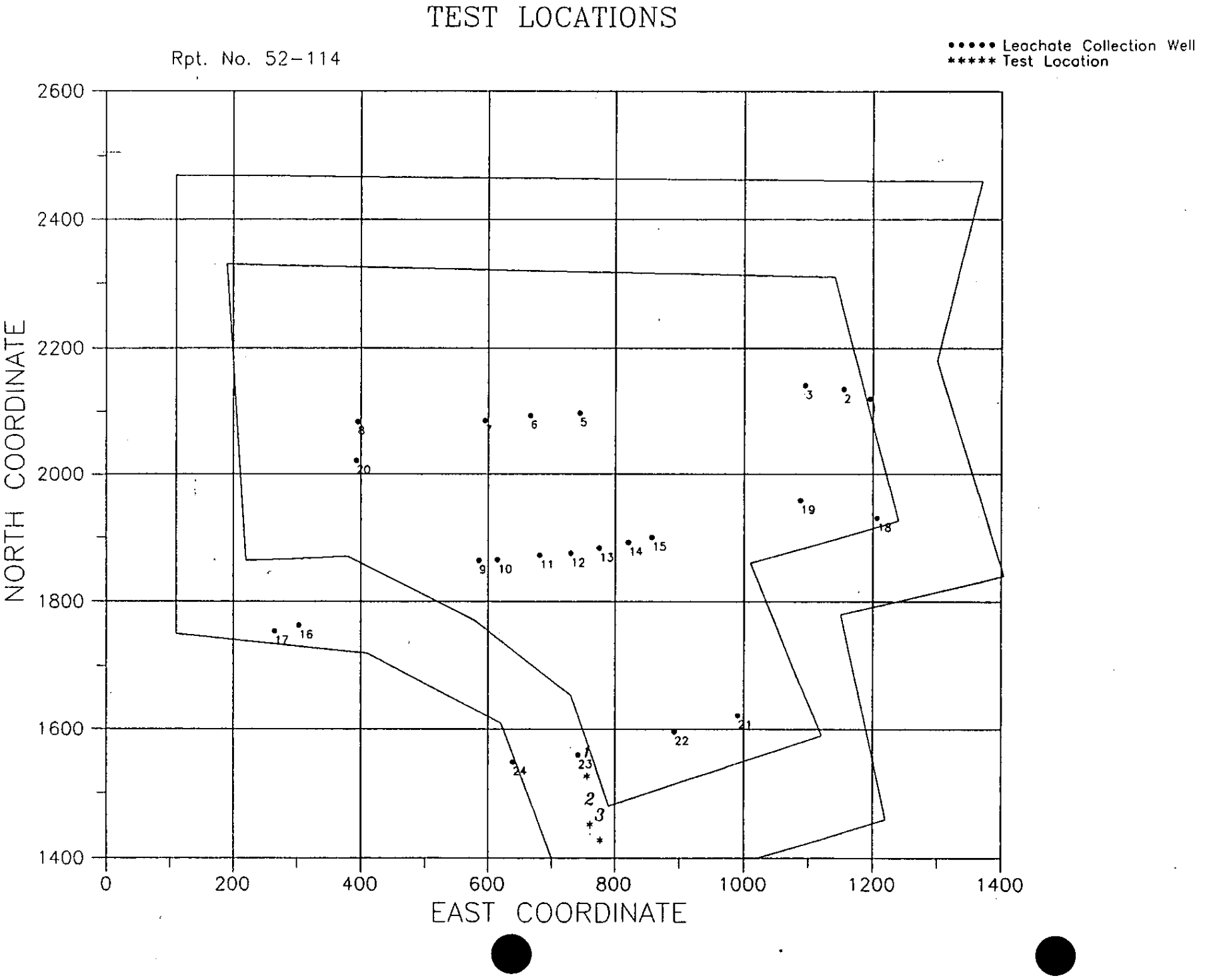
LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-114



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-114	DATE:	10/5/88
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 50's-70's	EQUIPMENT:	235 Shovel, 4-DJB's, D-6 Dozer, John Deere Tractor, Sheepsfoot Roller, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:30 Sussex begins placing lift in low area just to south of access road. They also start rolling lift south of LC-21 and 22.
10:15 Sussex completes lift and starts lift on north end of west slope of 717D.
12:00 Lunch.
13:00 Sussex finishes stripping vegetation from south slope of 717D as it joins 717B. Brown and Butler then cross section this area and Sussex begins placing lift there.
17:15 Sussex quits for day and will continue with lift in this area.
17:30 I leave site.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1526	756	106.8	22.8	102.1	93.7	P
2	1452	761	103.8	19.7	104.6	96.0	P
3	1428	777	106.3	19.6	105.0	96.3	P

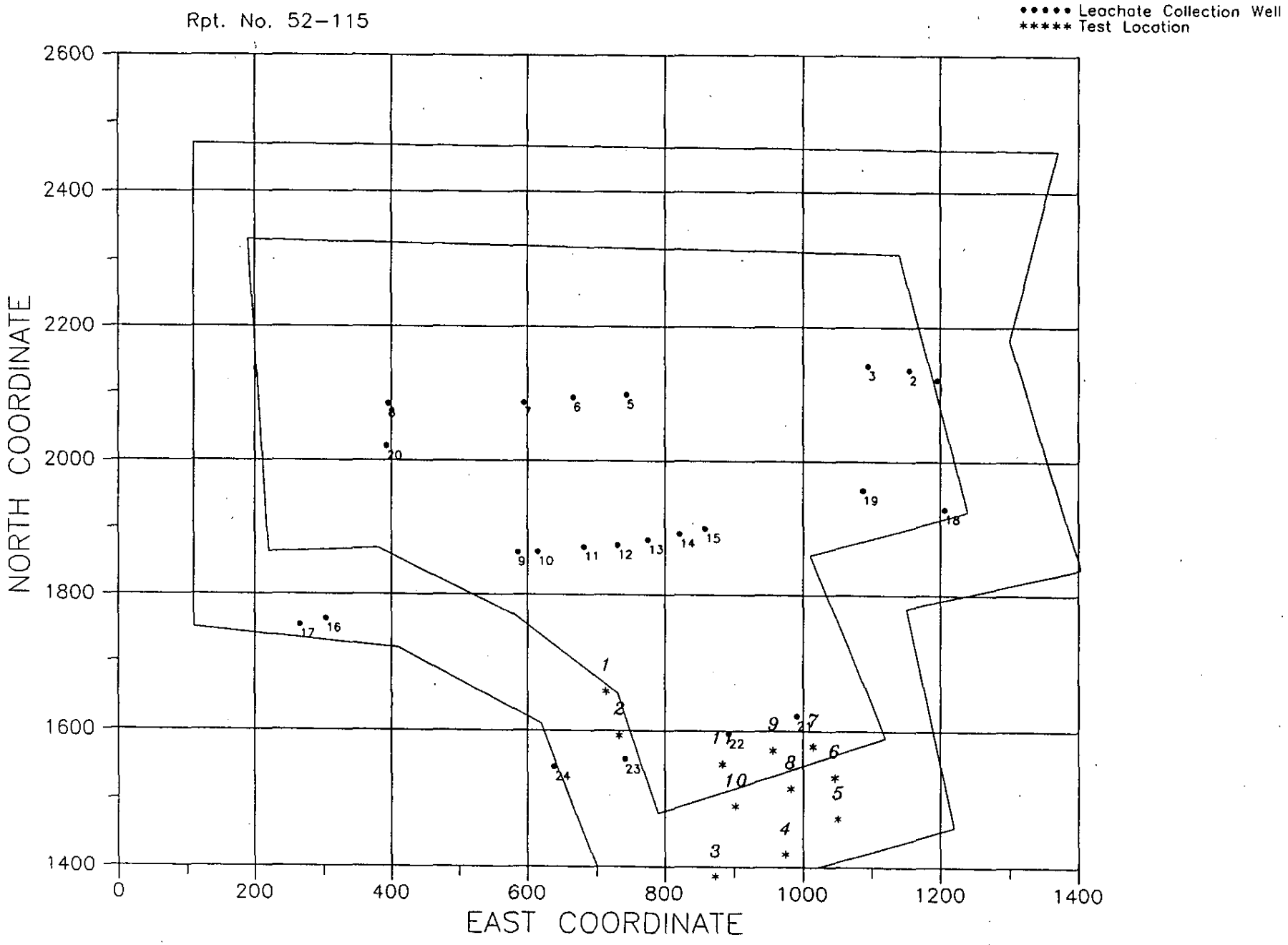
LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
1	43/24	3.5×10^{-9}	20.8	97.1	-

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

TEST LOCATIONS

Rpt. No. 52-115



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-115	DATE:	10/6/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 50's-70's	EQUIPMENT:	235 Shovel, 2 D-6 Dozers, 4 DJB's, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site. Sussex continues with lift from yesterday.
09:00 They complete lift in this area and begin lift on south end of west slope of 717D.
10:30 I take test 1-11 on areas compacted.
13:00 Take lunch. Sussex continues with lift on west slope of 717D.
14:00 Sussex finishes working slope on south side of 717B and Brown and Butler cross section for top of waste.
17:15 Sussex quits for day.
18:00 I leave site.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1657	713	108.0	24.1	99.6	91.4	P
2	1593	733	108.0	25.2	99.2	91.0	P
3	1386	873	103.7	23.1	98.4	90.2	P
4	1420	974	103.0	23.2	98.5	90.4	P
5	1473	1051	102.3	22.1	102.2	93.8	P
6	1533	1046	114.1	24.2	99.5	91.3	P
7	1578	1015	117.3	24.4	98.9	90.7	P
8	1517	982	115.4	23.2	98.6	90.4	P
9	1572	957	118.8	23.4	99.1	90.9	P
10	1491	902	115.6	23.8	98.2	90.1	P
11	1552	884	118.5	23.6	100.1	91.9	P

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-116 (page 1 of 2)	DATE:	10/7/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 50's-70's	EQUIPMENT:	235 Shovel, 4 DJB's, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site. Sussex continues lift on west slope of 717D.
07:30 I take tests 1-3.
10:00 Sussex still working on west slope of 717D.
12:00 Sussex completes lift on west slope of 717D.
Lunch
12:30 Sussex begins lift on south slope of 717B.
15:00 Sussex is still working on south slope of 717B. I take test 4-6 on south end of west slope of 717D.
15:20 Take tests 7&8 on north end of west slope of 717D.
15:30 Sussex completes lift on south slope of 717B and moves to south end of west slope of 717D.
16:30 Sussex continues with lift on west slope of 717D. I leave site.

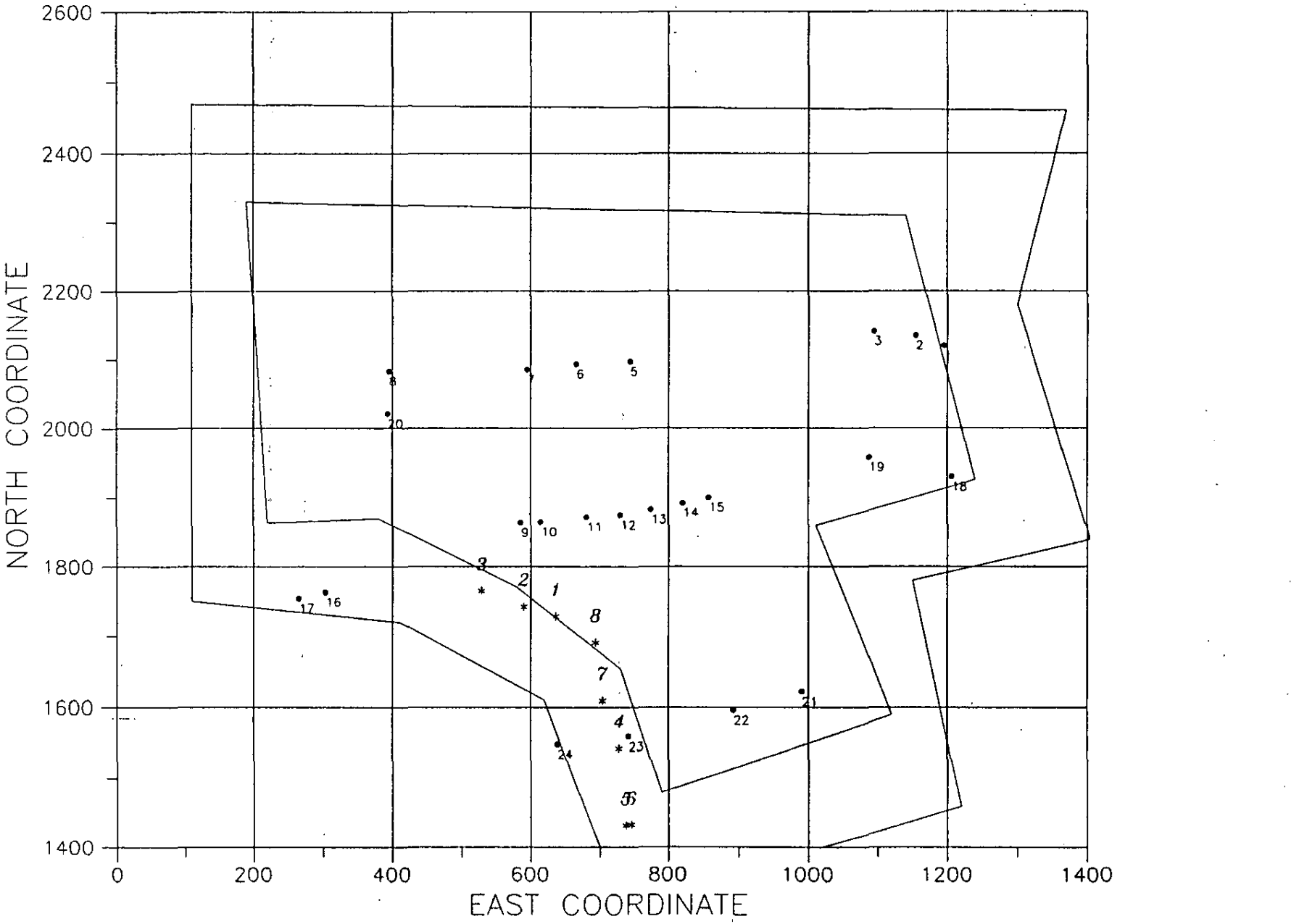
Continue to place cap on Cell 717D.

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-116



DAILY FIELD REPORT
(continued)

Report No. 52-116 (page 2 of 2)

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1728	636	104.3	22.9	98.9	90.8	P
2	1742	590	102.5	21.2	103.1	94.5	P
3	1765	529	104.2	20.9	103.3	94.8	P
4	1542	728	103.0	24.8	99.2	91.0	P
5	1432	738	97.7	21.7	102.1	93.6	P
6	1433	746	97.3	22.2	103.4	94.9	P
7	1609	704	102.6	22.5	98.1	90.0	P
8	1691	694	107.8	23.7	100.8	92.5	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
4	41/20	-	22.1	-	-
6	55/27	-	19.4	-	-

INSPECTOR Thomas A. Vranich ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-117	DATE:	10/8/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 50's-70's	EQUIPMENT:	235 Shovel, 4-DJB's, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:20 Sussex continues to place lift on west slope of 717D.
10:00 Sussex continues lift on west slope of 717D. They also begin rolling south slope of 717B and south slope of 717D that is adjacent to it.
12:00 Lunch.
12:30 Sussex moves from west slope of 717D to east slope of 717D. They are bringing this area to grade.
15:00 Sussex is still working on east slope 717D. I leave site.

Place cap on 717.

FIELD DATA - None

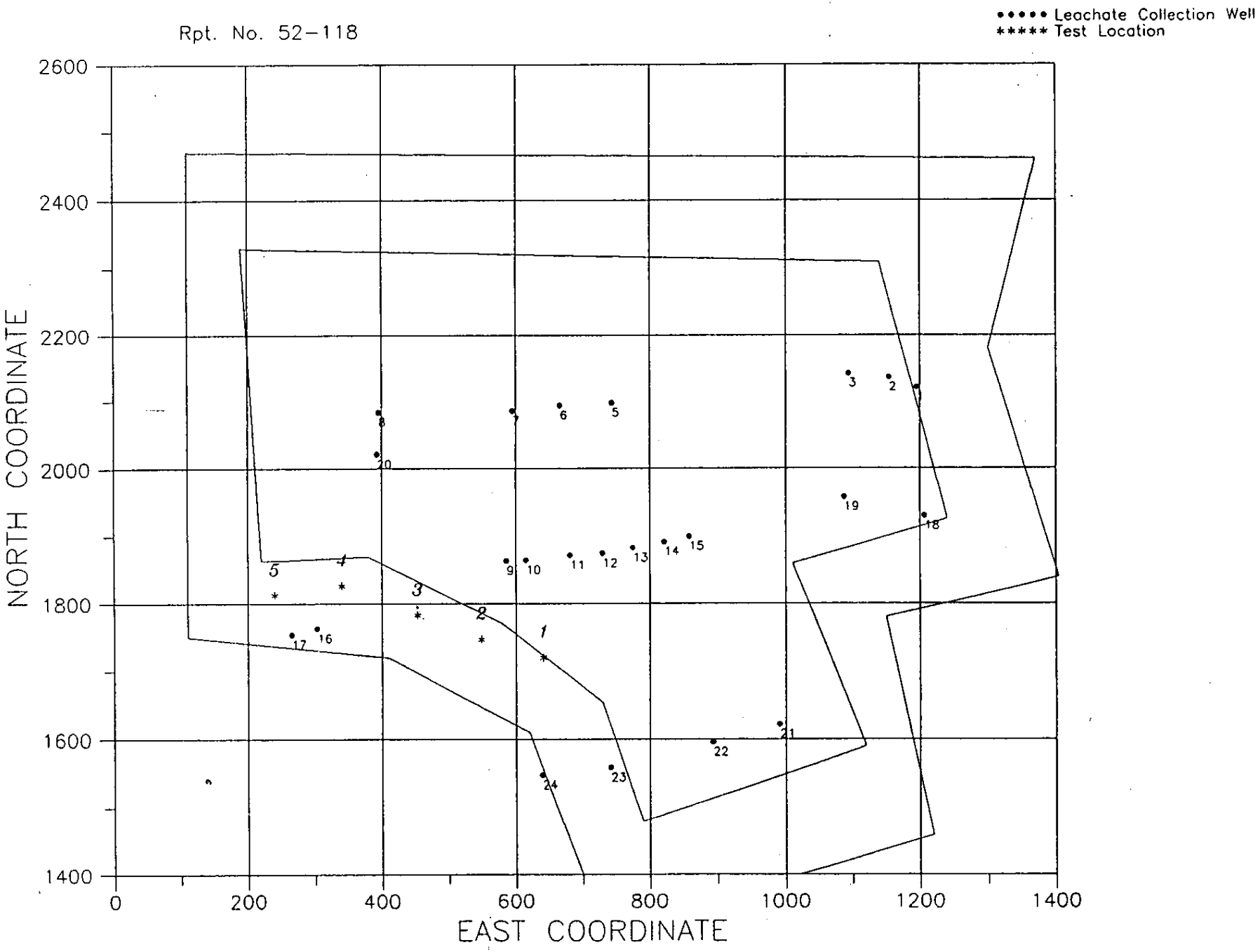
LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER [signature]

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-118



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-118	DATE:	10/10/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 50's	EQUIPMENT:	235 Shovel, 4-DJB's, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

06:50 I arrive on site.
07:15 Sussex continues with lift on east slope of 717D.
08:00 Sussex begins rolling lift on south end of west slope of 717D.
08:30 Take tests 1-5 on south slope of 717B and south slope of 717D.
11:00 Sussex still placing lift on east slope of 717D.
12:00 Lunch.
13:00 Sussex begins lift on south slope of 717C.
15:00 Sussex still working on south slope of 717C.
17:00 Sussex continues with cap on 717C. I leave site.

Continue placing cap on 717.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1720	641	104.8	22.1	103.3	94.7	P
2	1747	549	101.7	22.6	100.8	92.4	P
3	1783	453	104.9	21.1	98.2	90.1	P
4	1827	340	105.1	23.0	98.2	90.1	P
5	1813	240	103.5	21.9	100.9	92.6	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
1	42/24	-	22.9	-	*
4	41/21	6.0×10^{-10}	21.7	105.2	-

*Hydrometer Analysis

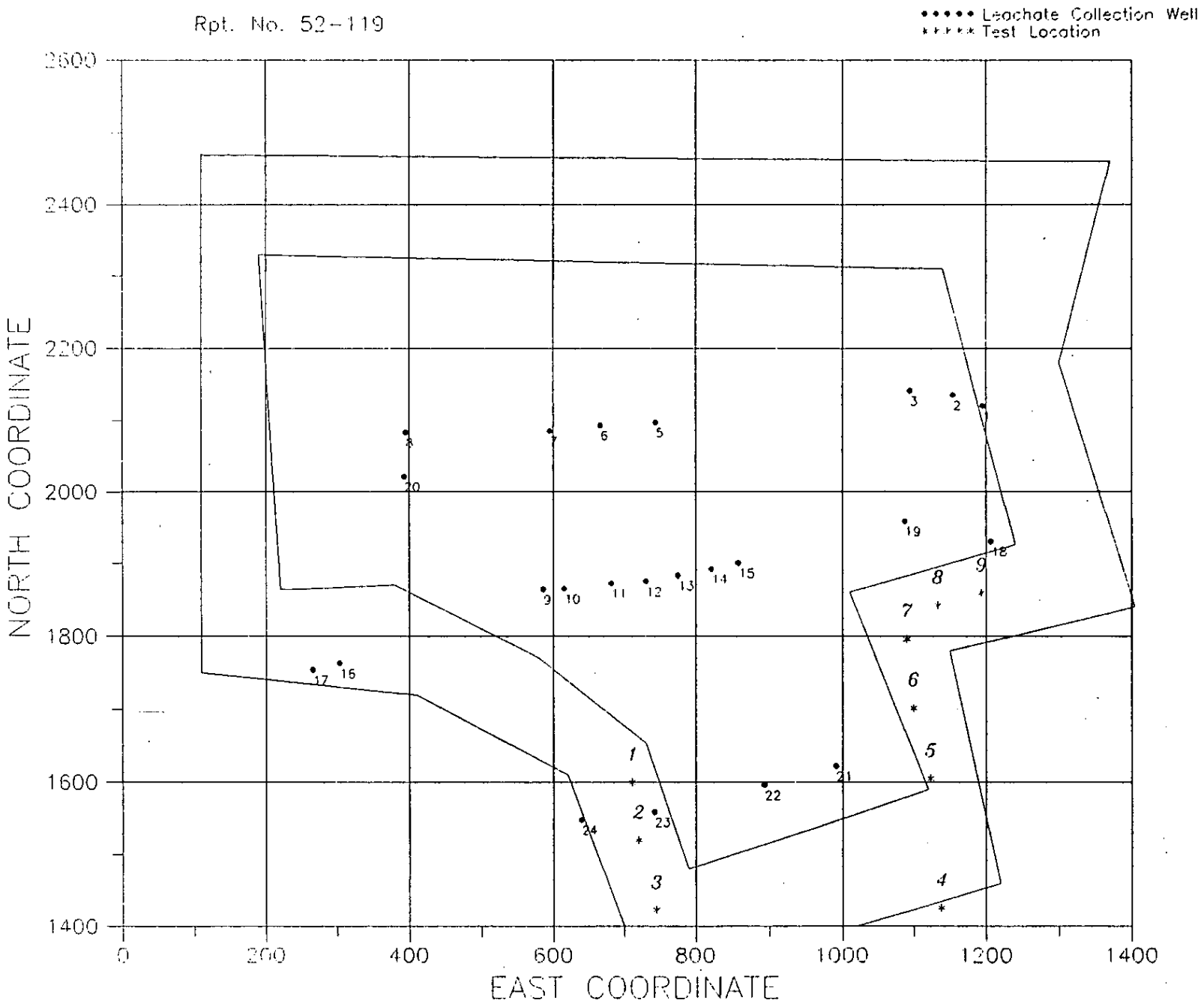
Point No.	% Sand	% Silt	% Clay
1	2	46	52

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-119



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-119 (page 1 of 2)	DATE:	10/11/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 50's-70's	EQUIPMENT:	235 Shovel, 235 Backhoe, 6-DJB's, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex continues with lift on south slope of 717C. They also strip topsoil in the western tract and stockpile it in the north end of western tract. They also begin rolling lift on east slope of 717D.
08:15 Tke tests 1-3 on west slope of 717D.
08:40 Take test 4-7 on east slope of 717D.
10:45 Sussex completes lift on 717C and moves to south slope of 717D and places lift in low area.
12:00 Lunch.
13:00 Sussex completes lift on low area on south slope. They move to west slope of 717D and continue lift started there 10/8/88.
16:30 Sussex is still working on west slope of 717D. I leave site.

Place cap on 717.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1600	711	103.8	22.9	101.3	92.9	P
2	1520	720	99.5	22.8	100.5	92.1	P
3	1423	745	97.3	23.4	101.0	92.6	P
4	1426	1138	104.7	20.8	100.1	91.8	P
5	1605	1123	102.1	22.4	102.0	93.6	P
6	1702	1099	103.0	24.0	99.7	91.5	P
7	1796	1090	101.7	24.6	98.2	90.1	P
8	1842	1133	99.7	22.3	102.5	94.0	P
9	1859	1193	98.8	22.5	101.4	93.0	P

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

Report No. 52-119 (page 2 of 2)

LABORATORY DATA

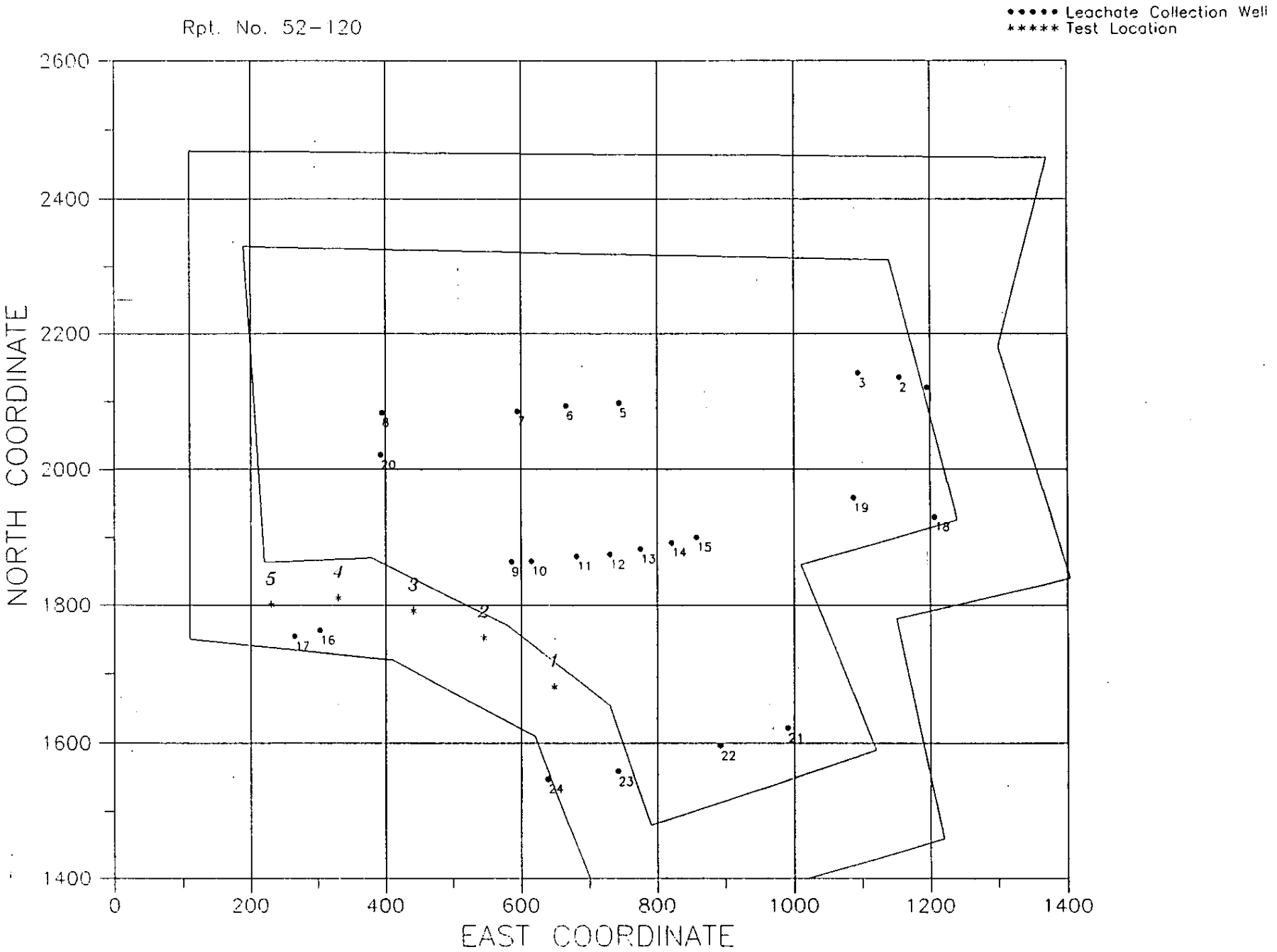
Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
2	41/22	1.0×10^{-9}	24.4	110.6	-
8	50/32	6.0×10^{-10}	20.4	109.2	-

INSPECTOR Thomas A. Vreeland ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-120



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-120	DATE:	10/12/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 50's-70's	EQUIPMENT:	235 Shovel, D-6 Dozer, 4-DJB's, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex continues with lift on west slope of 717D.
10:00 Sussex completes lift on this area and continues on to south slope of 717B.
13:00 Still working on south slope of 717B. They are rolling this lift immediately after placing it.
14:30 Sussex completes lift on 717B and moves to south end of west slope of 717D. I take tests on areas placed and compacted today.
15:00 Sussex completes excavation exposing below grade liner in northwest corner of Cell 904 area. Mr. Brister and myself inspect the exposed liner and Brown & Butler cross-section this area and trench dug to join this liner to above grade liner of 717B.
16:00 Sussex continues to work on west slope of 717D. I leave site.

Continue to place cap on 717.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1681	648	100.2	25.2	96.4	88.4	F
2	1752	545	102.5	25.6	96.0	88.0	F
3	1792	441	104.4	23.8	99.9	91.7	P
4	1811	330	100.4	24.4	100.2	91.9	P
5	1801	230	100.0	24.3	98.4	90.2	P

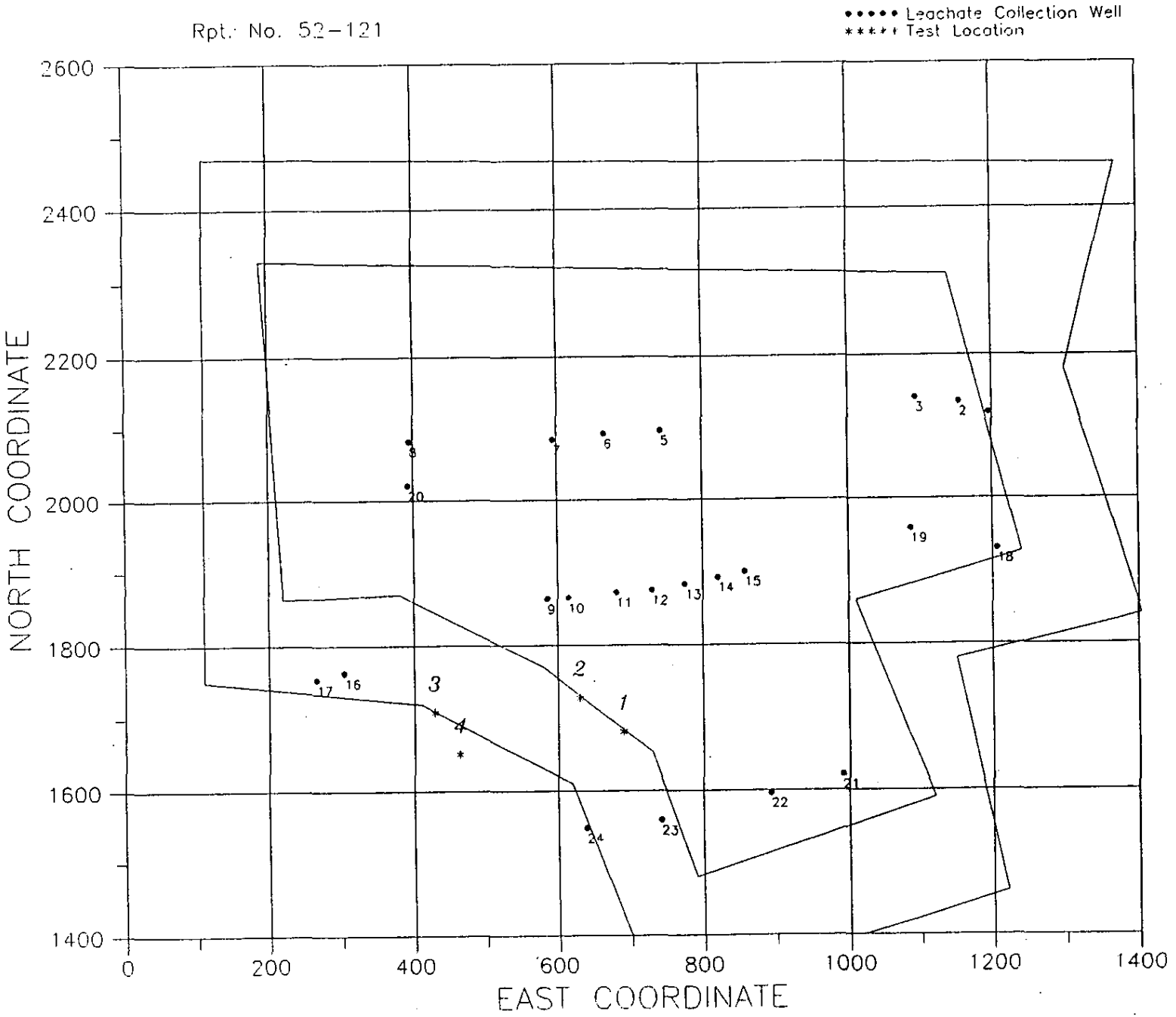
LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-121



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-121	DATE:	10/13/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 50's-70's	EQUIPMENT:	235 Shovel, 4-DJB's, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex continues placing lift on west slope of 717D.
09:00 Take tests 1 & 2 that failed to meet specs yesterday. This area was rerolled prior to testing.
10:00 Sussex places lift in liner tie in area between 717B and Cell 904.
12:00 Lunch.
12:30 Sussex rolls liner tie-in area.
14:30 I take tests 3 & 4 in liner tie-in trench.
15:00 Sussex continues with lift on west slope.
16:30 Sussex begins placing lift in liner tie-in area and continues with lift on slope of 717.
17:15 Sussex quits work for the day.
17:30 I leave site.

Continue with cap on 717 and place lift on liner tie-in.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1682	690	106.7	22.2	101.5	93.1	P
2	1728	630	105.5	20.5	102.0	93.6	P
3	1709	428	83.3	18.8	106.0	97.2	P
4	1652	463	75.9	21.3	102.7	94.2	P

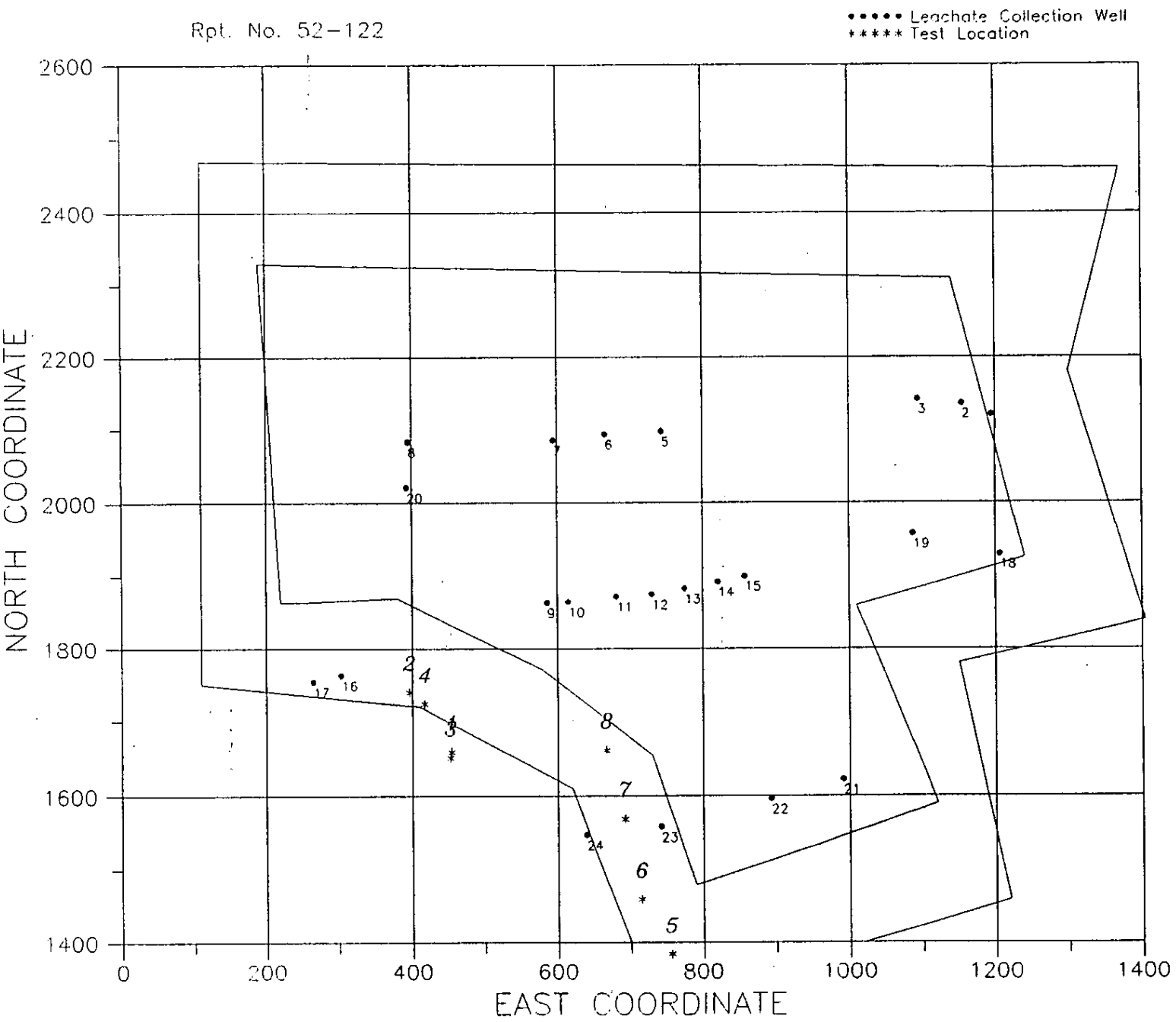
LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-122



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-122 (page 1 of 2)	DATE:	10/14/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 50's-70's	EQUIPMENT:	235 Shovel, 4-DJB's, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex completes lift on slope of 717D and begin lift on slope of 717D and begin lift on south slope of 717B.
08:30 Take test 1 & 2 in liner tie-in area.
10:30 Sussex begins placing lift in liner tie-in area.
12:00 Lunch.
14:00 Take tests 3 & 4 in liner tie-in area.
15:00 Sussex continues with lift on south slope of 717B. I take tests 5-8 on west slope of 717D.
15:30 Sussex places another lift in liner tie-in area.
17:15 Sussex completes work for the day.
18:00 I leave site.

Continue to cap 717.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1659	454	77.6	17.6	105.5	96.8	P
2	1740	396	85.7	18.7	102.5	94.1	P
3	1651	453	78.6	21.3	98.1	90.0	P
4	1724	417	85.7	21.7	105.0	96.4	P
5	1384	756	99.1	21.1	103.4	94.8	P
6	1460	715	97.4	22.2	101.4	93.1	P
7	1569	692	97.4	24.9	100.3	92.0	P
8	1661	667	100.5	21.5	103.1	94.5	P

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

Report No. 52-122 (page 2 of 2)

LABORATORY DATA

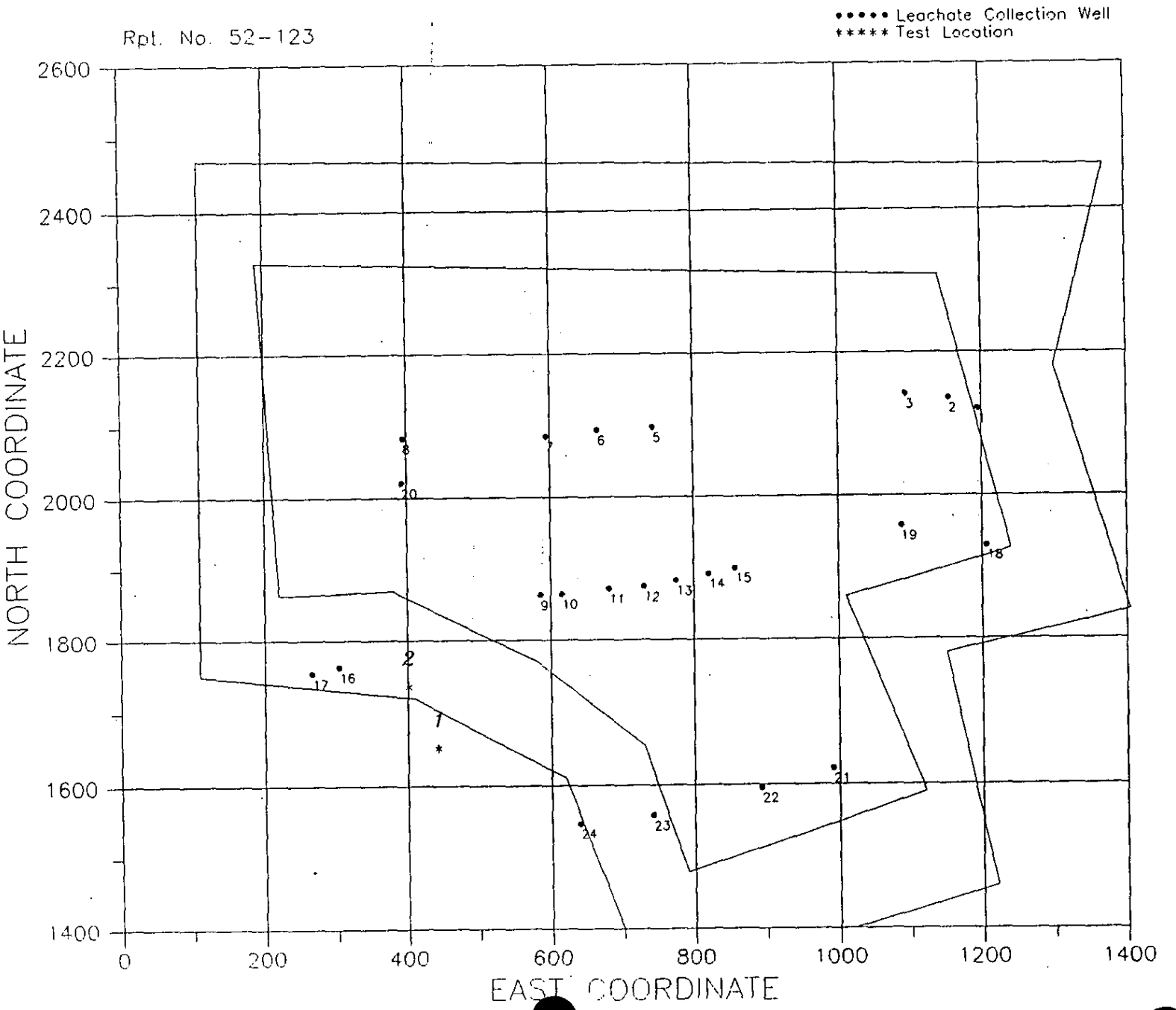
Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
1	41/23	2.0×10^{-9}	17.2	110.0	-

INSPECTOR Thomas A. Vreuick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-123



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-123	DATE:	10/15/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 50's-70's	EQUIPMENT:	235 Shovel, 4-DJB's, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:20 Sussex continues with lift on south slope 717B.
08:15 Take tests 1 & 2 in liner tie-in area.
09:00 Sussex completes lift on 717B and moves back to south end of west slope of 717D.
10:45 Sussex places lift in liner tie-in area.
12:00 Sussex has completed lift in liner tie-in area. They plan to compact this lift and will test it Monday, October 17, 1988. They plan to continue with lift on west slope of 717D and do not need any additional tests today.
12:30 I leave site.

Place cap on 717.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1652	443	79.8	19.6	99.8	91.6	P
2	1736	401	87.2	20.1	98.8	90.6	P

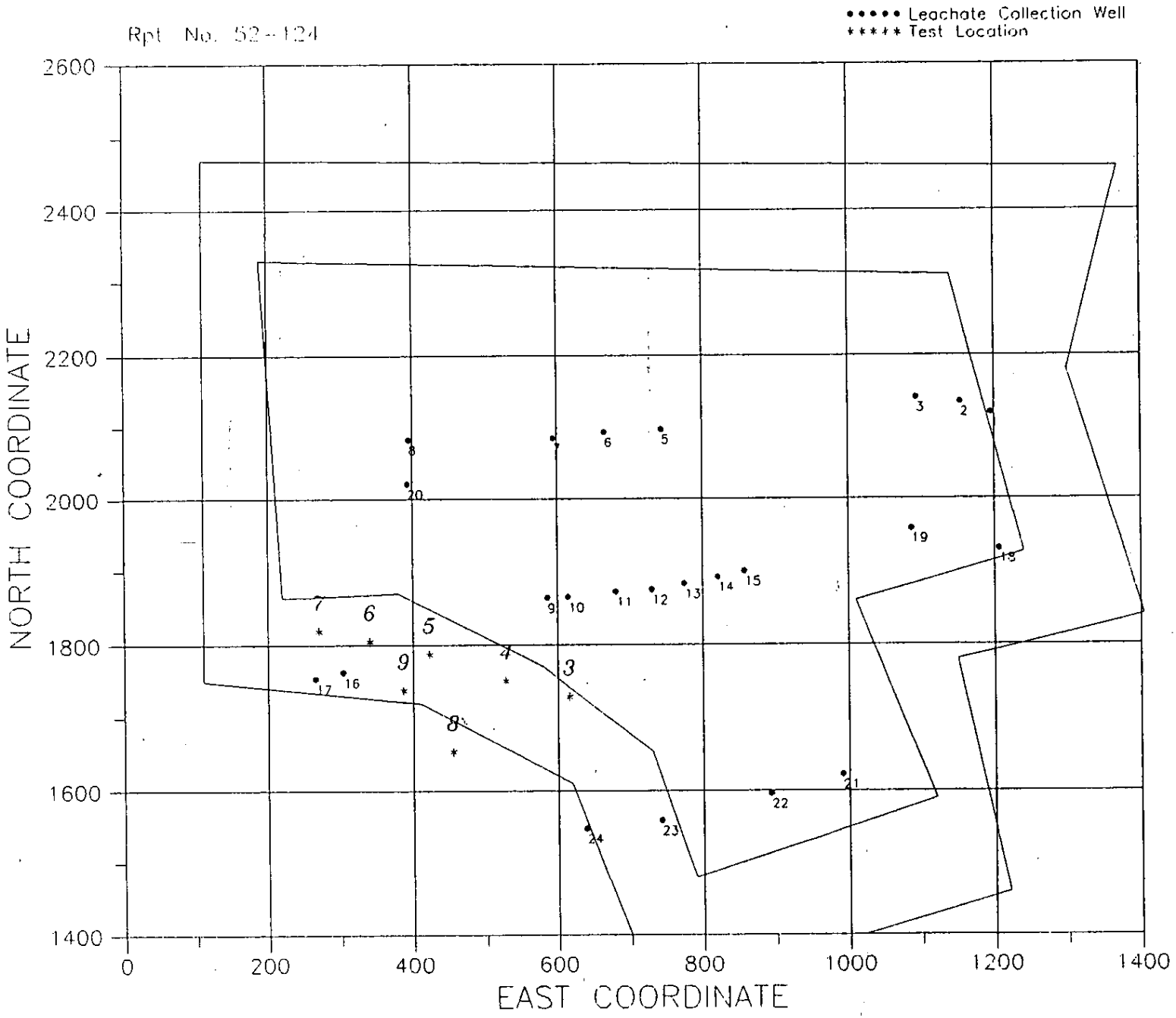
LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt No. 52-124



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-124	DATE:	10/17/88
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Fog-Clear, 60's-80's	EQUIPMENT:	235 Shovel, D-6 Dozer, 4-DJB's, Vibratory Roller

ACTIVITIES SUMMARY

07:30 I arrive on site. Sussex is continuing with lift on west slope of 717D.
08:15 Take tests 1 & 2 in liner tie area.
08:30 They begin placing lift in liner tie-in area.
09:30 Take tests 3-7 on lsope of 717D and 717B.
12:00 Brown & Butler begins to set toe and shoulder stakes for common area of Cell 717 and Cell 904.
12:30 Sussex begins lift on south slope of 717B to allow Brown & Butler to do surveying.
14:00 Take tests 8 & 9 on liner tie-in area.
17:00 Sussex still working on south slope of 717B.
17:30 I leave site.

Continue clay cap on 717.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1662	470	83.0	19.0	105.8	97.1	P
2	1718	398	87.4	19.6	103.8	95.2	P
3	1729	616	103.4	23.0	101.8	93.4	P
4	1751	527	103.2	24.5	98.4	90.3	P
5	1787	422	101.0	22.9	101.2	92.9	P
6	1805	340	99.8	22.1	102.0	93.5	P
7	1819	270	106.0	23.0	102.4	94.0	P
8	1654	454	82.5	19.6	100.2	91.9	P
9	1738	386	88.6	18.3	107.1	98.2	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
4	39/17	-	22.9	-	-
5	37/20	-	21.5	-	-

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fiala

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-125	DATE:	10/18/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 60's-80's	EQUIPMENT:	235 Shovel, 4-DJB's, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:10 I arrive on site. Sussex continues with lift on south slope of 717B.
09:00 T. Phillips, G.E. Brister and I look at grades on shoulder stakes for area common to 717 and 904. It is decided that starting approximately 40' north and south of LC-23 the clay cap of 717 will be extended to the west by 13' at the maximum point at LC-23 to make sure it is not in Cell 904.
10:15 Sussex places lift on west slope of 717D after completing lift on 717B.
12:00 Lunch.
12:30 Sussex begins placing topsoil on east slope of 717D.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-126	DATE:	10/19/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, Fog, 60's	EQUIPMENT:	-

ACTIVITIES SUMMARY

07:00 I arrive on site.
09:15 Sussex begins placing topsoil on east slope of 717D.
14:00 Sussex begins stockpiling material at toe of south slope of 717C to begin building New Access Road.
16:00 Sussex knocks this material down to begin building Access Road.

Place topsoil on east slope of 717D and begin building New Access Road.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-127	DATE:	10/25/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 70	EQUIPMENT:	235 Backhoe

ACTIVITIES SUMMARY

10:00 Sussex begins exposing below grade liner on west end of Cell 904 area.
14:00 They continue to expose liner. Brown and Butler will locate this tomorrow.

Expose below grade liner.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-128	DATE:	10/26/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 70	EQUIPMENT:	235 Shovel, D-6 Dozer

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex continues to expose below grade liner in Cell 904.
08:30 Take tests 1 & 2 on new access road.
10:00 Brown & Butler begins to set toe cross-section below grade exposed liner. I take test 3-6 on this exposed liner.
12:00 Lunch
12:30 Begins to rain. Sussex does not plan to do any more work.

Expose below grade liner and cross-section it.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	Southside	717	-	22.7	100.9	92.6	P
2	Southside	717	-	25.1	97.2	89.2	P
3	1592	463	76.6	20.3	109.9	100.8	P
4	1444	485	77.6	21.9	104.6	95.9	P
5	1276	543	80.3	16.9	114.6	105.2	P
6	1303	698	77.2	22.5	99.8	91.6	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
4	49/30	7.0×10^{-10}	19.5	115.7	-
5	43/27	3.0×10^{-10}	15.5	117.3	-

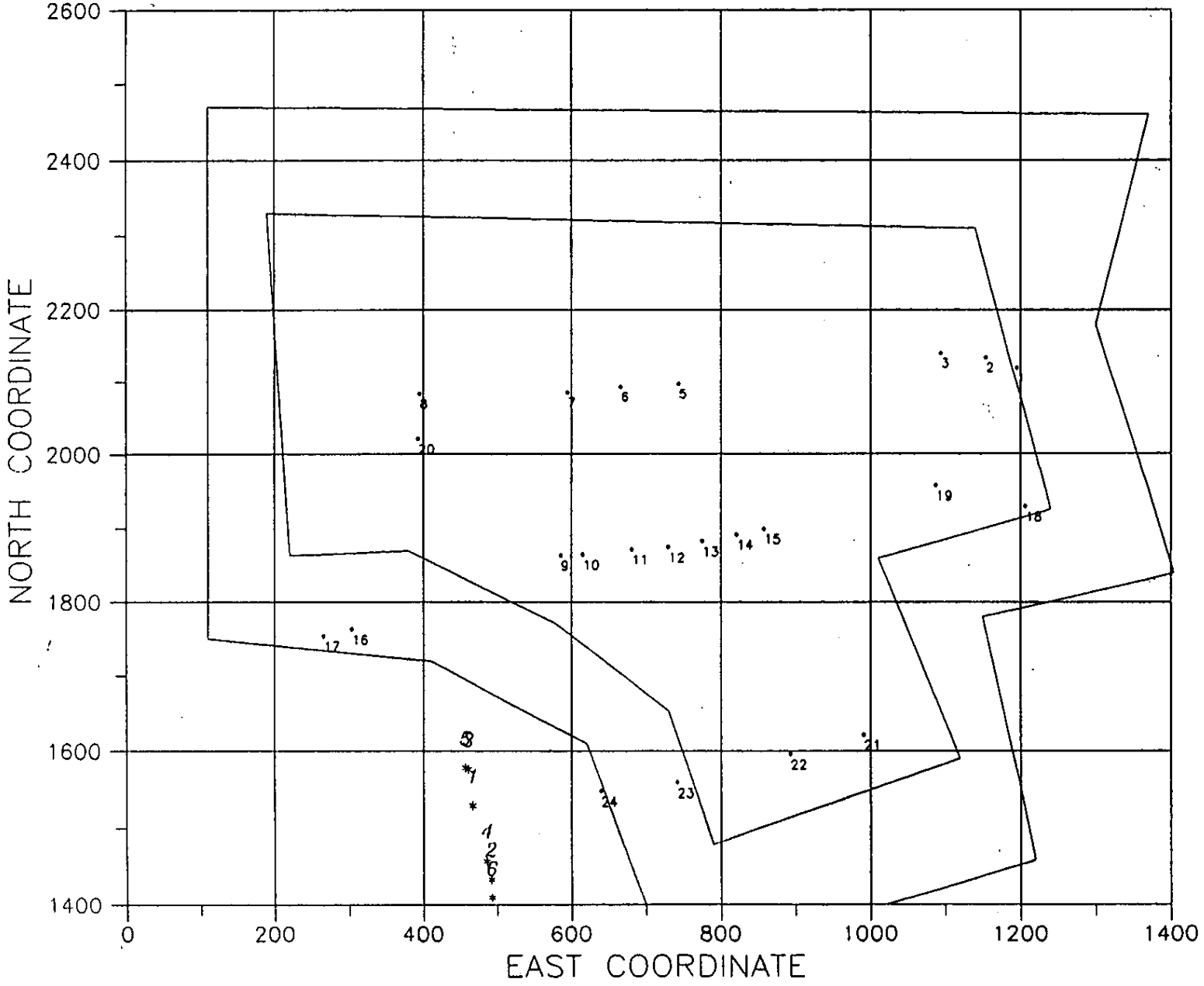
INSPECTOR Thomas A. Vrenick ENGINEER William R. Furlow for Charles R. Furlow

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-129

***** Test Locations
• • • • • Leachate Collection Well



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-129	DATE:	10/31/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 65	EQUIPMENT:	235 Shovel, 3 DJB's, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
10:00 Sussex begins lift in liner tie-in area.
10:50 Sussex completes lift and begins rolling lift.
11:30 They finish rolling lift and I take test 1 & 2.
12:30 Sussex begins placing next lift in liner tie-in area.
13:45 Sussex completes lift and begins rolling it.
14:30 Take tests 3 & 4.
14:40 They begin placing another lift.
15:10 They complete lift and begin rolling it.
15:45 Take tests 5 & 6.
16:30 Sussex quits for the day.
17:00 I leave site.

Place lifts in liner tie-in.

FIELD DATA

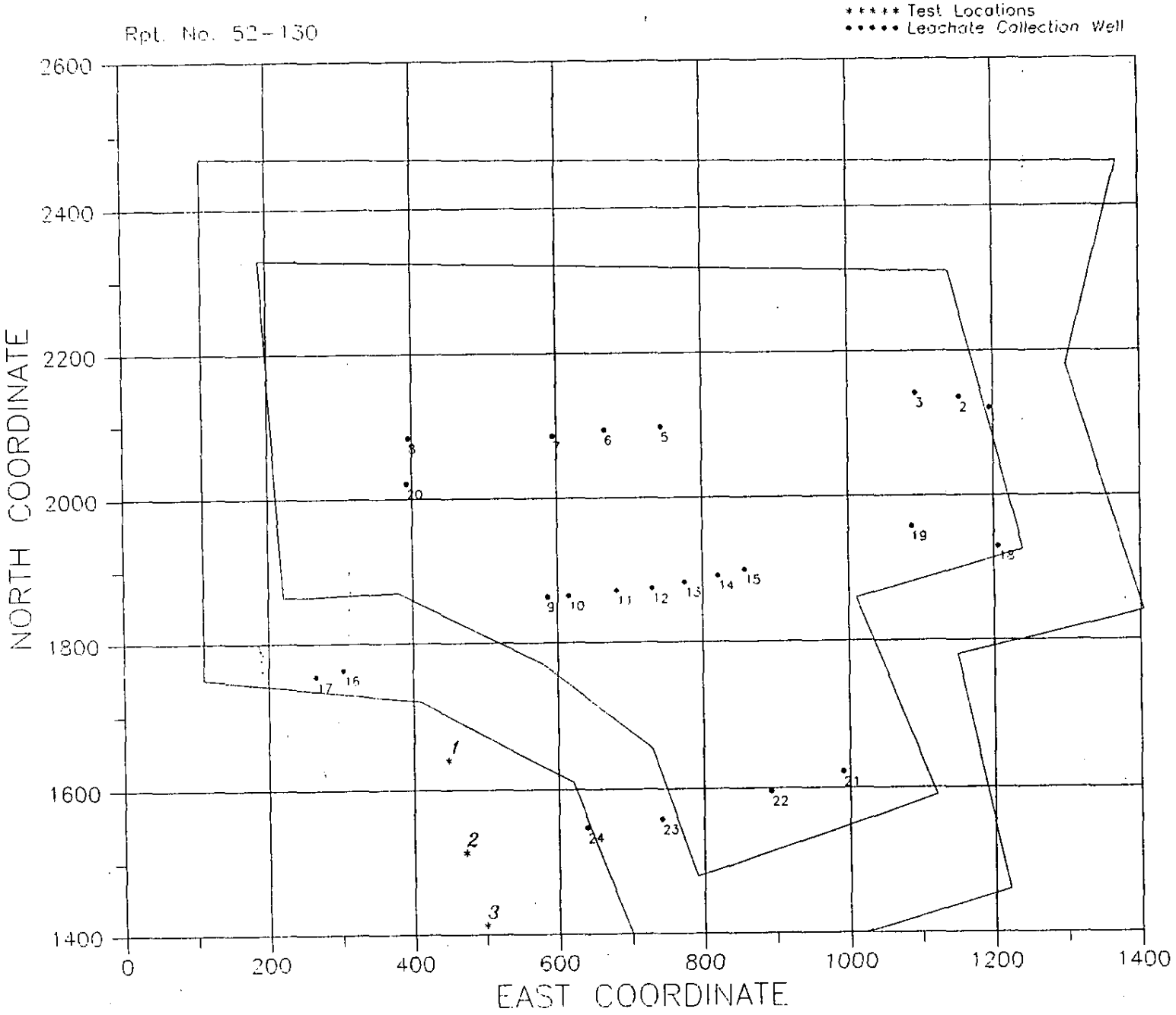
Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1529	467	76.8	24.0	98.4	90.3	P
2	1434	492	77.7	25.2	98.9	90.8	P
3	1576	461	77.7	23.1	101.5	93.1	P
4	1458	486	78.2	24.0	100.0	91.7	P
5	1578	457	78.6	23.3	101.5	93.1	P
6	1410	493	79.8	23.3	101.7	93.3	P

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

TEST LOCATIONS

Rpt. No. 52-130



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-130	DATE:	11/1/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 50's-70's	EQUIPMENT:	235 Shovel, D-6 Dozer, DJB's, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:20 Sussex begins placing lift in liner tie-in area on west side Cell 904.
08:15 They complete lift and begin rolling it.
08:50 They finish rolling lift.
11:00 I take tests 1-3. Sussex does not plan any more work in this area today.

Place lift in Cell 904 liner tie-in area.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1640	448	81.9	24.7	101.2	92.8	P
2	1514	472	79.4	23.5	101.1	92.7	P
3	1413	500	80.2	24.5	99.0	90.8	P

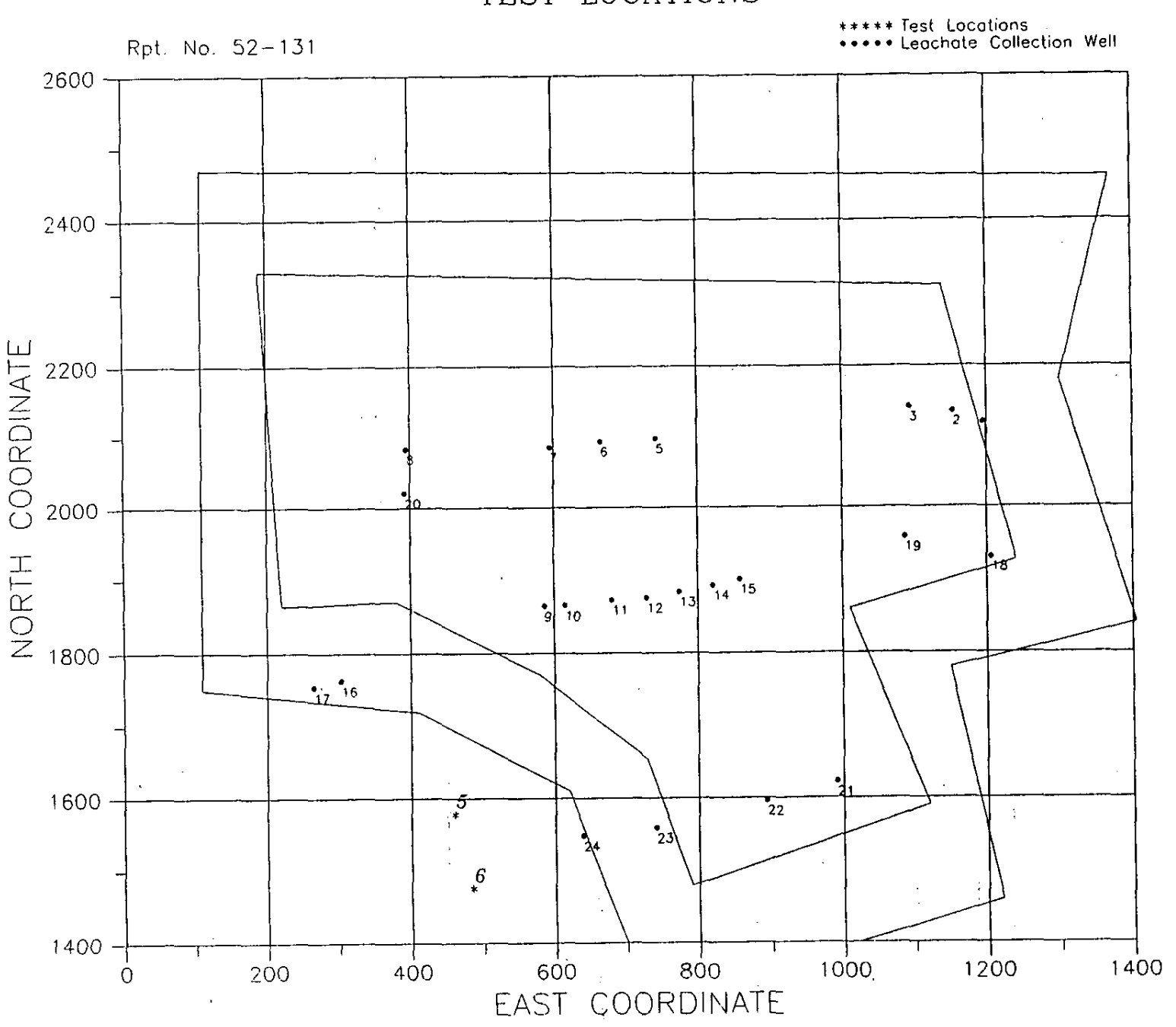
LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Jack

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-131



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-131	DATE:	11/8/88
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 60's - 80's	EQUIPMENT:	D-6 Dozer, 235 Shovel, Vibratory Roller

ACTIVITIES SUMMARY

07:00 Sussex begins excavating remaining portion of Cell 904 liner tie in area.
10:00 Brown & Butler surveys it and confirms the excavation.
12:30 Sussex begins stockpiling in this area. The yalso want to place a lift on new access ranp on south side of 717C. I inform Mr. Brister there are too many wet areas. He plans to push these wet areas to bottom of slope.
13:15 They push out wet spots and regrade area.
13:30 I take tests 1-4. Tests 1-3 fail to meet specs and they plan to reroll area. Sussex also begins stockpiling at top to place lift in this area when it is approved.
14:00 I take tests 5 & 6 on Cell 904 liner tie in.
16:00 I take tests 7 & 8 in area of tests 1-3 after Sussex rerolls it.

Place lift in liner tie in and stockpile for new access ramp.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1.	access ramp		-	15.8	93.5	85.8	F
2.	-	-	-	14.6	101.3	93.0	F
3.	-	-	-	26.0	97.8	89.7	F
4.	-	-	-	23.2	101.3	93.0	P
5.	1578	460	80.4	21.8	99.1	90.9	P
6.	1476	485	80.8	23.3	98.1	90.0	P
7.	retest 1 & 2		-	23.2	98.4	90.2	P
8.	retest 3		-	22.4	100.7	92.3	P

Note: Tests 1-4 and 7 & 8 were conducted on access road and are not considered part of clay cap.

LABORATORY DATA - None

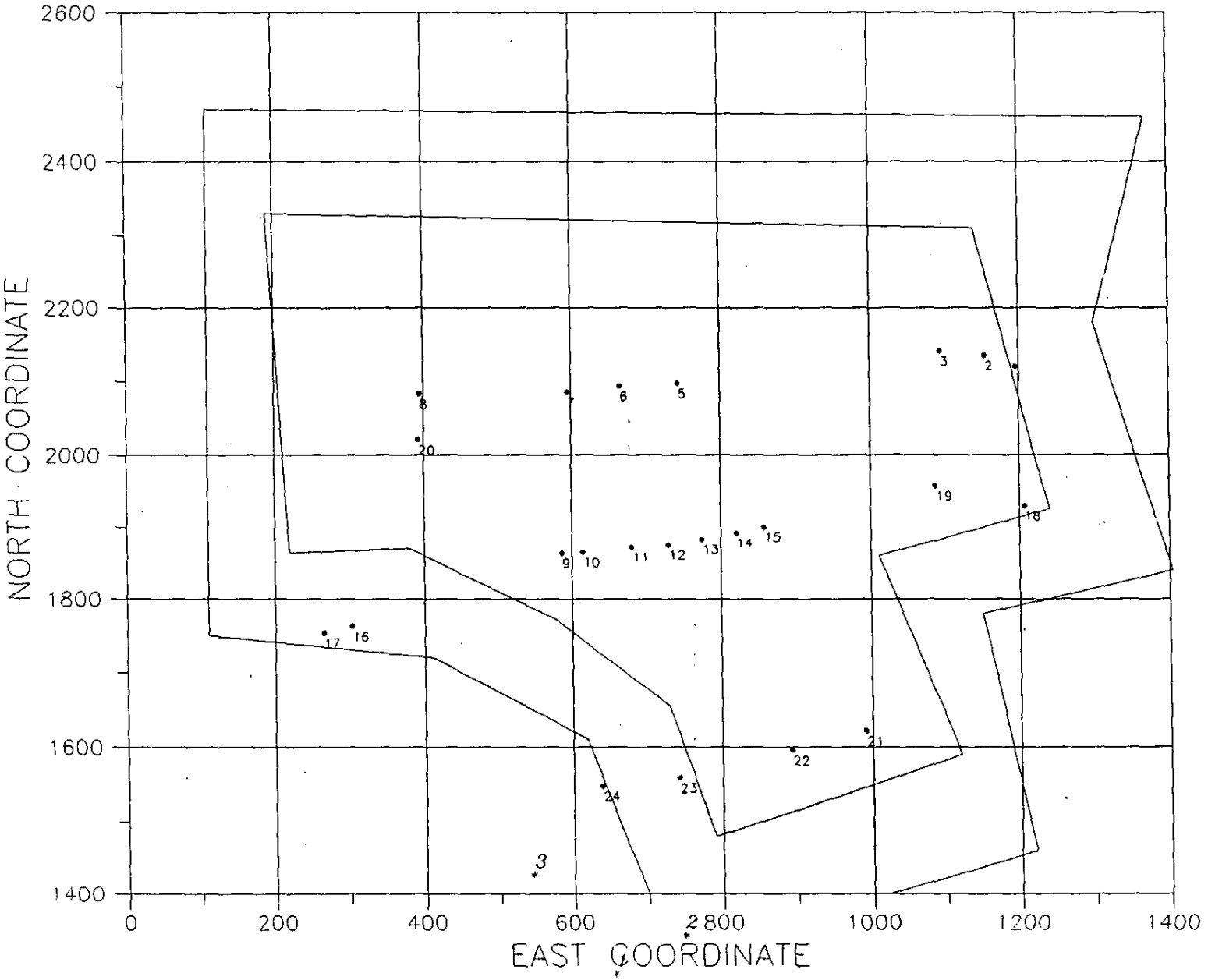
INSPECTOR Thomas A. Vrenick ENGINEER Charles R Fuels

ENCOR

TEST LOCATIONS

Rpt. No. 52-132

***** Test Locations
••••• Leachate Collection Well



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-132 (page 1 of 2)	DATE:	11/9/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 60's-80's	EQUIPMENT:	235 Shovel, 2 D-6 Dozers, 3 DJB's

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins to knock down stockpiled material and place lift for new access road. They also begin placing lift on west slope 717D.
09:30 They stop working on west slope 717D but continue with new access road area.
12:00 Lunch.
12:30 They finish placing lift and begin rolling with vibratory roller.
13:30 Take tests 1 - 3 on Cell 904 liner tie in.
14:00 Take tests 4 - 7 on new access road. Sussex begins placing lift in liner tie in area.
16:30 They finish lift in liner tie in area.

Place lift on access road and liner tie in.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1288	653	78.6	21.2	101.7	93.3	P
2	1341	747	81.1	22.0	101.8	93.4	P
3	1427	544	80.3	21.9	100.2	91.9	P
4	new access road		-	18.5	104.2	95.5	P
5	new access road		-	21.6	102.4	93.9	P
6	new access road		-	21.5	102.3	93.8	P
7	new access road		-	20.6	103.1	94.5	P

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

Report No. 52-132 (page 2 of 2)

LABORATORY DATA

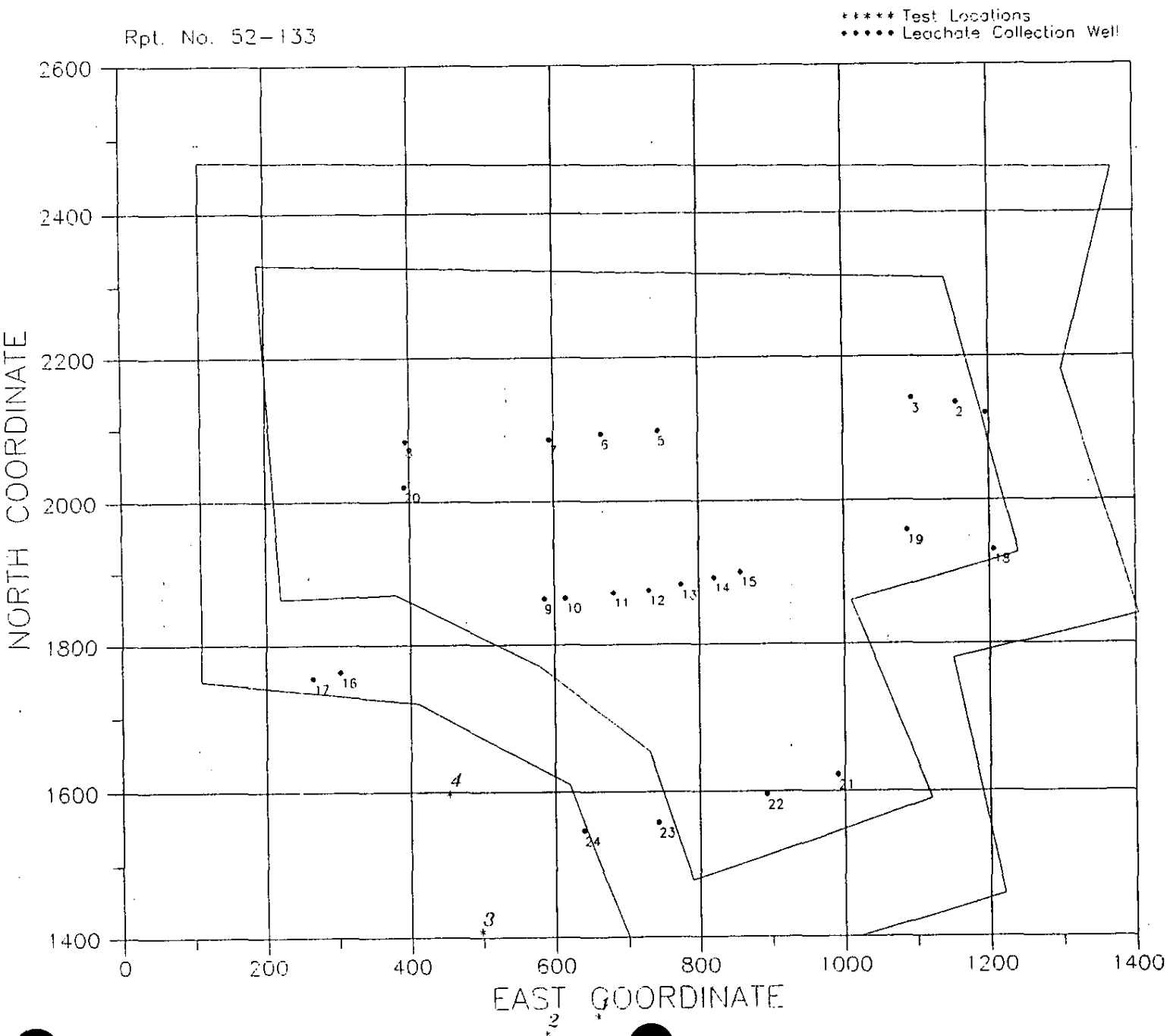
Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
1	42/19	-	22.8	-	-

INSPECTOR Thomas A. Wrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-133



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-133	DATE:	11/10/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 60's-80's	EQUIPMENT:	235 Shovel, 4DJB's, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:15 I arrive on site. Sussex begins placing lift on new access ramp on south side 717C. They also begin rolling lift placed in Cell 904 liner tie-in.
09:00 I take tests 1 - 4. They meet specs and Sussex plans to place lift there.
10:00 They complete lift on new access ramp and begin lift in liner tie in area.
12:00 Lunch.
12:30 Sussex begins lift on west slope of 717D.
14:30 They begin rolling lift in liner tie-in on Cell 904.
16:00 Sussex stops work for day.
16:30 I leave site.

Place lift in Cell 904 liner tie-in new access ramp and west slope 717D.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1288	656	80.2	22.0	102.1	93.7	P
2	1264	585	82.1	23.8	101.0	92.7	P
3	1408	498	82.1	23.5	102.2	93.7	P
4	1598	454	82.5	23.0	98.4	90.3	P

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER _____

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-134	DATE:	11/14/88
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, Fog, 60's-70's	EQUIPMENT:	235 Shovel, 4-DJB's, D-6 Dozer, 235 Shovel, Vibratory Roller

ACTIVITIES SUMMARY

07:15 I arrive on site. Sussex begins placing topsoil on east slope 717D.
10:00 Sussex begins placing lift for new access road on cap of 717A and 717C. They plan to place two lifts for a total of 18" for road bed.
12:00 They complete first lift of road and begin rolling it.
13:15 I take tests 1-3 on this road way. Test #1 fails to meet specs. Add lift on area of tests 2 & 3. They also place lift at bottom of ramp to tie-in to existing grade.
13:45 I retest area of test #1. They place lift in this area.
14:00 Sussex rolls lift placed for road bed.

Place topsoil on 717D and place lifts on new access roads.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1.	new access road		-	23.1	97.8	89.8	F
2.	top 717A & 717C		-	22.3	103.5	94.9	P
3.	-	-	-	24.2	100.1	91.8	P
4.	retest #1		-	21.4	102.2	93.7	P

Note: Tests 1-4 were conducted on access road and are not considered part of clay cap.

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER William P. Furlow
for Charles R. Furlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-135	DATE:	11/15/88
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 70's-80's	EQUIPMENT:	235 Shovel, 4-DJB's, D-6 Dozer, 235 Shovel, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins to place lift on new access ramp on south slope 717C.
09:00 They complete lift on ramp.
09:45 Sussex begins rolling.
11:00 I take tests 1-6 on new access road.
12:00 Lunch.
12:30 Sussex begins placing topsoil on slope of new access ramp.
15:30 Sussex continues to place topsoil on slope of new access ramp.
16:30 Sussex quits work for day. I leave site.

Place lift on new access ramp and place topsoil on slope of access ramp.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1.	new access		-	23.2	101.5	93.1	P
2.	road south slope		-	24.4	99.5	91.3	P
3.	717C		-	21.8	101.4	93.0	P
4.	717C		-	20.6	100.7	92.4	P
5.	access road top		-	22.6	99.2	91.0	P
6.	717C & 717A		-	22.2	102.4	94.2	P

Note: Tests 1-6 were conducted on access road and are not considered part of clay cap.

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles L. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-136	DATE:	11/16/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 60's-70's	EQUIPMENT:	235 Shovel, 4-DJB's, D-6 Dozer, D-3 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex continues to place topsoil on slope of new access ramp.
07:45 The finish placement of topsoil. They begin to grade ramp and topsoil. Sussex also begins rolling lift on west slope of 717D that was placed.
10:00 Sussex begins placing topsoil on south slope of 717C in area above new access ramp.
12:00 Lunch.
12:30 Sussex continues to place topsoil on 717C.
15:00 They continue to place topsoil. I leave site.

Place topsoil on 717C.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-137	DATE:	11/17/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, windy, 50's-60's	EQUIPMENT:	235 Shovel, 4-DJB's, D-6 Dozer, Motor Grader

ACTIVITIES SUMMARY

07:15 I arrive on site. Sussex continues to place top soil on 717C.
08:00 They finish placing topsoil and begin grading it for drainage.
10:00 Sussex begins lift on west slope of 717D.
15:00 They complete lift on west slope 717D and begin rolling it.
16:30 Sussex quits work for today. I leave site.

Place topsoil on 717C and clay cap on west slope 717D.

FIELD DATA - None

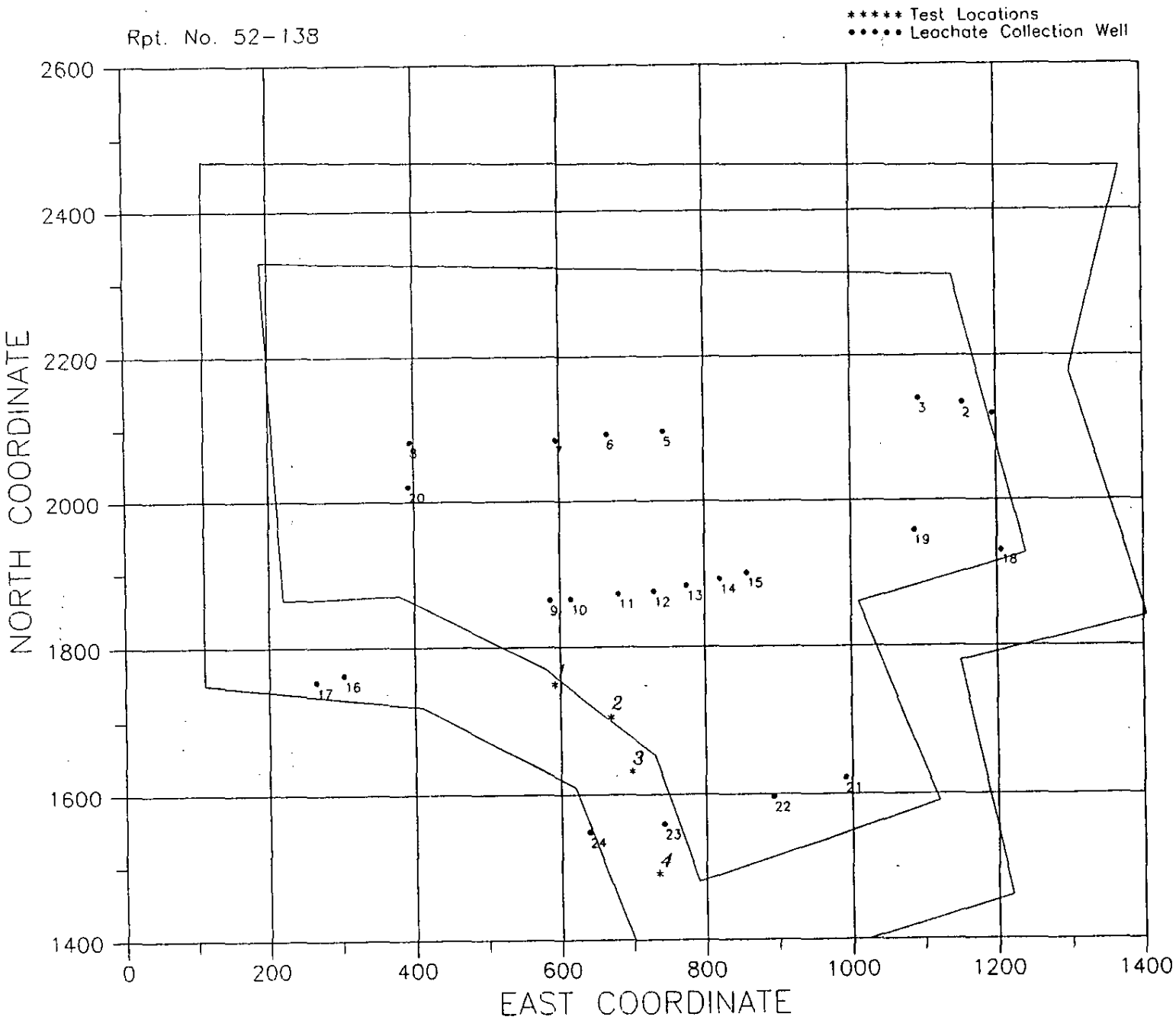
LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER _____

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-138



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-138	DATE:	11/18/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, Windy, 50's-70's	EQUIPMENT:	235 Shovel, 4-DJB's, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

09:00 I take tests 1 - 4 on west slope 717D.
10:00 They begin placing lift over west slope 717D.
12:00 Lunch.
13:00 They continue with lift on west slope 717D.
14:30 Sussex stops lift on south side of LC-23 and begins placing lift at shoulder of slope of 717D.
16:00 They are still working along shoulder of 717D.
16:30 Sussex quits work for day.
17:00 I leave site.

Place cap on 717D.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1750	592	108.0	20.7	105.8	97.0	P
2	1706	670	107.4	21.9	102.8	94.3	P
3	1632	698	107.9	20.2	106.0	97.2	P
4	1491	735	107.1	21.4	101.4	93.0	P

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-139	DATE:	11/21/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 40's - 70's	EQUIPMENT:	-

ACTIVITIES SUMMARY

09:00 Brown & Butler lays out ditch on 717D and sets grade. They also will cross-section new access road. They also set grade on 717D cap.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-140	DATE:	11/29/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 60	EQUIPMENT:	D-6 Dozer, 235 Backhoe, DJB's

ACTIVITIES SUMMARY

07:00 I arrive on site.
10:00 Sussex begins stripping limestone from old access roads of 717. They haul this to Cell 901.
12:00 Lunch
12:30 They continue to strip limestone from access road.
13:00 Sussex begins to strip approximately 1" of material from slopes of access roads. They haul this material to 901 also.
15:30 Sussex quits work for day. They hauled 15 loads of limestone and 14 loads of dirt to Cell 901.
16:30 I leave site.

Sussex strips limestone from old access roads.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-141	DATE:	12/1/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 30's - 50's	EQUIPMENT:	235 Shovel, 4-DJB's, D-6 Dozer

ACTIVITIES SUMMARY

07:30 I arrive on site.
08:30 Sussex begins lift on south end of west slope of 717D.
11:00 They are still placing lift on west slope of 717D.
12:00 Lunch.
12:30 Sussex continues to place lift on west slope of 717D.
14:15 They finish lift on west slope of 717D. They do not roll lift. Will do so later.
17:00 I leave site.

Place lift on west slope 717D.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-142	DATE:	12/5/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 30's - 60's	EQUIPMENT:	235 Backhoe, 1 DJB, D-6 Dozer

ACTIVITIES SUMMARY

07:00 I arrive on site.
10:00 Sussex begins removing remaining limestone from old access roads.
13:00 Sussex begins working lift placed on west slope 717D. They also begin stockpiling topsoil at shoulder of 717B.
15:00 Sussex continues to work on west slope of 717D. They are shaping it up so it can be compacted.
16:00 They continue to rework this area to bring it close to grade.
16:30 Sussex finishes work for the day.
17:00 I leave site.

Work on west slope 717D.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-143	DATE:	12/6/88
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 30's - 60's	EQUIPMENT:	D-6 Dozer

ACTIVITIES SUMMARY

07:30 I arrive on site.
09:00 Sussex begins to dress up west slope 717D to bring it up to grade.
11:00 They continue to dress up west slope 717D.
12:00 Lunch.
14:00 Sussex continues to work west slope 717D.
15:30 They finish work in this area.

Bring west slope 717D to grade.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-144	DATE:	1/26/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	M. Caldwell
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	-	EQUIPMENT:	D-6 Dozer

ACTIVITIES SUMMARY

08:00 Dozer placing cover soil on 717B south slope.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Michael Caldwell ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-145	DATE:	1/31/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	M. Caldwell
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	-	EQUIPMENT:	D-6 Dozer, 3 DJB's, Roller

ACTIVITIES SUMMARY

07:30 Arrive on site. Sussex hauling material from Western Tract borrow pit to bring cap to grade in places where Brown and Butler determined to be low.
10:00 Continuing to work on this area.
12:00 Finished work in this area.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Michael Caldwell ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-146	DATE:	2/21/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear-Partly Cloudy, 50's-60's, Rain in Afternoon	EQUIPMENT:	D-6 Dozer, 3 DJB's, 235 Backhoe

ACTIVITIES SUMMARY

07:10 I arrive on site.
08:30 Sussex begins lift on 717D south of LC-21 & 22. This area is still a little low on clay cap. They are bringing this area to grade and also to begin building the ditches.
10:00 They continue this work.
12:00 Lunch.
13:00 It begins to rain and Sussex is unable to continue to work.

Place lift on 717D.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER _____

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-147	DATE:	2/22/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cold, Windy, 30's-40's	EQUIPMENT:	D-6 Dozer, 3 DJB's, 235 Shovel, Vibratory Roller

ACTIVITIES SUMMARY

07:10 I arrive on site.
07:15 Sussex continues with lift on 717D south of LC-21 & 22. They roll this lift as they place it.
10:00 They continue to place lift on 717D.
12:00 Lunch.
12:30 Sussex continues to place lift on 717D.
13:30 Sussex finishes lift on 717D. No further work on 717 will be done today.
16:00 I leave site.

Place lift on 717D.

FIELD DATA - None

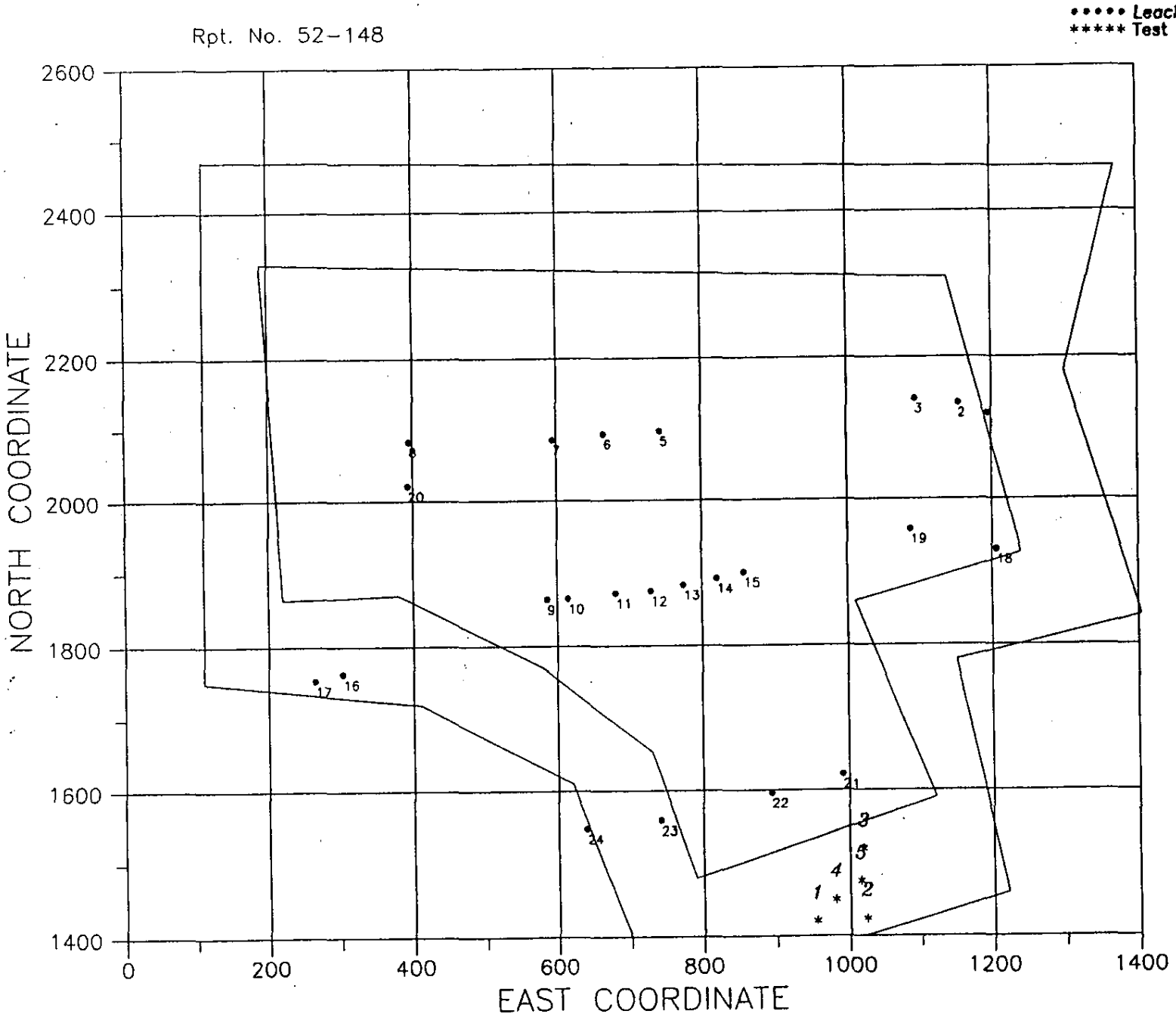
LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-148



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-148	DATE:	2/23/89
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	G. Taylor
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, Windy, 30's	EQUIPMENT:	-

ACTIVITIES SUMMARY

07:00 Arrive on site.
09:00 Tests 1-5 with Troxler. Take sample T.P. 2-23-5.
09:30 Sussex placing new lift.
13:00 Continue placing lift and rolling
15:30 Sussex stops work. Complete lift tomorrow.
16:00 Leave site.

Test and sample existing lift, partially complete next lift.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1421	954	86.5	19.8	104.2	95.6	P
2	1424	1023	85.2	22.3	98.2	90.1	P
3	1519	1019	108.2	18.8	107.0	98.1	P
4	1450	980	93.3	21.8	100.6	92.3	P
5	1475	1015	103.1	17.2	111.5	102.3	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
5	43/25	1.0×10^{-8}	17.9	110.1	-

INSPECTOR Thomas A. Vreeland for C. Taylor ENGINEER Charles R. Jarvis

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-149	DATE:	2/24/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	G. Taylor
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 20's-50's	EQUIPMENT:	'88 Pick-Up, Backhoe

ACTIVITIES SUMMARY

07:00 Arrive on site.
08:00 Backhoe excavating at base of east berm, east slope, to expose underlying liner for future tie-in.
11:45 Lunch.
13:00 Continue excavation.
14:00 Backhoe stops excavation, dozer begins to place lift using excavation material on east slope of east berm.
16:30 Sussex ends work for the day.

Excavated material from toe of east berm and spread this material over east slope of east berm.

FIELD DATA - None

LABORATORY DATA - None

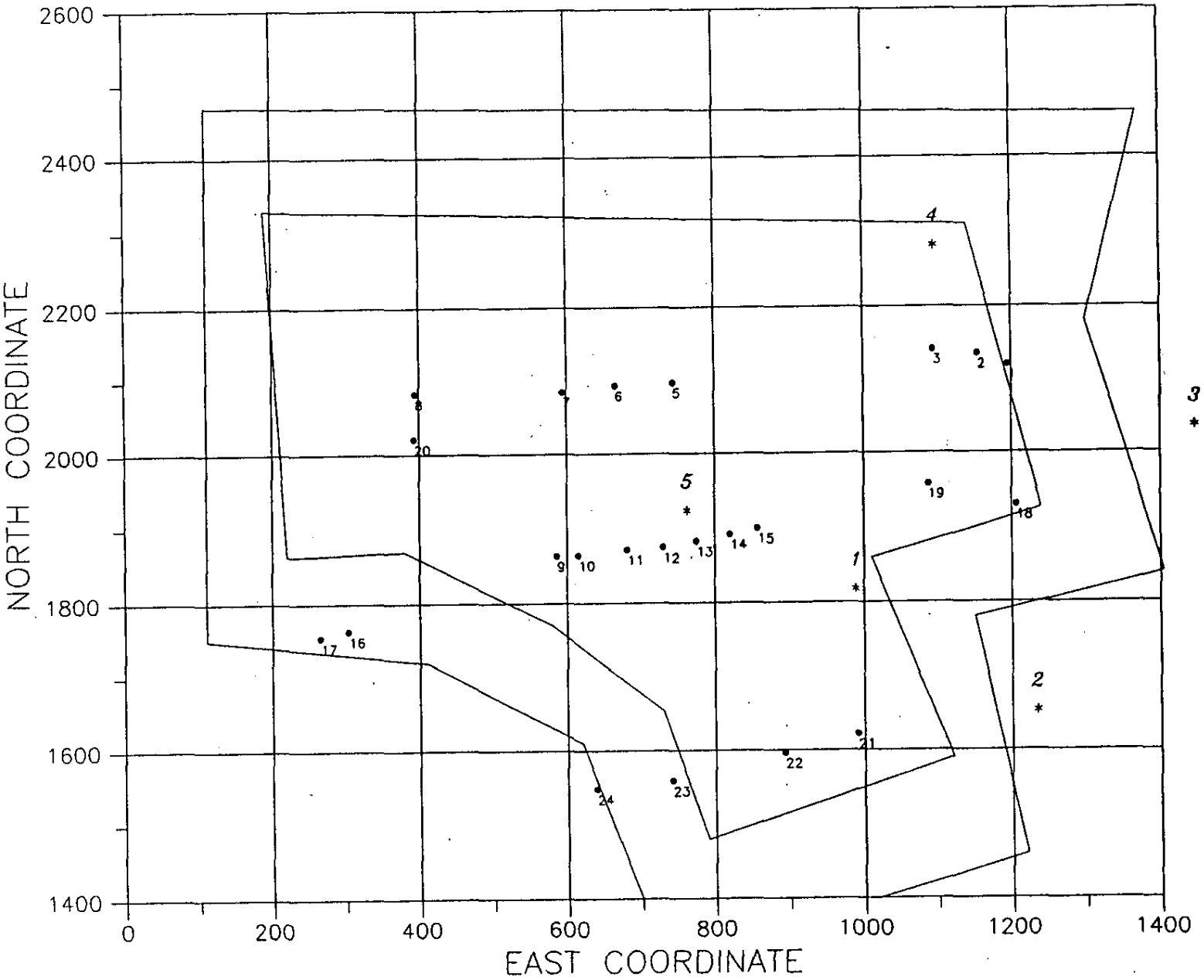
INSPECTOR Gary Taylor ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-150

••••• Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-150	DATE:	2/27/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	G. Taylor
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 60's-70's	EQUIPMENT:	'88 Pickup

ACTIVITIES SUMMARY

07:30 Arrive on site. Sussex continue placing lift that was started on 2/23.
11:00 Tests 1 - 3.
11:45 Lunch.
12:30 Dozer working large mound of material on 717. Roller working.
14:00 Tests 4 - 5.
15:30 Sussex stops for the day.
16:00 Survey new location for test location shots.
16:30 Leave site.

Complete lift that was started on 2/23. Test lift.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1818	989	119.2	19.9	106.4	97.6	P
2	1653	1234	118.3	20.1	108.3	99.3	P
3	2035	1446	118.0	21.3	98.5	90.4	P
4	2281	1096	120.8	19.8	109.0	100.0	P
5	1924	763	118.7	19.7	106.3	97.5	P

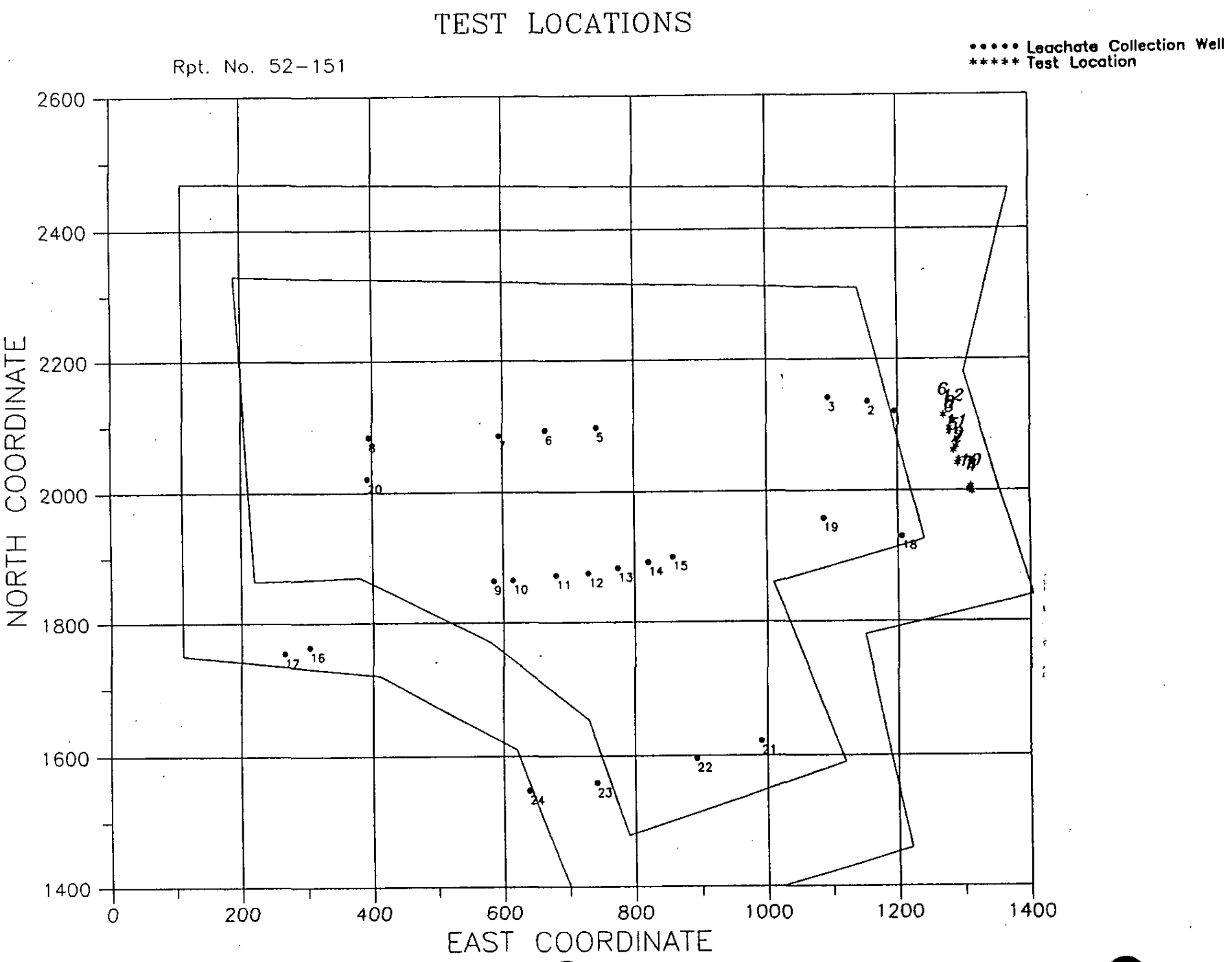
LABORATORY DATA - None

INSPECTOR Gary Taylor ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-151



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-151 (page 1 of 2)	DATE:	3/1/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	G. Taylor
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 50's, slight wind	EQUIPMENT:	-

ACTIVITIES SUMMARY

08:00 Travel from office to Rollins.
08:30 Three nuclear density tests at excavated toe of east berm east slope. Brown & Butler surveyed test points. Samples T.P. 3-1-1 and T.P. 3-1-3.
09:15 Sussex begins placing lift in excavated area of east berm, east slope.
09:45 Light rain begins to fall; Sussex continues.
10:00 Rain stops.
10:30 Tests 4 - 6, Sussex begins to lay another lift.
11:30 Sussex goes to lunch. I do tests 7 - 9.
12:00 Lunch.
12:30 Sussex begins placing lift.
14:00 Tests 9 - 12.
14:30 Sussex ends backfilling excavation @ base of east berm.
15:00 I leave site.

Backfill tie-in excavation trench at base of east berm.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	2000	1309	77.3	23.3	100.0	91.7	P
2	2041	1291	76.6	22.9	98.4	90.3	P
3	2088	1279	76.6	19.0	108.8	99.8	P
4	1998	1313	79.5	15.5	113.1	103.7	F
5	2060	1285	78.0	19.8	105.1	96.4	P
6	2114	1269	78.9	19.0	107.0	98.1	P
7	2002	1310	80.1	18.9	112.7	103.4	P
8	2094	1279	79.6	20.0	103.3	94.7	P
9	2046	1293	79.2	19.1	107.0	98.1	P
10	2006	1311	81.0	20.6	106.7	97.9	P
11	2066	1289	80.2	21.3	104.4	95.8	P
12	2104	1284	79.9	15.2	110.5	101.3	F

INSPECTOR Greg Taylor ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

Report No. 52-151 (page 2 of 2)

LABORATORY DATA

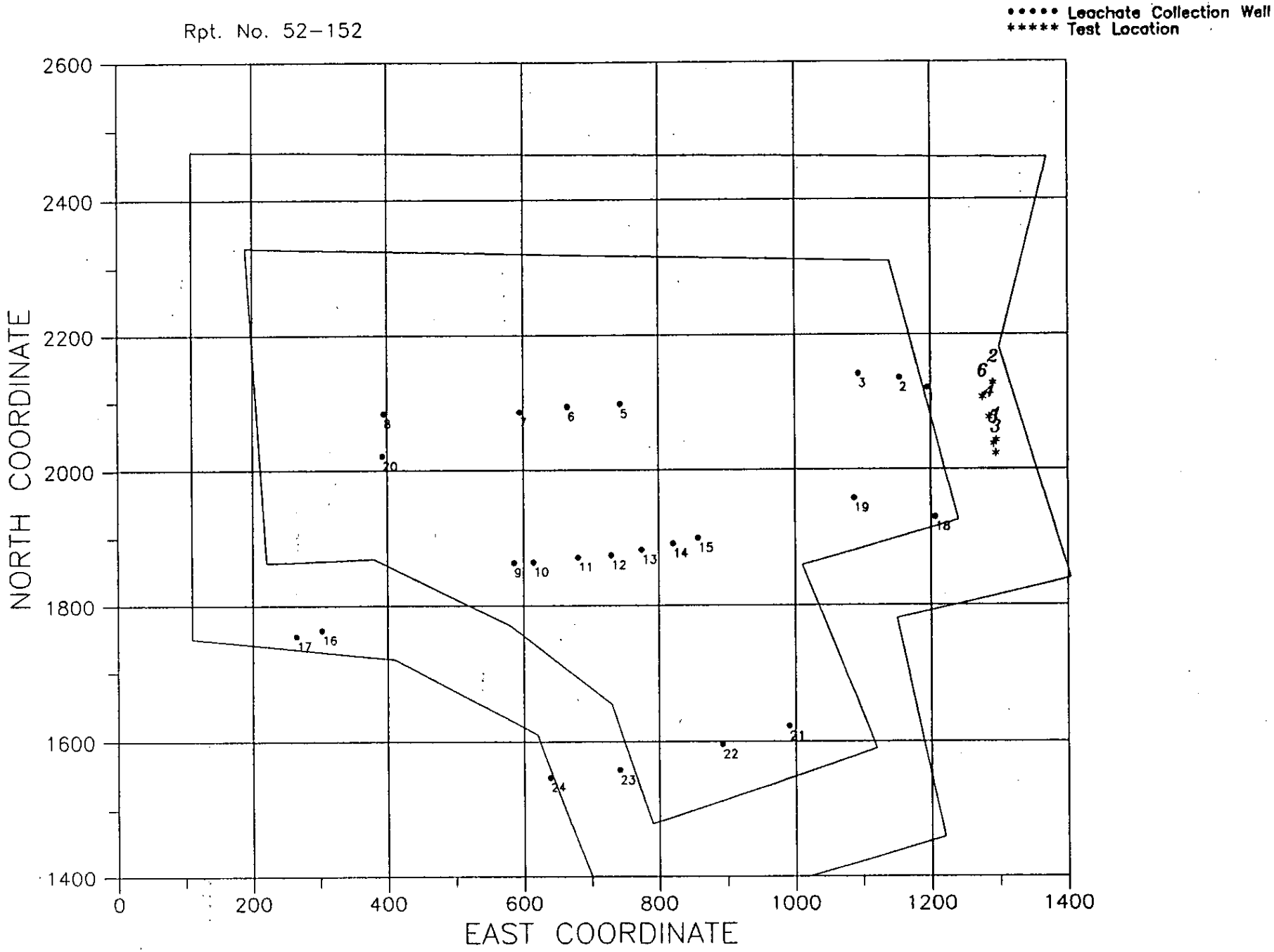
Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
1	43/22	5.0×10^{-8}	23.1	99.0	-
3	42/27	2.0×10^{-9}	21.0	106.2	-

INSPECTOR Greg Taylor ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-152



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-152 (page 1 of 2)	DATE:	3/8/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 60's	EQUIPMENT:	3 DJB's, Compactor, D-6 Dozer, Loader

ACTIVITIES SUMMARY

10:00 D-6 Dozer and 3 DJB's hauling clay to vertical liner tie-in one east side.
11:30 Two tests on vertical liner passed (#'s 1 & 2).
12:00 Lunch.
12:40 Sussex placing another lift on vertical liner.
13:15 Two density tests passed (#'s 3 & 4).
13:28 Sussex placing another lift on vertical liner.
13:50 Loader is removing concrete from around electrical box north of well D-5.
14:15 Two tests passed (5 & 6). Perm & Att. samples at Test Point 3-8-6. Triad extending electrical conduit over vertical liner.
15:45 Shoot location of electrical conduit across liner.
16:30 I left site.

Sussex placed 3 lifts on vertical liner on east side of Cell 717.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	2042	1296	86.4	23.5	102.5	93.5	P
2	2127	1291	86.6	23.1	103.9	95.3	P
3	2023	1295	87.3	21.6	107.0	98.1	P
4	2076	1285	87.2	20.5	104.9	96.2	P
5	2037	1292	88.1	21.2	103.0	94.5	P
6	2106	1276	87.8	20.9	105.2	96.5	P

INSPECTOR Stewart Wintheiser ENGINEER _____

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

Report No. 52-152 (page 2 of 2)

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
6	46/29	1.0×10^{-6}	20.9	105.4	-

INSPECTOR Edward D Winterer ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-153	DATE:	3/9/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:		EQUIPMENT:	

ACTIVITIES SUMMARY

09:00 On 3/8/89 Sussex dug a ditch from LC-23 to the leachate control shack so that piping from LC-23 could be placed. E. Lutz (RES) requested that I look at the ditch to see if it was below the 3' clay cap. Numerous shots were taken with the level and at no point was the ditch deep enough. Mr. Lutz made the decision to place the pipe in the ditch and backfill it. The pipe will be dug out at a later time and the area recompacted. This was being done to provide access to place clay liner in Cell 904.

FIELD DATA - None.

LABORATORY DATA - None.

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-154	DATE:	3/13/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 70's	EQUIPMENT:	235 Backhoe, D-6 Dozer

ACTIVITIES SUMMARY

12:40 Backhoe and D-6 Dozer are cutting east slope of 717A at 3:1 slope and exposing clay liner for cap tie-in.
16:15 Sussex done for the day.
16:30 I left site.

Sussex cut east slope of 717A at 3:1 and exposed clay liner for cap tie-in.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Steven D Wintheiser ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-155	DATE:	3/14/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 70's	EQUIPMENT:	-

ACTIVITIES SUMMARY

07:03 I arrived on site. Sussex D-6 Dozer and 235 Backhoe are shaping east slope of 717A at 3:1. Exposing clay liner on east side and north levee.
12:00 Lunch.
12:40 Backhoe and DJB are removing material from northeast corner and filling low spot on east face.
13:25 Sussex done for the day.

Sussex shaped east slope of 717A at 3:1 and exposed clay liner.

FIELD DATA - None

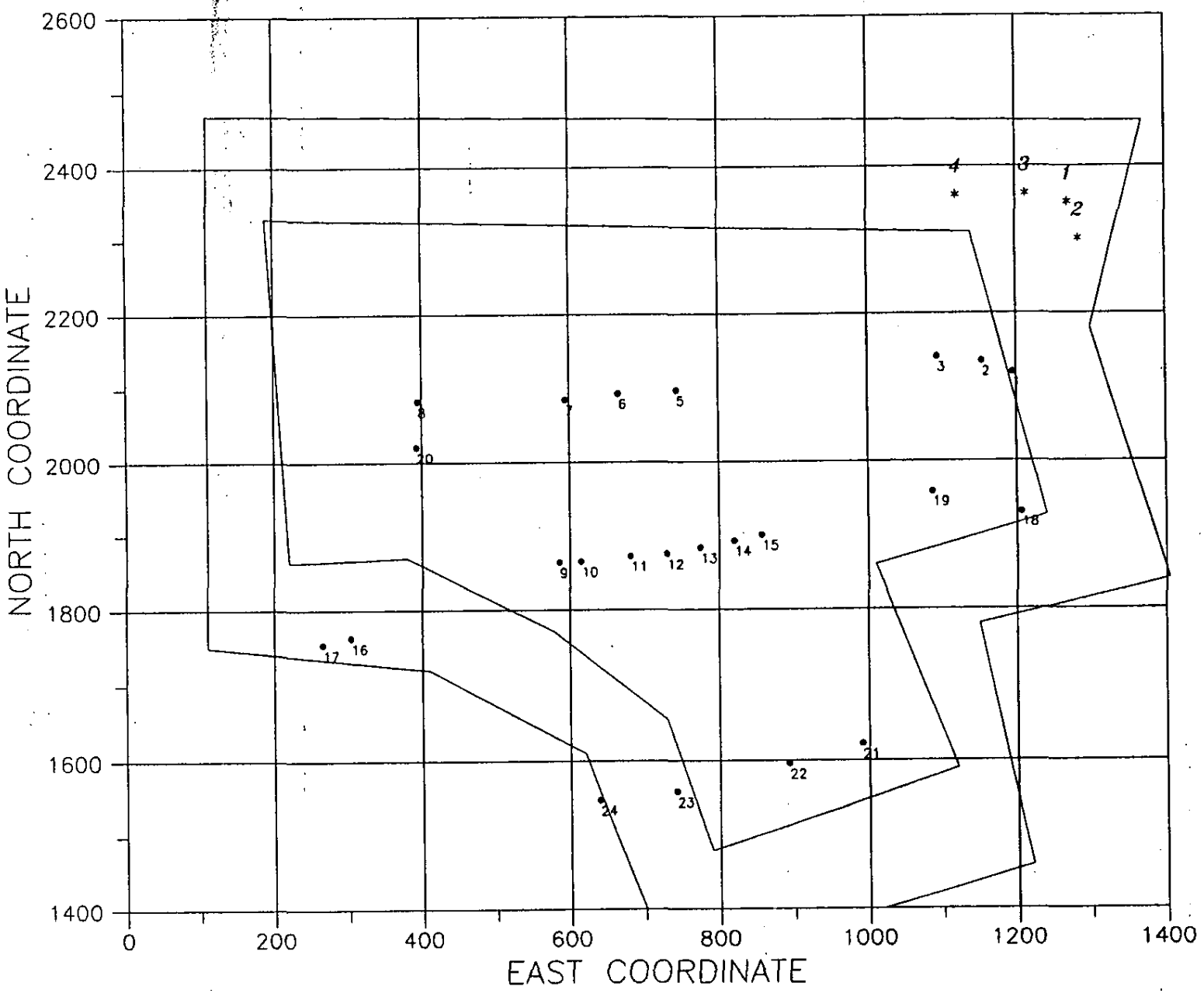
LABORATORY DATA - None

INSPECTOR Steven D Wintheiser ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-156



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-156	DATE:	3/15/89
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	S. Wintheiser
PROJECT NO:	87B052	CONTRACTOR:	Sussex, Brown & Butler
WEATHER:	Partly Cloudy, 70's	EQUIPMENT:	D-3 and D-6 Dozers

ACTIVITIES SUMMARY

08:30 Brown & Butler surveying location of ditch on top of 717A.
12:40 Sussex D-3 is cutting ditch to excavation grade on top of 717A.
13:50 Sussex D-6 is cutting ditch to excavation grade on top of 717A. Two tests on both east 717A vertical liner and north 717A liner passed. Perm, Atterberg, and Hydro samples taken at T.P. 3-15-2 and 3-15-4.
15:30 Sussex done for the day.

Brown & Butler surveyed location of ditch on top east side of 717A. Sussex started excavating ditch to waste grade.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	2350	1270	79.6	19.1	105.7	97.0	P
2	2300	1285	78.9	21.7	103.5	94.9	P
3	2362	1213	79.4	18.0	103.0	94.5	P
4	2360	1120	79.5	19.5	106.8	98.0	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
2	53/36	1.9×10^{-9}	24.3	99.2	*
4	46/30	9.0×10^{-10}	17.9	109.7	*

*Hydrometer Analyses

Point No.	% Sand	% Silt	% Clay
2	2	52	46
4	0	51	49

INSPECTOR Thomas A. Vreeland for S. Wintheiser ENGINEER Claude R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-157	DATE:	3/16/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex, Brown & Butler
WEATHER:	Clear, 80's	EQUIPMENT:	D-3 & D-6 Dozers, Motor Grader

ACTIVITIES SUMMARY

08:45 Sussex D-3 excavating ditch on east top of 717A.
09:05 Brown & Butler surveying clay liner on east and north sides of 717A.
12:00 Lunch.
12:40 D-6 cutting ditch and shaping east slope of 717A at 3:1 slope.
15:30 Sussex done for the day.

Brown & Butler surveyed location of clay liner on north and east sides of 717A. Sussex cut perimeter drainage ditch on top of east side of 717A.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Steven Wintheiser ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-158	DATE:	3/17/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 80's	EQUIPMENT:	-

ACTIVITIES SUMMARY

09:00 I arrived on site. Two DJBs and D-6 placing fill on east top of 717D to build drainage ditch. Brown & Butler cross-sectioning east slope of 717A.
11:15 Two DJBs and D-6 placing first lift on 717A at drainage ditch.
12:00 Lunch.
12:35 Same as at 11:15.
15:30 Sussex done for the day.

Brown & Butler cross-sectioned east slope of 717A. Sussex placed first lift of clay cap in east ditch of 717A.

FIELD DATA - None

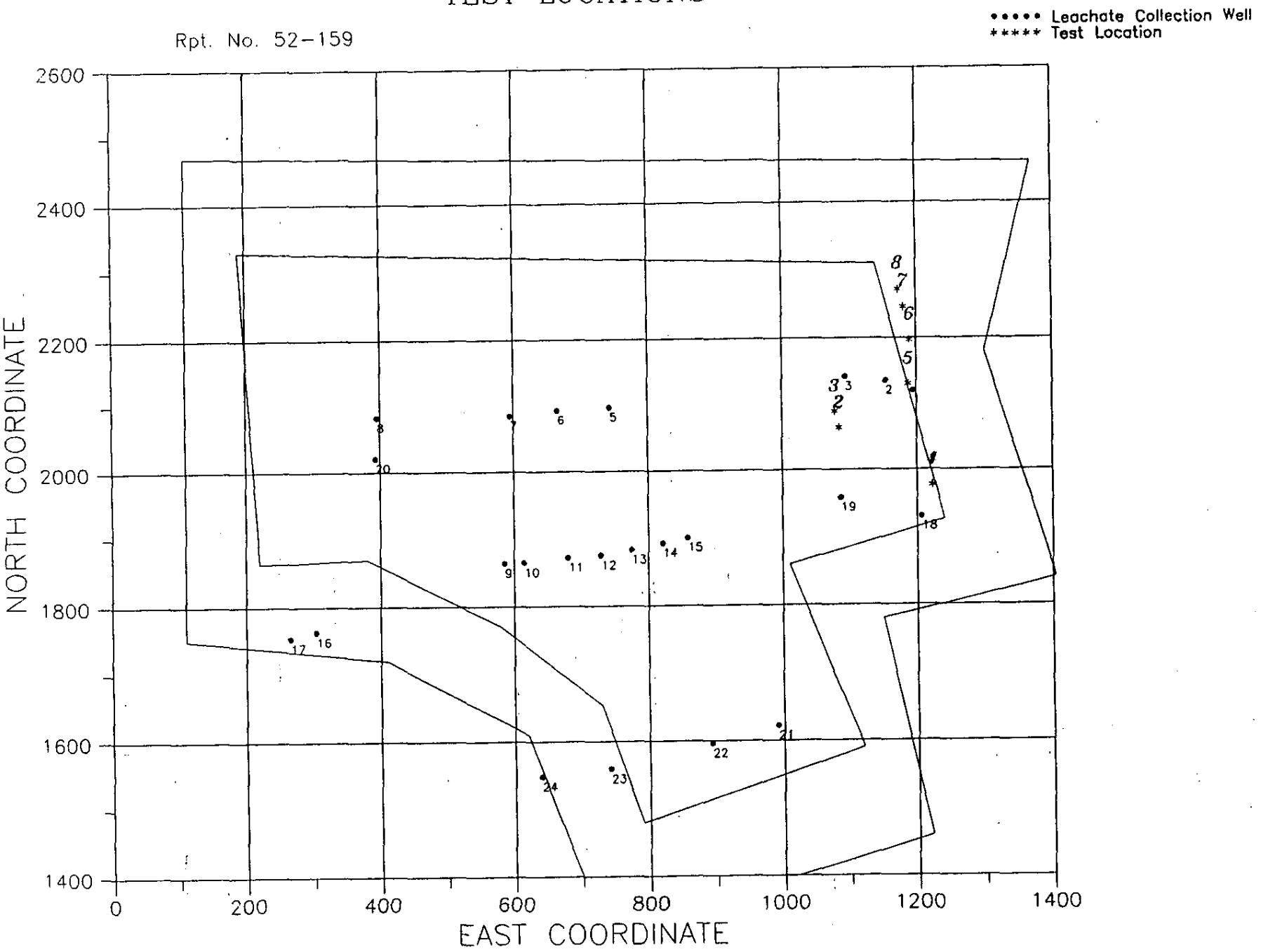
LABORATORY DATA - None

INSPECTOR Steven D Wintheiser ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-159



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-159	DATE:	3/20/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 70's	EQUIPMENT:	D-6 Dozer, Motor Grader, 4 DJBs, Vibratory Roller

ACTIVITIES SUMMARY

07:15 I arrived on site. DJBs and D-6 are placing first lift of clay cap on east slope of 717A.
08:00 Compactor is rolling ditch (first lift) on east top of 717A. Motor grader is scarifying existing exposed clay liner to tie-in first lift of clay cap.
11:15 I took three tests on south half of 717A east slope. One test (#1) failed. Compactor is rerolling this area.
12:00 Lunch.
12:40 Sussex continuing first lift on east slope. Test (#4) of failed area passed after being rerolled.
14:50 Four tests on north half of east slope passed (Test numbers 5 - 8).
15:15 Sussex done for the day.

Sussex placed first lift of clay cap on east slope of 717A.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1977	1222	103.1	22.2	94.7	86.9	F
2	2064	1085	105.5	22.3	98.2	90.1	P
3	2089	1079	106.3	21.0	100.3	92.0	P
4	1977	1222	103.1	22.1	99.5	91.3	P
5	2130	1188	105.5	22.1	99.5	91.2	P
6	2196	1190	105.2	21.5	105.2	96.5	P
7	2245	1181	104.0	22.0	99.3	91.1	P
8	2271	1173	103.9	22.5	98.2	90.1	P

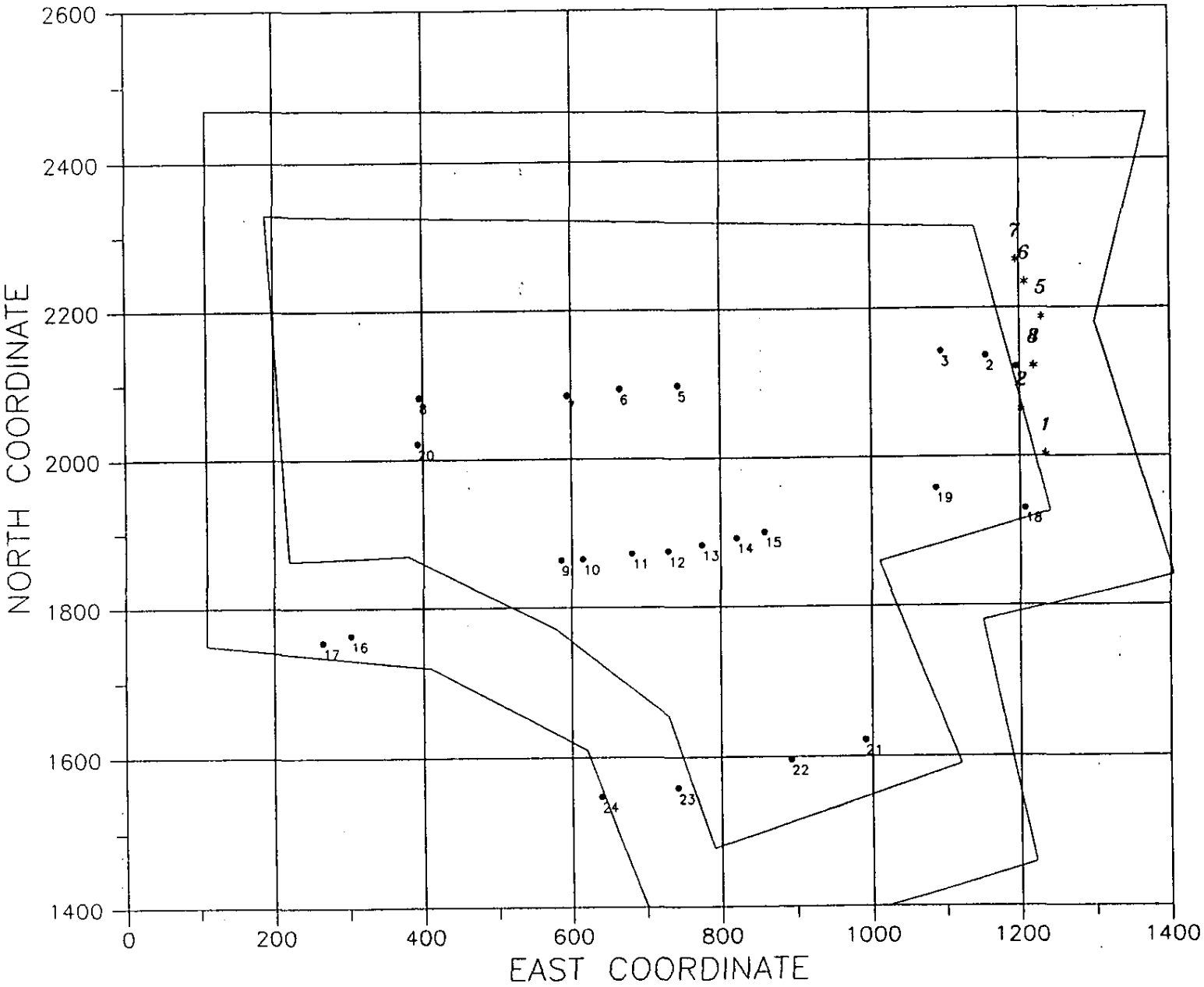
LABORATORY DATA - None

INSPECTOR Steven D Wintheiser ENGINEER Jack C. [illegible]

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-160



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-160	DATE:	3/21/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 70's, Precip. = .03	EQUIPMENT:	D-36 & Fiat Dozers, 4 DJBs, 235 Shovel, Vibratory Compactor

ACTIVITIES SUMMARY

07:05 I arrive on site. Four DJBs and D-6 Dozer are placing second lift on east slope of 717A. Compactor is rolling.
11:05 I took three test on south half of east slope. Northern most test (below well) failed. Area is too wet.
12:00 Lunch. Started raining @ 12:20.
12:40 Fiat Allis Dozer placing fill on north half of slope.
12:50 Rain stopped.
13:10 DJBs hauling fill from 904, starting third lift form south end of slope.
13:40 Showers starting again. Sussex continues hauling.
14:25 I took four test on north half of slope second lift. Test #4, in area of failure this morning, failed again. Compactor is rerolling.
14:50 Retest of failed area passed (#8).
16:30 Sussex done for the day.

Sussex completed second lift and started third on east slope of 717A.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	2003	1234	105.9	24.0	100.3	92.0	P
2	2063	1202	107.5	21.6	99.1	90.9	P
3	2121	1218	-	25.7	93.9	86.2	F
4	2121	1218	-	27.1	96.2	88.3	F
5	2187	1229	104.3	24.8	101.0	92.6	P
6	2234	1207	106.6	22.4	99.9	91.6	P
7	2264	1195	103.4	21.9	100.4	92.1	P
8	2121	1218	104.3	21.9	102.6	94.1	P

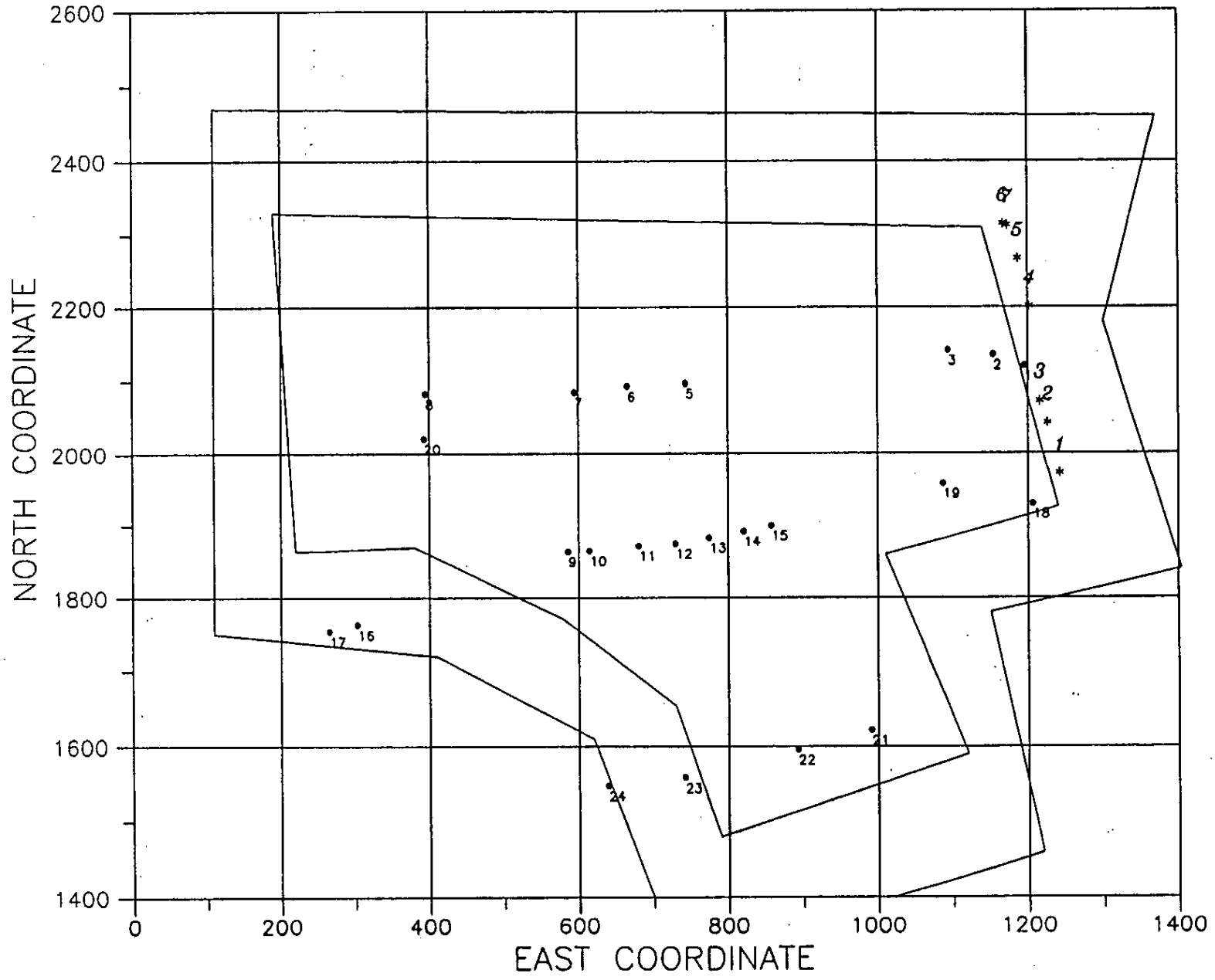
LABORATORY DATA - None

INSPECTOR [signature] for S. Wintheiser ENGINEER [signature] for Charles E. Furlow

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-161



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-161	DATE:	3/27/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 80	EQUIPMENT:	D-6 Dozer, DJB's, 235 Shovel, Vibratory Roller

ACTIVITIES SUMMARY

06:50 I arrived on site.
07:10 D-6 Dozer is blading middle of east slope of 717-A. Portion of last lift was not rolled prior to rain last week and is very wet. Vibratory roller is working south 1/2 of slope.
08:30 Three tests (#1-3) on south 1/2 of slope passed.
10:20 Rollins laborers are extending PVC & CMP around Well LC-1 at center of east slope of 717-A.
10:50 D-6 moved to fill wash-out ruts on south slope of 717-D.
11:05 Three tests (#4-6) on north 1/2 of east slope 717-A passed. Center section was left open to dry and remains to be rolled and tested.
12:00 Lunch
12:40 D-6 continues working on south slope of 717-D.
13:20 Compactor rolling 717-D south slope. D-6 placing 2nd lift on 717-A north liner tie-in.
14:50 Test on 717-A north liner tie-in passed. Compactor rolling center portion of east slope. D-6 is spreading a lift along east top of 717-A at ditch.
15:30 Sussex done for the day.
15:50 I left site.

Sussex placed a lift on 717-A east slope and filled wash-out ruts on 717-D south slope.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1973	1242	102.4	18.5	107.3	98.4	P
2	2043	1226	102.5	19.6	105.4	96.7	P
3	2073	1216	104.1	21.4	104.0	95.4	P
4	2201	1202	99.9	21.0	98.9	90.7	P
5	2267	1187	104.4	21.2	102.3	92.8	P
6	2315	1167	100.8	22.9	100.8	92.5	P
7	2313	1173	100.5	22.6	99.6	91.4	P

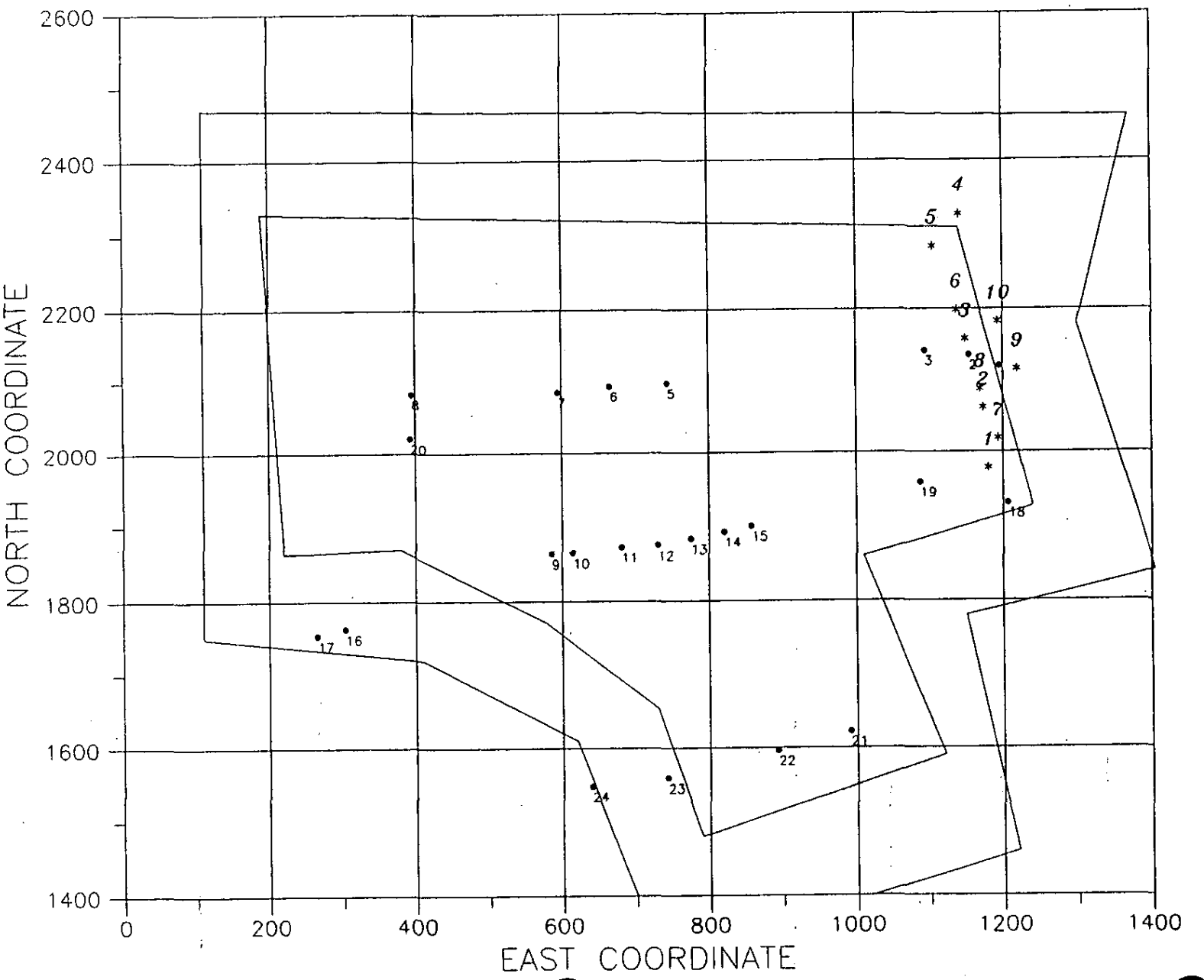
LABORATORY DATA - None

INSPECTOR Steven D Wintheiser ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-162



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-162	DATE:	3/28/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 50's	EQUIPMENT:	D-6 Dozer, DJB's, Vibratory Compactor

ACTIVITIES SUMMARY

07:00 I arrived on site.
07:05 D-6 is spreading a lift along top of east slope of 717-A at ditch. Compactor is rolling center section of east slope.
09:15 Three tests on south 1/2 of 717-A east ditch passed.
11:10 Two tests on north 1/2 of 717-A east ditch passed (#4&5). And one test on north liner tie-in passed (#6). Brown & Butler is cross-sectioning east slope of 717-A.
12:00 Lunch
12:35 D-6 continuing w/another lift along east top of 717-A at ditch.
14:40 Two tests each on south top and center of east slope (which failed previously) passed. Perm, Att & Hydro at T.P. 3-28-10 east slope.
15:15 Sussex done for the day.

Sussex placed lifts on top of east slope of 717-A at ditch at north liner tie-in.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1978	1180	113.4	20.1	104.1	95.5	P
2	2062	1173	114.4	18.3	106.6	97.8	P
3	2158	1149	113.7	23.2	102.0	93.6	P
4	2327	1141	102.3	22.0	100.4	92.1	P
5	2284	1105	113.2	21.5	104.5	95.8	P
6	2198	1137	113.6	20.6	103.2	94.6	P
7	2019	1193	114.1	22.4	99.2	91.0	P
8	2088	1169	114.8	22.2	104.3	95.7	P
9	2116	1219	98.1	19.8	103.7	95.1	P
10	2182	1193	105.1	18.2	105.4	96.7	P

INSPECTOR Steven D Wintheiser ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

Report No.: 52-162

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
10	41/25	1.1×10^{-9}	19.3	106.2	-

INSPECTOR Steven D. Winterhalter ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-163	DATE:	3/29/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Rain, 70's	EQUIPMENT:	-

ACTIVITIES SUMMARY

07:00 I arrived on site. Rain threatening.
07:20 Started raining. Waiting on rain.
08:30 I left site.

Started raining - no work.

FIELD DATA - None

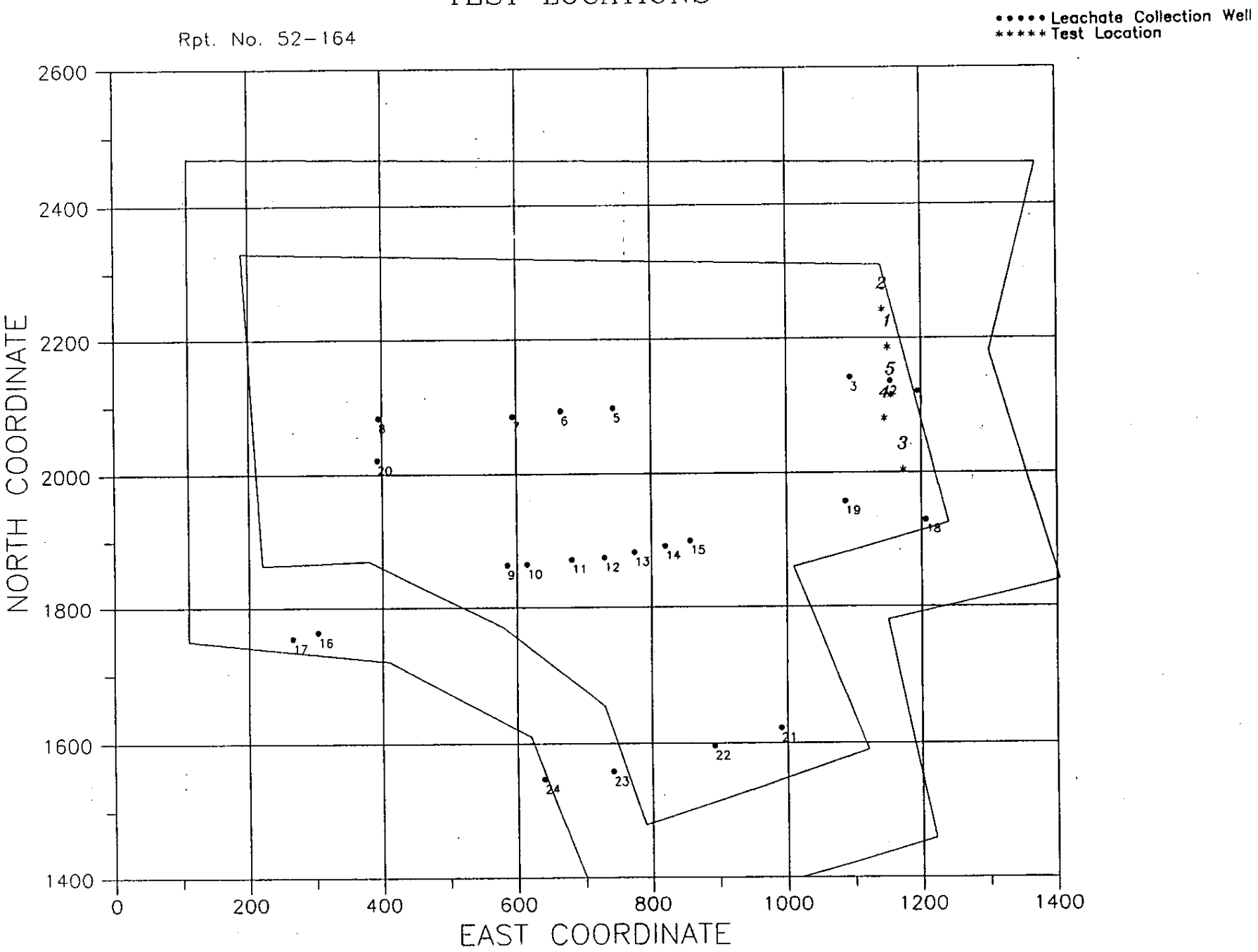
LABORATORY DATA - None

INSPECTOR Steven D Wintheiser ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-164



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-164	DATE:	3/31/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 70's	EQUIPMENT:	D-6 Dozer, 3 DJBs, Vibratory Roller

ACTIVITIES SUMMARY

06:55 I arrived on site.
07:15 Vibratory Roller working east slope of 717A.
07:40 Two tests (1&2) on top of east slope north of LC-2 passed.
07:50 D-6 & DJBs placing another lift along top of slope.
08:20 Brown & Butler flagging clay cap grade on east slope.
11:15 Three tests on south half top of 717A passed (#3-5).
12:00 Lunch.
12:35 Sussex completing lift on north half top.
13:05 D-6 starting another lift on north liner tie-in on 717A.
15:30 Sussex done for the day. I left site.

Sussex placed lift on top of east slope of 717A.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	2186	1150	114.0	20.3	105.5	96.8	P
2	2242	1142	115.0	17.4	109.0	100.0	P
3	2004	1173	115.8	19.0	106.8	98.0	P
4	2080	1145	116.2	17.9	105.8	97.0	P
5	2114	1155	116.9	17.1	103.8	95.2	P

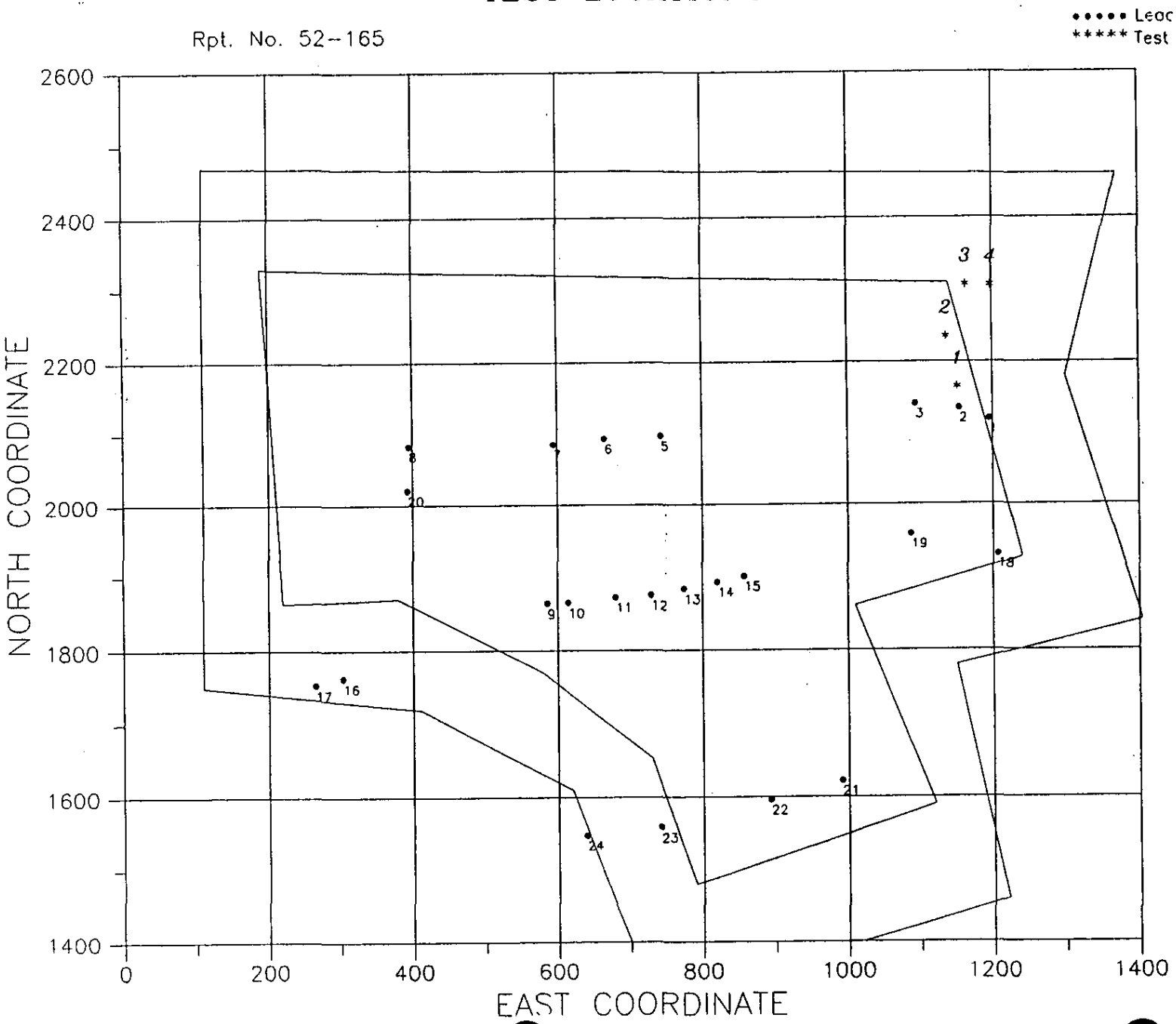
LABORATORY DATA - None

INSPECTOR Steven D Wintheiser ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52--165



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-165	DATE:	4/3/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick J. Lind
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 50's	EQUIPMENT:	-

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins placing lift on east slope of 717C and 717A. They also compact lift placed Friday afternoon on north end of 717A cap and on north end of 717A east slope.
09:15 Sussex continues to place lift on east slope. I take tests 1-4. All passed.
09:30 Jack Lind arrives on site.
10:10 Continue placing lift on east slope of 717C. Compaction as lift is place.
12:00 - 12:30 Lunch
13:00 Sussex continues to place lift on slope of 717A and 717C.
15:30 Sussex stops for day. I left site.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	2165	1152	116.7	19.2	106.5	97.7	P
2	2235	1137	116.6	21.5	103.6	95.1	P
3	2307	1164	107.3	19.8	106.6	97.8	P
4	2306	1198	96.5	20.0	104.9	96.2	P

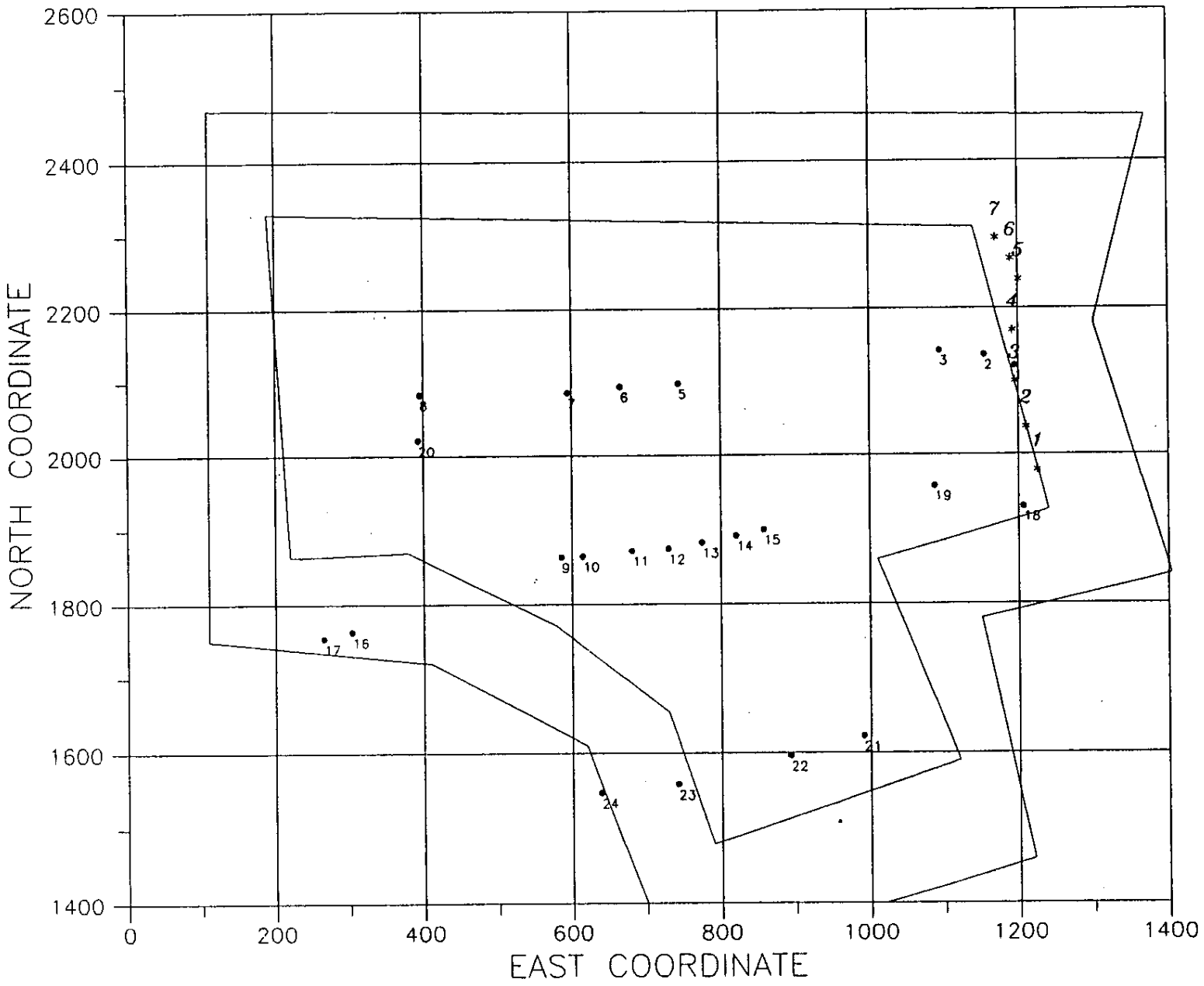
LABORATORY DATA - None

INSPECTOR T. Thomas A. Vrenick ENGINEER Jack Lind

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-166



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-166	DATE:	4/4/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	J. Lind
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 70	EQUIPMENT:	D-6 Dozer, DJB's Vibratory Roller

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:10 Sussex continues placing lift on east slope of 717A.
09:00 Take tests 1-4 on east slope of 717C and 717A. All passed.
09:30 Placing clay on north end of east slope. This lift on east slope will bring it to clay grade.
10:30 Stop bringing in fill for placement. D-6 grading it out.
10:50 Compacting lift.
11:20 Begin bringing in fill for placement on slope at northeast corner of 717A.
12:00-12:30 Lunch
12:45 Place some additional clay on northeast corner and blade to grade. Not compacting at this time.
13:15 Begin compaction on northeast corner. D-6 moves to 717D to start building ditch berms around crest of east & south slopes.
14:05 Take tests 5-7 on east slope of 717A.
14:45 Continue working on crest of south & east slopes of 717D.
15:10 Sussex stops for day.
15:30 B & B setting grade stakes on east slope of 717A & 717C.
16:00 I leave site.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1979	1225	108.1	22.0	100.6	92.3	P
2	2037	1210	107.9	20.2	105.0	96.3	P
3	2099	1195	111.1	19.7	105.3	96.6	P
4	2169	1192	109.4	19.9	100.8	92.5	P
5	2238	1201	108.8	20.2	100.8	92.5	P
6	2266	1190	107.7	22.1	100.4	92.1	P
7	2294	1170	107.2	22.5	100.8	92.5	P

LABORATORY DATA - None

INSPECTOR _____ ENGINEER Glen R. Landry

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-167	DATE:	4/5/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	J. Lind
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:		EQUIPMENT:	-

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:15 Site very wet from overnight rains. Waiting to hear word from Sussex as to possibility of working.
08:15 Mr. Brister said that they would not do any earthwork today. They are going to strip some topsoil.
08:30 Leave site.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Jack Lind ENGINEER Glen R. Landry

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-168	DATE:	4/6/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 70	EQUIPMENT:	D3 & D6 Dozers, 235 Shovel, DJB's, Vibratory Compactor

ACTIVITIES SUMMARY

12:50 I arrived on site. Tom informed me that sussex stripped topsoil while Brown & Butler cross-sectioned 717-A east slope clay cap this morning. Sussex D3 is presently placing clay cap at ditch on north top of 717-A to route ditch to drop pipe on north slope.

13:45 D6 & 3 DJB's are placing a lift along ditch on top of east slope of 717-A.

14:05 D6 is stripping top soil in south east corner of 717-A at top of slope to expose existing clay cap. Existing clay cap needs to be thickened in this area to get drainage in ditch.

15:30 Sussex done for the day.

16:10 B & B surveyed top of clay grade on south top of 717-A.

17:00 I left site.

FIELD DATA - None.

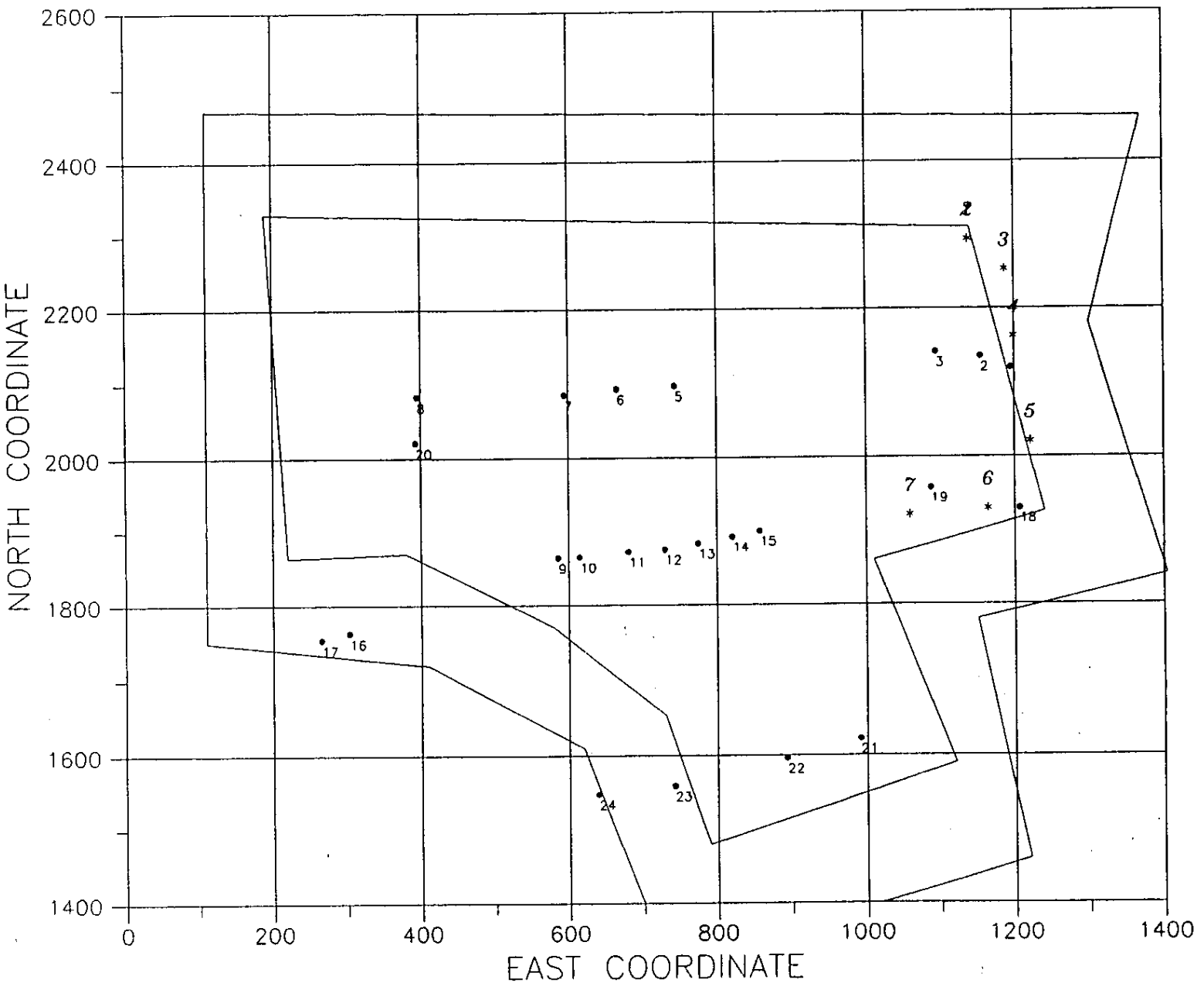
LABORATORY DATA - None.

INSPECTOR Steven D Wintheiser ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-169



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-169 (page 1 of 2)	DATE:	4/7/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 80°	EQUIPMENT:	2-D6, 1-D3 Dozers, 3-DJB's, Motor Grader, 235 Shovel, Vibratory Roller

ACTIVITIES SUMMARY

07:15 I arrived on site, D6 & 3 DJB's are placing a lift to bring east slope of 717-A to final clay grade.
07:55 2nd D6 is stripping top soil off existing clay cap on south top of 717-A.
09:45 Motor grader is scarifying existing clay cap on south top of 717-A prior to placing a new lift.
10:10 D6 placing 1st lift over existing cap on south side.
12:00-12:30 Lunch.
12:35 D6 placing 1st lift over existing cap on south side.
13:50 3 Tests on east slope passed. 1st test on north side of east slope failed, but retest passed.
14:40 D3 is re-cutting ditch on east top of 717-A.
15:05 Two tests on south top of 717-A passed. Sussex done for the day.
15:40 I left site.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	2293	1138	115.9	25.6	94.9	87.1	F
2	2293	1138	115.9	21.6	99.9	91.7	P
3	2252	1187	106.8	20.7	104.2	95.6	P
4	2162	1199	107.1	21.1	105.5	96.8	P
5	2021	1221	107.6	21.5	104.2	95.6	P
6	1930	1164	115.0	24.8	98.2	90.1	P
7	1922	1059	117.2	21.0	101.4	93.1	P

INSPECTOR Steven D Wintheiser ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

Report No. 52-169 (page 2 of 2)

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
3	43/25	1.0×10^{-6}	19.1	106.0	–

INSPECTOR Steven D. Winchester ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-170	DATE:	4/10/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Rain, 50's	EQUIPMENT:	3 DJBs, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:30 I arrived on site. Light rain falling. Site received .18" rain over weekend. Sussex placing a lift on southeast corner on top of 717A.
08:35 Sussex quit hauling clay due to rain.
09:00 I left site.
13:00 Brown & Butler cross-sectioned clay cap on east slope 717A. Sussex started placing topsoil on slope.

Sussex hauled clay to top of 717A for 1 hour. Rained-out until afternoon. Brown & Brown cross-sectioned east slope. Sussex started placing topsoil on 717A east slope.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Steven D Wintheiser ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-171 (page 1 of 2)	DATE:	4/11/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear	EQUIPMENT:	2 D-6 Dozers, 3 DJBs, 235 Shovel, Vibratory Compactor

ACTIVITIES SUMMARY

06:55 I arrived on site.
07:10 Sussex placing topsoil on east slope and top of 717A.
07:40 Test on southeast corner top of 717C, placed yesterday, passed.
08:50 Brown & Butler is surveying location and grade of ditch on south side of 717C.
09:45 D-3 Dozer is stripping topsoil over clay cap at bottom of southeast corner where existing cap was not thick enough.
10:50 235 Shovel loading topsoil from stockpile on top of 717 has moved to Western Tract to load 3 DJBs with clay cap material.
11:20 DJBs and D-6 are placing a lift along south top of 717C at ditch, second D-6 continues spreading topsoil on top of 717A. Brown & Butler on top of 717D surveying location of perimeter ditch.
12:00 Lunch.
12:35 Same activities as at 11:20.
14:07 D-6 placing a lift at 717C toe in southeast corner.
14:25 Two tests along 717C south ditch passed.
15:05 Test on 171C southeast corner at toe passed.
15:25 Sussex done for the day.
15:50 I left site.

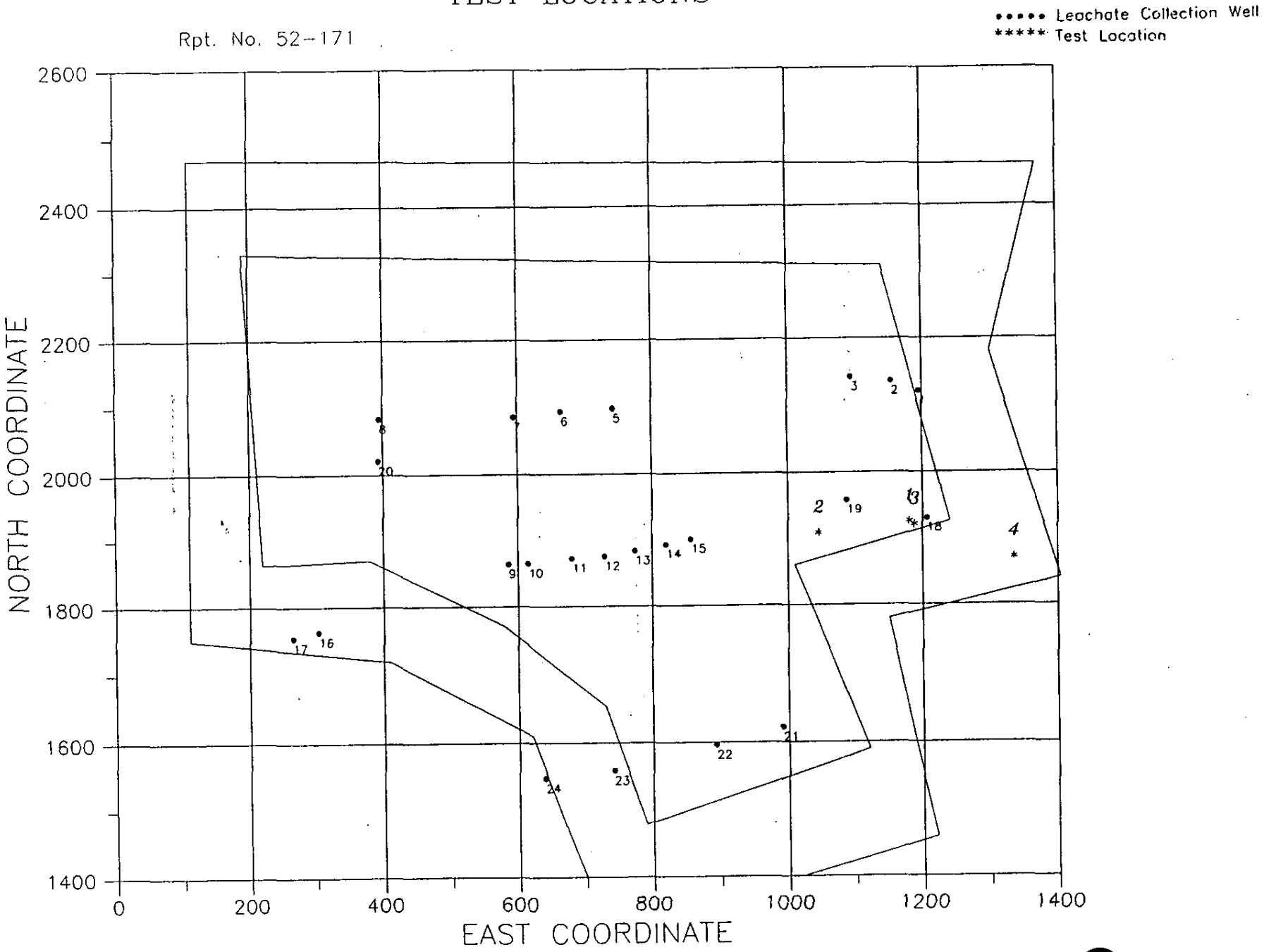
Sussex fill clay liner to grade at southeast corner of 717C at toe and perimeter ditch, and placed topsoil. Brown & Butler surveyed perimeter ditches.

INSPECTOR Steven D Wintheiser ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-171



EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

Report No. 52-171 (page 2 of 2)

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1926	1180	116.6	22.4	103.5	94.9	P
2	1909	1046	117.4	19.3	106.6	97.8	P
3	1921	1188	117.4	21.7	98.3	90.1	P
4	1871	1335	85.3	20.1	104.0	95.4	P

LABORATORY DATA - None.

INSPECTOR Steven D. Winchester ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-172	DATE:	4/12/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 70	EQUIPMENT:	D6 Dozer, 3 DJB's, Vibratory Compactor

ACTIVITIES SUMMARY

07:05 I arrived on site.
07:10 Compactor and 3 DJB's are placing top soil on east slope of 717-A.
09:50 D3 is cutting ditch on top of 717-C south slope.
12:00-12:30 Lunch.
12:35 Sussex continues placing top soil on east slope of 717-A.
13:00 I left site.

FIELD DATA - None.

LABORATORY DATA - None.

INSPECTOR Steven D. Winthuisen ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-173	DATE:	4/26/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:		EQUIPMENT:	

ACTIVITIES SUMMARY

For the week of 4/17/89 through 4/21/89 work on Cell 717 consisted of ditch construction and placement of topsoil cover. Ditches were constructed on the east edge of 717A and 717C. Top soil was also placed on cap of 717A and 717C. The ditch along the east and south side of 717D was also built. Brown and Butler cross-sectioned the east half of the cap of 717D.
For the period of 4/26/89 through 4/29/89 Sussex reworked the south slope of 717D to prepare it for cross-section. They filled small washout ruts and recompacted it. On 4/26/89 Brown and Butler was on site to cross-section this slope and check top soil grades on 717A and 717C.

FIELD DATA - None

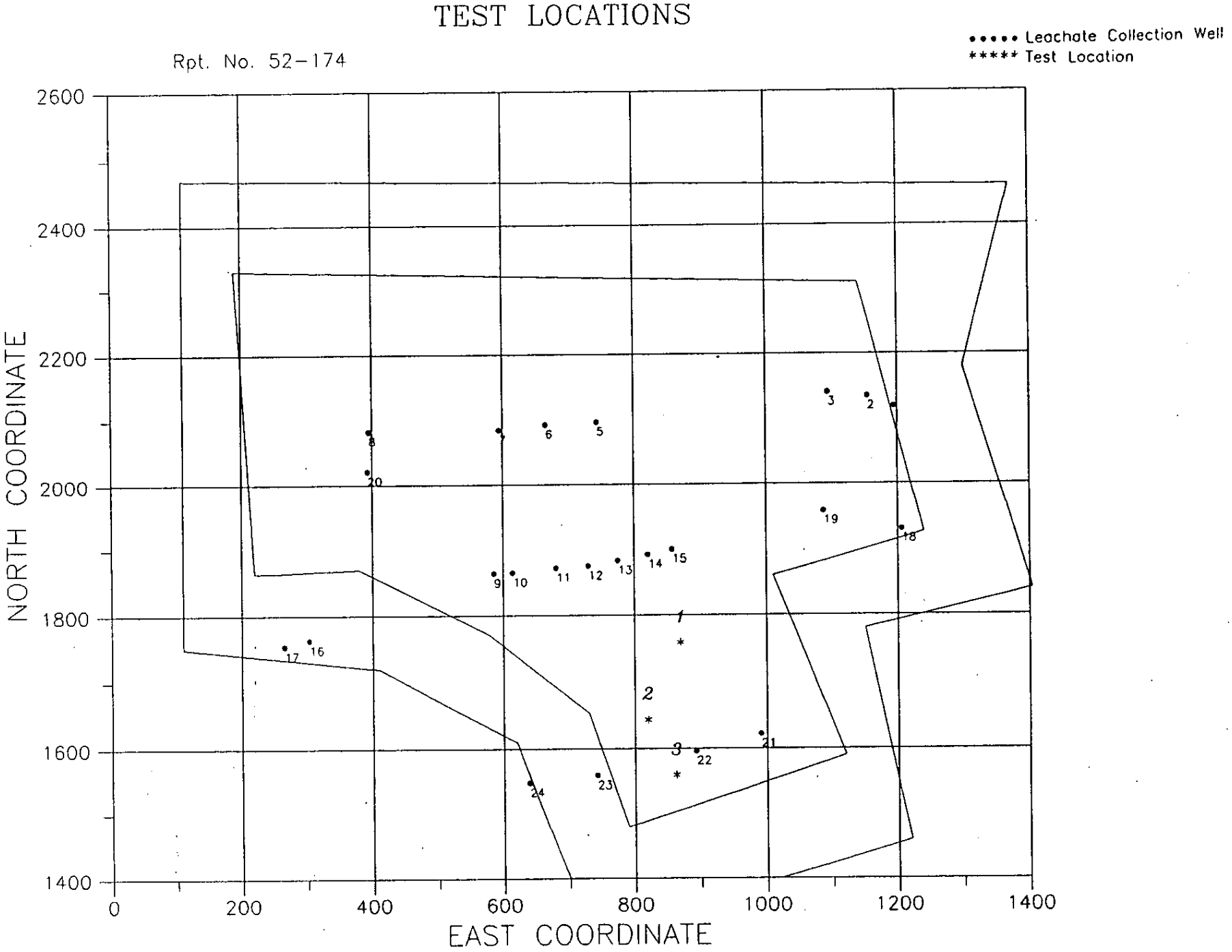
LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER _____

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-174



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-174	DATE:	4/27/89
PROJECT:	Cell 717 Clay Cap	WLFE REP:	S. Wintheiser
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 70	EQUIPMENT:	D6 Dozer, 2 DJB's, 235 shovel, motor grader, water truck, bumag computer

ACTIVITIES SUMMARY

07:00 I arrived on site.
07:10 D6 Dozer is pushing back top soil stockpiled on west top of 717D so clay cap can be brought to final grade.
09:17 Motor grader is scarifying area on west top of 717D prior to placing remaining clay cap.
09:40 Water truck is wetting scarified area on 717D.
10:05 2 DJB's are hauling clay cap material to 717D.
12:00-12:30 Lunch.
12:30 Sussex continues hauling clay cap. B & B surveying top soil grades on 717A & B.
13:20 Roller compacting clay cap placed on 717D.
15:10 Three tests on 717D passed - B & B re-shooting grade on clay cap.
15:30 Sussex done for the day.
16:20 All clay cap grades were OK'd by B & B.
16:55 I left site.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1759	870	121.2	18.9	105.5	96.7	P
2	1644	820	119.4	27.2	98.1	90.0	P
3	1560	863	120.3	22.3	98.1	90.0	P

LABORATORY DATA - None

INSPECTOR Steven D. Wintheiser ENGINEER _____

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-175	DATE:	1/12/90
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 40's - 50's, windy	EQUIPMENT:	D-6 Dozer, 2DJB's Vibratory Compactor

ACTIVITIES SUMMARY

07:00 I arrive on site. No activities were conducted from 4/28/89 through 1/11/90. Construction of Cell 904 occurred during this time period.
10:45 Sussex begins placing lift on western edge of cell 717D.
12:00 Lunch.
12:30 They resume placing lift.
14:30 They complete lift.
17:30 I leave site.

Sussex places clay cap on Cell 717.

FIELD DATA - None

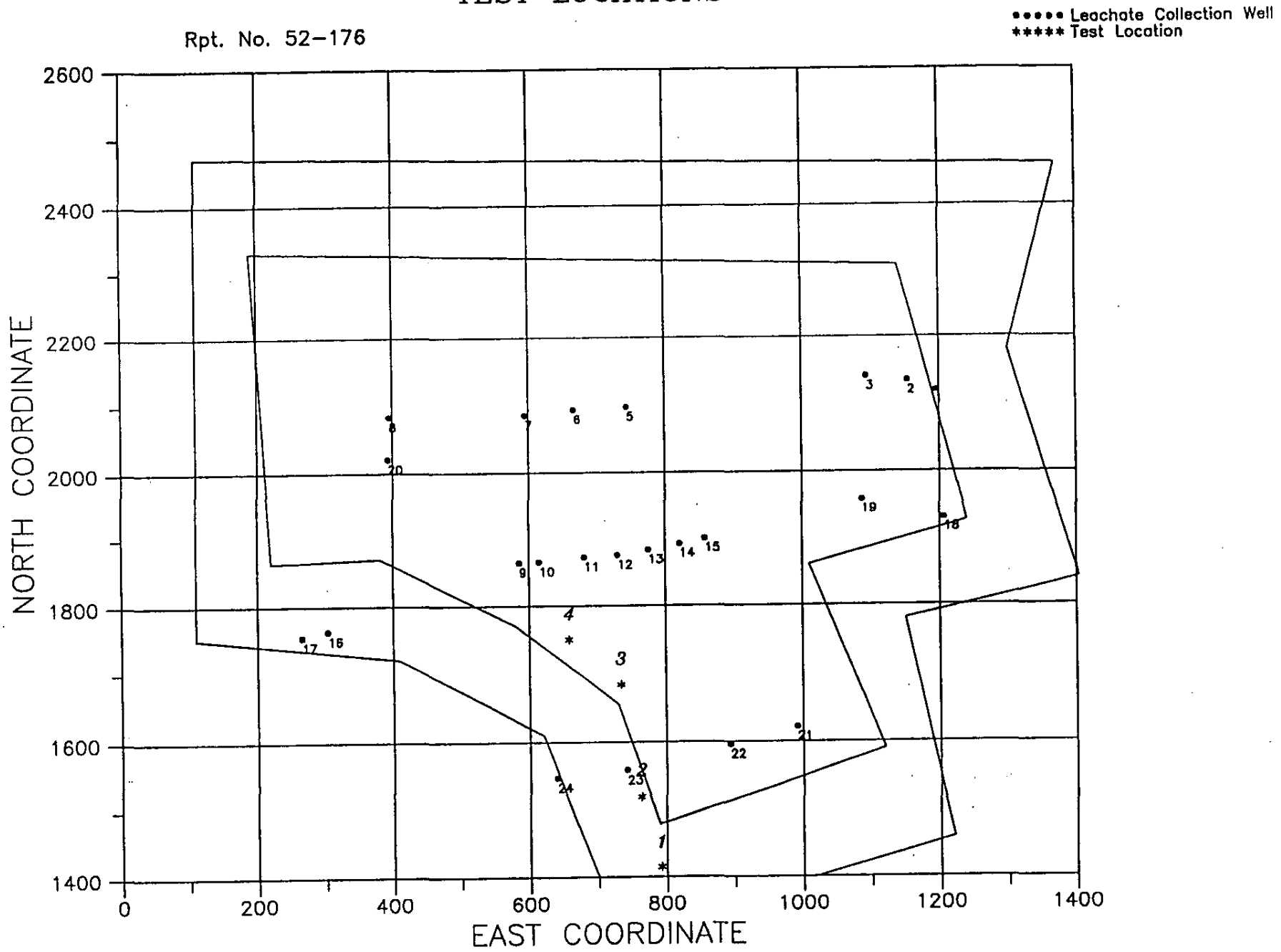
LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER William F. Furlow
For Charles D. Furlow

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-176



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-176	DATE:	1/13/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 30-50's	EQUIPMENT:	D-6 Dozer, 2-DJB's, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
08:20 I take tests 1-4. They meet specs.
10:30 Sussex continues lift on 717D cap.
12:00 Lunch.
12:30 Sussex continues lift on 717D. They also begin compacting this lift.
14:30 They complete lift and continue compacting it.
15:30 Sussex completes work for today and I leave site.

Sussex places clay cap on Cell 717.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1415	792	112.1	19.4	106.1	97.3	P
2	1520	763	115.9	18.7	104.2	95.6	P
3	1683	734	115.8	18.6	105.7	96.9	P
4	1750	658	116.0	18.4	107.3	98.4	P

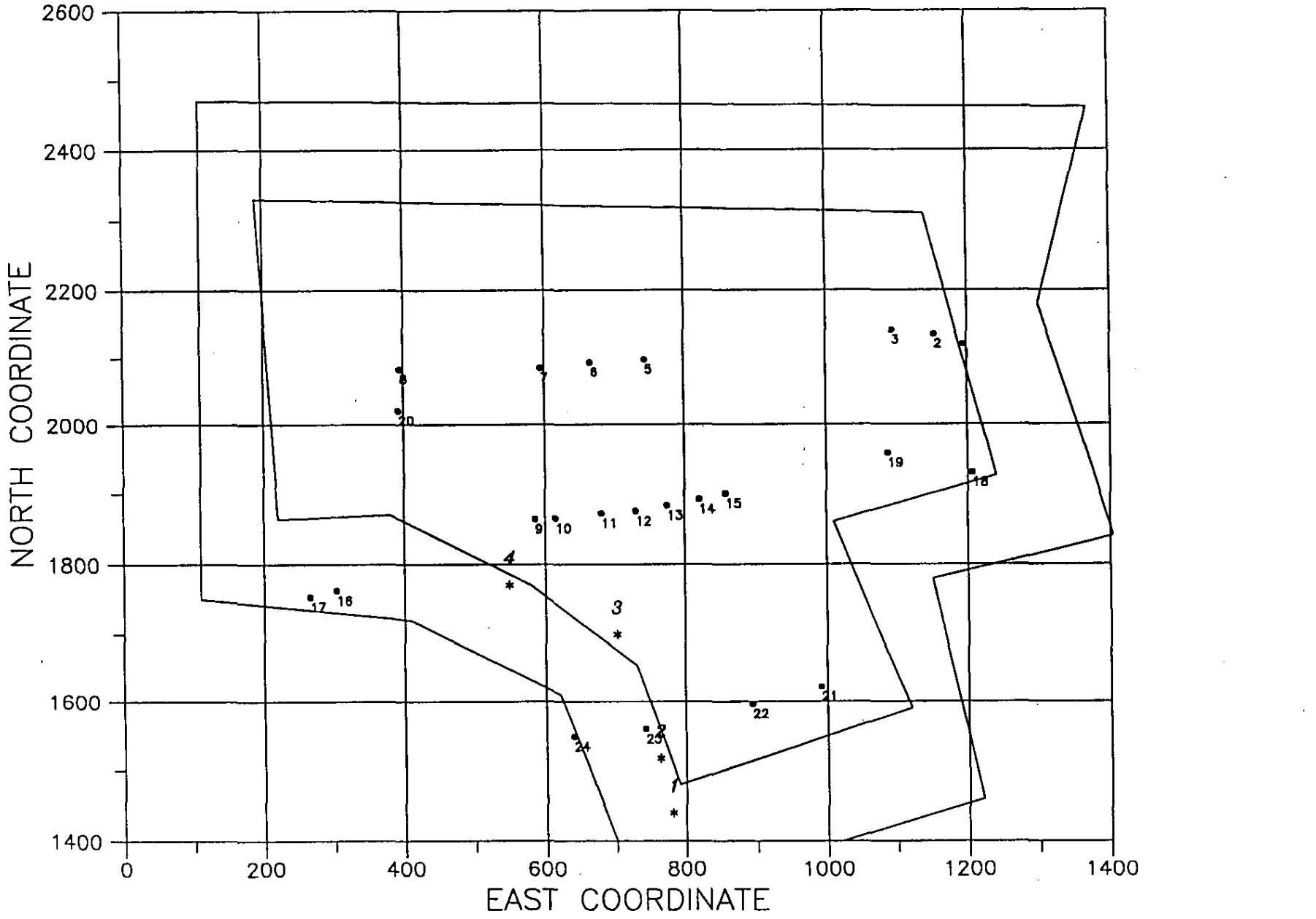
LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Mark R. Ford

ENCOR

TEST LOCATIONS

Rpt. No. 52-177



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-177	DATE:	1/15/90
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 50's-70's	EQUIPMENT:	D-6 Dozer, 2 DJB's, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
09:00 I take test 1-4. They meet specs.
11:00 Sussex begins placing lift on Cell 717D clay cap.
12:00 Lunch
12:30 They resume placing lift.
13:30 They complete lift on Cell 717 clay cap.
17:30 I leave site.

Sussex places lift on Cell 717 clay cap.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1440	781	116.7	22.1	98.3	90.2	P
2	1517	763	116.6	20.8	103.2	94.7	P
3	1700	702	116.4	21.7	104.4	92.1	P
4	1171	549	116.3	21.0	104.5	95.9	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
3	46/31	-	18.1	-	-

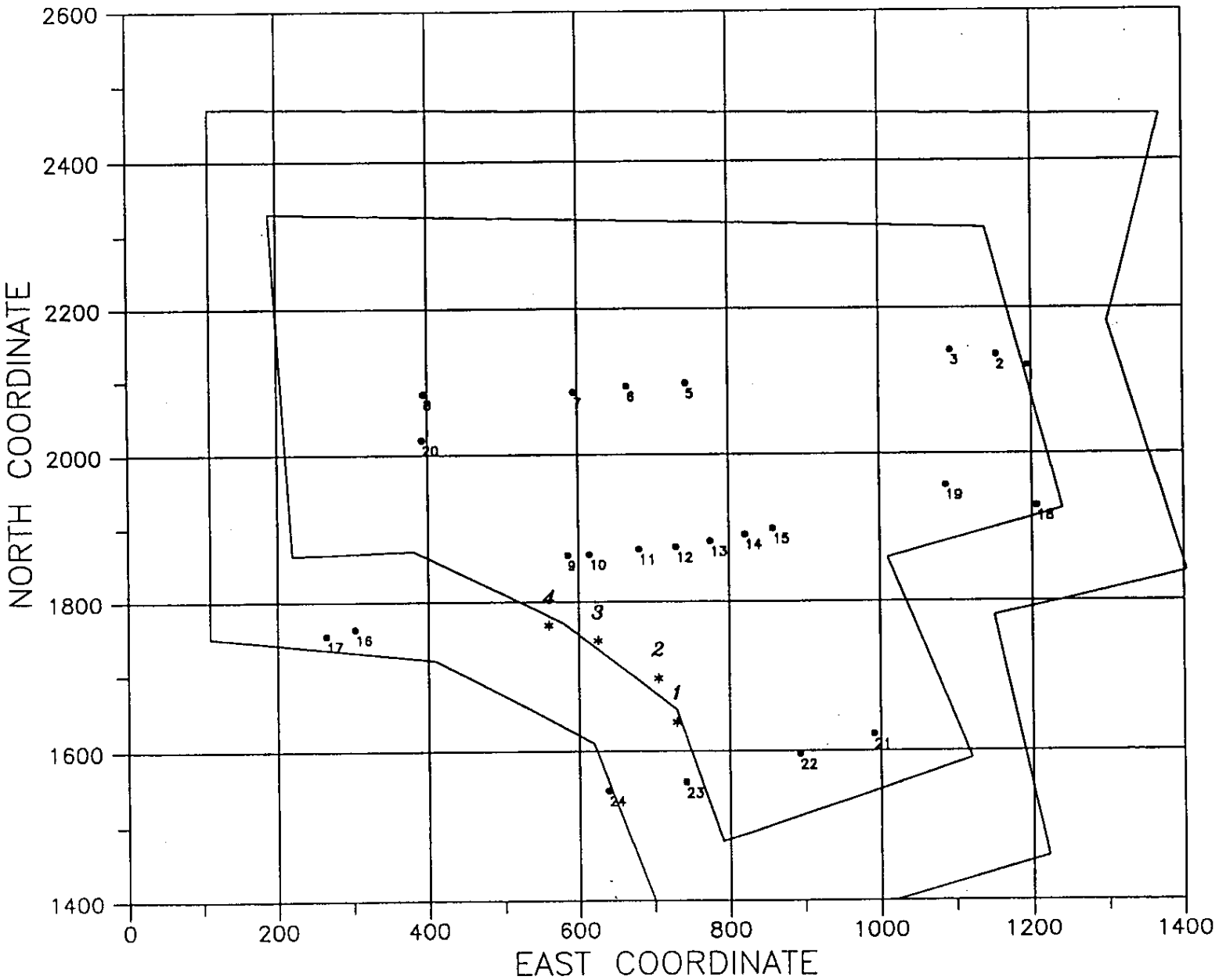
INSPECTOR Thomas A. Vrenick ENGINEER _____

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-178

●●●●● Leachate Collection Well
✱✱✱✱✱ Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-178	DATE:	1/16/90
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, Partly Cloudy 50's-70's	EQUIPMENT:	

ACTIVITIES SUMMARY

07:00 I arrive on site.
08:00 Sussex begins rolling lift placed yesterday.
10:30 I take tests 1-4 on this area. They meet specs. Sussex plans no further work in this area.

Sussex compacts lift place yesterday.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1638	730	117.1	21.0	104.9	96.3	P
2	1696	706	117.2	23.5	100.4	92.1	P
3	1747	626	117.2	21.3	102.6	94.1	P
4	1768	560	117.3	19.9	102.9	94.4	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
1	48/31	-	19.7	-	-

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-179	DATE:	4/3/90
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 50 -60's	EQUIPMENT:	D-6 Dozer, 225 Backhoe, Motor Grader

ACTIVITIES SUMMARY

10:30 Sussex begins excavating for North South ditch on West side of Cell 717D. They will place a pipe in South end of this ditch for access. The excess (clay cap) material they are excavating is being placed on East side of ditch to bring it to grade.
12:00 Lunch.
12:30 Sussex resumes work on Cell 717D ditch.
14:30 Sussex continues work on ditch and clay cap.
15:30 Sussex completes work for today.

Sussex places clay cap on Cell 717D.

FIELD DATA - None.

LABORATORY DATA - None.

INSPECTOR Thomas A. Vrenick ENGINEER Jack

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-180	DATE:	4/4/90
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 40's - 70's	EQUIPMENT:	D-6 Dozer, Motor Grader, D-3 Dozer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:15 Sussex continues to work on ditch on West side of Cell 717D. They are cutting it to grade and using this excess clay cap material to bring the area east of the ditch to grade.
10:00 Sussex continues this work.
12:00 Lunch.
12:30 Sussex resumes work in the same area.
14:00 Sussex continues work.
15:30 Sussex finishes work for today.

Sussex works on Cell 717D ditch and clay cap.

FIELD DATA - None.

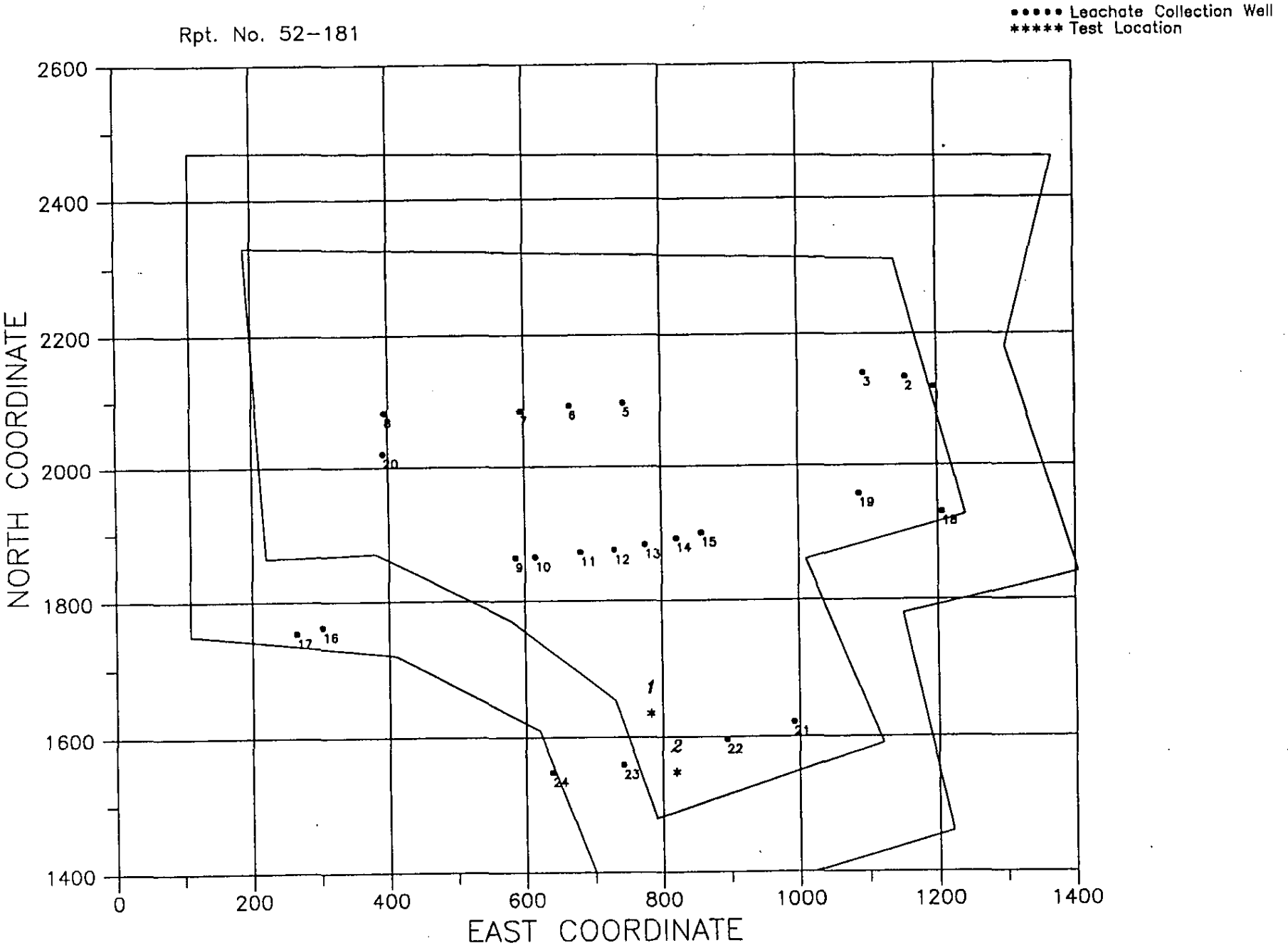
LABORATORY DATA - None.

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

TEST LOCATIONS

Rpt. No. 52-181



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-181	DATE:	4/5/90
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 50's, 70's	EQUIPMENT:	D-6 Dozer, Motor Grader, Vibratory Roller

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:20 Sussex is working on clay cap on West side of Cell 717D. They are bringing ditch and cap to grade.
10:00 Sussex continues work in this area.
12:00 Lunch.
13:00 Sussex begins compacting clay cap.
15:00 I take tests 1 and 2 in this area. They meet specs.
16:00 Brown and Butler X-sections this area.
17:00 Area is to grade and Sussex will place topsoil here tomorrow.

Sussex work on Cell 717 clay cap.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1635	782	118.3	19.8	105.8	97.0	P
2	1548	820	118.9	22.6	104.0	95.4	P

LABORATORY DATA - None.

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-182	DATE:	4/6/90
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 50's,60's	EQUIPMENT:	235 Backhoe, D-6 Dozer, 2-DJB's

ACTIVITIES SUMMARY

13:00 Sussex places topsoil on West side of Cell 717D that is east of ditch.
15:30 Sussex completes work for today.

Sussex places topsoil on Cell 717D.

FIELD DATA - None

LABORATORY DATA - None.

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-183	DATE:	4/9/90
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly cloudy	EQUIPMENT:	D-6 Dozer, 2-DJB's 235 Shovel

ACTIVITIES SUMMARY

11:00 Arrive on site. Sussex is placing topsoil on Cell 717D to bring it to grade.
14:00 Sussex continues placing topsoil.
15:00 Sussex finishes placing topsoil and Brown and Butler does X-section of topsoil.
16:30 Brown and Butler confirms topsoil is to grade.

Sussex placing topsoil on Cell 7171D.

FIELD DATA - None.

LABORATORY DATA - None.

INSPECTOR Thomas A. Vrenick ENGINEER

WARE LIND FURLOW ENGINEERS, INC.

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-184	DATE:	5/22/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 70's-80's	EQUIPMENT:	D-6 Dozer, 2-DJB's, Vibratory Roller, 235 Backhoe

ACTIVITIES SUMMARY

12:30 Sussex plans to rework toe of south slope of Cell 717B.
12:45 They remove dry surface material and vegetation.
14:00 Sussex places lift #1 in this area.
15:00 They have placed compacted lift. I take tests 1-3 on this lift. They meet specs and Sussex begins lift #2.
16:00 They have placed and compacted lift. I take tests 4-6. Test #4 met specs but tests 5 & 6 do not. Sussex rerolls area of tests 5 & 6.
16:30 I take tests 7 & 8 (retest 5 & 6) after Sussex has recompacted this area.
17:15 Sussex finishes work for today. They will finish this lift tomorrow.
17:30 I leave site.

Sussex reworks toe of south slope of Cell 717B.

Note: Tests 1-8 were not considered part of clay cap and were not surveyed.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	-	-	Lift #1	22.7	98.4	90.3	P
2	-	-	Lift #1	18.8	103.5	95.0	P
3	-	-	Lift #1	21.0	98.4	90.3	P
4	-	-	Lift #2	22.1	98.3	90.2	P
5	-	-	Lift #2	22.9	97.5	89.5	P

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

Report No: 52-184 Date: 5/22/90

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
6	-		Lift #2	23.3	98.0	89.9	F
7	Retest #5		-	22.6	98.9	90.7	P
8	Retest #6		-	22.6	98.1	90.0	P

LABORATORY DATA - None.

INSPECTOR Thomas A. Vrenik ENGINEER [signature]

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-185	DATE:	5/23/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 60's-70's	EQUIPMENT:	D-6 Dozer, 2-DJB's, Vibratory Roller, 235 Backhoe

ACTIVITIES SUMMARY

07:00 I arrive on site. Sussex continues lift started yesterday afternoon.
09:00 They have placed and compacted lift.
10:00 I take tests 1-3. They meet specs. This completes work in this area at this time.

Sussex finishes working at toe of south slope of Cell 717B.

Note: Tests 1-3 were not considered pat of clay cap and were not surveyed.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	-	-	Lift #3	22.2	99.3	91.1	P
2	-	-	Lift #3	22.4	98.0	90.0	P
3	-	-	Lift #3	20.7	98.4	90.3	P

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-186	DATE:	5/24/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 60's-80's	EQUIPMENT:	D - 6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site. Sussex begins stripping topsoil from south slope of Cell 717B. Some erosion has occurred on this slope and it was decided to remove topsoil to see if it has affected the clay cap.

10:00 Sussex has remved topsoil on western half of slope. T. Phillips and I inspect this area. It is decided to disc this area, compact it and then test it. Sussex begins discing this area and continues to strip topsoil on the east end of slope. Sussex is also cutting drainage ditch on top of Cell 717B. Brown & Butler is setting grades for topsoil in this area.

11:00 Sussex has stripped topsoil on east end and has disced it. They are compacting the west half.

11:20 Sussex begins compacting the east end.

11:50 I take tests 1-4 on this area. They meet specs and Sussex begins placing topsoil back on this slope.

14:00 Sussex continues to place topsoil on this slope.

17:15 Sussex finishes work for today. They will continue to place topsoil tomorrow.

17:30 I leave site.

Note: Tests 1-4 were conducted to verify density on previously passed areas and no survey information was obtained.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	-	-	-	18.7	106.7	97.9	P
2	-	-	-	18.4	105.3	96.6	P
3	-	-	-	18.9	108.3	99.5	P
4	-	-	-	19.3	106.2	97.4	P

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER William P. Paul for Charles R. Fiston

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-187	DATE:	5/25/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 60's,80's	EQUIPMENT:	D-6 Dozer, 2-DJB's Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex continues to place topsoil on south slope of Cell 717B. They also begin placing topsoil on top of Cell 717B.
11:00 Sussex has completed placing topsoil on Cell 717B.

Sussex places topsoil on Cell 717B.

FIELD DATA - None.

LABORATORY DATA - None.

INSPECTOR Thomas A. Vrenick ENGINEER

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-188	DATE:	5/31/90
PROJECT:	Cell 717 Clay Cap	WLFE REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 70's - 90's	EQUIPMENT:	D-6 Dozer, 2-DJB's 225 Backhoe

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:30 Sussex begins placing topsoil on south slope of Cell 717B to bring it to grade. They also plan to place topsoil on south side of Cell 717B cap.
11:00 Sussex completes this work.
13:00 Brown and Butler begins cross-section.
15:00 They confirm topsoil is to grade. These areas will be seeded next week.

Sussex finishes placing topsoil on sections of Cell 717B and Brown and Butler cross-sections it.

FIELD DATA - None.

LABORATORY DATA - None.

INSPECTOR Thomas A. Vrenick ENGINEER

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-189	DATE:	9/04/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear/Partly cloudy 80's - 90's	EQUIPMENT:	2 D-6 Dozers, 225 Backhoe

ACTIVITIES SUMMARY

10:00 I arrive on site. Sussex is working on north slope of Cell 717. They are preparing this area for x-section prior to placement of clay cap.
12:00 Lunch.
12:30 Sussex resumes work on north slope of Cell 717.
15:00 They continue working on north slope.
16:30 Sussex continues work on north slope. I leave site.

Sussex prepares north slope of Cell 717 prior to placement of clay cap.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-190	DATE:	9/05/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear/Partly Cloudy 80's - 90's	EQUIPMENT:	2 D-6 Dozers

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins work on north slope of Cell 717 for today. They continue to prepare this area for placement of clay cap.
10:00 Sussex continues working on north slope of Cell 717.
12:00 Lunch.
12:30 Sussex resumes work on the north slope.
14:00 Sussex continues work on the north slope. They will continue to prepare this slope for clay cap placement the rest of the day. I leave site.

Sussex continues preparing north slope of Cell 717 for placement of clay cap.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-191	DATE:	9/06/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear - Partly Cloudy	EQUIPMENT:	235 Shovel, 3 DJB's, D-6 Dozer

ACTIVITIES SUMMARY

06:30 I arrive on site.
07:30 Brown and Butler begins shooting x-section on north slope of Cell 717 that has been prepared for placement of clay cap.
10:00 They complete x-section.
10:30 Sussex begins placing clay cap on this area.
12:00 Lunch.
12:30 They resume placing clay cap on the north slope of Cell 717.
14:30 Sussex begins compacting the east end of the lift being placed.
16:00 They continue to place clay cap and compact it as a section is complete.
17:15 Sussex finishes work for today and I leave site.

Sussex begins placing clay cap on north slope of Cell 717.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-192	DATE:	9/07/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear - Partly Cloudy 70's - 90's	EQUIPMENT:	235 Shovel, 3-DJB's, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

06:30 I arrive on site.
07:00 I take tests 1-4 on area compacted yesterday. They meet specs. Sussex begins compacting west end of lift partially compacted yesterday afternoon.
08:00 I take tests 5-7. They meet specs. I am unable to survey these tests due to heavy fog. Sussex begins placing lift over the area.
10:00 Sussex continues placing lift and begins compacting lift on east end.
11:15 They continue compacting and placing lift.
12:00 Lunch.
12:30 Sussex resumes placing lift on north slope of Cell 717.
13:00 I take tests 8-10. They meet specs.
14:30 Sussex continues to place and compact lift. I take tests 11-13. They meet specs.

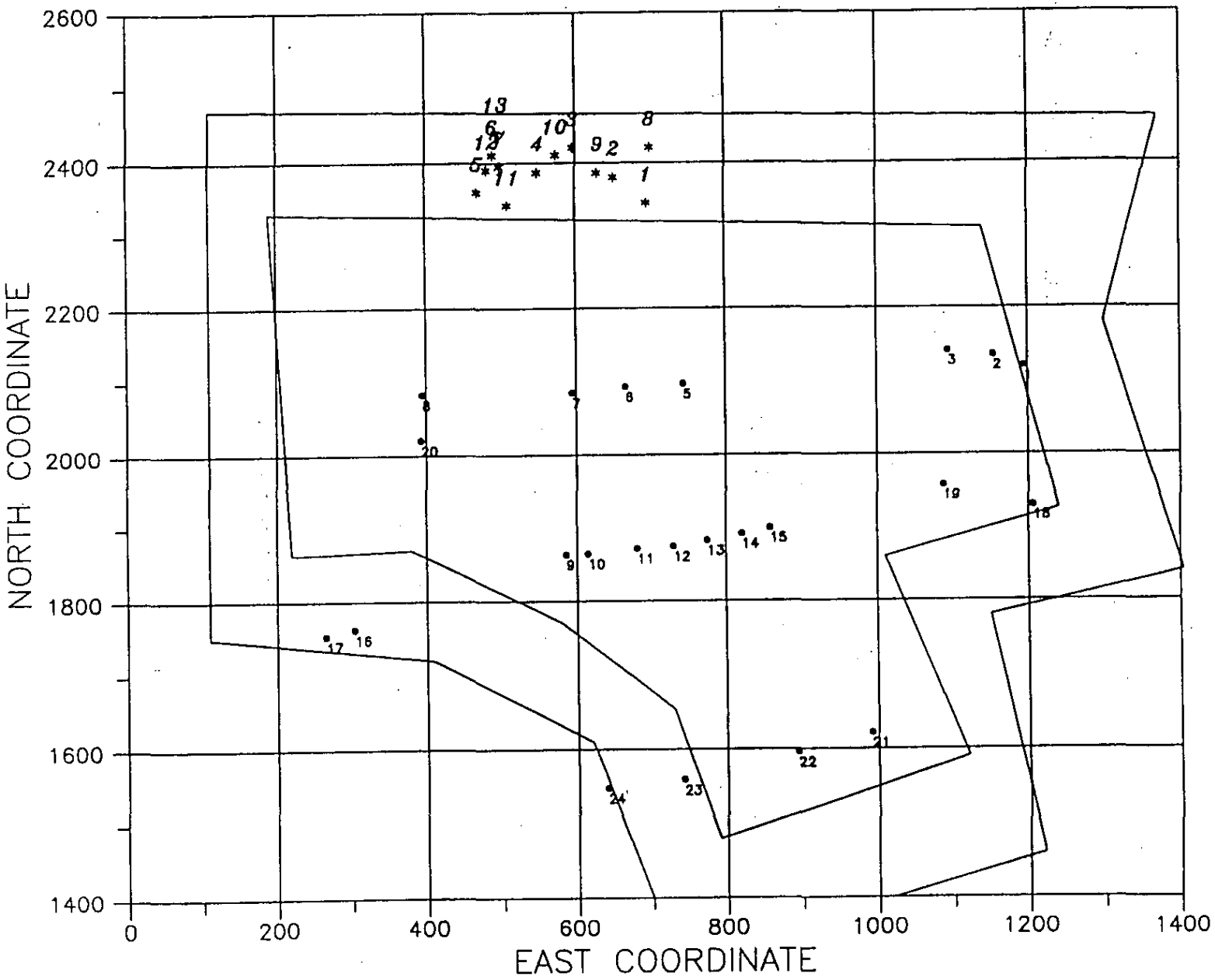
Sussex continues to place clay cap on north slope of Cell 717.

INSPECTOR Thomas A. Vrenick ENGINEER

ENCOR

TEST LOCATIONS

Rpt. No. 52-192



EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

REPORT NO: 52-192

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1.	2345	696	113.2	20.8	102.7	94.2	P
2.	2380	652	107.2	21.0	101.0	92.7	P
3.	2420	597	99.1	18.4	105.1	96.4	P
4.	2387	550	87.2	19.9	103.7	95.1	P
5.	2360	470	111.1	20.1	100.7	92.4	P
6.	2410	490	90.6	18.7	99.0	90.9	P
7.	2395	500	87.8	21.4	102.0	93.5	P
8.	2420	700	96.6	21.3	99.3	91.1	P
9.	2386	630	91.6	19.5	102.1	93.6	P
10.	2410	574	94.4	19.4	101.5	93.1	P
11.	2342	510	113.8	18.4	105.5	96.8	P
12.	2390	483	91.1	19.1	103.1	94.6	P
13.	2440	495	111.7	19.4	102.4	94.0	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
2.	50/36	-	17.9	-	-
7.	49/34	1.5×10^{-9}	18.5	109.4	-

INSPECTOR Thomas A. Wenick ENGINEER

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-193	DATE:	9/10/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly cloudy 70's - 90's	EQUIPMENT:	235 Shovel, 3-DJB's, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex continues compacting lift placed Friday.
08:30 I take tests 1-4 on area compacted Friday. They meet specs.
09:00 Sussex begins placing lift on area just tested.
09:30 I take tests 5 and 6 on area compacted this morning. They meet specs. Sussex will place lift here today.
09:45 I leave site.
14:00 I arrive back on site. Sussex has begun preparing next area for placing clay cap. They have also placed lift over area tested this morning. They are compacting it.
16:00 I take tests 7-12 on area placed and compacted today. They meet specs. They continue to prepare next section for clay cap placement.
16:30 Sussex finishes work for today and I leave site.

Sussex continues placing clay cap on north slope of Cell 717.

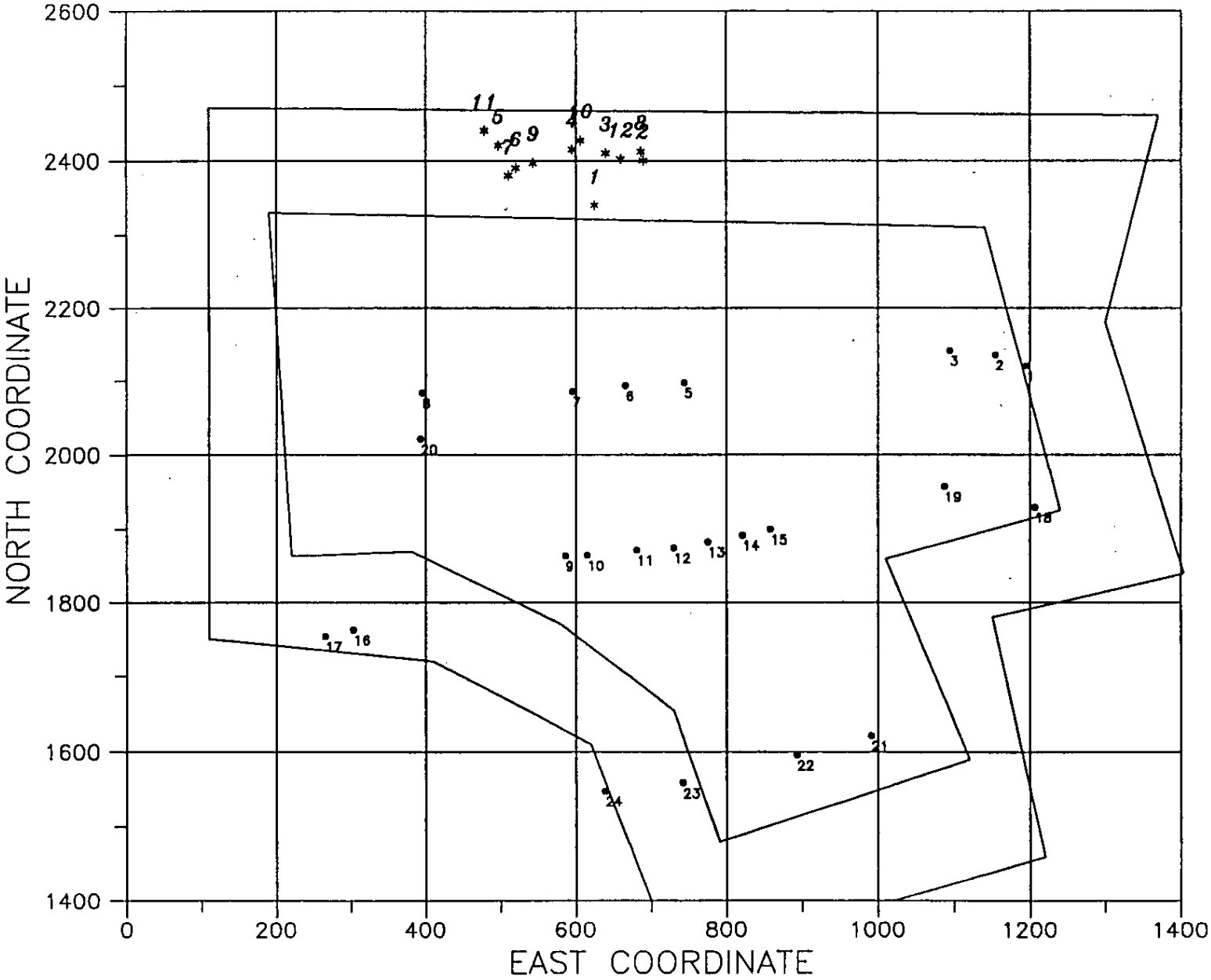
INSPECTOR Thomas A. Vrenick ENGINEER

ENCOR

TEST LOCATIONS

Rpt. No. 52-193

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

REPORT NO: 52-193

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1.	2340	625	112.6	20.2	101.8	93.4	P
2.	2400	690	107.0	19.6	103.9	95.3	P
3.	2410	640	104.3	19.7	101.2	92.8	P
4.	2415	595	97.1	20.7	101.8	93.4	P
5.	2420	497	90.1	22.1	98.0	90.0	P
6.	2390	520	111.3	18.7	106.6	97.8	P
7.	2380	510	110.1	20.0	101.0	92.7	P
8.	2412	687	99.2	19.1	103.8	95.2	P
9.	2397	543	94.3	19.0	101.2	92.8	P
10.	2427	606	97.0	19.2	99.4	91.2	P
11.	2440	478	89.1	20.2	102.4	93.9	P
12.	2402	660	113.0	21.1	103.1	94.6	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
1.	43/26	-	21.3	-	-
8.	44/28	1.7×10^{-9}	20.2	104.7	-

INSPECTOR Thomas A. Wenck ENGINEER

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-194	DATE:	9/11/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy 70's - 90's	EQUIPMENT:	D-6 Dozer

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:30 Brown and Butler on site to set grade on area of north slope of cell 717 that Sussex has placed clay cap. Sussex is also preparing next section for placement of clay cap.
08:00 I leave site as no additional work will be done today due to rain forecast for later this morning.

Brown and Butler sets grade on north slope of Cell 717 and Sussex continues preparing next section for clay cap placement.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER _____

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-195	DATE:	9/17/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear/Partly Cloudy 70's - 90's	EQUIPMENT:	D-6 Dozer

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:30 G. Wall (Sussex) informs me that they plan to work on the north slope later this morning.
10:00 They continue to prepare another section of the north slope for clay cap placement.
11:00 Sussex continues preparing next section for clay cap placement.
12:00 Lunch.
12:30 Sussex resumes preparing next section for clay cap placement.
14:00 Sussex begins placing lift on area that Brown and Butler has set grades.
15:30 Sussex finishes work for today.

Sussex continues to prepare next section for clay cap placement and also places clay cap.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO.:	52-196	DATE:	9/18/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO.:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 70's - 90's	EQUIPMENT:	235 Shovel, 3-DJB's, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex continues to place clay cap on area where grades have been set. (West end)
08:00 Brown & Butler does cross section on next area prior to placement of clay cap.
09:00 I leave site. Sussex will continue to place clay cap on north slope of Cell 717.
16:00 I arrive back on site. Sussex has placed clay cap on west end of north slope. They have partially compacted this lift. They will complete compaction tomorrow morning. They have also begun placing lift on area Brown & Butler cross sectioned this morning. They will complete this lift tomorrow.
17:30 Sussex finishes work for today and I leave site.

Sussex places clay cap on North Slope of Cell 717.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-197 (page 1 of 2)	DATE:	9/19/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear/Partly Cloudy 70's - 90's	EQUIPMENT:	235 Shovel, 3 DJB's, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.

07:15 Sussex continues to place lift started yesterday afternoon. They also finish compacting lift that was partially compacted yesterday. Brown & Butler had cross sectioned this area yesterday afternoon and a few low spots are noted. These areas will be brought to grade today.

09:00 Sussex has finished compacting lift on west end. They continue to place the first lift on eastern section.

11:00 They continue placing lift on eastern section and also begin compacting this lift.

12:00 Lunch.

12:30 Sussex resumes placing and compacting lift on eastern section.

14:00 Sussex has finished placing and compacting lift on eastern section. I take tests 1-5 on eastern section. They meet specs and Sussex begins next lift in this area.

14:45 I take tests 6-10 on western section. They meet specs and Sussex begins to place clay in low spots to bring them to grade.

15:30 Sussex continues lift on eastern section and begins compacting low spots on western section.

16:00 Begins to rain. Sussex stops work for today.

17:30 I leave site.

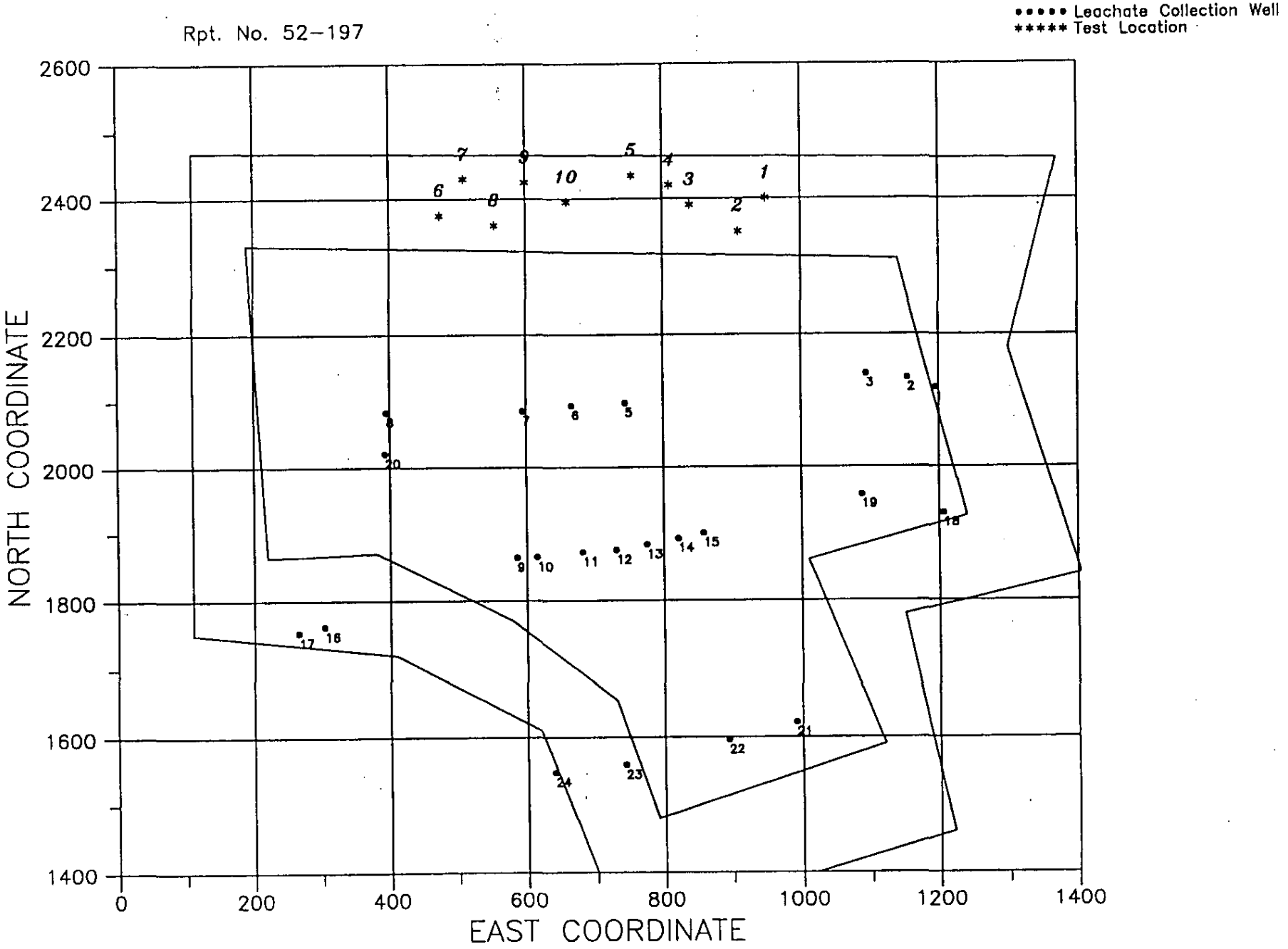
Sussex continues to place clay cap on north slope of Cell 717.

INSPECTOR Thomas A. Vrenick ENGINEER _____

ENCOR

TEST LOCATIONS

Rpt. No. 52-197



EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

REPORT NO: 52-197

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1.	2400	950	91.0	18.4	99.4	91.2	P
2.	2350	910	98.9	18.8	101.7	93.3	P
3.	2390	840	106.0	21.3	100.2	91.9	P
4.	2420	810	113.1	19.8	100.5	92.1	P
5.	2435	755	97.1	18.3	105.0	96.3	P
6.	2375	475	86.1	21.9	102.1	93.7	P
7.	2430	510	110.5	19.1	103.8	95.3	P
8.	2360	555	112.0	22.1	98.6	90.5	P
9.	2425	600	95.0	19.7	105.6	96.8	P
10.	2395	660	103.1	18.4	104.7	96.0	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
3.	47/30	-	20.3	-	-
9.	47/31	-	20.3	-	-

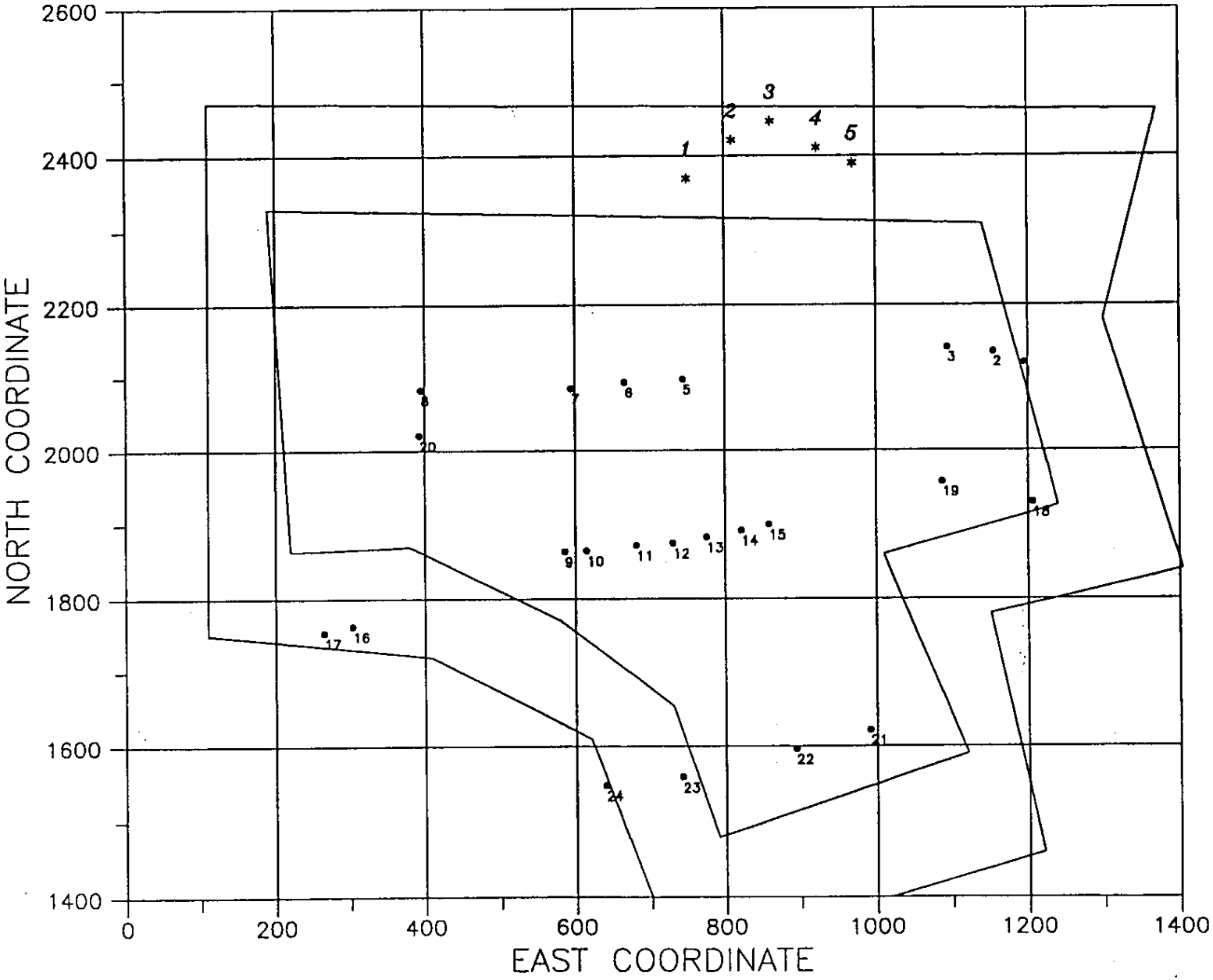
INSPECTOR Thomas A. Unruh ENGINEER

ENCOR

TEST LOCATIONS

Rpt. No. 52–198

●●●●● Leachate Collection Well
✱✱✱✱✱ Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-198	DATE:	9/24/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 60's - 80's	EQUIPMENT:	235 Shovel, D-6 Dozer, 3 DJB's

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:30 Sussex prepares surface of previous lift for placement of next lift.
08:30 Sussex begins placing lift #2 on eastern section of slope on north slope of Cell 717.
10:00 Sussex continues to place lift. They also begin compacting area that has been completed.
12:00 Lunch.
12:30 Sussex resumes placing and compacting lift.
13:30 They have finished lift and I take tests 1-5 on this lift. They meet specs.
14:00 Sussex begins placing next lift.
15:00 They continue to place lift.
16:00 Sussex continues to place lift and begins compacting area completed. They also begin to place topsoil on section to the west where clay cap is complete.
17:15 Sussex finishes work for today and I leave site.

Sussex continues to place clay cap on north slope of Cell 717.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1.	2370	750	91.0	22.6	99.7	91.5	P
2.	2420	810	110.0	21.0	99.5	91.3	P
3.	2445	862	87.1	20.1	99.0	90.8	P
4.	2410	923	93.5	20.7	103.6	95.0	P
5.	2390	970	109.0	21.2	102.2	93.7	P

LABORATORY DATA

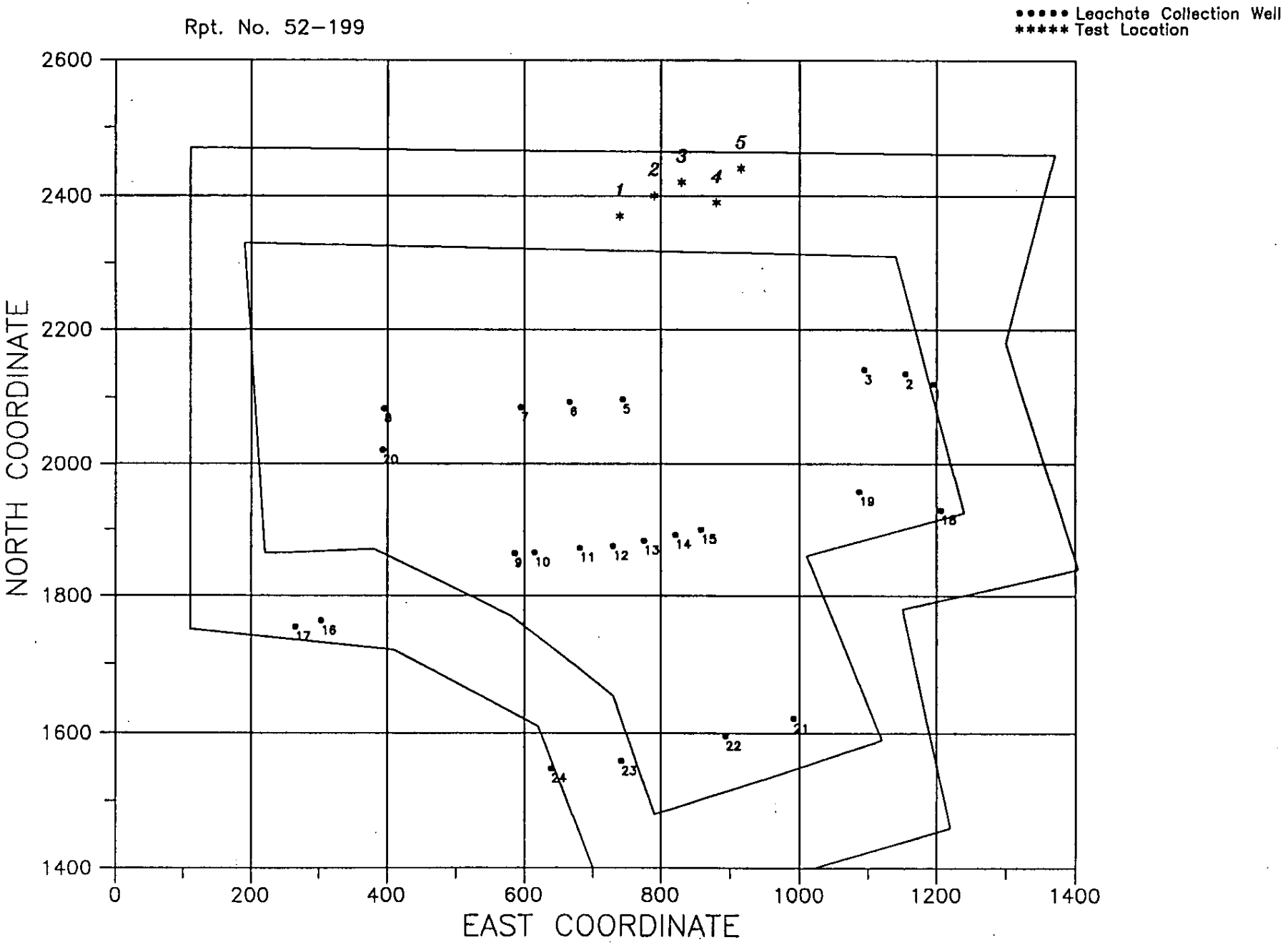
Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
2.	44/27	7.9×10^{-9}	20.8	103.9	-

INSPECTOR Thomas A. Vrenick ENGINEER

ENCOR

TEST LOCATIONS

Rpt. No. 52-199



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-199	DATE:	9/25/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear/Partly Cloudy 60's - 80's	EQUIPMENT:	235 Shovel, 3 DJB's, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex continues to place and compact lift started yesterday afternoon.
09:00 They finish placing and compacting lift. I take tests 1-5. They meet specs.
10:00 Sussex begins placing next lift. They also continue spreading topsoil over area with clay cap complete.
11:00 Sussex continues same activities.
12:00 Lunch.
12:30 Sussex resumes same activities.
14:00 Sussex continues to place clay cap lift and topsoil on north slope of Cell 717.
16:00 Sussex continues same activities.
17:15 Sussex finishes work for today and I leave site.

Sussex continues to place clay cap and topsoil on Cell 717.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1.	2370	740	90.5	18.7	104.4	95.7	P
2.	2400	790	110.0	21.5	99.6	91.3	P
3.	2420	830	106.0	20.9	101.2	92.8	P
4.	2390	880	95.0	19.2	99.0	90.8	P
5.	2440	915	108.0	18.6	103.9	95.3	P

LABORATORY DATA - None

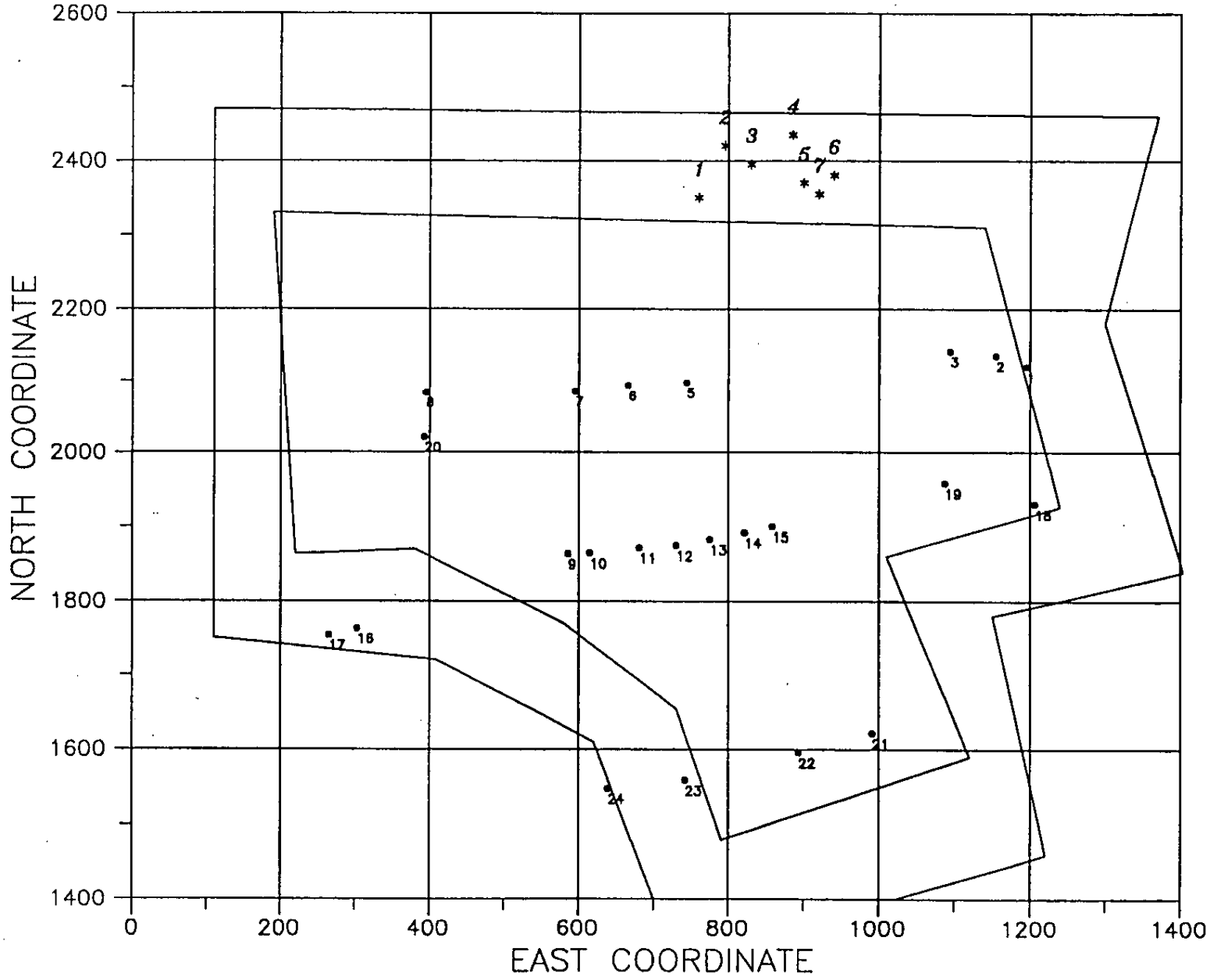
INSPECTOR Thomas A. Vrenick ENGINEER

ENCOR

TEST LOCATIONS

Rpt. No. 52-200

●●●●● Leachate Collection Well
✱✱✱✱✱ Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-200	DATE:	9/26/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 60's - 80's	EQUIPMENT:	235 Shovel, 3 DJB's, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex continues to place lift started yesterday and they begin compacting this lift.
10:00 They have placed and compacted this lift. I take tests 1-7. They meet specs. Brown & Butler does cross section to set grades.
12:00 Lunch.
12:30 Brown and Butler has finished setting grades.
13:00 Sussex begins placing lift to bring this area to grade.
15:00 Sussex continues placing lift to bring area to grade.
16:30 Sussex continues placing lift.
17:30 Sussex finishes work for today.
18:00 I leave site.

Sussex continues to place clay cap on Cell 717.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1.	2350	760	114.0	19.8	103.9	95.3	P
2.	2420	795	91.0	18.1	100.7	92.4	P
3.	2395	830	86.5	18.5	100.1	91.9	P
4.	2435	885	97.5	18.1	103.2	94.7	P
5.	2370	900	106.5	20.8	101.5	93.1	P
6.	2380	940	103.5	18.7	99.9	91.7	P
7.	2355	920	115.0	21.6	101.3	93.0	P

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-201	DATE:	9/27/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 60's - 80's	EQUIPMENT:	235 Shovel, 3 DJB's, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex continues to place lift started yesterday afternoon.
09:00 They continue to place lift and they begin to compact areas completed.
12:00 Lunch.
12:30 They have finished placing lift and are now compacting lift.
13:30 They have finished compacting lift and I take tests 1-5. They meet specs. Brown & Butler does cross section.
15:00 There are a couple of low spots and Sussex places material in these areas to bring them to grade. They compact these areas as they place material.
16:00 Sussex completes this work and I take tests 6 and 7. They meet specs. Brown & Butler reshoot these areas and they are now to grade. This completes clay cap placement in this area. Sussex will begin placing topsoil in this area tomorrow.
17:30 I leave site.

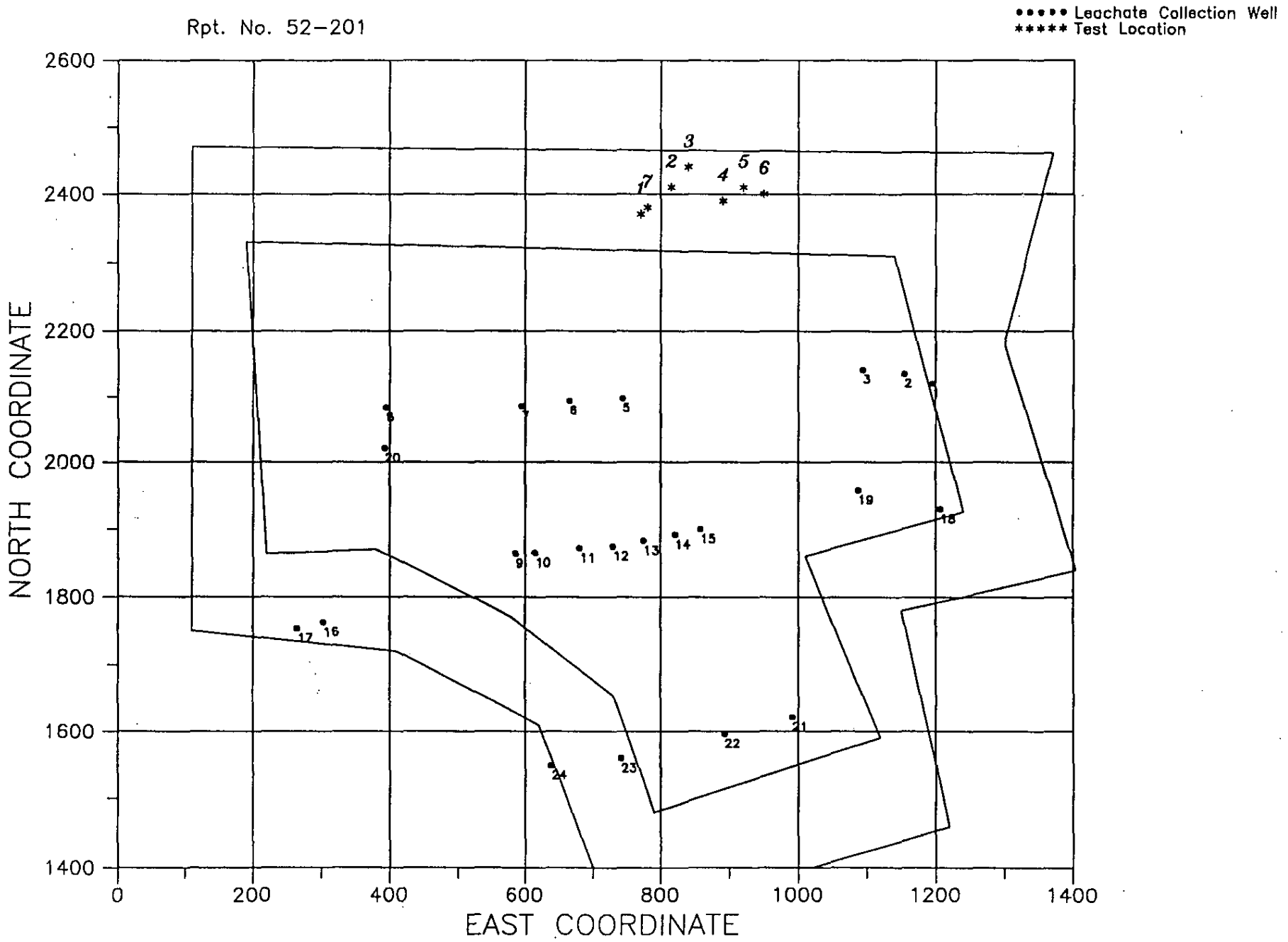
Sussex completes clay cap on section of Cell 717 and Brown & Butler does final cross-section.

INSPECTOR Thomas A. Vrenick ENGINEER

ENCOR

TEST LOCATIONS

Rpt. No. 52-201



EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

REPORT NO.: 52-201

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1.	2370	770	114.0	18.7	106.4	97.6	P
2.	2410	815	95.0	18.3	99.3	91.1	P
3.	2440	840	87.0	20.2	104.3	95.6	P
4.	2390	890	110.0	20.0	101.0	92.8	P
5.	2410	920	94.0	20.2	102.6	94.1	P
6.	2400	950	91.0	19.6	102.5	94.0	P
7.	2380	780	106.1	19.8	99.7	91.5	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
6	41/25	1.1×10^{-8}	17.8	104.9	-

INSPECTOR Thomas A. Vreneck ENGINEER [signature]

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-202	DATE:	9/28/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 60's - 80's	EQUIPMENT:	D-6 Dozer

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins placing topsoil an north slope of Cell 717 where clay cap placement is complete.
10:00 They continue to place topsoil on Cell 717 north slope.
12:00 Lunch.
12:30 Sussex resumes placing topsoil on north slope of Cell 717.
14:00 They continue placing topsoil.
15:30 I leave site.

Sussex places topsoil on north slope of Cell 717.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas R. Vrenick ENGINEER Jack C. [illegible]

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-203	DATE:	10/01/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear/Partly Cloudy 60's - 80's	EQUIPMENT:	D-6 Dozer

ACTIVITIES SUMMARY

09:30 I arrive on site. Sussex is placing topsoil on north slope of Cell 717.
11:30 They continue placing topsoil.
12:00 Lunch.
12:30 They resume placing topsoil.
15:00 They continue placing topsoil.
17:00 Sussex finishes placing topsoil for today. They will continue tomorrow. I leave site.

Sussex places topsoil on north slope of Cell 717.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-204	DATE:	10/2/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 60's - 90's	EQUIPMENT:	D-6 Dozer, 235 Shovel, 2 DJB's

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:30 Sussex begins placing topsoil on north slope of Cell 717.
10:00 They continue placing topsoil.
12:00 Lunch.
12:30 Sussex resumes placing topsoil on Cell 717.
14:00 They continue placing topsoil.
16:00 They continue placing topsoil.
17:30 They finish work for today and I leave site.

Sussex continues to place topsoil on north slope of Cell 717.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER _____

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-205	DATE:	10/3/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 70's - 80's	EQUIPMENT:	D-6 Dozer, 2 DJB's, 235 Shovel

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:30 Sussex continues placing topsoil on north slope of Cell 717.
10:00 Brown & Butler does cross-section of north slope. Sussex plans no additional work in this area today.

Sussex places topsoil and Brown & Butler does cross-section.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER _____

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-206	DATE:	10/08/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 70's - 90's	EQUIPMENT:	D-6 Dozer, 235 Shovel, 2 DJB's, 235 Backhoe, D-3 Dozer

ACTIVITIES SUMMARY

09:00 I arrive on site. Sussex is placing topsoil to bring areas of the north slope of Cell 717 to grade.
10:00 They continue placing topsoil on north slope of Cell 717. They also begin cutting the ditch at the top of north slope of Cell 717.
12:00 Lunch.
12:30 Sussex resumes working on ditch.
14:00 They continue work on ditch.
15:30 They finish work on ditch for today.
16:30 I leave site.

Sussex places topsoil on north slope of Cell 717.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR T. Thomas A. Vrenick ENGINEER Jack Cook

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-207	DATE:	10/09/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:		EQUIPMENT:	

ACTIVITIES SUMMARY

08:00 Brown & Butler reshoot low spots in topsoil after Sussex had regraded them. These areas are now to grade. RES plans to seed this area today.

Brown & Butler confirms topsoil to grade.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-208	DATE:	10/17/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy 60's - 80's	EQUIPMENT:	D-6 Dozer, 2 DJB's, 235 Shovel, John Deere Compactor

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:30 Sussex begins excavating material on northeast corner of Cell 717 for placement of CMP from drop chute.
09:30 Brown & Butler on site to set grades for this work.
11:00 Brown & Butler continue to set grades for drop chute.
12:00 Lunch.
12:30 Brown & Butler continues to set grades.
13:00 Sussex continues excavation.
14:30 Brown & Butler does cross-section of excavation. Sussex then begins backfilling excavation to have 3' of clay cap below pipe.
15:00 I take test #1 on lift #1. It meets specs and they begin lift #2.
15:30 I take test #2 on lift #2. It meets specs and Sussex begins lift #3.
16:00 I take test #3 on lift #3. It meets specs and Sussex begins lift #4.
16:30 I take test #4 on lift #4. It meets specs. Sussex finishes work for today.
17:30 I leave site.

Sussex grades N.E. corner for drop chute.

Note: Tests 1-4 were conducted in northeast corner of Cell 717 in conjunction with the drop chute and no survey information was obtained.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1.	Middle of Slope		-	18.3	104.4	95.8	P
2.	Top of Slope		-	20.0	101.1	92.7	P
3.	Bottom of Slope		-	18.1	104.0	95.4	P
4.	Middle of Slope		-	19.0	107.3	98.5	P

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-209	DATE:	10/18/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear	EQUIPMENT:	235 Backhoe, 2 DJB's, D-6 Dozer, Vibratory Roller.

ACTIVITIES SUMMARY

07:00 I arrive on site. Sussex is placing lift #5 on N.E. corner of Cell 717.
08:30 I take test 1 and it met specs. This completes backfilling in this area.
09:30 Sussex begins digging trench in this backfill for placement of pipe.
11:00 Sussex begins placing first piece of pipe.
12:00 Lunch.
12:30 Sussex resumes placing pipe.
14:00 They continue working on pipe.
16:00 They finish work for today.
17:00 I leave site.

Sussex places pipe on N.E. corner of cell 717.

Note: Test 1 was conducted in northeast corner of Cell 717 and no survey information was obtained.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1.	Middle of Slope		-	19.7	101.9	93.5	P

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-210	DATE:	10/19/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear	EQUIPMENT:	D-6 Dozer, 235 Backhoe, Vibratory Roller, 2 DJB's

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:30 Sussex continues to place pipe in N.E. corner of Cell 717.
11:00 They have pipe in place and begin placing clay around pipe to secure it. They will place and compact this material in lifts.
12:00 Lunch.
12:30 Sussex resumes backfilling around pipe.
14:00 They continue backfilling around pipe.
15:15 They complete work around pipe.
16:00 I leave site.

Sussex backfills around pipe in N.E. corner of Cell 717.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-211	DATE:	10/23/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy 60's	EQUIPMENT:	2 D-6 Dozers

ACTIVITIES SUMMARY

07:00 I arrive on site.
10:00 Sussex begins preparing northeast corner of Cell 717 for clay cap placement.
11:00 They continue preparing this area for cross-section.
12:00 Lunch.
12:30 Sussex resumes work on this area.
13:30 They begin preparing the west end of the north slope of Cell 717 for clay cap placement.
14:30 They continue work in these areas.
15:15 They finish work for today.
17:00 I leave site.

Sussex prepares areas for clay cap placement.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-212	DATE:	10/24/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 50's - 70's	EQUIPMENT:	D-6 Dozer

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:30 Sussex continues to prepare area of Cell 717 for clay cap placement.
10:30 They continue this work.
11:30 They complete preparation work.
13:30 Brown & Butler does cross-section of these areas.
15:00 They complete cross-section. Sussex will begin placing clay cap tomorrow.
17:30 I leave site.

Sussex prepares area for clay cap and Brown & Butler does cross-section.

FIELD DATA - None

LABORATORY DATA - None

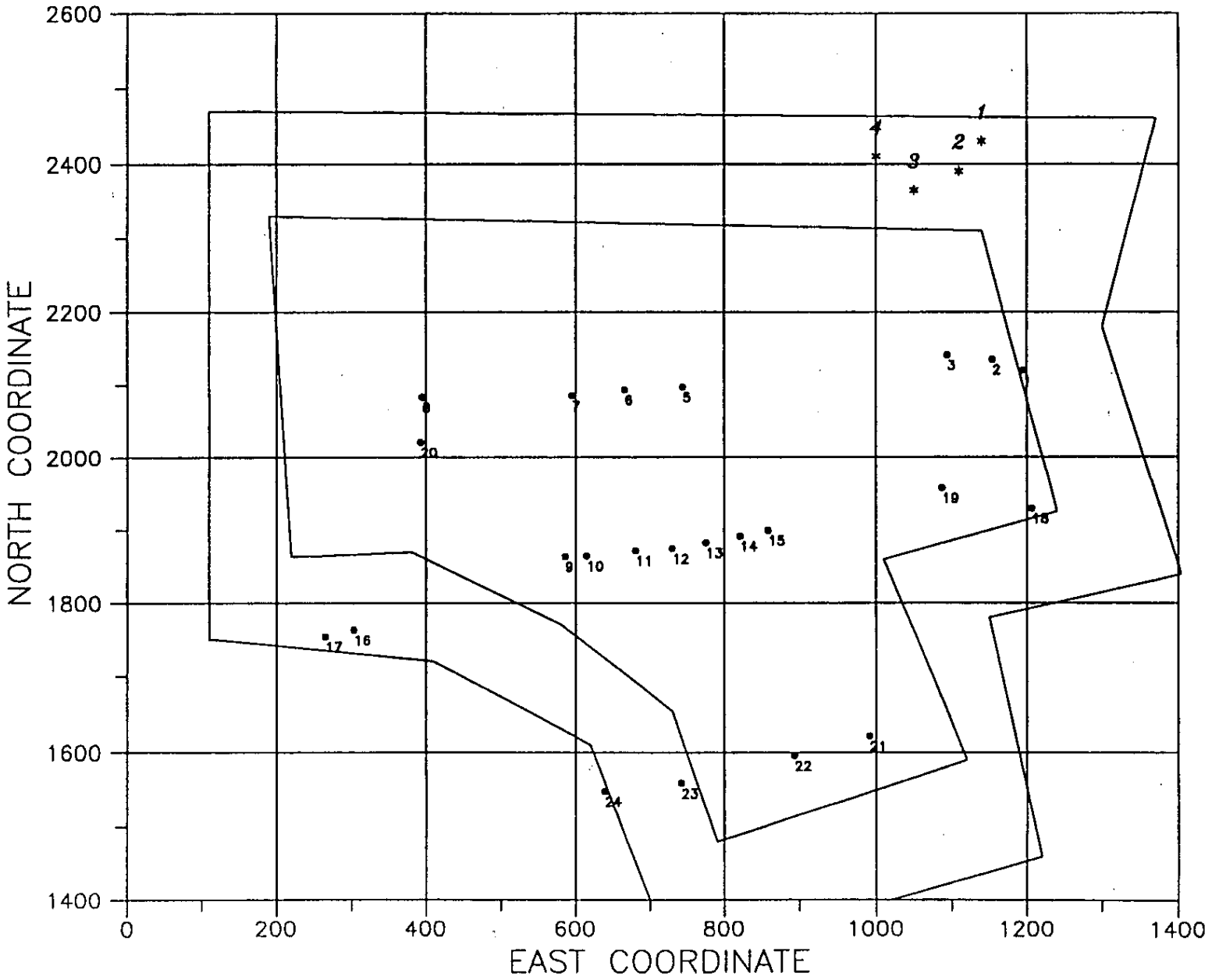
INSPECTOR Thomas A. Vrenick ENGINEER

ENCOR

TEST LOCATIONS

Rpt. No. 52-213

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-213	DATE:	10/25/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 50's - 60's	EQUIPMENT:	D-6 Dozer, 3 DJB's, 235 Backhoe, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:30 Sussex begins placing clay cap on northeast corner of Cell 717. They also continue to prepare the west end of the north slope for clay cap placement.
10:00 They continue placing clay cap on northeast corner of Cell 717. They have finished preparing the west end of the north slope for clay cap placement.
10:15 Sussex begins compacting portion of lift completed.
11:00 I take test 1 and 2. They meet specs. Sussex will begin lift in this area after lunch.
12:00 Lunch.
12:30 Sussex begins lift #2 in area of tests 1 and 2. They also finish compacting lift #1.
13:30 I take tests 3 and 4. They meet specs. Sussex continues placing lift #2.
15:30 Sussex finishes work for today.

Sussex places clay cap.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1.	2430	1140	89.1	19.9	100.7	92.3	P
2.	2390	1110	96.5	21.5	98.5	90.3	P
3.	2365	1050	114.0	21.4	98.5	90.4	P
4.	2410	1000	87.5	20.7	98.9	90.8	P

INSPECTOR Thomas A. Vrenick ENGINEER

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

REPORT NO: 52-213

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
4	49/32	-	19.1	-	-

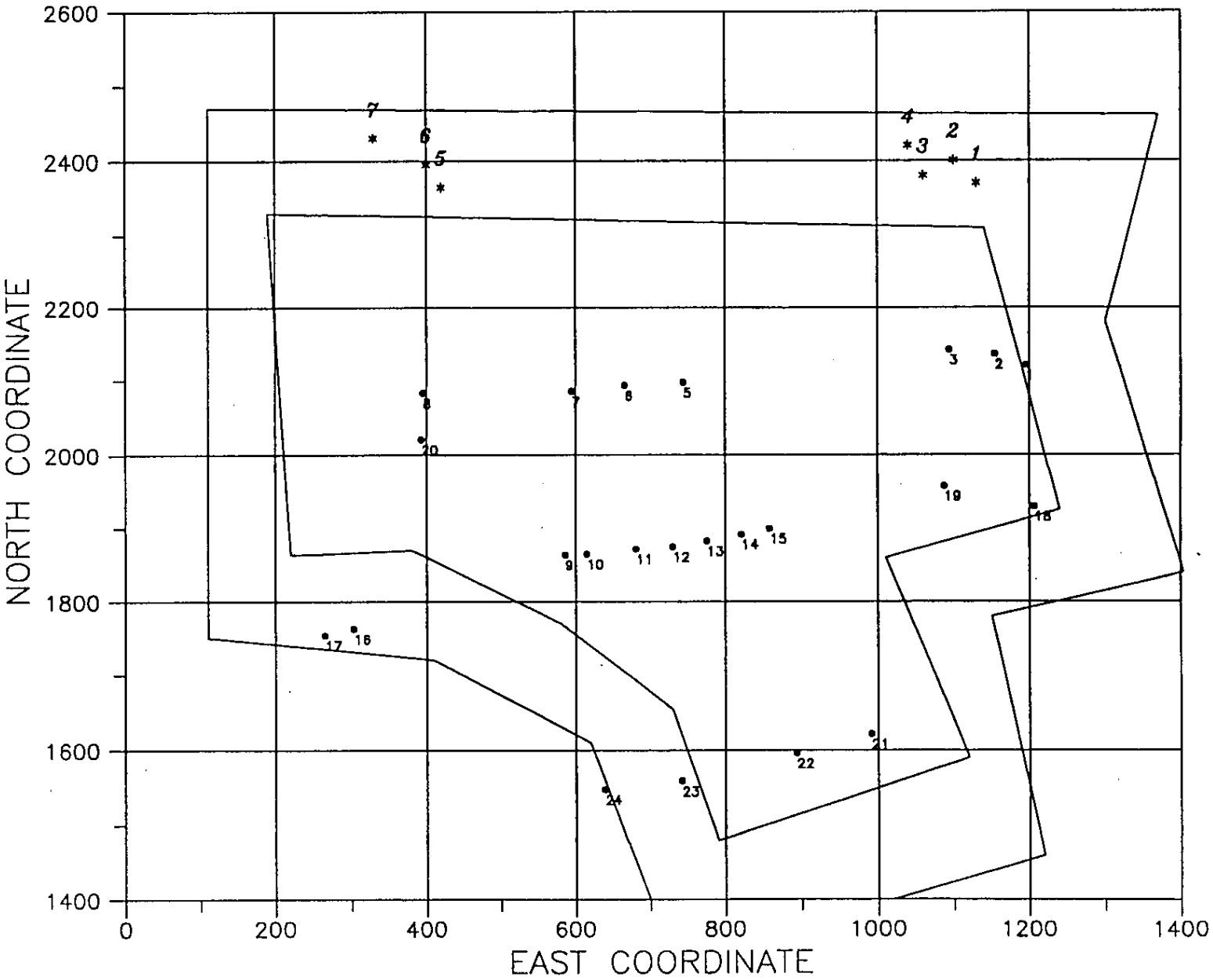
INSPECTOR Thomas A. Vreuick ENGINEER

ENCOR

TEST LOCATIONS

Rpt. No. 52-214

●●●●● Leachate Collection Well
✱✱✱✱✱ Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-214	DATE:	10/26/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 40's - 60's	EQUIPMENT:	235 Backhoe, 3 DJB's, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex continues lift on northeast corner and also is compacting part of lift completed.
08:30 They have finished lift in northeast corner and are compacting it. They also begin lift #1 on western end of north slope.
09:30 I take tests 1-4 on northeast corner. They meet specs.
10:30 They complete lift on western end and begin compacting it. They begin lift on northeast corner.
12:30 They finish compacting it and I take tests 5-7. They meet specs. Sussex will continue lift on northeast corner and compact it. That is all they will do today.
13:00 I leave site.

Sussex places clay cap on Cell 717.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1.	2370	1130	110.0	21.4	101.9	93.4	P
2.	2400	1100	97.0	21.0	102.2	93.7	P
3.	2380	1060	108.0	22.3	100.7	92.4	P
4.	2420	1040	94.0	20.8	100.0	91.7	P
5.	2365	420	110.0	23.0	101.3	92.9	P
6.	2395	400	98.0	19.3	98.3	90.2	P
7.	2430	330	89.0	20.5	98.5	90.4	P

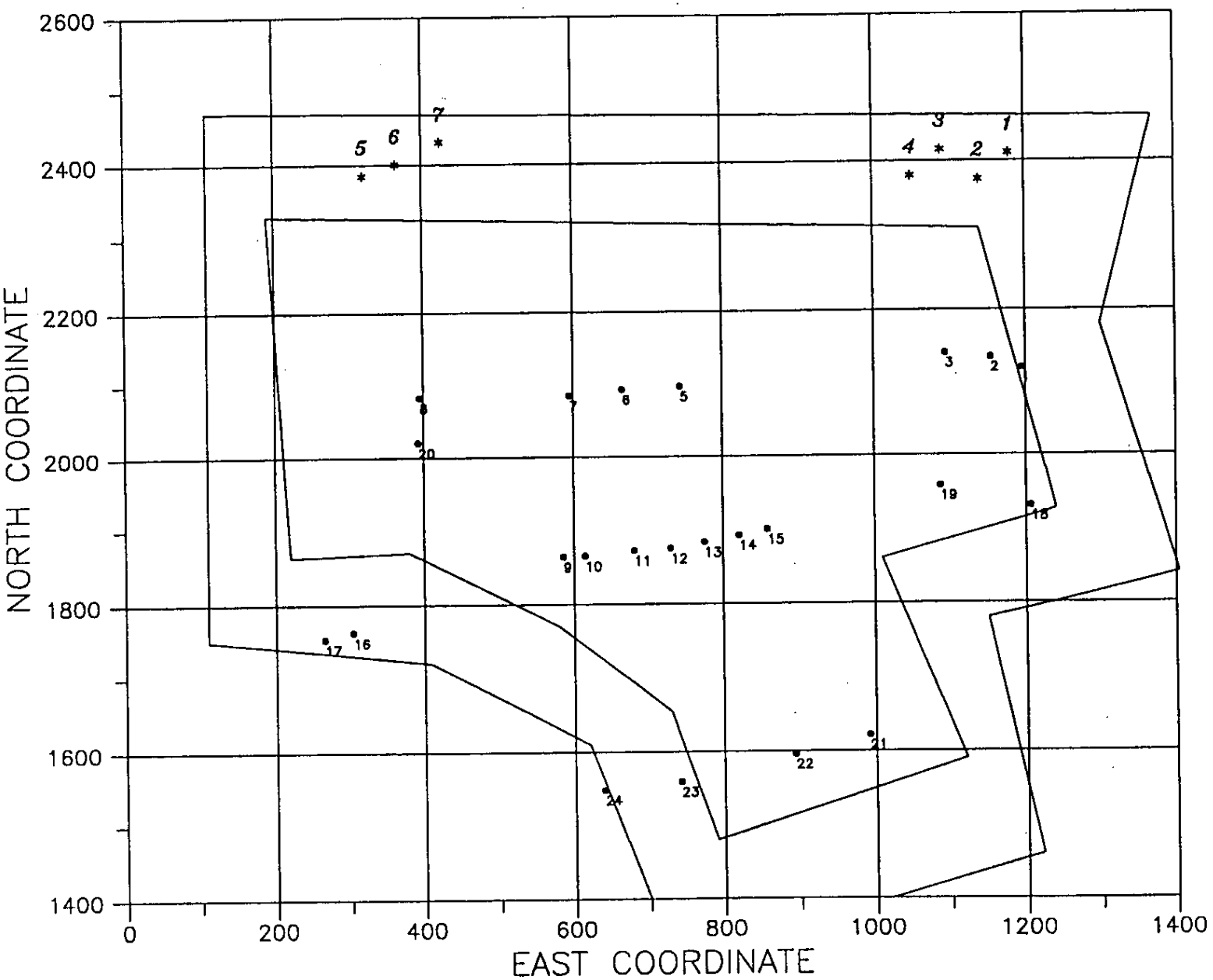
LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

ENCOR

TEST LOCATIONS

Rpt. No. 52-215



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-215	DATE:	10/29/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 50's - 70's	EQUIPMENT:	D-6 Dozer, 2 DJB's, 235 Backhoe, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex continues to place and compact lift on northeast corner of Cell 717.
08:00 They have finished compacting lift on northeast corner and begin lift on western end of north slope.
09:00 I take tests 1-4 on northeast corner. They meet specs.
10:00 Sussex continues placing lift on west end.
11:30 They complete lift on west end begin compacting it. They begin placing lift on northeast corner.
12:00 Lunch.
12:30 They resume compacting lift on west end and placing lift on northeast corner.
13:30 They have finished compacting lift on west end. I take tests 5-7. They meet specs.
14:00 Sussex continues placing lift on northeast corner. They begin compacting part of lift completed.
15:30 They finish work for today.
17:00 I leave site.

Sussex places clay cap on Cell 717.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1.	2410	1180	90.0	20.3	102.0	93.6	P
2.	2375	1140	113.0	19.4	102.5	94.0	P
3.	2415	1090	89.5	22.0	100.2	92.0	P
4.	2380	1050	112.0	17.5	104.3	95.7	P
5.	2385	320	109.0	19.4	99.2	91.1	P
6.	2400	365	99.5	20.3	101.2	92.9	P
7.	2430	425	86.5	17.8	98.6	90.5	P

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-216	DATE:	10/30/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 50's - 80's	EQUIPMENT:	D-6 Dozer, 2 DJB's, 235 Backhoe, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex continues lift on northeast corner. They are compacting as they place it.
09:30 They have finished placing lift on northeast corner and begin lift on west end.
10:00 They complete compaction on lift on northeast corner. I take tests 1-4. They meet specs. Brown & Butler is setting grades on this area.
10:30 Sussex begins compacting portion of lift on west end.
11:15 They have finished placing lift on west end of north slope. They continue compacting it.
11:45 I take tests 5-7 on west end. They meet specs.
12:00 Lunch.
12:30 Sussex begins placing lift on west end of north slope.
13:00 I take samples of material south of drop chute pipe and north of vertical liner. Samples indicate 1.5' of clay cap at these two locations. An additional 1.5' of clay cap will be placed in this area and tied into the vertical liner. Laboratory density and permeability tests will be performed on samples taken. T. Phillips (RES) agrees with this conclusion and we inform Sussex of the procedures for this area.
15:00 Sussex has placed and compacted lift on west end. I take tests 8-10 on this area. They meet specs.
15:15 Sussex finishes work for today.
17:00 I leave site.

Sussex places clay cap on Cell 717.

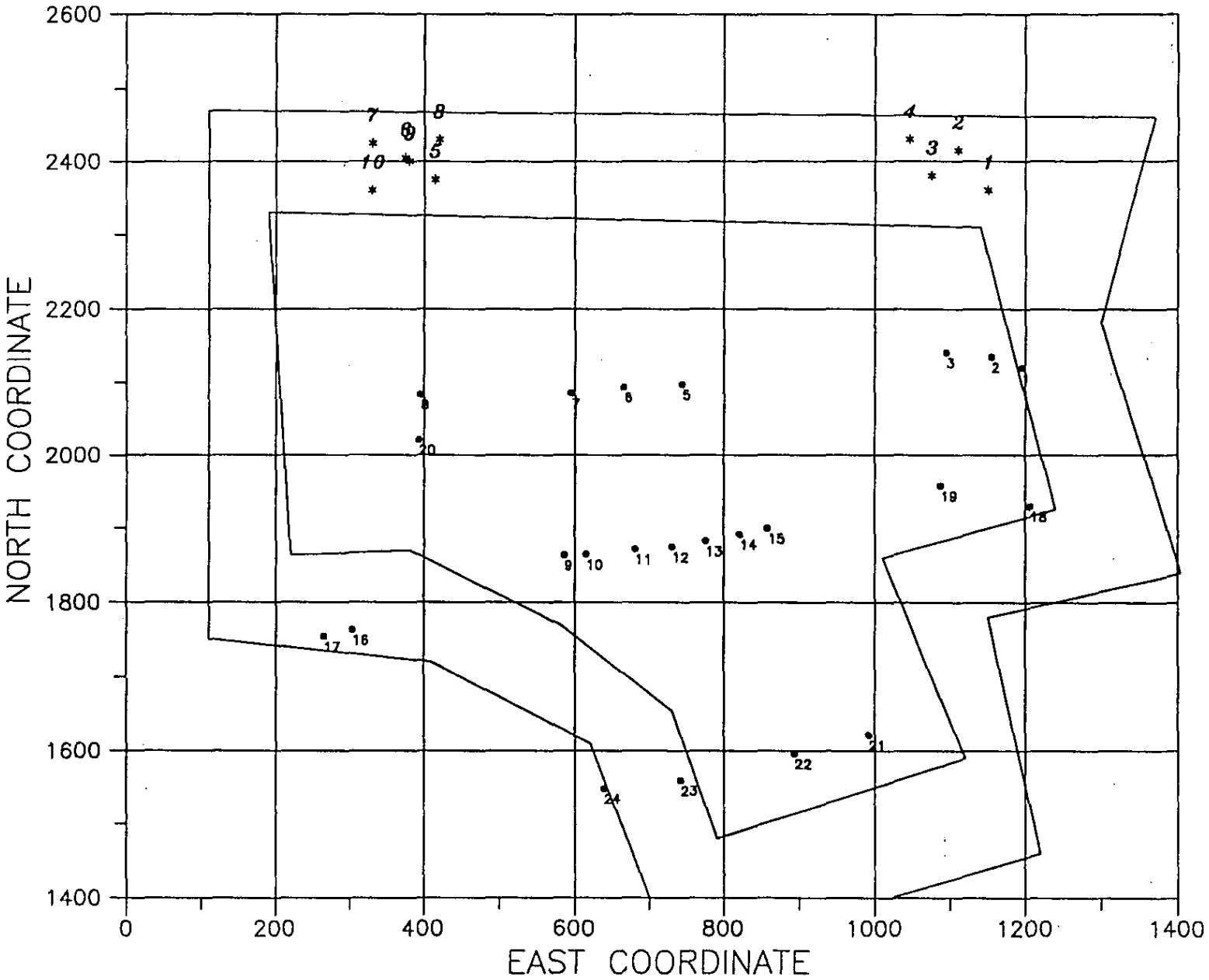
INSPECTOR Thomas A. Vrenick ENGINEER _____

ENCOR

TEST LOCATIONS

Rpt. No. 52-216

●●●●● Leachate Collection Well
✱✱✱✱✱ Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

REPORT NO: 52-216

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1.	2360	1150	111.0	17.7	105.3	96.6	P
2.	2415	1110	94.0	18.5	100.1	91.8	P
3.	2380	1075	108.0	19.3	99.3	91.1	P
4.	2430	1045	91.0	20.8	99.0	90.8	P
5.	2375	415	110.0	21.0	99.4	91.2	P
6.	2405	375	99.0	21.4	98.9	90.7	P
7.	2425	330	92.0	22.7	99.6	91.4	P
8.	2430	420	90.0	22.0	100.5	92.2	P
9.	2400	380	100.0	18.9	104.5	95.8	P
10.	2360	330	111.0	18.7	102.4	93.9	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
4	45/29	7.6×10^{-9}	19.1	108.9	-
6	51/35	-	19.0	-	-

INSPECTOR Thomas A. Vreuck ENGINEER [signature]

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-217	DATE:	10/31/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 50's - 80's	EQUIPMENT:	235 Backhoe, 3 DJB's, D-6 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins placing lift on northeast corner to bring this area to grade.
09:00 They continue placing lift.
10:00 They continue placing lift on northeast corner.
10:45 Sussex has finished placing lift on northeast corner and they begin lift on west end of north slope to bring this area to grade.
12:00 Lunch.
12:30 Sussex resumes placing lift on west end and they begin compacting lift on northeast corner.
13:30 They continue lift on west end and also compacting lift on northeast corner.
14:00 They finish lift on west end and begin compacting it. They also begin placing lift on area between drop chute pipe and vertical liner.
15:30 They finish work for today.
17:00 I leave site.

Sussex places clay cap on Cell 717.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-218	DATE:	11/1/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 50's - 80's	EQUIPMENT:	D-6 Dozer, 3 DJB's, 235 Backhoe, Vibratory Roller

ACTIVITIES SUMMARY

06:30 I arrive on site.
07:00 Sussex begins backfilling area between north edge of vertical liner and pipe from drop chute.
09:00 They finish placing and compacting clay cap in this area.
09:30 I take tests 1-5 on northeast corner. They meet specs. I take tests 6-8 on west end. They meet specs.
10:00 Brown & Butler does cross-section of both of these areas. They are to grade.
10:30 Sussex begins placing topsoil in these areas.
11:30 They continue placing topsoil.
12:00 Lunch.
12:30 Sussex resumes placing topsoil.
13:30 They continue placing topsoil.
14:30 They continue placing topsoil.
15:30 They finish work for today.

Sussex finishes clay cap and begins placing topsoil.

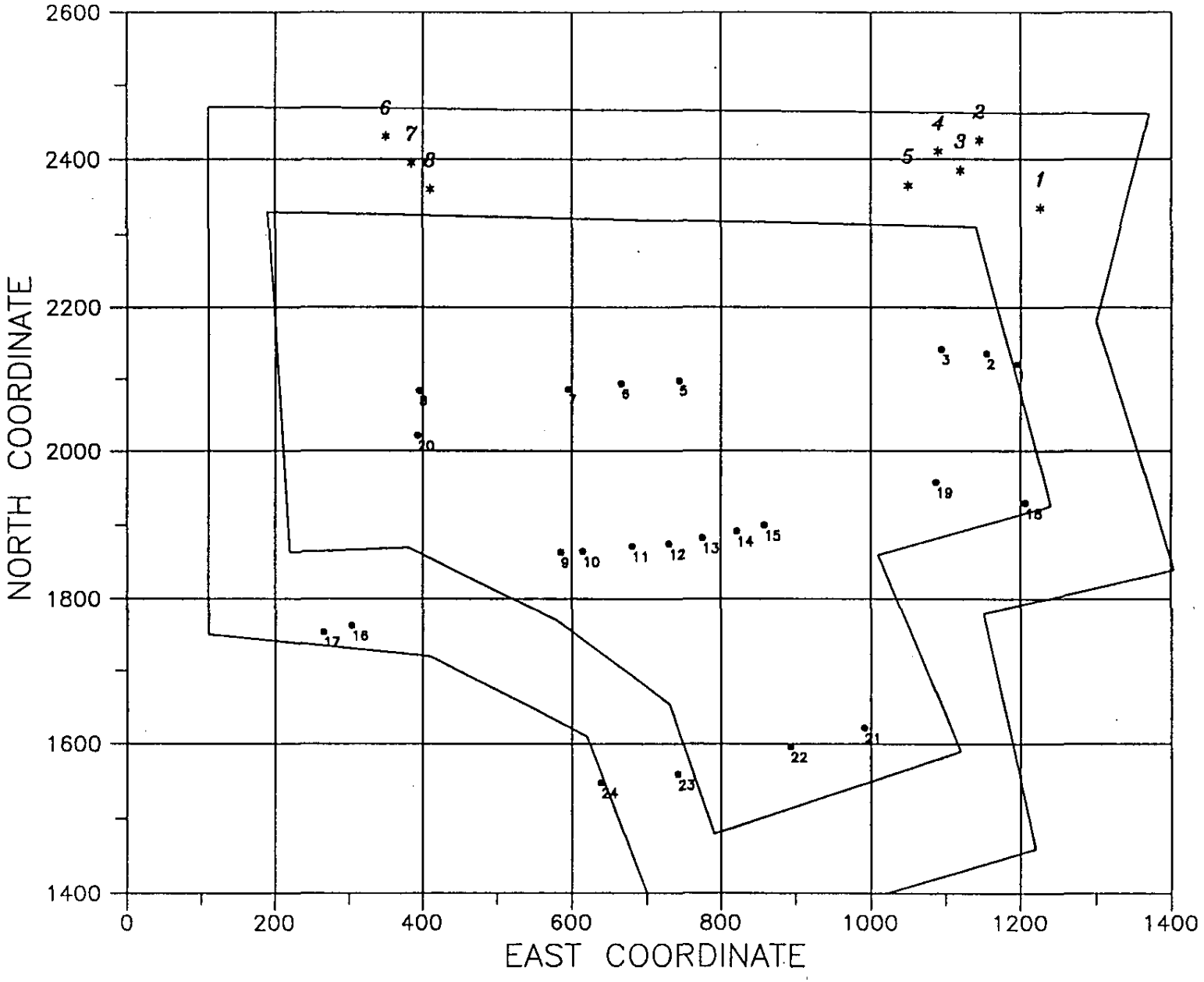
INSPECTOR Thomas A. Vrenick ENGINEER

ENCOR

TEST LOCATIONS

Rpt. No. 52-218

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

REPORT NO: 52-218

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1.	2335	1226	94.0	19.5	99.7	91.5	P
2.	2425	1145	90.5	17.6	104.7	96.1	P
3.	2385	1120	111.0	18.3	100.8	92.4	P
4.	2410	1090	92.5	18.2	102.9	94.4	P
5.	2365	1050	113.0	21.3	100.3	92.0	P
6.	2430	350	89.6	19.6	103.4	94.9	P
7.	2395	385	107.0	19.8	103.1	94.6	P
8.	2360	410	112.0	20.9	99.2	91.0	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
5	43/27	-	20.2	-	-
7	49/33	1.2×10^{-8}	18.1	104.9	-

INSPECTOR Thomas A. Wright ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-219	DATE:	11/2/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 50's - 80's	EQUIPMENT:	D-6 Dozer, 3 DJB's, 235 Backhoe

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex continues to place topsoil on northeast corner of Cell 717.
09:00 They continue placing topsoil.
10:30 They continue placing topsoil.
11:00 They finish placing topsoil on northeast corner and begin placing topsoil on west end of north slope of Cell 717.
12:00 Lunch.
12:30 Sussex resumes placing topsoil on north slope of Cell 717. Sussex will continue this work this afternoon.
13:00 I leave site.

Sussex places topsoil on Cell 717.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Furlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-220	DATE:	11/7/90
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 50's - 70's	EQUIPMENT:	D-6 Dozer, 2 DJB's

ACTIVITIES SUMMARY

07:30 Sussex begins placing topsoil on Cell 717.
09:00 Brown & Butler does cross-section of ditch along top of north slope.
11:00 Sussex begins placing topsoil in ditch .
12:00 Lunch.
12:30 Sussex resumes placing topsoil in ditch and on north slope.
14:00 They continue placing topsoil.
14:30 They finish work for today.

Sussex places topsoil on Cell 717.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Farlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-221	DATE:	05/20/91
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 70's-80's	EQUIPMENT:	D-6 Dozer

ACTIVITIES SUMMARY

No activities occurred during the period of 11/08/90 through 5/19/91. Due to poor weather conditions earthwork construction is very difficult during that time of the year.

07:00 I arrive on site.
09:00 Sussex begins preparing area adjacent to leachate wells for placement of clay cap. This area was not brought to final grade and Sussex plans to do so now.
10:30 They continue preparing this area.
13:30 I meet with T. Phillips (RES) and look over this area. Brown & Butler will be out tomorrow to set grades.

Sussex prepares area for placement of clay cap.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER William F. Pal
Charles R. Furlow
ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-222	DATE:	05/28/91
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 70's-80's	EQUIPMENT:	D-6 Dozer

ACTIVITIES SUMMARY

06:00 I arrive on site.
06:30 Check condition of backfill area. Too wet due to overnight rain. Sussex may do preparation work later in the day.
13:00 The backfill area has dried considerably so Sussex begins preparing this area.
14:00 They continue preparing area for clay cap placement.
15:30 Sussex finishes work for today.

Sussex prepares area for clay cap.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuster

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-223	DATE:	05/29/91
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 70's-80's	EQUIPMENT:	D-6 Dozer, 2 DJB's, 225 Backhoe

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:20 Sussex continues to prepare are for placement of clay cap.
09:00 Sussex begins placing clay cap.
10:00 They continue placing clay cap.
11:00 They continue placing clay cap.
12:00 Lunch
12:30 Sussex resumes placing clay cap.
13:30 They continue placing clay cap.
15:00 They finish placing clay cap in this area and seal it in case it rains overnight.
15:30 Sussex completes work for today. I leave site.

Sussex places clay cap.

FIELD DATA - None

LABORATORY DATA - None

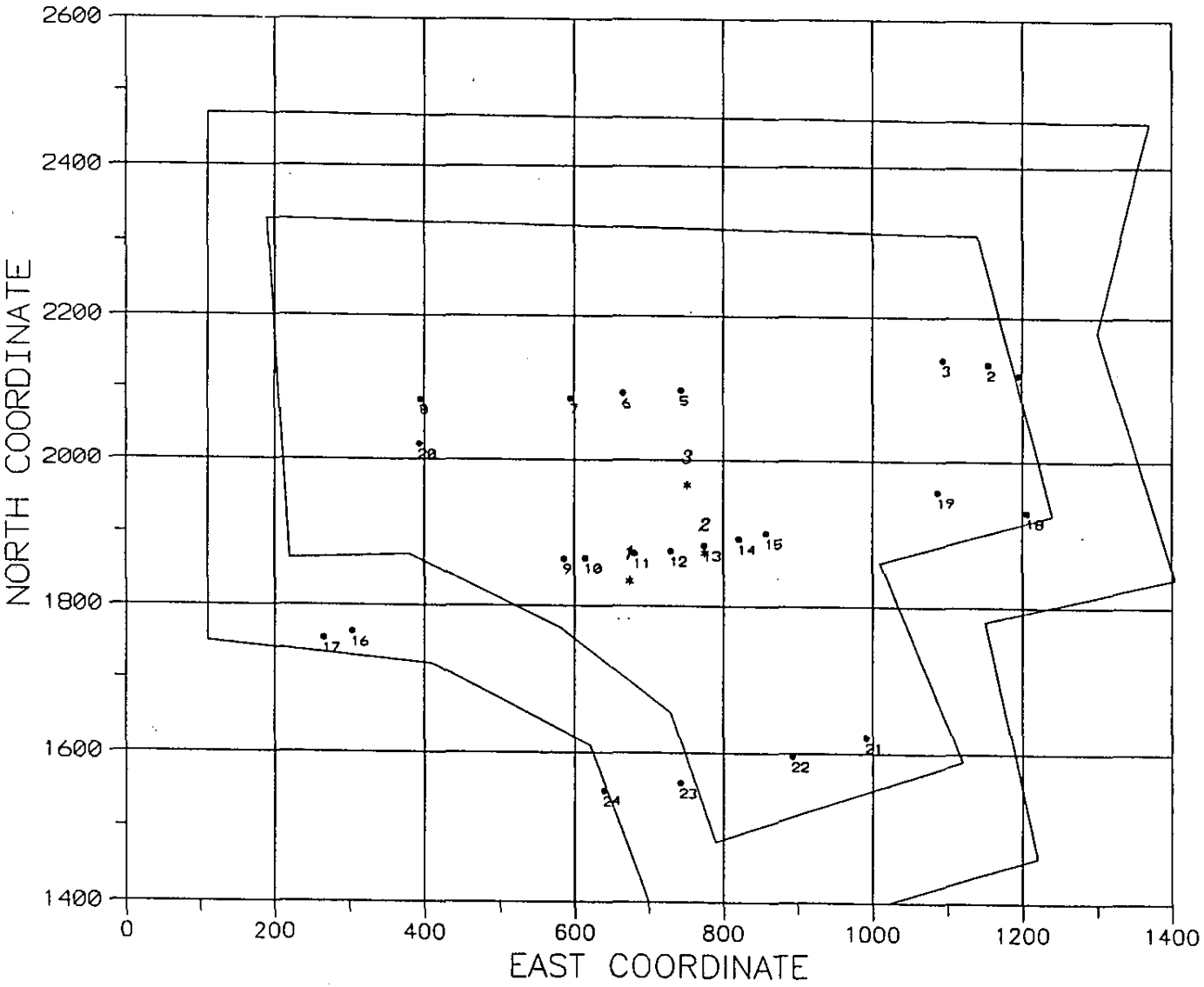
INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

TEST LOCATIONS

Rpt. No. 52-224

***** Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-224	DATE:	05/30/91
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 70's-80's	EQUIPMENT:	D-6 Dozer, Disc, Vibratory Roller

ACTIVITIES SUMMARY

06:30 I arrive on site.
07:30 T. Phillips (RES) and I inspect backfill area. Due to overnight rain the surface is wet. It is decided to remove this surface material.
09:00 Sussex removes the wet surface material. They then disc area to promote bonding with previous lift.
10:00 Sussex begins compacting lift.
11:30 I take tests 1-3 on this area. They meet specs.
12:00 Brown & Butler does cross-section of this area.
13:00 They verify it is to grade. Sussex then begins placing topsoil.
14:30 It begins to rain. Sussex can not do any additional work today.
15:30 I leave site.

Sussex compacts clay cap.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1.	1834	674	119.4	19.6	105.7	97.4	P
2.	1873	776	122.2	21.8	103.2	95.1	P
3.	1966	752	123.2	20.7	104.5	96.3	P

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-225	DATE:	05/31/91
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 70's-80's	EQUIPMENT:	D-6 Dozer

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:30 Due to overnight rains Sussex is unable to place topsoil at this time.
13:00 Sussex begins placing topsoil over areas that have dried adequately.
14:00 They continue placing topsoil.

Sussex places topsoil

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-226	DATE:	06/03/91
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 70's-90's	EQUIPMENT:	D-6 Dozer, 2 DJB's, 235 Backhoe

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins placing topsoil over clay cap placed last week.
09:00 They continue placing topsoil.
10:00 Sussex continues placing topsoil.
11:30 They continue to place topsoil.
12:00 Lunch
12:30 Sussex resumes placing topsoil.
14:00 They continue to place topsoil.
15:00 Sussex continues to place topsoil.
15:30 Sussex finishes work for today. They will continue to place topsoil tomorrow.

Sussex places topsoil

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-227	DATE:	06/04/91
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 70's-90's	EQUIPMENT:	D-6 Dozer, 2 DJB's, 235 Backhoe

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins placing topsoil on Cell 717.
09:30 They continue placing topsoil.
11:00 They continue placing topsoil.
12:00 Lunch
12:30 Sussex resumes placing topsoil.
14:00 Sussex completes placement of topsoil in this area. Brown & Butler will cross-section this area tomorrow to verify thickness.

Sussex places topsoil

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuston

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-228	DATE:	06/05/91
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 80's-90's	EQUIPMENT:	N/A

ACTIVITIES SUMMARY

08:00 Brown & Butler does cross-section of area Cell 717 just covered with topsoil.
10:00 They complete cross-section and verify it is to grade.

Brown & Butler verifies topsoil to grade.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Claude R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-229	DATE:	10/07/92
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	N/A	EQUIPMENT:	N/A

ACTIVITIES SUMMARY

No activities were conducted from 6/5/91 to 10/7/92 due to the capping and closure of Cell 901. This project was necessary to complete prior to completion of the closure of Cell 717.

14:00 Meet with T. Phillips (RES) and discuss grading activities for west slope of Cell 717 prior to placement of clay cap.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER William P. Paul
for Charles R. Furlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-230	DATE:	10/08/92
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy 60's-70's	EQUIPMENT:	D-6 Dozer

ACTIVITIES SUMMARY

10:30 Monitor grading activities prior to placing clay cap. Meet with John Arbuthnot and show him activities.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER William F. Paul
for Charles R. Furlan

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-231	DATE:	10/09/92
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 50's-70's	EQUIPMENT:	D-6 Dozer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:30 Sussex continues grading activities and exposing liner on west slope of 717.
10:00 Meet with John Arbuthnot and show him progress.
13:00 Sussex continues grading activities.
14:00 Sussex finishes grading work.

FIELD DATA - None

LABORATORY DATA - None

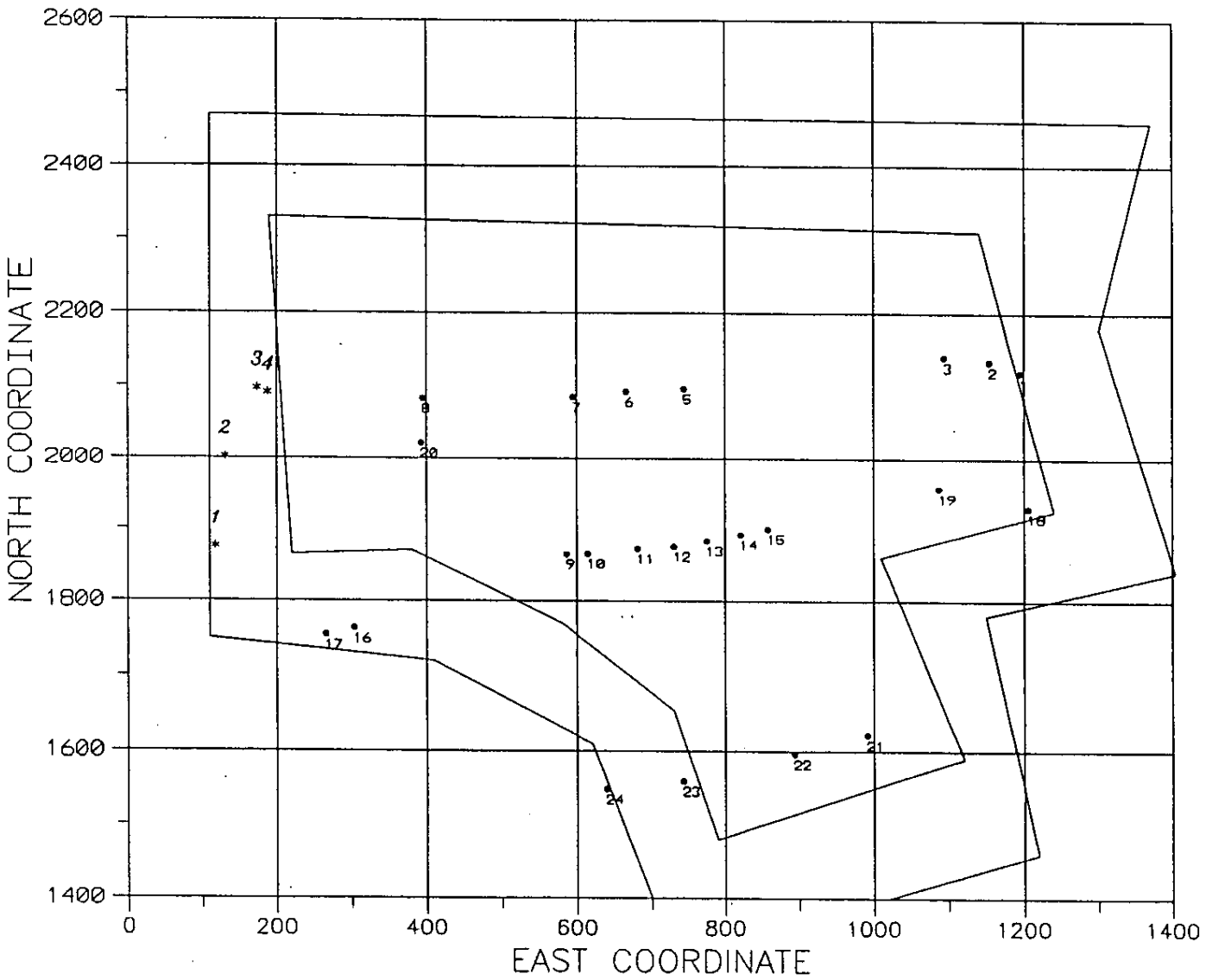
INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fowler

ENCOR

TEST LOCATIONS

Rpt. No. 52-232

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-232	DATE:	10/12/92
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	R. Gann
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 70's	EQUIPMENT:	D-7 Dozer, 2 DJB's, Vibratory Roller, Backhoe

ACTIVITIES SUMMARY

06:30 Travel to jobsite.

07:00 Gather supplies needed for testing clay liner on Cell 717.

08:30 ENCOR field representative tested clay liner (original) and obtained two perm & Atterberg samples to send to the lab. ENCOR field representative also took photos of clay liner at the southwest corner of the west slope. Brown & Butler on site cross-sectioning the southwest corner of west slope and locating clay liner coordinates and elevation. Brown & Butler also located test and sample points.

10:50 Brown & Butler has completed cross-sectioning.

10:53 Sussex starts to place lift 1 of clay liner on west slope in the southwest corner.

12:00 Lunch

12:30 Sussex starts to roll the area over the clay liner at the toe where it starts up the slope so that placement of Lift 1 can go straight across.

13:15 ENCOR field representative was asked to test the wedge and after the results were obtained this area meet specs.

13:30 Sussex continues to place Lift 1 on west slope and starts to compact Lift 1 on west slope behind fill procedures.

18:00 Leave jobsite.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1875	118	84.3	19.9	109.0	100.0	P
2	2002	131	91.1	21.2	106.2	92.9	P
3	2097	174	103.6	21.4	102.9	94.8	P
4	2091	188	109.5	20.0	104.8	96.6	P

INSPECTOR Thomas A. Vreuel for R. Gann ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

Report No: 52-232 Date: 10/12/92

LABORATORY DATA

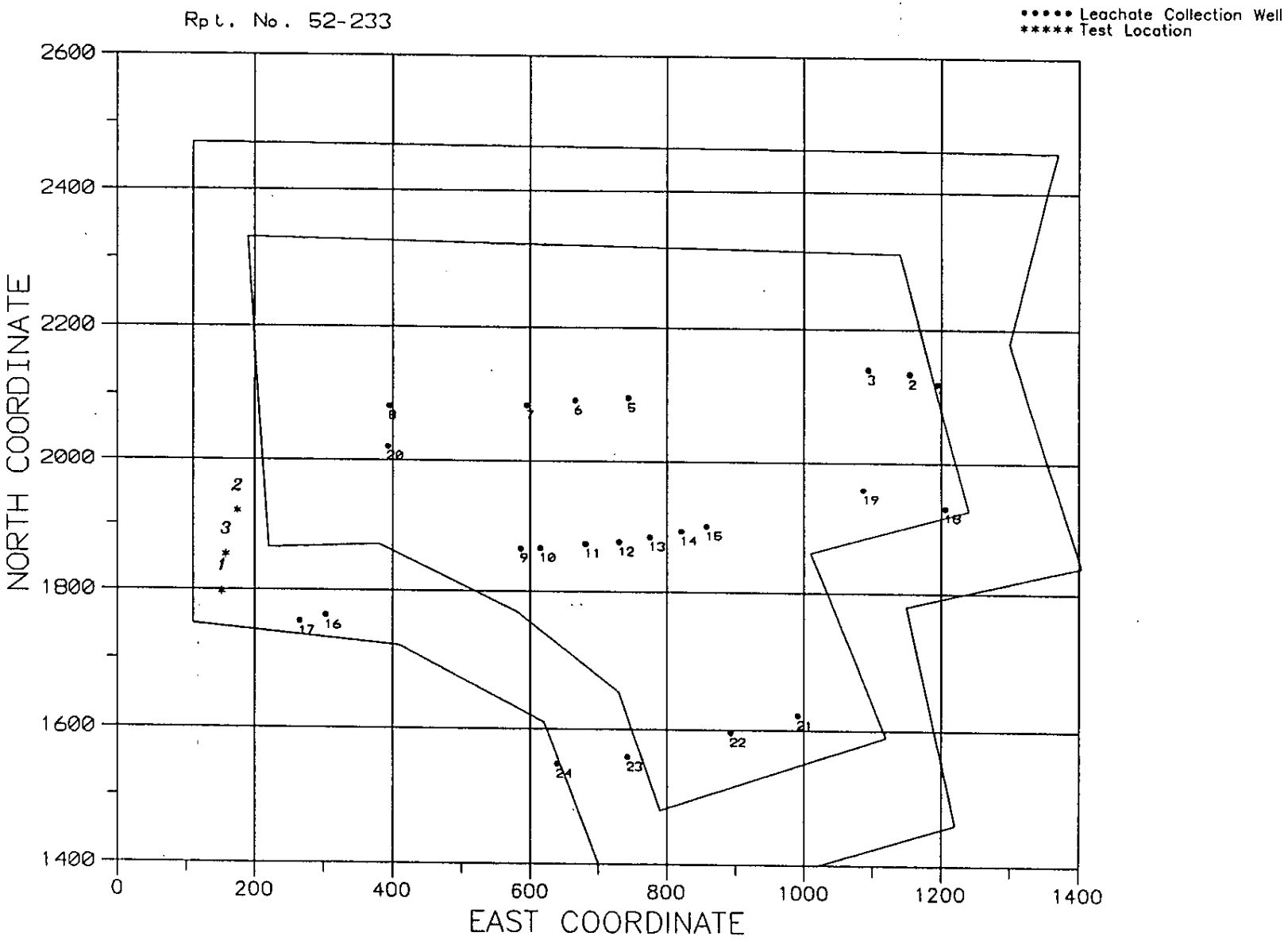
Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
1	52/38	3.3×10^{-10}	17.2	113.5	-
3	50/36	6.9×10^{-9}	22.6	102.7	-

INSPECTOR Thomas A. Vreeland for R. Cann ENGINEER Charles R Furlan

ENCOR

TEST LOCATIONS

Rpt. No. 52-233



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-233	DATE:	10/13/92
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	R. Gann
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 70's	EQUIPMENT:	D-7 Dozer, 2 DJB's, Vibratory Roller, Backhoe

ACTIVITIES SUMMARY

07:00 Gather supplies needed for testing and run standards on density gauge.
07:30 Sussex continues to place and compact lift 1 on the west slope of 717.
09:30 Sussex requested that lift 1 be tested on the west slope of Cell 717 and after the results were obtained, this area was passed.
10:00 Sussex starts to place lift 2 on west slope of Cell 717 in the southwest corner.
12:00 Lunch
12:30 Sussex resumes placement of lift 2 on the west slope. Sussex is also cutting the slurry wall bench and has Brown and Butler come onsite to locate the bench.
15:15 Sussex stops work activities for the day.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1797	152	107.6	19.8	100.5	92.6	P
2	1920	175	104.2	20.0	105.2	96.9	P
3	1853	158	99.3	20.8	104.2	96.0	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
2	47/28	5.7×10^{-9}	19.1	108.5	-

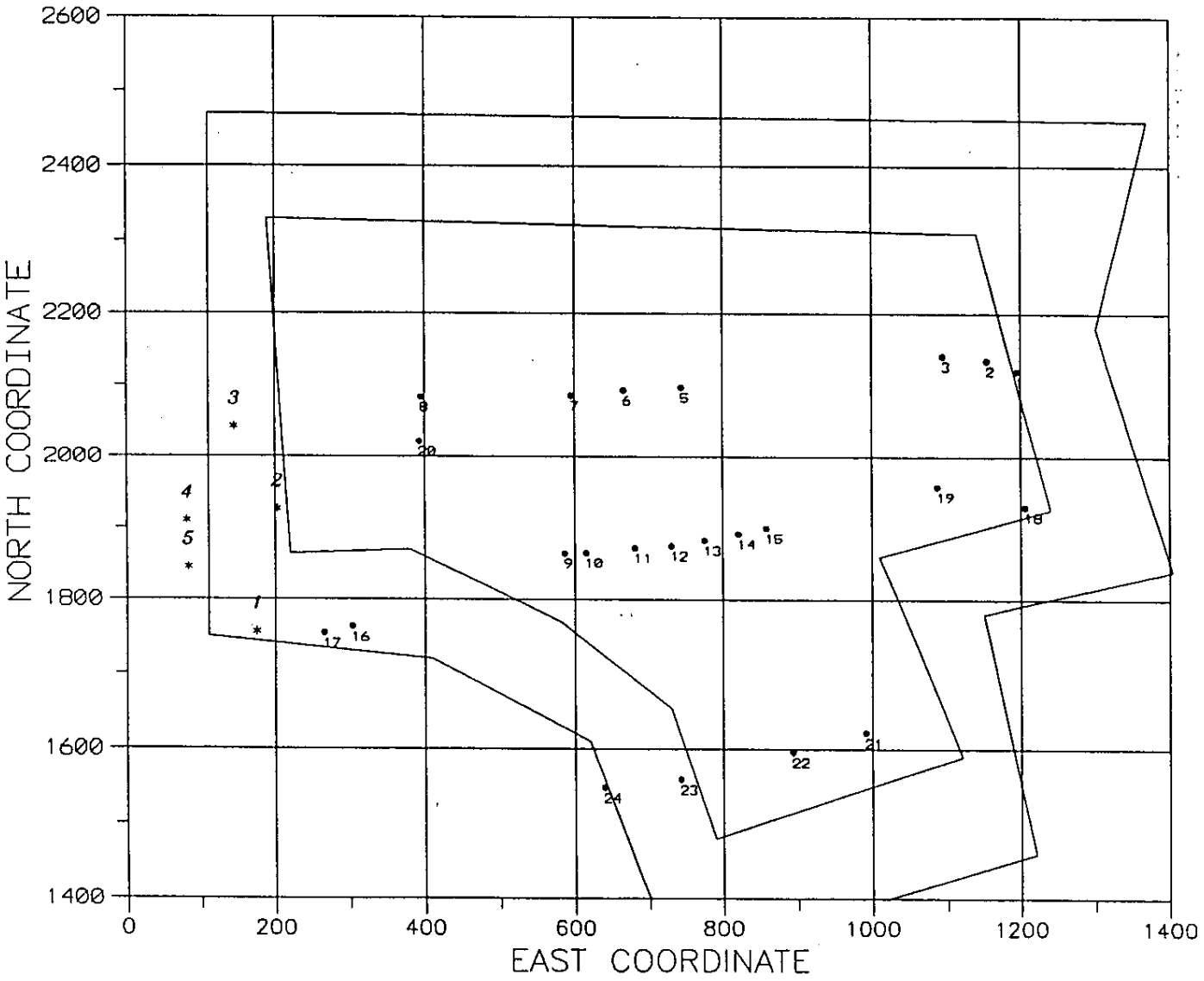
INSPECTOR Thomas A. Vranish for R. Gann ENGINEER Charles R. Foster

ENCOR

TEST LOCATIONS

Rpt. No. 52-234

••••• Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-234	DATE:	10/14/92
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	R. Gann
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 70's	EQUIPMENT:	D-7 Dozer, 2 DJB's, Vibratory Roller, Backhoe

ACTIVITIES SUMMARY

06:30 Travel to jobsite.

07:00 Sussex continues to place and compact Lift 2 on west slope of Cell 717. Sussex requested that Lift 2 be tested on the southwest corner of Cell 717 and after tests results were obtained this area meet specs.

09:30 T. Vrenick and R. Gann of ENCOR discuss Lift 1 placement on slurry wall bench and around leachate collection well and decided that each lift should be compacted around the well as they place it.

09:45 ENCOR field representative informed T. Phillips of RES that Sussex needs to compact around Leachate well as they go and he said he would talk to Sussex about it.

10:15 Sussex continues to place and compact Lift 1 on slurry wall bench.

11:00 Sussex completes Lift 1 on slurry wall bench. T. Phillips of RES informs ENCOR field representative that they were not going to place anymore fill material on slurry wall bench or west slope of 717 until they start to haul from new pit. Sussex has completed Lift 1 on slurry wall bench.

12:00 Lunch

12:30 Sussex continues to roll Lift 1 on slurry wall bench.

13:30 Sussex requested that tests be taken on Lift 1 on slurry wall bench and after the results were obtained this area meet specs.

14:00 Finished for the day.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1756	175	106.0	21.8	102.1	94.1	P
2	1926	203	97.9	21.0	104.2	96.0	P
3	2042	145	96.3	19.4	107.5	99.1	P

INSPECTOR Thomas A. Vrenick for R. Gann ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

Report No: 52-234 Date: 10/14/92

4	1910	81	86.0	20.4	105.8	97.5	P
5	1845	83	84.9	21.0	101.9	93.9	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
3	46/29	4.4×10^{-9}	18.4	108.5	-

INSPECTOR Thomas A. Vretuch for R. Gann ENGINEER Charles R. Furlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-235	DATE:	10/20/92
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 50's-80's	EQUIPMENT:	D-6 Dozer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:30 Sussex begins grading next area on west slope prior to placement of clay cap.
10:00 They continue grading and preparing west slope.
12:00 Lunch
12:30 Sussex resumes grading west slope.
15:30 Sussex finishes work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles L. Farlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-236	DATE:	10/21/92
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 50's-80's	EQUIPMENT:	D-6 Dozer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:30 Sussex begins grading west slope prior to placing clay cap.
10:00 They continue grading activities.
12:00 Lunch
12:30 Sussex resumes grading activities.
15:00 Sussex finishes work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-237	DATE:	10/22/92
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 60's-80's	EQUIPMENT:	D-6 Dozer

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:30 Sussex begins grading west slope for placement of clay cap.
10:00 They continue grading activities.
11:00 Brown and Butler does cross-section on graded areas.
12:00 Lunch
12:30 Sussex begins grading west end of north slope prior to placing clay cap.
14:30 They continue grading activities.
15:30 Sussex finishes work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-238	DATE:	10/23/92
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 60's-80's	EQUIPMENT:	D-6 Dozer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:30 Sussex begins grading the west end of the north slope prior to clay cap placement.
09:00 They continue grading activities.
12:00 Lunch
12:30 Sussex resumes grading activities.
13:00 Bring John Arbuthnot to area to inspect progress.
15:00 Sussex finishes grading activities for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Taylor

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-239	DATE:	10/26/92
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 60's-80's	EQUIPMENT:	D-6 Dozer, 2-Trucks

ACTIVITIES SUMMARY

07:00 I arrive on site.
08:00 Brown & Butler does cross-sections on areas prepared for placement of clay cap.
11:00 They complete cross-section. This area is ready for placement of clay cap.
12:30 Sussex begins placing lift #1 on north end of west slope. Material is from the Highway 61 borrow site. This material has a proctor value of 109.4 pcf and an optimum moisture content of 17.6%.
14:30 They continue placing lift #1.
15:30 They finish work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Turlo

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-240	DATE:	10/27/92
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy 60's-80's,light rain	EQUIPMENT:	D-6 Dozer, 2-Trucks

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:30 Sussex continues placing lift 1 on the north end of the west slope. They are using material from the Highway 61 Borrow site.
09:30 They continue placing lift.
11:00 They continue placing lift.
12:00 Lunch
12:15 Begins to rain.
12:45 Sussex does not plan to place additional clay cap today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-241	DATE:	10/28/92
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 60's-80's	EQUIPMENT:	D - 6 Dozer, Vibratory Roller, 3-Trucks

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex continues placing clay cap on west slope of Cell 717.
09:00 They begin compacting this lift on west slope.
11:00 They continue to place and compact clay cap on the west slope.
12:00 Lunch
12:30 Sussex resumes placing and compacting clay cap on the west slope.
14:00 They continue placing and compacting clay cap.
15:30 Sussex finishes work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-242	DATE:	10/29/92
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 60's-80's	EQUIPMENT:	D - 6 Dozer, Vibratory Roller, 7-Trucks

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex continues placing and compacting clay cap on west slope.
09:00 They continue placing and compacting clay cap on west slope.
11:00 They have finished lift on west slope and begin lift on back slope of slurry wall bench.
12:00 Lunch
12:30 They continue placing and compacting lift on back slope of slurry wall bench.
14:30 Sussex has completed lift on back slope of slurry wall bench. They begin lift in ditch on the top of Cell 717 in the northwest corner.
16:00 They finish work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Furlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-243	DATE:	11/17/92
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	R. Gann
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 50's-70's	EQUIPMENT:	D-7 Dozer, Vibratory Roller, 2 Trucks

ACTIVITIES SUMMARY

No activities were conducted from 10/29/92 to 11/17/92.

07:15 Sussex discusses whether to haul offsite fill material to Cell 717.
10:00 Offsite fill material starts to arrive at jobsite. Sussex is placing fill material on top in the northwest corner of Cell 717 as Lift 1.
12:00 Lunch
12:30 Sussex continues to place Lift 1 of top of Cell 717 in the northwest corner.
15:00 Leave jobsite.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick for R. Gann ENGINEER Charles R. Furlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-244	DATE:	11/18/92
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 50's-70's	EQUIPMENT:	D - 7 Dozer, Vibratory Roller, 4-Trucks

ACTIVITIES SUMMARY

07:00 I arrive on site.
08:30 First trucks with borrow material from Highway 61 borrow pit arrive on site. Sussex begins placing this material on top of Cell 717 in the northwest corner. They are compacting material as it is placed.
10:00 Sussex continues to place and compact clay cap on the northwest top of Cell 717.
11:00 Sussex continues to place and compact clay cap.
12:00 Lunch
12:30 Sussex resumes placing and compacting clay cap.
15:00 Sussex continues to place and compact clay cap on top of Cell 717 in the northwest corner of Lift 1.
16:00 Sussex stops work for the day.
16:30 Leave jobsite.

Sussex places and compacts clay cap on top of Cell 717.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-245	DATE:	11/19/92
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 55-75	EQUIPMENT:	D - 7 Dozer, Vibratory Roller, 4-Trucks

ACTIVITIES SUMMARY

07:00 Sussex starts to place Lift 1 on the top of Cell 717 in the northwest corner.
10:00 Sussex continues to place fill and also starts to compact fill material.
12:00 Lunch
12:30 Sussex continues to place and compact fill on top of Cell 717.
15:00 Sussex blades fill area off so that it will drain if it rains tonight.
16:00 Sussex stops hauling operation for the day.
16:00 Do paperwork.
16:30 Leave jobsite.

Sussex places and compacts clay cap on top of Cell 717 in northwest corner.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-246	DATE:	11/30/92
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	R. Gann
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 40-50	EQUIPMENT:	D - 7 Dozer, Vibratory Roller, 3-Dump Trucks

ACTIVITIES SUMMARY

Due to frequent rains and the Thanksgiving holiday, no work was done from 11/19 to 11/29.

07:00 Sussex has back-dragged Lift 1 on top of Cell 717 and waits for offsite fill material to arrive so that Lift 1 can be completed.
11:00 Sussex has started to receive backfill material on top of Cell 717.
12:00 Lunch
12:30 Sussex continues to place Lift 1 on top of Cell 717.
15:00 Sussex has completed placement of Lift 1 on top of Cell 717 and has now started to place fill along the north slope at the top of Cell 717. ENCOR field representative talked to T. Phillips of RES about removal of the clay that washed down the north slope and was deposited into the ditch. T. Phillips of RES stated that Sussex would remove the silt from the ditch and spread it out so that it can dry. Sussex stops work for the day.
15:30 Do paperwork.
16:00 Leave jobsite.

Sussex completes Lift 1 on top of Cell 717 and starts to place fill along the north slope.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Wrenick for R. Gann ENGINEER Charles R. Gann
ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-247	DATE:	12/01/92
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	R. Gann
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 40-60	EQUIPMENT:	D-7 Dozer, Vibratory Roller, 6-Dump Trucks, Rome Disc and D-6 Dozer

ACTIVITIES SUMMARY

07:10	Sussex starts to back-drag clay out of ditch at toe of slope, and they also start to receive offsite fill material and place it along the north slope.
10:00	Sussex continues to place lift on north slope of Cell 717.
11:00	They continue placing lift.
12:00	Lunch
12:30	Sussex resumes placing lift on north slope.
14:00	Sussex continues lift on north slope.
15:00	They have finished placing lift on north slope. They then begin placing material on slope of bench. They are working on north end of bench. The south end has a lift on it.
16:00	Sussex completed work for today.

Sussex cleans silt out of the ditch and place Lift 1 on the north slope.

FIELD DATA - None

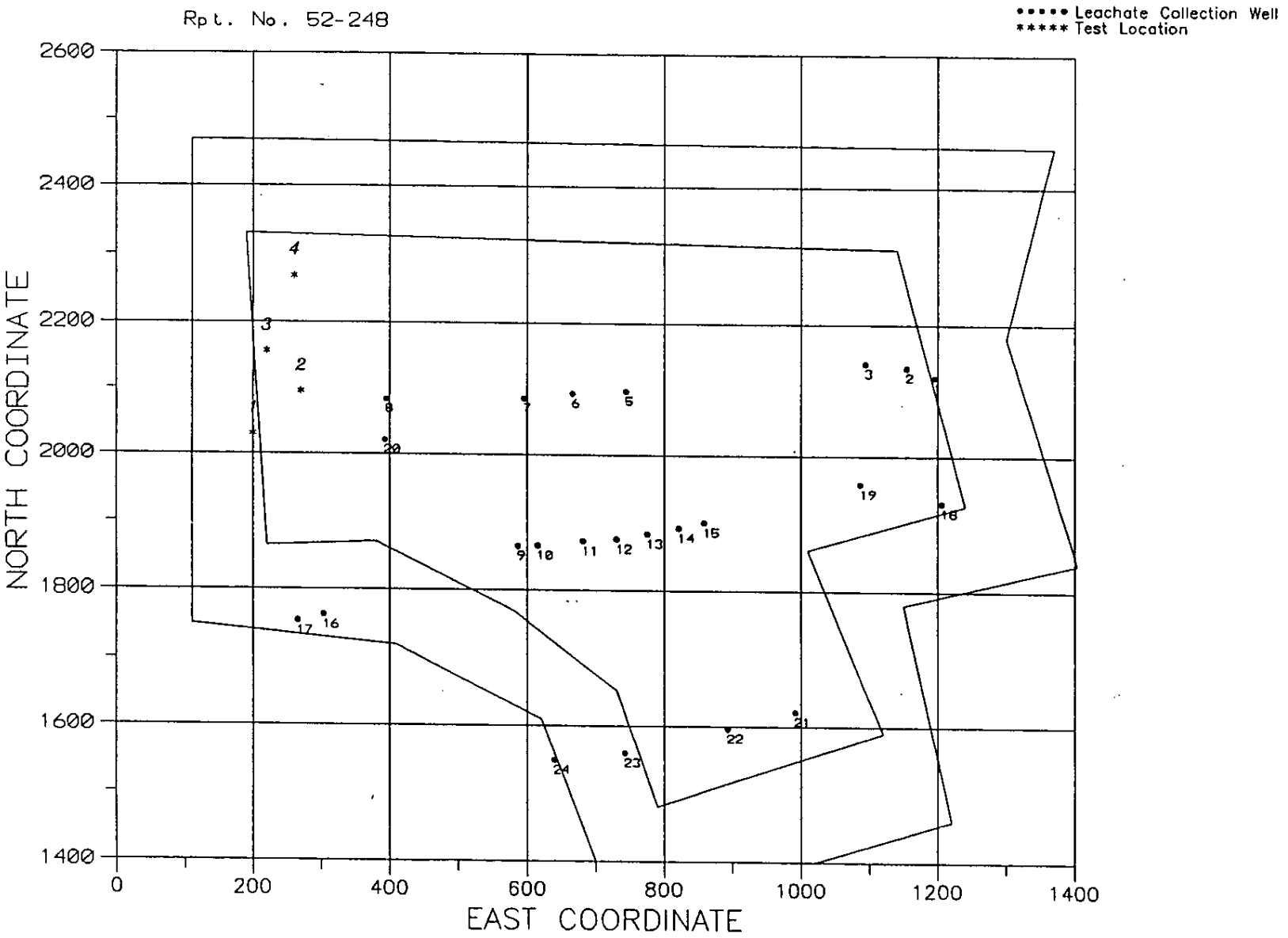
LABORATORY DATA - None

INSPECTOR Thomas A. Vrenich for R. Gann ENGINEER Charles R. Furlow

ENCOR

TEST LOCATIONS

Rpt. No. 52-248



EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-248	DATE:	12/02/92
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 40's-60's	EQUIPMENT:	D - 7 Dozer, Vibratory Roller, 6-Dump Trucks

ACTIVITIES SUMMARY

07:00 I arrive on site. Sussex begins placing lift on slope of bench. They also begin reworking south end of west slope. This area had been tested on 10/14/92 (DFR 52-234) but had some shallow wash- outs due to rain. They back-drag this area and recompact.
08:30 I take tests 1-4 on top of northwest corner of Cell 717. They meet specs.
10:00 Sussex begins compacting lift on north slope.
12:00 Lunch
12:30 Sussex resumes compacting lift on north slope.
13:00 They begin compacting lift on slope of bench. They have finished reworking south end of west slope. They now move to next section of west slope and begin reworking this area. This area has not been tested.
14:00 Sussex begins placing lift on south end of west slope.
15:00 They continue placing lift on west slope.
16:00 Sussex finishes work for today.
17:30 I leave site.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	2030	200	113.1	23.1	100.5	91.9	P
2	2095	270	113.4	24.1	102.1	93.3	P
3	2156	220	114.0	23.1	101.6	92.9	P
4	2268	260	113.7	18.0	110.1	100.6	P

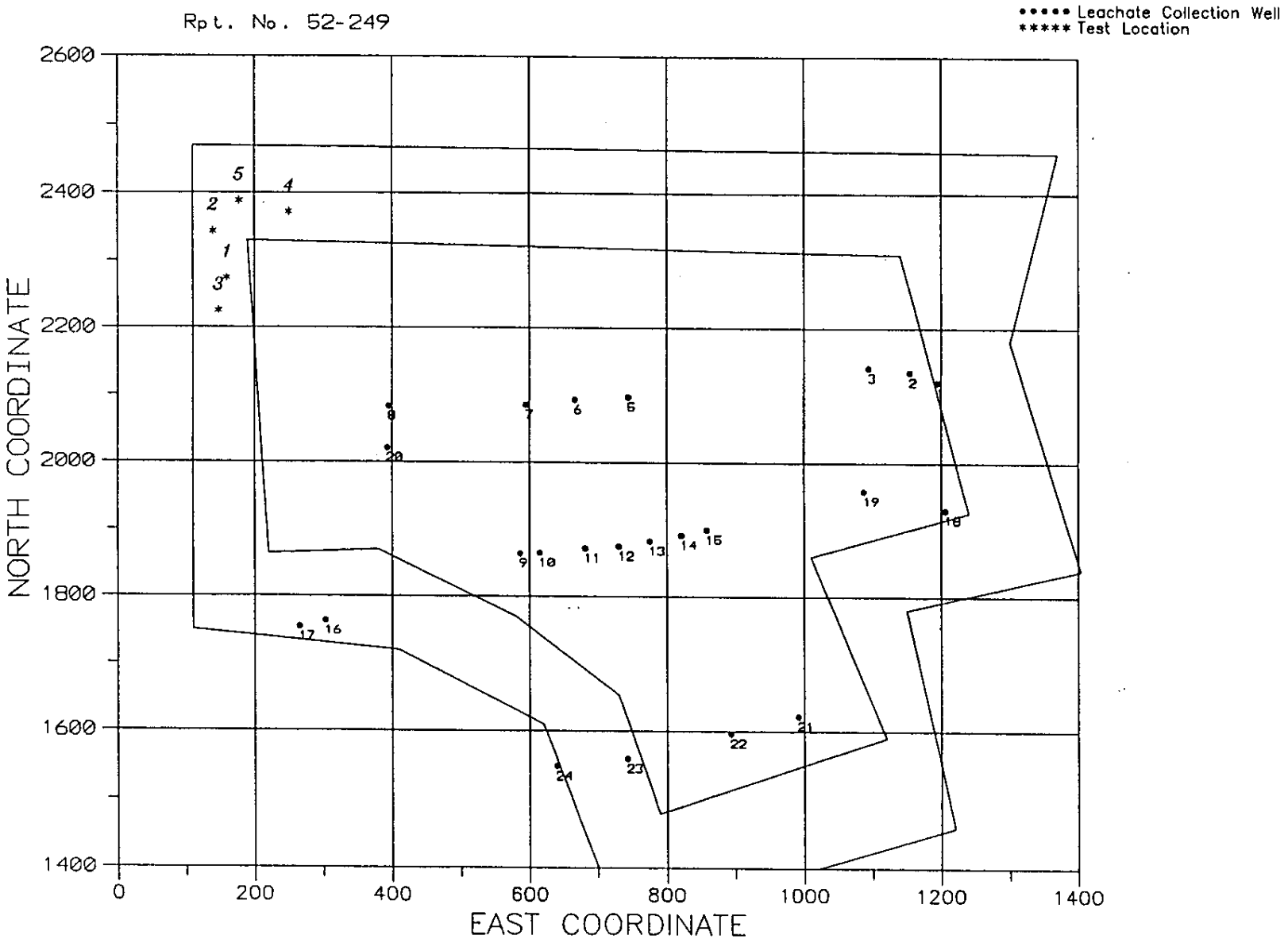
LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

TEST LOCATIONS

Rpt. No. 52-249



EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-249	DATE:	12/03/92
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 40's-60's	EQUIPMENT:	D-7 Dozer, Vibratory Roller, 14 Trucks

ACTIVITIES SUMMARY

07:00 I arrive on site. Sussex continues placing lift on south end of west slope. This is lift #3 in this area.

08:00 They begin compacting lift #1 on north slope and reworking lift #1 on north part of west slope.

10:00 They continue placing lift on west slope. They also continue compacting north slope. They have finished reworking north part of west slope.

12:00 Lunch

12:30 Sussex resumes placing lift on south end of west slope.

13:30 They also begin placing lift on the northwest top that was tested yesterday.

14:00 I take tests 1-3 on north part of west slope. Tests 1 & 2 meet specs but 3 did not. Sussex will recompact this area.

14:30 I take tests 4 and 5 on the north slope. They meet specs.

15:00 Sussex continues placing lift #3 on the south end of west slope. They also begin recompacting area of test #3.

16:00 They stop placing clay but begin to compact lift placed on south part of west slope.

16:30 They continue to compact lift placed on west slope. They are also dressing up lift placed on top.

17:00 Sussex finishes work for today.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	2274	160	105.2	24.0	101.4	92.6	P
2	2343	140	99.7	21.5	101.5	92.7	P
3	2225	148	-	26.3	94.3	86.2	F
4	2372	250	91.4	22.8	99.3	90.8	P
5	2388	178	87.6	21.3	102.8	94.0	P

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.
(continued)

REPORT NO: 52-249 Date: 12/03/92

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
2	51/37	-	16.6	-	-
5	49/35	-	17.5	-	-

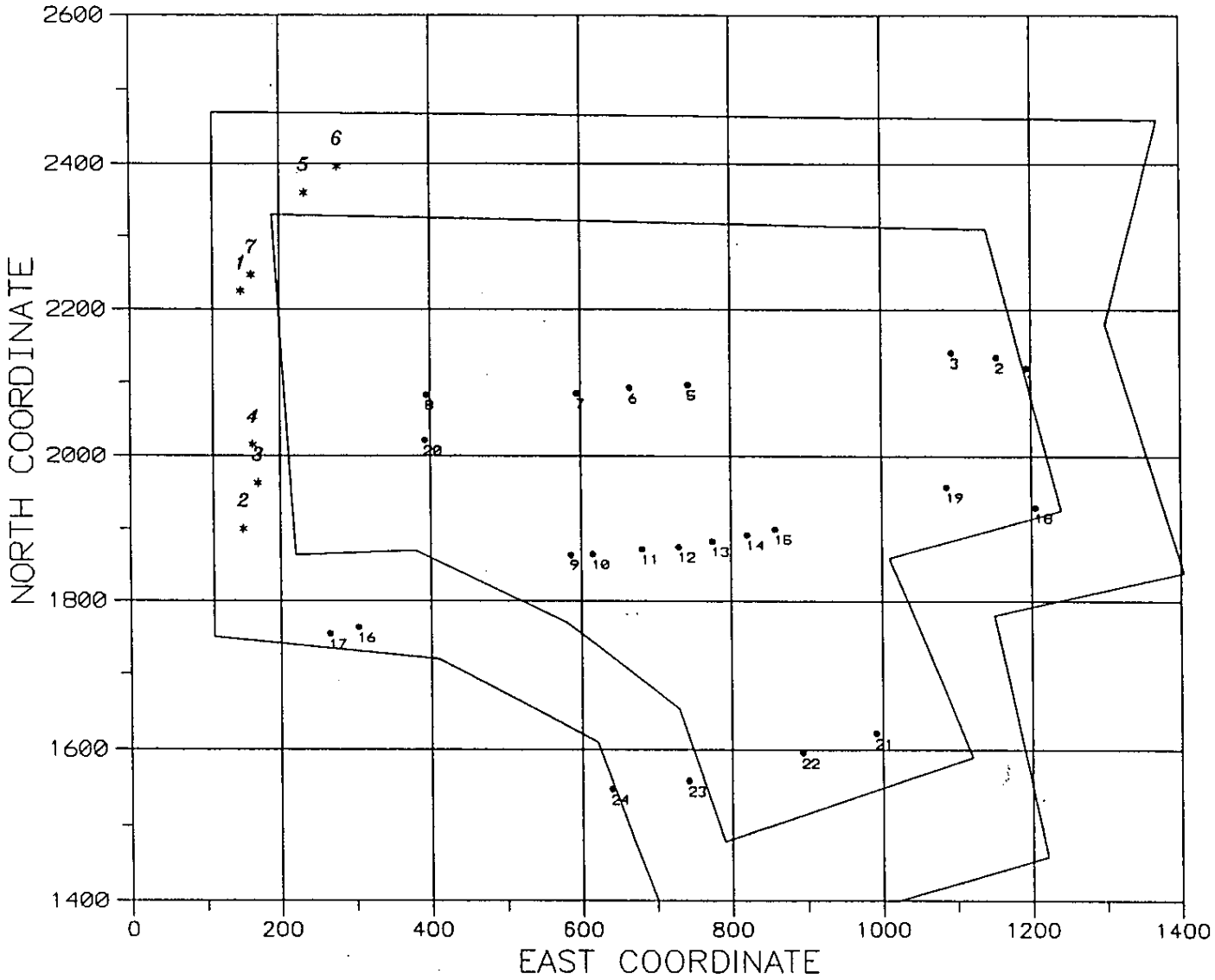
INSPECTOR Thomas A. Vreuick ENGINEER Charles R. Furlow

ENCOR

TEST LOCATIONS

Rpt. No. 52-250

●●●●● Leachate Collection Well
***** Test Location



EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-250	DATE:	12/04/92
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 50's-60's, rain	EQUIPMENT:	D - 7 Dozer, Vibratory Roller, Trucks

ACTIVITIES SUMMARY

07:00 I arrive on site. Sussex continues to place Lift 2 on the top of Cell 717 in the northwest corner. They are also compacting Lift 3 on the south part of the west slope. They also begin compacting Lift being placed on top of Cell 717.

08:00 I take test #1 on the north end of the west slope. This is a retest of T.P. 12-3-3. It meets specs.

08:30 I take tests 2 through 4 on Lift 3 on the south part of the west slope. They meet specs. Grades will be set in this area prior to placing additional material.

09:00 Sussex begins placing Lift 2 on the north part of the west slope. They also continue placing and compacting Lift on top.

10:00 Sussex continues to place Lift 2 on the north part of the west slope. They also begin compacting this Lift.

12:00 Lunch

12:30 Sussex resumes placing and compacting Lift 2 on the north part of west slope.

13:00 Sussex completes Lift 2 on west slope. They continue compacting this lift. They now begin Lift 2 on the north slope.

14:00 Sussex continues to place lift on north slope. I take tests 5 and 6 on Lift 2 on top. They meet specs.

15:00 I take test 7 on west slope. It meets specs.

15:15 It begins to rain. Sussex stops work for today.

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.
(continued)

REPORT NO: 52-250 Date: 12/04/92

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	2225	148	108.2	23.3	99.6	91.1	P
2	1900	150	109.1	20.8	100.2	91.6	P
3	1963	170	95.6	21.0	103.0	94.1	P
4	2015	163	111.3	20.6	99.5	91.0	P
5	2360	233	110.4	23.3	101.1	92.4	P
6	2396	278	106.1	22.0	103.2	94.3	P
7	2247	162	109.9	22.1	101.5	92.8	P

LABORATORY DATA

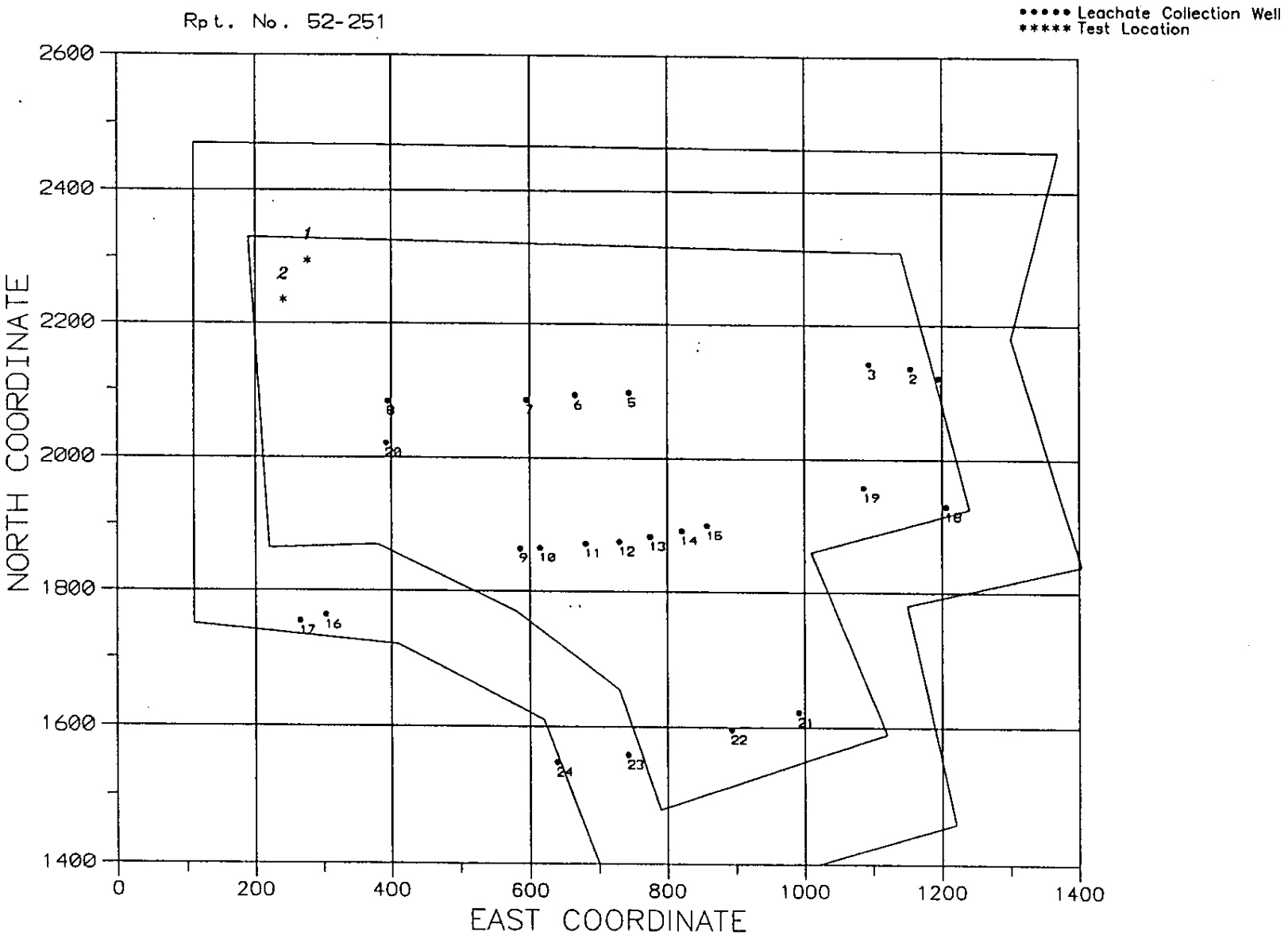
Point No.	LL/PI	Hydraulic Cond. (cm/sec)	Moisture Cont (%)	Dry Dens. (pcf)	Other
2	48/33	3.2×10^{-8}	18.7	108.5	-
5	50/33	-	23.3	-	-
6	48/32	1.6×10^{-8}	20.3	104.4	-

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Taylor

ENCOR

TEST LOCATIONS

Rpt. No. 52-251



EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-251	DATE:	12/14/92
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 50's-70's	EQUIPMENT:	D - 7 Dozer, Vibratory Roller, 5 Trucks

ACTIVITIES SUMMARY

07:00 I arrive on site.
08:00 Ed Lutz (RES) informs me that they would like to place clay cap today. I inform him that a lift can be placed over part of the top in the northwest corner.
08:30 Sussex begins compacting north area of lift on top.
09:30 Sussex has compacted this north area. I take tests 1 and 2 in this area. They meet specs.
09:45 Sussex begins placing Lift 3 on the top of Cell 717 in the northwest corner.
11:00 Sussex continues to place lift. They also begin compacting lift.
12:00 Lunch
12:30 Sussex resumes placing and compacting Lift 3 on the top in the northwest corner.
14:30 Sussex continues to place and compact lift.
16:00 Sussex finishes work for today.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	2295	277	114.5	22.4	103.2	94.3	P
2	2236	241	114.7	21.6	105.1	96.0	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond. (cm/sec)	Moisture Cont. (%)	Dry Dens. (pcf)	Other
1	45/30	-	15.4	-	-

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-252	DATE:	12/15/92
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, Rain, 60's	EQUIPMENT:	D - 7 Dozer, Vibratory Roller, 6 Trucks

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex continues to place and compact Lift 3 on top in the northwest corner.
08:30 They continue to place and compact Lift.
10:00 Sussex continues to place and compact Lift.
10:30 Begins to rain. No additional work will be done today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-253	DATE:	01/05/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 50's-60's	EQUIPMENT:	D-7 Dozer

ACTIVITIES SUMMARY

13:30 Sussex back-drags and reworks clay cap on northwest corner on top.
14:30 They continue reworking this area.
15:30 Sussex finishes work in this area.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Claude R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-254	DATE:	01/06/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 50's-70's	EQUIPMENT:	D-7 Dozer, Vibratory Roller, 5 Trucks

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins placing Lift 3 on top of Cell 717 in the northwest corner. They are using offsite borrow material for this Lift.
09:00 They continue placing Lift 3 in this area. They also begin compacting this Lift.
10:15 Sussex continues to place and compact Lift 3.
11:30 They continue placing and compacting this Lift.
12:00 Lunch.
12:30 Sussex resumes placing and compacting Lift 3.
14:00 Sussex continues placing and compacting this Lift.
15:30 Sussex stops placing Lift. They begin grading area to promote drainage.
16:00 Sussex stops work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-255	DATE:	01/26/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 30's-50's	EQUIPMENT:	D-7 Dozer, Vibratory Roller, 5 Trucks

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins placing Lift 3 on top of Cell 717 in the northwest corner.
09:00 Sussex continues to place lift. They also begin compacting lift as it is placed.
10:00 Sussex begins removing lift #2 on the north slope. This lift had not been completed prior to some heavy rain fall. The decision was made to remove the lift as it would be too hard to disc and rework on the slope.
10:30 They continue to place and compact lift.
12:00 Lunch.
12:30 They resume lift on top of Cell 717. They also resume removing lift on north slope.
13:30 They continue to place and compact lift. They also continue to remove lift on north slope.
15:00 They have finished removing lift on north slope.
15:30 Sussex finishes work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-256	DATE:	01/27/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 30's-50's	EQUIPMENT:	D-7 Dozer, Vibratory Roller, 5 Trucks

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins placing and compacting lift #3 on the top of Cell 717 in the northwest corner.
09:00 They complete this lift and begin lift #2 on the west end of the north slope.
11:00 They continue to place lift on north slope.
12:00 Lunch.
12:30 They resume placing lift on north slope.
14:00 They continue placing lift and also begin compacting lift.
15:30 Sussex stops work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-257	DATE:	01/28/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 40's-60's	EQUIPMENT:	D - 7 Dozer, Vibratory Roller, 4 Trucks

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins placing lift #2 on the west end of the north slope.
09:00 They continue placing lift.
10:30 They continue placing lift on north slope and also begin compacting it.
12:00 Lunch.
12:30 Sussex resumes placing and compacting lift #2 on north slope.
14:00 They finish lift #4 on the south end of the west slope.
15:00 They continue lift on west slope.
15:30 Sussex finishes work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles P. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-258	DATE:	01/29/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, Rain, 50's	EQUIPMENT:	D - 7 Dozer, Vibratory Roller, 4 Trucks

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins placing lift #4 on the south end of the west slope. They are compacting lift as they place it.
09:00 They continue to place and compact lift on south end of west slope.
10:00 They continue placing and compacting this lift.
11:15 They continue placing and compacting this lift.
11:45 Begins to rain.
12:00 Lunch.
12:30 Still raining. Sussex does not plan additional work today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-259	DATE:	02/01/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 40's-60's	EQUIPMENT:	D-7 Dozer, Vibratory Roller, 5 Trucks

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins placing lift #4 on the south end of the west slope.
09:00 Sussex continues to place lift #4 on the south end of the west slope.
10:30 They continue placing this lift.
12:00 Lunch.
12:30 Sussex resumes placing lift #4 on the south end of the west slope.
14:30 ENCOR field representative tested Lift 2 on the north half of the west slope and Lift 3 on the top of Cell 717.
15:00 Sussex stops receiving offsite fill material.
15:30 Sussex stops work for the day. Do paperwork.
16:00 Leave jobsite.

Sussex placed Lift 4 on the south half of the west slope.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	2130	192	110.3	23.3	101.2	92.5	P
2	2260	176	107.0	21.9	100.2	91.6	P
3	2340	181	109.9	22.1	103.0	94.1	P
4	2288	261	116.2	24.2	102.1	93.3	P
5	2193	257	116.6	22.0	102.9	94.1	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Moisture Cont.(%)	Dry Dens.(pcf)	Other
1	42/33	3.5×10^{-8}	22.1	104.6	-

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-260	DATE:	02/02/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	R. Gann
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 40's-60's	EQUIPMENT:	D-7 Dozer, Vibratory Roller, 6 Trucks

ACTIVITIES SUMMARY

07:00 Attended RES(LA) annual Safety Meeting.
08:00 ENCOR field representative took test on top of Cell 717 on the south half of Lift 3 and after the results were obtained this area meets specs.
10:00 Sussex starts to roll Lift 4 on the south half of the west slope and is placing Lift 3 on the north half of the west slope.
12:00 Lunch.
12:30 Sussex continues to place Lift 3 on the north half of the west slope.
13:10 Sussex starts to compact Lift 2 on the north slope of Cell 717.
14:20 Sussex continues to place Lift 3 on west slope.
15:00 Sussex stops receiving offsite fill material.
15:30 Leave jobsite.

Sussex is placing Lift 3 on west slope and compacting Lift 4 on west slope and Lift 2 on north slope.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	2019	253	117.2	20.3	107.5	98.3	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
1	51/34	-	19.5	-	-

INSPECTOR Thomas A. Vreuch for R. Gann ENGINEER Charles R. Furlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-261	DATE:	02/03/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	R. Gann
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 40's-60's	EQUIPMENT:	D - 7 Dozer, Vibratory Roller, 5 Dump Trucks

ACTIVITIES SUMMARY

07:00 Sussex starts to receive offsite fill material and is placing fill material on west slope of Cell 717 as Lift 3.

08:30 ENCOR field representative was requested to test the north slope of Cell 717 Lift 2 and after the results were collected this area meets specs. A lab sample was taken on the north slope and test points were surveyed.

10:20 Sussex continues to place and compact Lift 3 on west slope of Cell 717.

12:00 Lunch.

12:35 Sussex resumes compacting and placing Lift 3 on the west slope of Cell 717.

13:50 Sussex requested that Lift 4 on the south of west slope be tested. ENCOR field representative tested Lift 4 on west slope and after the results were calculated Test 3 meet specs on the south end and Test 4 failed to meet specs.

14:00 Sussex starts to reroll Lift 4 on west slope.

14:30 ENCOR field representative retested Lift 4 on the west slope and after the results were obtained Test 5 failed to meet specs also due to high moisture content.

14:45 DEQ arrive on jobsite to observe clay cap placement on Cell 717. DEQ ask ENCOR field representative about procedures used during soil sampling and asked to be notified the next time samples were taken. LDEQ also makes a comment about the clod size of backfill material.

15:10 DEQ leaves work area and Sussex stops clay cap activities for the day.

15:30 Paperwork.

16:00 Leave jobsite.

Sussex places and compacts Lift 3 on the west slope of Cell 717.

INSPECTOR Thomas A. Vautrot for R. Gann ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

REPORT NO: 52-261 DATE: 02/03/93

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	2378	254	109.1	21.5	101.6	92.9	P
2	2374	209	105.0	20.7	107.0	97.8	P
3	1891	163	107.0	20.6	103.4	94.5	P
4	-	-	-	23.0	96.4	88.1	F
5	-	-	-	26.1	96.8	88.5	F

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
1	48/33	6.9×10^{-9}	17.9	109.5	-
3	53/39	1.3×10^{-9}	17.8	112.5	-

INSPECTOR Thomas A. Vreneck for R. Gann ENGINEER Charles R. Furlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-262	DATE:	02/04/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	R. Gann
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 40's-60's	EQUIPMENT:	D-7 Dozer, Vibratory Roller, Dump Trucks

ACTIVITIES SUMMARY

07:00 Sussex starts to receive offsite fill material at jobsite. Sussex continues to place Lift 3 on west slope of Cell 717.
07:15 Sussex starts to compact Lift 3 on west slope of Cell 717.
09:00 Sussex has completed placing Lift 3 on the west slope of Cell 717 and now starts to place Lift 3 on the north slope of Cell 717. Sussex waters the north slope prior to placement of Lift 3.
10:30 ENCOR field representative was asked to retest Lift 3 on the west slope of Cell 717 and after the results were obtained Test #1 meet specs and Test 2 & 3 failed to meet specs due to moisture.
11:20 T. Phillips of RES was notified of testing results.
12:00 Lunch.
12:50 Sussex has resumed placement of Lift 3 on north slope of Cell 717.
13:10 Sussex starts to compact Lift 3 on north slope of Cell 717.
15:00 Sussex stops receiving offsite backfill material for the day.
15:30 Leave jobsite.

Completed placing Lift 3 on west slope and started to place Lift 3 on north slope.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	2123	182	109.7	22.8	100.5	91.9	P
2	-	-	-	27.2	96.9	88.6	F
3	-	-	-	26.7	96.0	87.7	F

LABORATORY DATA - None

INSPECTOR Thomas A. Wentick for R. Gann ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-263	DATE:	02/05/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	R. Gann
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 40's-60's Rain	EQUIPMENT:	D-7 Dozer, Vibratory Roller, 6 Dump Trucks

ACTIVITIES SUMMARY

07:00 Sussex starts to receive offsite fill material and placing it on the north slope of Cell 717 as Lift 3.
07:15 Sussex starts to compact Lift 3 on the north slope of Cell 717.
08:15 Sussex completes placement of Lift 3 on the north slope of Cell 717 and continues to compact Lift 3 on the north slope.
08:30 Sussex waters the top of Cell 717 and Sussex starts to place Lift 4 on top of Cell 717.
09:50 Sussex requested that the north slope be tested and after the results were obtained Test 1 and 3 failed to meet specs due to high moisture and low density. Test 2 meet specs. Sussex will have to rework the north slope.
10:15 It starts to rain lightly and Sussex continues to place Lift 4 on top of Cell 717.
11:15 Sussex stops delivery of offsite fill material due to rain and Sussex also rolls fill material placed on top of Cell 717 in order to seal fill material off from rain.
11:30 Complete paperwork.
12:00 Leave jobsite.

Sussex completes Lift 3 on north slope of Cell 717 and starts to place Lift 4 on top of Cell 717.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	-	-	-	26.4	97.2	88.8	F
2	2371	225	106.0	25.4	101.3	92.6	P
3	-	-	-	28.5	93.2	85.2	F

LABORATORY DATA - None

INSPECTOR Thomas A. Vreeck for R. Gann ENGINEER Charles R. Furlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-264	DATE:	02/08/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 40's-60's	EQUIPMENT:	D-7 Dozer, Vibratory Roller, 5 Trucks, John Deere Tractor with farm disc, Rome Disc

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex continues placing Lift #4 on top of Cell 717 in the northwest corner. They scarify previous lift prior to placing this lift.
09:00 They continue placing this lift.
09:30 Sussex begins discing this lift as it is placed. They are using the John Deere tractor and a farm disc to process this material.
10:30 Sussex continues to place lift on top of Cell 717. They continue to process material using the farm disc.
11:30 They continue placing and processing lift on top.
12:00 Lunch.
12:30 Sussex resumes placing lift on top of Cell 717. They also begin compacting area that is processed. They also disc lifts placed on west and north slopes that failed to meet specs when tested 2/5/93. They disc these areas with the Rome disc in an effort to lower the moisture content.
14:00 They continue to place lift on top of Cell 717. They also disc lifts on west and north slopes.
15:00 Sussex continues to place lift on top of Cell 717.
15:30 They finish work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fields

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-265	DATE:	02/09/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 40's-60's	EQUIPMENT:	D-7 Dozer, Vibratory Roller, 6 Trucks, John Deere Tractor with farm disc

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex scarifies area on top of Cell 717 where they plan to place cap this morning.
07:30 They begin placing clay cap in this area. They also begin discing Lift 4 on the north end of the west slope.
09:00 Sussex continues to place Lift 4 on top of Cell 717. They also begin compacting a section of the north end of the west slope.
10:00 I take Tests 1 & 2 on this compacted section of the west slope. They meet specs.
10:20 Sussex begins compacting the remainder of the west slope.
11:30 Sussex finishes lift on top of Cell 717. They begin Lift 5 on north end of west slope.
12:00 Lunch.
12:30 Sussex processes lift just completed on top of Cell 717. They have finished compacting the remainder of the west slope and begin compacting the north slope. The continue lift on west slope.
14:00 I take Test 3 on the west slope. It meet specs. I take Tests 4 & 5 on the north slope. They meet specs. Tests 4 & 5 are retests of Tests 1 & 3 from 2/5/93.
14:30 They have finished processing lift on top and begin compacting it.
15:00 They begin sealing lift on west slope due to threat of rain tonight.
15:30 Sussex completes work for today.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	2138	173	107.5	18.4	109.0	99.6	P
2	2192	164	106.8	20.8	103.2	94.4	P
3	2269	178	107.1	23.5	99.0	90.5	P

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

REPORT NO: 52-265 DATE: 02/09/93

FIELD DATA

4	2364	205	104.9	24.8	99.8	91.2	P
5	2382	251	108.1	21.1	100.5	91.9	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
3	65/46	-	25.9	-	-
5	57/42	2.7×10^{-9}	18.3	102.8	-

INSPECTOR Thomas A. Vreeland ENGINEER Charles R. Furlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-266	DATE:	02/10/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, Rain, 50's-60's	EQUIPMENT:	D-7 Dozer, Vibratory Roller, 6 Trucks

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins placing lift #5 on the north end of the west slope. They are sealing this lift as it is placed due to the threat of rain.
09:00 Sussex continues to place lift #5 on the west slope.
10:30 It begins to rain. Sussex stops work to see what the weather is going to do.
11:30 It continues to rain. Sussex does not plan any additional work today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R Farlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-267	DATE:	02/15/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy	EQUIPMENT:	D - 7 Dozer, Vibratory Roller, 6 Trucks

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:30 Sussex begins placing lift #5 on the north end of the west slope. They are sealing this lift as it is placed due to the threat of rain.
09:00 They continue to place and seal lift #5 on the west slope.
10:15 They continue to place and seal lift on west slope.
11:30 Sussex continues lift on west slope.
12:00 Lunch
12:30 Sussex resumes placing and sealing lift on west slope.
13:30 Sussex continues lift on west slope.
14:30 Sussex continues lift on west slope.
15:00 Sussex stops placing lift and seals lift due to possibility of rain.
15:30 Sussex finishes work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Farlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-268	DATE:	02/18/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 30's	EQUIPMENT:	D-7 Dozer, Rome Disc

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:30 Sussex discs lift placed previously on the north end of the west slope.
13:00 Sussex discs west slope again. They plan to leave it open overnight. They plan to process and compact it tomorrow.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-269	DATE:	02/19/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 40's-60's	EQUIPMENT:	D - 7 Dozer, Vibratory Roller, 6-Trucks, John Deere Tractor with disc

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins placing lift 5 on the north slope.
09:00 They continue placing lift on north slope.
11:00 Sussex continues to place lift on north slope.
12:00 Lunch.
12:30 Sussex has completed lift on north slope. They begin lift on slurry wall bench. They also begin processing lift on west slope.
14:00 They continue lift on slurry wall bench. They also disc lift on west slope again.
14:30 Sussex begins compacting lift on west slope.
15:30 Sussex completes work for today. They have finished compacting lift on west slope and will process lifts placed on north slope and slurry wall bench next week.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-270	DATE:	02/22/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 40's-60's	EQUIPMENT:	D-7 Dozer, Vibratory Roller, 5-Trucks, John Deere Tractor with Disc

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex processes lift on north slope that was placed 2/19/93.
10:00 Sussex discs this lift again.
12:00 Lunch.
12:30 Sussex begins compacting lift on north slope. They also begin placing lift on south end of slurry wall bench.
14:00 They continue placing lift on bench.
15:00 Sussex completes work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Clark R. Furlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-271	DATE:	02/23/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 40's-60's	EQUIPMENT:	D-7 Dozer, Vibratory Roller, 6 Trucks, John Deere Tractor with farm disc

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins to place lift on slurry wall bench.
09:00 They continue to place lift on bench, and they also begin processing lift placed on south end of bench.
09:30 They begin compacting lift on east end of bench just processed.
10:20 I take Tests 1-3 on this area just compacted. They meet specs.
11:00 Sussex continues lift on north end of bench.
11:30 They finish lift on north end of bench. They begin processing this area.
12:00 Lunch.
12:30 Sussex begins lift on south end of bench that was just tested. They also begin compacting lift on north end of bench.
13:30 They continue lift on south end of bench and compacting lift on north end of bench.
14:30 They have finished compacting north end of bench. They continue placing lift on south end. They also begin processing this lift.
15:00 Sussex completes work for today.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	2090	81	87.5	22.4	100.7	92.0	P
2	2174	85	87.7	20.5	105.9	96.8	P
3	2241	108	93.8	20.4	108.5	99.2	P

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

REPORT NO: 52-271 DATE: 02/23/93

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
2	46/28	-	18.9	-	*

*** Hydrometer Analysis**

Point No.	% Sand	% Silt	% Clay
2	1	69	30

INSPECTOR Thomas A. Vrewick ENGINEER Charles R. Furlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-272	DATE:	02/24/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 40's-60's	EQUIPMENT:	D - 7 Dozer, Vibratory Roller, 6 Trucks, John Deere Tractor with farm disc

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins placing lift on slurry wall bench.
08:00 I take Tests 1 & 2 on the north end of the bench. They meet specs.
09:00 Sussex processes lift on south end and then begins compacting it.
11:00 They continue placing lift on the bench.
12:00 Lunch.
12:30 Sussex resumes placing lift on the bench.
13:00 Due to threat of overnight rain, Sussex seals lift as it is placed. They will process and compact later.
14:30 They continue to place and seal lift on the bench. They are now placing lift on north end.
15:30 Sussex completed work for today. They have not finished the lift on the north end. They will complete tomorrow weather permitting.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	2290	116	94.7	20.9	105.6	96.5	P
2	2362	97	88.8	19.8	107.2	98.0	P

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-273	DATE:	02/25/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 50's-60's, Rain	EQUIPMENT:	D - 7 Dozer, Vibratory Roller, 6 Trucks, John Deere Tractor with farm disc

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins lift on north end of bench. They also process lift placed yesterday afternoon.
07:30 I take Tests 1 & 2 on the south end of the bench. They meet specs.
08:00 Sussex begins compacting area just processed. The also continue to place lift on the north end of the bench.
11:00 Sussex begins compacting lift just processed. They also continue to place lift on the south end. They are sealing this lift as it is placed due to threat of rain.
12:00 Lunch.
12:30 Sussex resumes placing lift on the south end of bench. They are sealing this lift as it is placed.
13:00 I take Tests 3-5 on the north end of the bench. They meet specs.
13:30 It begins to rain. Sussex does not plan any additional work for today.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1891	76	82.8	22.5	101.5	92.8	P
2	2008	79	85.4	21.7	101.4	92.6	P
3	2098	74	87.8	20.6	104.3	95.4	P
4	2208	85	88.1	22.5	104.6	95.6	P
5	2310	96	92.8	22.0	101.5	92.8	P

INSPECTOR T. Thomas A. Vrenick ENGINEER Charles L. Fuston

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

REPORT NO: 52-273 DATE: 02/25/93

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
1	42/22	-	20.9	-	-
5	58/42	8.4×10^{-10}	21.8	103.3	-

INSPECTOR Thomas A. Vreuck ENGINEER Charles R. Furlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-274	DATE:	03/01/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 50's-60's, Rain	EQUIPMENT:	D - 7 Dozer, Vibratory Roller, 6-Trucks

ACTIVITIES SUMMARY

07:00 I arrive on site.
08:00 Sussex begins to place lift on bench. This lift was started on 2/25/93. They are sealing lift as it is placed due to threat of rain.
09:00 They continue to place and seal lift on bench.
10:30 They cotninue to place and seal lift on bench.
11:45 Begins to rain.
12:00 Lunch.
12:30 Still raining. Sussex does not plan any additional work today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Claude P. Farlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-275	DATE:	03/05/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 40's-60's	EQUIPMENT:	D-7 Dozer

ACTIVITIES SUMMARY

07:00 I arrive on site:
08:00 Sussex begins grading activities on top of Cell 717 in the northwest corner. Brown & Butler has set grades in this area.
10:00 They continue grading activities in this area.
12:00 Lunch.
14:15 They continue grading activities in this area.
15:30 Sussex completes work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles P. Farley

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-276	DATE:	03/08/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 40's-70's	EQUIPMENT:	D-7 Dozer, D-3 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins grading activities on northwest corner of Cell 717. They begin cutting drainage ditches on top in the northwest corner.
09:30 They continue grading activities in northwest corner of Cell 717.
11:00 They continue grading activities. They are recompacting these areas as they are graded.
12:00 Lunch.
12:30 Sussex resumes grading activities.
14:00 They continue grading activities.
15:30 Sussex finishes work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Clark L. Furlow

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-277	DATE:	03/09/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 50's-70's	EQUIPMENT:	D-7 Dozer, D-3 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:10 Sussex begins grading activities on top of Cell 717 in the northwest corner. They are cutting drainage ditches and grading cap to meet 3' minimum clay.
09:30 Sussex continues grading activities on northwest corner of Cell 717. They are also grading the west slope of Cell 717.
10:30 They continue grading activities on Cell 717.
12:00 Lunch.
12:30 Sussex resumes grading activities on northwest corner. They are also recompacting these areas as they are graded. Brown & Butler also on site checking and setting grades.
14:00 Sussex continues to grade clay cap. Brown & Butler continues setting grades on bench.
15:30 Sussex completes work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Farlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-278	DATE:	03/10/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 50's-70's	EQUIPMENT:	D-7 Dozer, 3-Trucks, John Deere Tractor with Disc, D-6 Dozer, D-3 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussuex begins grading activities on northwest corner. Brown & Butler has set grades on slurry wall bench. A few areas are not to grade.
07:45 I take tests 1-3 on bench. They meet specs.
08:00 Sussex begins placing and processing lift on areas of bench that are not to grade.
10:00 They continue grading activities and also continue to place and process lift on the bench.
12:00 Lunch.
12:30 Sussex resumes grading activities and also placing lift on bench. They are processing and compacting lift as it is placed. Brown & Butler also does cross-section of top in the northwest corner.
14:00 I take tests 4-9 on the top area in the northwest corner. They meet specs. Brown & Butler has completed cross-section. It verifies proper clay cap thickness.
15:00 Sussex continues to place, process and compact lift on the bench.
15:30 Sussex finishes work for today.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1902	81	84.6	22.3	103.0	94.2	P
2	2063	58	83.1	21.0	101.4	92.7	P
3	2321	114	95.4	23.8	99.2	90.7	P
4	2030	272	116.5	18.9	111.3	101.7	P

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Furlo

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

Report No: 52-278 Date: 3/10/93

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
5	2121	269	116.3	21.9	100.0	91.4	P
6	2232	253	115.8	21.9	106.1	96.9	P
7	2232	297	117.2	25.4	100.2	91.6	P
8	2181	345	119.3	24.6	100.4	91.8	P
9	2110	304	117.9	22.3	104.3	95.3	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
1	48/32	8.6×10^{-9}	21.7	102.5	*
3	47/30	-	23.7	-	*
5	48/33	-	18.0	-	-
7	50/33	1.4×10^{-9}	23.0	103.7	-
9	47/31	-	20.8	-	-

*** Hydrometer Analysis**

Point No.	% Sand	% Silt	% Clay
1	2	55	43
3	3	67	30

INSPECTOR Thomas A. Vreeuwk ENGINEER Charles R. Taylor

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-279	DATE:	03/11/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy	EQUIPMENT:	D-7 Dozer, D-6 Dozer, 3-Trucks, John Deere Tractor with Disc, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins placing, processing and compacting lift on bench. They are placing clay in low area to bring to grade. They also begin grading the west end of the north slope.
09:30 They continue placing and compacting lift on the bench. Grading activities also continue on the north slope.
11:00 Sussex continue same activities.
12:00 Lunch.
12:30 Sussex resumes placing, processing and compacting lift on the bench. They also resume grading work on the north slope.
13:30 They complete grading activities on the north slope.
14:00 They continue work on bench.
14:45 Sussex continues to work on bench.
15:30 Sussex completes work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Clark R. Furlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-280	DATE:	03/12/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, light rain 40's	EQUIPMENT:	D-7 Dozer, 2-Trucks, Vibratory Roller, 235 Backhoe, 3-DJB's, D-3 Dozer

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins placing lift in low areas on bench. They are processing and compacting lift as it is placed. They also begin placing topsoil on top of Cell 717 in the northwest corner. The area has been cross-sectioned and verified to be to grade.
09:00 Sussex continues to place lift on bench. They also continue to place topsoil on top.
09:45 Sussex stops placing lift on bench due to continuing rain. They however continue placing topsoil.
11:00 They continue placing topsoil.
12:00 Lunch.
12:30 They rain has increased and no additional work is planned.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R Farlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-281	DATE:	03/15/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 40's-60's	EQUIPMENT:	D-7 Dozer, 2-Trucks, Vibratory Roller, 3-DJB's, D-3 Dozer

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:20 Sussex begins placing topsoil on top of Cell 717 in the northwest corner.
08:30 They begin placing clay cap on the bench in areas that are below grade.
10:00 Sussex continues to place topsoil on top and clay cap on bench.
12:00 Lunch.
12:30 Sussex resumes placing topsoil on top and clay cap on bench.
13:30 Sussex completes clay cap placement on bench. They continue placing topsoil.
14:45 They continue placing topsoil.
15:30 Sussex completes work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles P. Furlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-282	DATE:	03/18/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 50's-60's	EQUIPMENT:	D-7 Dozer, 3-DJB's, 235 Backhoe

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:20 Sussex begins placing topsoil on top in the northwest corner.
09:45 Sussex continues to place topsoil.
11:30 They continue placing topsoil.
12:00 Lunch.
12:30 Sussex resumes placing topsoil.
14:15 They continue placing topsoil.
15:30 Sussex completes work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-283	DATE:	03/23/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 50's-70's	EQUIPMENT:	D-7 Dozer, 225 Backhoe, 3-DJB's

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 I take Tests 1-3 on the north slope. They meet specs. This area was verified to grade by Brown & Butler on Friday 3/19/93.
08:30 Sussex begins placing topsoil on the north slope.
10:45 Sussex continues to place topsoil on the north slope.
12:00 Lunch.
12:30 Sussex resumes placing topsoil on the north slope.
14:15 They continue to place topsoil on the north slope.
15:30 Sussex finishes work for today.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	2371	280	108.4	19.1	108.1	98.8	P
2	2409	229	103.0	25.8	98.8	90.3	P
3	2378	198	104.7	21.6	104.3	95.3	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
1	46/30	-	16.9	-	*
2	55/38	-	23.5	-	-
3	56/42	2.7×10^{-9}	19.0	110.1	-

*** Hydrometer Analysis**

Point No.	% Sand	% Silt	% Clay
1	1	65	34

INSPECTOR Thomas A. Vrenick ENGINEER Clarke R. Fowler

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-284	DATE:	03/24/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 50's-70's	EQUIPMENT:	D-7 Dozer, 225 Backhoe, 3-DJB

ACTIVITIES SUMMARY

07:00	I arrive on site.
07:15	Sussex begins placing topsoil on the north slope.
08:30	I take Tests 1-4 on the west slope and bench. They meet specs.
09:00	Sussex continues to place topsoil on the north slope.
09:30	Brown & Butler does cross-section on west slope and verifies that cross-sections at 22+00 and 23+00 are to grade. This area tested earlier this morning.
11:15	Sussex continues to place topsoil on the north slope.
12:00	Lunch.
12:30	Sussex resumes placing topsoil on the north slope.
14:00	Sussex begins placing topsoil on west slope and bench that was cross-sectioned today.
15:30	Sussex completes work for today.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	2306	125	97.5	21.2	103.8	94.8	P
2	2257	173	107.5	19.6	107.7	98.4	P
3	2152	172	107.6	23.0	101.6	92.9	P
4	2163	113	94.4	19.7	105.3	96.3	P

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Moisture Cont.(%)	Dry Dens.(pcf)	Other
1	43/24	1.8×10^{-8}	19.5	104.8	-
2	48/34	-	17.6	-	*

*** Hydrometer Analysis**

Point No.	% Sand	% Silt	% Clay
2	1	61	38

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Turlon

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-285	DATE:	03/25/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 50's-70's	EQUIPMENT:	D - 7 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins grading activities on the south end of the bench, the south end of the west slope and the west slope of bench. They are compacting these areas as they are cut and brought to grade.
10:00 Sussex continues grading activities on west slope and bench.
11:20 They continue grading activities.
12:00 Lunch.
12:30 Sussex resumes grading activities.
14:15 Sussex continues grading activities.
15:30 Sussex completes grading activities. Brown and Butler will be on site tomorrow to verify grades.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles P. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-286	DATE:	03/29/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 50's-70's	EQUIPMENT:	D-7 Dozer, 3-DJB's, 235 Backhoe

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Brown & Butler was onsite Friday 3/26/93 and they verified that the remaining areas of the west slope and the bench were to grade.
07:30 I take tests 1-6 on these areas. They meet specs. This completes testing of clay cap. Sussex begins placing topsoil on the west slope.
09:45 Sussex continues to place topsoil.
11:00 They continue placing topsoil.
12:00 Lunch.
12:30 Sussex does not plan any additional work on Cell 717 today.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	1909	129	90.9	23.0	100.5	91.8	P
2	2002	157	102.8	22.3	103.5	94.6	P
3	2054	93	88.5	20.9	100.7	92.1	P
4	2129	78	89.3	19.4	103.4	94.5	P
5	2268	73	85.7	19.9	100.6	91.9	P
6	1944	81	85.9	20.4	103.1	94.2	P

INSPECTOR Thomas A. Vrenick ENGINEER Charles L. Furlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

Report No: 52-286 Date: 3/29/93

LABORATORY DATA

Point No.	LL/PI	Hydraulic Cond.(cm/sec)	Water Cont.(%)	Dry Dens.(pcf)	Other
1	47/31	1.2×10^{-8}	17.7	110.0	*
4	52/38	1.4×10^{-9}	16.1	111.3	-
5	55/40	-	16.9	-	-

*** Hydrometer Analysis**

Point No.	% Sand	% Silt	% Clay
1	1	72	27

INSPECTOR Thomas A. Vreuls ENGINEER Charles R. Surles

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-287	DATE:	03/30/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 50's-70's	EQUIPMENT:	D-7 Dozer,3-DJB's, 225 Backhoe

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins placing topsoil on west slope of Cell 717.
09:45 Sussex continues placing topsoil.
10:30 They begin placing topsoil on top in the northwest corner.
12:00 Lunch.
12:30 Sussex resumes placing topsoil.
14:15 They continue placing topsoil.
15:30 Sussex finishes work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-288	DATE:	03/31/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 50's-70's	EQUIPMENT:	D-7 Dozer, 3-DJB's, 225 Backhoe

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins placing topsoil on west slope of Cell 717.
09:45 Sussex continues placing topsoil.
11:20 They continue topsoil placement.
12:00 Lunch.
12:30 Sussex resumes placing topsoil.
14:15 They continue topsoil placement.
15:30 Sussex finishes work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-289	DATE:	04/01/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 50's-70's	EQUIPMENT:	D-7 Dozer, 3-DJB's, 225 Backhoe

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins placing topsoil on west slope of Cell 717.
09:30 They continue topsoil placement.
11:20 They continue topsoil placement.
12:00 Lunch.
12:30 Sussex resumes placing topsoil.
14:00 They continue topsoil placement.
15:30 Sussex completes work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-290	DATE:	04/02/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 40's-60's	EQUIPMENT:	D-7 Dozer, 3-DJB's, 225 Backhoe

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins placing topsoil on west slope and bench.
09:00 They continue topsoil placement. Brown & Butler on site to check and set topsoil grades on west slope and also on top. They check cross-sections not verified and set grades.
11:20 They continue topsoil placement.
12:00 Lunch.
12:30 Sussex does not plan to place any additional topsoil today. They will be grading topsoil.
14:00 They continue grading topsoil.
15:30 Sussex completes work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-291	DATE:	04/12/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 60's-80's	EQUIPMENT:	D-7 Dozer, 3-DJB's, 235 Backhoe

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:20 Sussex begins placing topsoil on west slope of Cell 717.
09:30 They continue placing topsoil.
11:15 They continue placing topsoil.
12:00 Lunch.
12:30 Sussex resumes placing topsoil on the west slope.
14:15 They continue placing topsoil.
15:30 Sussex finishes work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Clark R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-292	DATE:	04/13/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 60's-80's	EQUIPMENT:	D-7 Dozer, 3-DJB's, 235 Backhoe

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:20 Sussex begins placing topsoil on west slope.
09:15 They continue placing topsoil.
11:30 They continue placing topsoil.
12:00 Lunch.
12:30 Sussex resumes placing topsoil on the west slope.
14:20 They continue placing topsoil.
15:30 Sussex finishes work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-293	DATE:	04/14/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 60's	EQUIPMENT:	D-7 Dozer, 3-DJB's, 235 Backhoe

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex begins placing topsoil on west slope and bench.
09:45 They continue placing topsoil.
11:20 They continue placing topsoil.
12:00 Lunch. Sussex does not plan additional work on Cell 717 today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fowler

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-294	DATE:	04/15/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 50's-60's	EQUIPMENT:	D-7 Dozer, 3-DJB's, 235 Backhoe

ACTIVITIES SUMMARY

07:00 I arrive on site.
08:00 Sussex begins placing topsoil on slurry wall bench.
09:30 They continue placing topsoil.
11:00 They continue placing topsoil.
12:00 Lunch.
12:30 Sussex resumes placing topsoil.
14:30 Sussex completes work for today. Brown & Butler will be on site Monday to set topsoil grades.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Clark R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-295	DATE:	04/19/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 50's-70's	EQUIPMENT:	D-3 Dozer

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:30 Sussex begins grading topsoil on north slope.
09:00 Brown & Butler on site to check grades.
10:00 Sussex begins grading west slope and cutting ditches on top.
12:00 Lunch.
12:30 Sussex resumes grading work.
14:00 They continue grading topsoil.
16:00 Brown & Butler confirms topsoil on north slope is to grade.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Mark L. Furlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-296	DATE:	04/20/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 50's-70's	EQUIPMENT:	D-3 Dozer

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:30 Sussex begins cutting ditches and grading topsoil on the west slope.
09:45 They continue grading activities.
12:00 Lunch.
12:30 Sussex resumes grading activities on the west slope.
14:15 They continue grading activities.
15:30 Sussex completes work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Farlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-297	DATE:	04/21/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 40's-60's	EQUIPMENT:	D-3 Dozer

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:30 Sussex begins grading activities on the west slope.
08:30 Brown & Butler on site to verify topsoil grades.
10:00 Sussex continues grading activities.
12:00 Lunch.
12:30 Sussex resumes grading activities.
14:30 Sussex continues grading topsoil.
15:30 Sussex finishes work for today.
16:00 Brown & Butler verifies topsoil is to grade on west slope from N20+00 to the north.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles L Furlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-298	DATE:	04/22/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 40's-60's	EQUIPMENT:	D-3 Dozer

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:30 Sussex begins grading topsoil on the south end of the west slope.
08:00 Economy Grassing begins seeding and matting those areas verified to grade.
10:00 Sussex continues grading topsoil.
11:30 Sussex has finished grading work.
12:00 Lunch.
12:30 Economy Grassing continues to seed and mat verified areas.
15:00 Seeding and matting continues.
17:30 They finish work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles L. Furlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-299	DATE:	04/23/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 50's-70's	EQUIPMENT:	D-3 Dozer

ACTIVITIES SUMMARY

07:00 I arrive on site.
08:00 Brown & Butler cross-sections south end of west slope. Economy Grassing is seeding and matting those areas verified to grade.
10:00 Brown & Butler verifies the south end of the west slope is to grade. The northwest corner on top must still be checked.
11:00 Seeding and matting continues.
13:00 Seeding and matting continues on verified areas.
16:00 Seeding and matting continues. They plan to finish verified areas tonight or tomorrow.
17:00 I leave site.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fowler

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-300	DATE:	05/19/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 50's-70's	EQUIPMENT:	D-7 Dozer, John Deere Tractor with Disc, Vibratory Roller, 8 Trucks

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:15 Sussex plows area on top of Cell 717 that is not to topsoil grade. This area is north and west of LC-9 & LC-10. Brown & Butler had set grades for this area previously. Sussex begins placing topsoil in these areas to bring them to grade.
09:30 Sussex continues to place topsoil.
11:20 They continue placing topsoil.
12:00 Lunch.
12:30 Sussex resumes placing topsoil to bring these areas to grade.
14:15 Sussex continues to place topsoil.
16:00 Sussex finishes work for today.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Farlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-301	DATE:	05/20/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	R. Gann
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 50's-80's	EQUIPMENT:	7-Trucks, D-7 Dozer, Vibratory Roller, John Deere Tractor with Disc

ACTIVITIES SUMMARY

07:00 Sussex is placing topsoil material on top of Cell 717. Sussex is also scarifying ground ahead of fill material.
12:00 Lunch.
12:30 Continued to place topsoil on Cell 717.
16:30 Leave jobsite.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vreuls for R. Gann ENGINEER Charles R. Furlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-302	DATE:	05/21/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	R. Gann
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 60's-80's	EQUIPMENT:	D-7 Dozer, 7 Dump Trucks

ACTIVITIES SUMMARY

07:00 Sussex is stockpiling topsoil material on top of Cell 717.
12:00 Lunch.
12:30 Sussex continues to stockpile topsoil material on top of Cell 717.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrieuch for R. Gann ENGINEER Charles R. Furlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-303	DATE:	06/17/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 70's-90's	EQUIPMENT:	D-6 Dozer, D-3 Dozer

ACTIVITIES SUMMARY

07:00 I arrive on site.
07:30 Sussex begins grading topsoil placed yesterday.
10:00 They continue to grade topsoil and grade ditches to promote drainage.
12:00 Lunch.
12:30 Sussex resumes grading activities.
14:00 They complete grading activities. Brown & Butler will be on site next week to check grades.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-304	DATE:	07/01/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	R. Gann
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy	EQUIPMENT:	Front End Loader and D-3 Dozer

ACTIVITIES SUMMARY

10:30 Sussex hauls topsoil with the front end loader to several areas on top of Cell 717 which appears to be below grade according to surveyors. Sussex finish grades low areas on top of Cell 717 so that verification can be achieved.

14:00 Leave jobsite.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrouch for R. Gann ENGINEER Charles R. Turlo

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-305	DATE:	07/07/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	R. Gann
PROJECT NO:	87B052	CONTRACTOR:	Economy Grass
WEATHER:	Partly Cloudy 80-90s	EQUIPMENT:	N/A

ACTIVITIES SUMMARY

09:00 Economy Grass onsite seeding and placing matting in perimeter ditch between cell 904 and cell 717.

15:30 Economy Grass people ran out of materials and left jobsite.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vreeland for R. Gann ENGINEER Charles R. Fuller

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT
ROLLINS ENVIRONMENTAL SERVICES (LA) INC.

REPORT NO:	52-306	DATE:	07/08/93
PROJECT:	Cell 717 Clay Cap	ENCOR REP:	R. Gann
PROJECT NO:	87B052	CONTRACTOR:	Economy Grass
WEATHER:	Partly Cloudy 80-90s	EQUIPMENT:	N/A

ACTIVITIES SUMMARY

11:30-17:00	Economy Grass returns to jobsite with Hay and Hydromulcher.
12:00-12:30	Lunch
12:45-15:30	Economy Grass begins to Hydromulch the top of cell 717 with hay and completes Cell 717 grassing activities.

FIELD DATA - None

LABORATORY DATA - None

INSPECTOR Thomas A. Vrewick for R. Gann ENGINEER Charles R. Furlow

ENCOR

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-307	DATE:	4/14/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 60's - 80's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

No activities requiring QA/QC were conducted during the time period 07/09/93 through 04/13/94. Activities during this time period consisted of improvements to the leachate collection removal system (i.e. sidewalks, pipe supports, and replacement of piping).

07:00 Arrive on site
07:20 Meet with Tony Phillips (RES) and discuss project specifications.
09:00 Sussex begins excavating around LC-17A to place HDPE protective pipe around well casing. Sussex excavates to 4 foot with 1.5 feet of topsoil and 2.5 feet of clay cap. They place protective pipe and begin backfilling excavation. Tests 1 and 2 are taken during the backfilling process.
10:45 Sussex begins excavating around LC-16A. Excavate to 3 feet with 1.6 feet of topsoil and 1.4 feet of clay cap. This is grade for the HDPE protective pipe. The pipe is placed and they begin backfilling the excavation. Test 3 is taken on this backfill.
12:00 Lunch
12:45 Sussex begins excavating at LC-25. They excavate to 2.75 feet. This is the top of the clay cap and is grade for the HDPE pipe. They pipe is placed around the well casing and the excavation is backfilled with 1.5 feet of clay. Test 4 is taken on this backfill.
15:15 Sussex completes work for today.
15:30 I leave site.

Sussex places HDPE protective pipes around LC-17A, LC-16A and LC-25.

INSPECTOR Thomas A. Vrenick ENGINEER William P. Paul
for Charles R. Furlow

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-17A		N/A	21.5	105.7	97.4	P
2	LC-17A		N/A	22.9	104.5	96.3	P
3	LC-16A		N/A	22.4	103.5	95.4	P
4	LC-25		N/A	20.4	106.1	97.8	P

LABORATORY DATA-None

INSPECTOR Thomas A. Vreuick ENGINEER William P. Paul
For Charles R. Furlow

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-308	DATE:	4/15/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 70's - 80's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site
07:15 Sussex begins cutting riser pipe for LC-26.
08:00 Sussex begins excavating around LC-26. They excavate to 3 feet with 2 feet of topsoil and 1 foot of clay. They place HDPE protective pipe around LC-26 and begin backfilling the excavation. Test 1 is taken on this backfill.
10:45 Sussex finishes work for today.
11:00 I leave site.

Sussex places HDPE protective pipe around LC-26.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-26		N/A	20.6	104.9	96.7	P

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Furlow

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-309	DATE:	4/18/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 60's - 80's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site
08:00 Sussex begins excavating around LC-7.
09:00 They have finished excavating with 14 inches of topsoil and 3.2 feet of clay cap. They cut off wire and pipe that extends below clay cap into the waste.
10:00 They cut off existing corrugated metal pipe at grade for the HDPE pipe.
11:00 They place HDPE pipe and begin backfilling excavation.
12:00 Lunch
12:45 I take test 1 on this backfill. It meets specs and they continue to place backfill.
14:00 Sussex continues to backfill excavation.
15:00 I take test 2 on this backfill. It meets specs.
15:30 Sussex finishes work for today.

Sussex places HDPE protective pipe around LC-7.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-7		N/A	20.4	102.0	94.0	P
2	LC-7		N/A	20.1	99.1	91.3	P

LABORATORY DATA-*None*

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Turlo

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-310	DATE:	4/19/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 60's - 80's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site
07:15 Sussex begins compacting additional clay cap around LC-7.
08:00 I take test 1 on this backfill and it meets specs. This brings clay back to grade.
08:15 Sussex places topsoil around LC-7.
08:30 They begin excavating around LC-6.
10:00 The excavation is complete with 1.3 feet of topsoil and 1.5 feet of clay cap. A trench with pipe and wire is observed going to LC-5. This trench will be excavated later. No other pipes or wires are observed.
12:00 Lunch
12:45 The HDPE pipe is put in place and Sussex begins backfilling the excavation. Tests 2 and 3 are taken during the backfill process. They meet specs.
13:00 Sussex begins excavating the trench going from LC-6 to LC-5.
13:30 They have removed approximately 5 linear feet of this trench as it goes towards LC-5.
13:45 They begin backfilling the trench. Test 4 is taken on this backfill. It meets specs.
14:15 Sussex begins excavating around LC-12.
15:00 They have finished excavating with 1.2 feet of topsoil and 3 feet of clay cap. There is a wire in the cap going back to the shack and this will be removed later.
15:30 I leave site.

Sussex places HDPE protective pipe around LC-6.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-7		N/A	19.2	100.4	92.5	P

INSPECTOR Thomas A. Vrenick ENGINEER Charles R Hurley

EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

Report No: 52-310 Date: 4/19/94

2	LC-6	N/A	19.4	104.8	96.6	P
3	LC-6	N/A	19.1	102.5	94.5	P
4	LC-6	N/A	19.2	104.3	96.1	P

LABORATORY DATA-None

INSPECTOR Thomas A. Vreuch ENGINEER Charles R. Furlow

AQUATERRA

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-311	DATE:	4/20/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 60's - 80's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:15 Sussex begins backfilling around LC-12.
08:00 I take test 1 on this backfill and it meets specs.
09:00 Sussex has completed backfill process at LC-12. I take test 2 on this material and it meets specs.
10:00 Sussex begins excavating around LC-13.
11:00 Excavation complete with 1.1 feet of topsoil and 3.2 feet of clay cap. A wire in the clay cap going to LC-21 will be removed at a later date.
12:00 Lunch
12:30 Begin cutting existing 10 inch steel pipe.
14:00 Place HDPE pipe around LC-13.
14:30 Sussex begins backfilling around LC-13.
15:00 I take test 3 on this material and it meets specs.
15:30 Sussex completes work for today.

Sussex places HDPE protective pipes around LC-13.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-12		N/A	19.1	102.5	94.5	P
2	LC-12		N/A	18.9	103.2	95.1	P
3	LC-13		N/A	18.5	104.3	96.1	P

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Farlow

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-312	DATE:	4/25/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 60's - 80's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:30 Meet with Tony Phillips (RES) and discuss project status.
07:45 Sussex is removing wet material from excavation around LC-13.
08:30 Sussex has removed all of this wet material from the excavation.
09:00 They begin backfilling around LC-13.
09:20 I take test 1 on this backfill and it meets specs.
09:40 They continue to place backfill.
10:00 I take test 2 on this backfill and it meets specs.
10:15 They place topsoil around LC-13.
11:00 Sussex begins excavating around LC-3.
12:00 Lunch
12:45 They have finished excavating with 1.5 feet of topsoil and 3.5 feet of clay cap.
13:00 They cut corrugated metal pipe and 6 inch PVC pipe as this well has been grouted in place and replaced with LC-3A.
14:00 Sussex begins backfilling this excavation.
15:00 I take test 3 on this backfill.
15:30 Sussex finishes work for today.

Sussex backfills excavations at LC-13 and LC-3.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-13		N/A	18.7	107.5	99.1	P
2	LC-13		N/A	21.2	99.8	92.0	P
3	LC-3		N/A	21.6	98.9	91.1	P

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fowler

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-313	DATE:	4/26/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 60's - 80's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:15 Sussex begins backfilling excavation resulting from abandonment of LC-3.
08:00 I take test 1 on this backfill and it meets specs.
08:15 They continue to backfill excavation.
09:15 I take test 2 on this backfill and it meets specs.
10:00 Sussex begins excavating around LC-3A.
10:30 The excavation is complete with 1.5 feet of topsoil and 2 feet of clay cap. No wires or pipe are present in the clay cap. There are two wires in the topsoil on the north side of the well. These will be removed at a later date.
10:50 Sussex places HDPE pipe and begins backfilling the excavation.
11:30 I take test 3 on this backfill and it meets specs.
12:00 Lunch
12:45 Sussex resumes backfilling around LC-3A.
13:30 I take test 4 on this backfill and it meets specs.
14:00 They place topsoil around LC-3A.
14:30 Sussex completes work for today.

Sussex backfills excavations at LC-3 and places pipe at LC-3A.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-3		N/A	20.8	99.6	91.8	P
2	LC-3		N/A	17.7	101.5	93.5	P
3	LC-3A		N/A	20.0	101.2	93.2	P
4	LC-3A		N/A	18.9	102.5	94.5	P

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fursh

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-314	DATE:	4/27/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 60's - 80's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:20 Sussex begins excavating around LC-5.
09:00 Excavation complete with 1.5 feet of topsoil and 2 feet of clay cap. A wire is exposed in the clay on the southwest side. A trench with a pipe and wire is excavated approximately 8.5 feet towards LC-6.
10:15 Sussex begins backfilling the excavation.
10:45 I take test 1 on this backfill and it meets specs.
10:55 They continue the backfill process.
11:45 I take test 2 on this backfill and it meets specs.
12:00 Lunch
13:00 Sussex begins excavating around LC-19.
14:00 They expose a PVC pipe in the southeast corner of the excavation. Two wires are found in the topsoil; one on the north side and one on the west side. A wire is also exposed in the clay cap on the west side.
14:30 Sussex cuts existing 10 inch steel protective casing.
15:30 Sussex completes work for today.

Sussex places pipe and backfills excavation at LC-5.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-5		N/A	21.1	103.2	95.1	P
2	LC-5		N/A	21.2	100.8	92.9	P

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-315	DATE:	4/28/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 60's - 80's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:15 Sussex continues excavation around LC-19.
07:30 Excavation is complete with 1.5 feet of topsoil and 2.7 feet of clay cap.
07:45 Sussex begins backfilling excavation.
08:20 I take test 1 on this backfill and it meets specs.
08:45 They continue the backfill process.
09:30 I take test 2 on this backfill and it meets specs.
09:45 Sussex places HDPE protective pipe around LC-19 and continues to backfill.
10:45 I take test 3 on this backfill and it meets specs.
11:05 They continue to place backfill.
12:00 Lunch
12:45 Sussex is having mechanical problems with the wacker packer. They begin to set forms around the completed wells.
14:30 They continue to have mechanical problems with the wacker packer.
15:30 Sussex finishes work for today.

Sussex places pipe and backfills excavation at LC-19.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-19		N/A	20.4	99.6	91.8	P
2	LC-19		N/A	20.1	102.2	94.2	P

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles L. Furlow

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-316	DATE:	4/29/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 60's - 80's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:15 Sussex begins backfilling around LC-19.
08:00 Sussex finishes backfilling at LC-19.
09:30 I take test 1 on this backfill. It meets specs.
09:45 Sussex places topsoil around LC-19.
10:15 Sussex begins pouring concrete pads at LC-5, LC-3, LC-12, LC-13 and LC-19.
12:00 Lunch
13:00 Pads are complete. Sussex does not plan any additional work for today.

Sussex backfills excavation at LC-19.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-19		N/A	20.4	101.0	93.1	P

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Clark L. Farber

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-317	DATE:	5/05/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 60's - 80's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:15 Sussex excavated around LC-15 on 5/4/94. 1.6 feet of topsoil and 2.0 feet of clay cap is exposed. Wire and PVC pipe is noted in the clay cap on the west side.
07:20 Sussex begins backfilling excavation.
08:00 I take test 1 on this backfill and it meets specs.
08:20 Sussex continues the backfill process.
09:00 I take test 2 on this backfill and it meets specs.
09:30 Sussex begins excavating at LC-9.
10:00 They have finished excavating with 2.0 feet of topsoil and 3.0 feet of clay cap. All wires and pipe extend below this elevation into the waste.
11:00 Sussex has removed existing corrugated metal pipe. Remaining corrugated metal pipe and PVC riser pipe appear fine.
11:15 They begin backfilling excavation.
11:45 I take test 3 on this backfill and it meets specs.
12:00 Lunch
12:45 Sussex resumes the backfill process.
13:30 I take test 4 on this backfill and it meets specs.
13:45 Sussex continues the backfill process.
14:45 I take test 5 on this backfill and it meets specs.
15:30 Sussex finishes work for today.

Sussex places pipes and backfills excavations at LC-15 and LC-9.

INSPECTOR Thomas A. Vrenick ENGINEER Clark R. Turley

EARTHWORK MONITORING
DAILY FIELD REPORT
(continued)

Report No: 52-317 Date: 5/05/94

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-15		N/A	20.6	101.3	93.3	P
2	LC-15		N/A	22.1	102.0	94.0	P
3	LC-9		N/A	22.1	100.6	92.7	P
4	LC-9		N/A	19.4	103.7	95.6	P
5	LC-9			19.5	102.9	94.8	P

LABORATORY DATA-None

INSPECTOR Thomas A. Vreutch ENGINEER Charles R. Turlo

AQUATERRA

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-318	DATE:	5/06/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 60's - 80's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:20 Sussex places and compacts topsoil around LC-9.
08:15 Sussex places and compacts topsoil around LC-15.
09:00 Sussex finishes work for today.

Sussex places topsoil around LC-15 and LC-9.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fowler

AQUATERRA

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-319	DATE:	5/09/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Aquaterra
WEATHER:	Partly Cloudy 70's - 80's	EQUIPMENT:	Grout Mixer

ACTIVITIES SUMMARY

08:00 Arrive on site.
08:30 Gather materials to grout annulus between HDPE pipes and leachate well riser pipe with volclay.
09:30 Grout leachate wells LC-7, LC-5, LC-12, LC-13, LC-3A, LC-19, LC-6 and LC-9.
14:30 Complete grouting for today.
15:30 Clean grout mixer.

Grout annulus of leachate wells .

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles P. Gurley

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-320	DATE:	5/10/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Aquaterra
WEATHER:	Partly Cloudy 70's - 80's	EQUIPMENT:	Grout Mixer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:45 Gather materials to grout annulus between HDPE pipes and leachate well riser pipe with volclay.
09:30 Grout leachate wells LC-15, LC-16, LC-17, LC-25 and LC-26.
14:30 Complete grouting for today.
15:00 Clean grout mixer.

Grout annulus of leachate wells .

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Furlow

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-321	DATE:	5/25/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 60's - 80's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:20 Sussex begins excavating around LC-10.
08:30 They remove existing corrugated metal protective pipe.
09:30 They have finished the excavation with 1.5 feet of topsoil and 3.0 feet of clay cap. All wires and pipe extend below this elevation into the waste.
10:30 Sussex begins backfilling the excavation.
11:30 I take test 1 on this backfill and it meets specs.
12:00 Lunch
12:40 Sussex resumes the backfilling process.
13:30 I take test 2 on this backfill and it meets specs.
13:45 Sussex continues the backfill process.
14:30 I take test 3 on this backfill and it meets specs.
15:00 They place topsoil around LC-10.
15:30 Sussex finishes work for today.

Sussex places HDPE pipe at LC-10 and backfills excavation .

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-10		N/A	22.1	99.6	91.8	P
2	LC-10		N/A	20.8	103.2	95.1	P
3	LC-10		N/A	21.5	101.9	93.9	P

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles P. Farley

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-322	DATE:	5/26/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 70's - 80's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:45 Sussex begins excavating around LC-11.
09:00 The excavation is complete with 1.0 feet of topsoil and 3.0 feet of clay cap. All wires and pipe extend below this elevation into the waste.
09:30 Sussex removes existing corrugated metal protective pipe.
10:30 They place HDPE protective pipe around LC-11 and begin backfilling the excavation.
11:15 I take test 1 on this backfill and it meets specs.
11:30 Sussex continues the backfill process.
12:00 Lunch
12:45 I take test 2 on this backfill and it meets specs.
13:00 Sussex continues the backfill process.
13:50 I take test 3 on this backfill and it meets specs.
14:10 Sussex places topsoil around LC-11.
15:00 Sussex completes work for today.

Sussex places HDPE pipe at LC-10 and backfills excavation .

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-11		N/A	22.0	99.6	91.8	P
2	LC-11		N/A	19.8	101.6	93.6	P
3	LC-11		N/A	20.1	101.3	93.4	P

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Clark R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-323	DATE:	6/14/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 70's - 90's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:20 Sussex begins excavating around LC-14.
08:00 They have finished the excavation (1' of topsoil and 3' of clay cap). There is a wire in the clay cap going to the control shack and a PVC pipe going to LC-15.
08:30 They remove the existing CMP protective casing.
10:00 They extend the PVC riser pipe.
12:00 Lunch
12:40 Sussex begins backfilling the excavation.
13:15 They set the new HDPE protective casing around the well.
13:30 I take test #1 and it meets specs.
13:40 They continue to backfill the excavation.
14:15 I take test #2 on the backfill and it meets specs.
14:20 They resume backfilling the excavation.
14:50 I take test #3 on the backfill and it meets specs.
15:00 They stop work for today.

Sussex places HDPE pipe at LC-14 and backfills excavation .

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-14		N/A	20.6	103.2	95.1	P
2	LC-14		N/A	19.3	104.7	96.5	P
3	LC-14		N/A	19.0	105.5	97.2	P

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-324	DATE:	6/15/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 70's - 90's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:20 Sussex places topsoil around LC-14.
08:30 Sussex begins excavating around LC-2.
09:45 They have finished the excavation and it reveals 1.5 feet of topsoil and 3 feet of clay cap. No wires or pipes are found during the excavation.
10:00 They remove the existing CMP protective casing.
11:15 Sussex places the new HDPE protective casing around LC-2.
12:00 Lunch
12:35 Sussex begins backfilling the excavation.
13:20 I take test #1 on this backfill and it meets specs.
13:30 They resume the backfill process.
14:30 I take test #2 on this backfill and it meets specs.
14:40 They continue to backfill the excavation.
15:20 I take test #3 on this backfill and it meets specs.
15:30 Sussex stops work for today.

Sussex places HDPE pipe at LC-2 and backfills excavation .

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-2		N/A	18.5	99.1	91.3	P
2	LC-2		N/A	17.7	99.9	92.1	P
3	LC-2		N/A	20.5	99.8	92.0	P

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fields

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-325	DATE:	6/20/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 90's	EQUIPMENT:	John Deere Backhoe

ACTIVITIES SUMMARY

12:30 Arrive on site. Sussex has begun excavating around LC-8.
12:45 They resume excavating around LC-8.
13:20 They have finished excavating. There is 1 foot of topsoil and 3 feet of clay cap. Wires are exposed in the topsoil on the north, east and southwest sides of the well.
14:00 They begin removing the existing CMP protective casing.
15:30 Sussex finishes work for today.

Sussex excavates around LC-8.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Furlow

AQUATERRA

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-326	DATE:	6/23/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy 80's, light rain	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:20 Sussex removes wet material from excavation at LC-8 caused by overnight rain.
08:30 They begin backfilling the excavation.
09:00 Light rain begins. Work is stopped.
09:40 Rain stops.
10:30 Work resumes as the light rain did not affect the backfill material.
11:00 I take test #1 on this backfill and it meets specs.
12:00 Lunch
12:45 Sussex does not plan any additional work on this project today.

Sussex begins backfilling around LC-8.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-8		N/A	17.5	103.2	95.1	P

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-327	DATE:	6/27/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 80's-90's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

10:00 Arrive on site.
10:55 Take test #1 on the backfill around LC-8 and it meets specs.
11:05 Sussex has dug around LC-20 with 2 feet of topsoil and 3 feet of clay cap. There is a wire in the topsoil on the east side of the well.
11:15 Sussex begins removing the CMP protective casing from LC-20.
12:00 Lunch
12:30 Sussex resumes backfilling the excavation around LC-8.
13:20 They continue to work on removing the CMP protective casing from LC-20.
15:30 Sussex finishes work for today.

Sussex begins backfilling around LC-8 and excavates around LC-20.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-8		N/A	16.9	109.6	101.0	P

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Charles R. Furlow

AQUATERRA

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-328	DATE:	6/28/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 80's-90's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

08:00 Arrive on site.
08:15 Sussex removing CMP protective casing from LC-20.
08:30 They place new HDPE protective casing around LC-20.
09:00 They begin backfilling the excavation.
09:30 I take test #1 on backfill and it meets specs.
10:55 I take test #2 on backfill and it meets specs.
12:00 Lunch
12:30 Sussex resumes work.
13:05 I take test #3 on backfill and it meets specs. Sussex begins placing topsoil around LC-20.
13:30 Work complete at LC-20.
13:45 Sussex begins digging around LC-21.
14:30 Sussex has finished the excavation. There is 1 foot of topsoil and 3.5 feet of clay cap. A wire was exposed in the topsoil on the west side.
15:30 Sussex completes work for today.

Sussex backfills around LC-20 and excavates around LC-21.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-20		N/A	16.3	105.6	97.3	P
2	LC-20		N/A	18.8	102.3	94.3	P
3	LC-20		N/A	17.0	104.4	96.2	P

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Mark R. Farlow

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-329	DATE:	6/29/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 80's-90's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:30 Arrive on site.
09:40 Sussex begins removing existing steel protective casing from around LC-21.
11:10 Sussex places new HDPE protective casing around LC-21.
12:00 Lunch
12:35 Sussex begins backfilling the excavation around LC-21.
12:55 I take test #1 on this backfill and it meets specs.
13:30 I take test #2 on this backfill and it meets specs.
14:30 Sussex has finished work at LC-21.
15:00 I leave site.

Sussex backfills around LC-21.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-21		N/A	18.5	104.7	96.4	P
2	LC-21		N/A	18.2	101.8	93.8	P

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Charles R Furbish

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-330	DATE:	6/30/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 80's-90's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:30 Arrive on site.
07:57 Sussex begins excavating around LC-22.
08:45 Sussex has finished excavation and begins removing the steel protective casing from around LC-22.
09:45 Sussex places new HDPE protective casing around LC-22.
10:28 They begin backfilling the excavation.
10:55 I take test #1 and it fails to meet specs. Sussex recompacts this backfill.
11:05 I retest this backfill (test #2) and it meets specs.
11:15 They resume backfilling the excavation.
11:35 I take test #3 on backfill and it meets specs.
12:00 Lunch
14:00 Leave site.

Sussex places new HDPE protective casing and backfills around LC-22.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-22		N/A	16.0	97.4	89.7	F
2	LC-22		N/A	15.5	105.5	97.2	P
3	LC-22		N/A	18.2	103.6	95.5	P

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Charles R Farlow

AQUATERRA

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-331	DATE:	7/05/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 80's-90's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:30 Arrive on site.
08:10 Sussex excavating around LC-23.
09:30 Sussex completes excavation at LC-23.
10:20 Sussex removes existing steel protective casing.
12:00 Lunch
12:50 Sussex continues to remove protective casing.
13:40 Sussex places new HDPE protective casing around LC-23.
14:30 They begin backfilling the excavation.
15:00 I take test #1 and it fails to meet specs. They begin recompacting this material.
15:10 I take test #2 on this recompacted material. It now meets specs.
15:30 Sussex finishes work for today.

Sussex places new HDPE protective casing and backfills around LC-23.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-23		N/A	24.5	96.6	89.0	F
2	LC-23		N/A	24.4	98.2	90.5	P

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Charles R Furlow

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-332	DATE:	7/06/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 80's-90's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:30 Arrive on site.
07:37 Sussex backfilling around LC-23.
08:10 I take test #1 on this backfill and it meets specs.
08:15 Sussex continues to backfill around LC-23.
09:10 Sussex has finished at LC-23.
09:40 Sussex begins excavating around LC-18.
10:15 They have completed the excavation at LC-18.
10:20 They begin removing the existing protective casing.
12:00 Lunch
13:15 Sussex places new HDPE protective casing around LC-18.
13:45 Sussex begins backfilling around LC-18.
14:10 I take test #2 on this backfill and it fails to meet specs. They begin recompacting this backfill.
14:20 I take test #3 on this recompacted material. It now meets specs.
14:25 Sussex resumes backfilling the excavation.
15:09 I take test #4 on this backfill and it meets specs.
15:30 Sussex finishes work for today.

Sussex places new HDPE protective casing and backfills around LC-18.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-23		N/A	17.8	102.8	94.7	P
2	LC-18		N/A	20.6	97.2	89.6	F
3	LC-18		N/A	21.7	98.3	90.5	P
4	LC-18		N/A	20.4	100.6	92.7	P

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Mark R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-333	DATE:	7/07/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 80's-90's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:30 Arrive on site.
07:55 Sussex backfilling around LC-18.
08:20 I take test #1 on this backfill and it meets specs.
09:10 They have finished placing topsoil around LC-18.
10:00 Sussex begins excavating around LC-1.
11:15 Sussex has finished excavation and begins removing existing protective casing.
12:00 Lunch
12:30 They resume removing existing protective casing.
12:50 They place new HDPE protective casing around LC-1.
13:15 Begins to rain.
13:30 Sussex stops work for today.

Sussex places new HDPE protective casing around LC-1.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-18		N/A	18.8	100.0	92.2	P

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Charles R. Jurlo

AQUATERRA

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-334	DATE:	7/08/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, rain, 80's-90's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:10 Sussex determines excavation at LC-1 is too wet. Will wait for the material to dry.
09:20 Sussex removes damp material from excavation and begins backfilling with new material.
09:50 I take test #1 on this backfill and it meets specs.
10:00 Sussex continues to backfill the excavation.
10:25 I take test #2 on this backfill and it meets specs.
11:00 They have finished placing topsoil around LC-1.
11:30 Begins to rain.
12:00 Lunch
13:30 Sussex will not do any additional work today. I leave site.

Sussex backfills around LC-1.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-1		N/A	23.8	97.7	90.1	P
2	LC-1		N/A	20.4	102.1	94.1	P

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Charles R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-335	DATE:	7/22/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Aquaterra
WEATHER:	Partly Cloudy, 80's-90's	EQUIPMENT:	Grout Mixer

ACTIVITIES SUMMARY

07:00 Arrive on site.
08:30 Gather equipment to grout.
10:00 Grout the annulus between the new HDPE protective casings and the leachate collection well riser pipes at the following locations: LC-8, LC-20, LC-10, LC-11, LC-21, LC-22, LC-23 and LC-18. The volclay was mixed in a ratio of 1 bag per 14 gallons of water with a mud weight of 10.0 to 10.4 lb./gal.
12:00 Clean grout mixer.

Grout annulus of leachate wells.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-336	DATE:	8/08/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 80's-90's	EQUIPMENT:	D-3 Dozer

ACTIVITIES SUMMARY

10:00 Sussex strips grass from area around Leachate Collection Well LC-5. The topsoil in this area has never been brought to grade.
12:00 Lunch
12:30 Sussex begins placing topsoil in this area to bring it to grade.
14:00 They continue to place topsoil in this area.
15:30 Sussex has finished placing topsoil in this area. Brown and Butler will x-section this area at a later date to confirm it is to grade.

Sussex places topsoil in area of LC-5.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Furlow

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-337	DATE:	9/14/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Gulf Wandes
WEATHER:	Clear, 70's-90's	EQUIPMENT:	

ACTIVITIES SUMMARY

07:30 Arrive at site. Sussex performed some work on LC-24 yesterday. This included cutting off the original steel protective casing and the PVC riser pipe.

08:00 Gulf Wandes on site to place and weld plate between the 28" and the 20" HDPE pipes. They will also extend the 20" HDPE pipe. The extension of the 20" pipe will have a blind flange to act as a cover for the well.

09:30 They begin welding plate to 20" pipe. They place a minimum of three beads for this weld.

10:15 They begin welding plate to the 28" pipe. They place a minimum of three beads for this weld.

11:00 They have finished welding the plate to the 28" pipe. They begin cutting the 20" pipe level so that they can attach the extension.

11:40 They begin welding the extension to the existing pipe.

13:00 Gulf Wandes has completed work on LC-24.

Gulf Wandes extends 20" pipe around LC-24.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles P. Furlow

AQUATERRA

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-338	DATE:	9/30/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 60's-80's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site. They plan to do some work around Leachate Wells LC-5, LC-15 and LC-14 today.
08:30 Sussex begins excavating at LC-5 to remove wire that is in the topsoil.
09:30 They have completed the excavation in this area. The excavation allows them to remove a section of the wire that would be in the way of the sidewalk tie-in.
09:45 They backfill the excavation and compact the topsoil in lifts.
11:00 They begin excavating at LC-15 to remove a wire and pipe in the clay cap. They need to remove these items to complete the sidewalk tie-in at LC-15.
12:00 Lunch
12:30 They resume excavating.
13:30 They have excavated and exposed a portion of the pipe. They have also exposed the wire far enough so that it is out of the way of the tie-in. They backfill the excavation for the wire.
14:30 They remove a section of the pipe. A section of the pipe remains and will be removed at a later date.
15:00 They begin to backfill the clay cap.
15:30 I take test 1 and it meets specs.
16:00 They place and compact the topsoil.
16:30 They finish work for today.

Sussex removes wires and pipe by LC-5 and LC-15.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-15		N/A	18.4	101.0	93.1	P

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-339	DATE:	10/06/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy 60's-80's	EQUIPMENT:	John Deere Backhoe

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:20 Sussex begins excavating at LC-14 to remove the remaining section of pipe that went from LC-15 to LC-14.
08:30 They have finished this excavation and they remove the pipe.
09:00 They will backfill this at a later date.

Sussex removes pipe by LC-14 and LC-15.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Thomas A Vrenick ENGINEER Charles R Furlow

AQUATERRA

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-340	DATE:	10/14/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 60's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
09:00 Sussex begins backfilling the excavation at LC-15/LC-14. This excavation was done to remove the remainder of the pipe running from LC-14 to LC-15. The pipe was removed on 10/6/94.
10:00 Sussex continues to backfill the excavation.
10:30 I take test 1 on this backfill and it meets specs.
10:45 They continue to backfill the excavation.
11:00 I take test 2 on this backfill and it meets specs.
11:15 This completes the backfill of the clay cap. They begin placing and compacting topsoil.
12:00 Sussex has finished placing and compacting topsoil. They do not plan any additional work today.

Sussex backfills excavation at LC-14/LC-15.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-14/15		N/A	20.5	99.9	92.1	P
2	LC-14/15		N/A	21.1	99.5	91.7	P

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-341	DATE:	11/07/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 60's	EQUIPMENT:	John Deere Backhoe

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:10 Check in with Tony Phillips [RES(LA)] on status of project.
09:25 Sussex begins excavating around LD-4.
10:15 Sussex finishes excavation at LD-4.
10:45 Sussex cutting corrugated metal pipe.
12:00 Lunch
12:30 Sussex resumes cutting pipe from around LD-4.
13:35 Sussex has finished cutting pipe.
13:50 Sussex begins breaking grout from around pipe.
14:35 Sussex removes casing from around riser pipe.
14:50 Sussex places new HDPE casing around riser pipe.
15:30 Sussex finishes work for today. I leave site.

Sussex places new HDPE protective casing around LD-4.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Emily Mercante ENGINEER Charles R Jurden

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-342	DATE:	11/08/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 70's - 80's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:40 Sussex excavating wet clay material from around LD-4.
08:10 Sussex begins backfilling around LD-4.
12:00 Lunch
13:00 I take test 1 on this backfill and it fails to meet specs. Sussex recompacts this material.
13:30 Take test 2 on this backfill and it meets specs.
13:45 Sussex begins excavating around LD-6.
14:15 They begin cutting the corrugated metal casing from around LD-6.
14:40 Sussex removes old casing and puts new HDPE casing in place.
14:50 They begin compacting topsoil around new casing. No testing is done as the excavation was not in the clay cap.
15:00 Sussex completes work for today and I leave site.

Sussex places new HDPE protective casing around LD-6.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LD-4		N/A	20.1	95.5	88.0	F
2	LD-4		N/A	20.1	98.5	90.8	P

LABORATORY DATA-None

INSPECTOR Emil Mercante ENGINEER Charles R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-343	DATE:	11/10/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 70's - 80's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:30 Sussex excavating around LD-5.
09:00 Sussex cuts and removes existing corrugated metal pipe around LD-5.
10:30 Sussex places new HDPE casing around LD-5. They begin backfilling and compacting around new casing.
11:30 Take test 1 and it meets specs.
12:00 Lunch
12:30 Sussex resumes backfilling around LD-5.
13:45 Complete work around LD-5.
13:55 Begin to remove wires from topsoil on top of Cell 717.
15:30 Sussex completes work for today and I leave site.

Sussex places new HDPE protective casing around LD-5.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LD-5		N/A	17.0	91.2	90.5	P

LABORATORY DATA-None

INSPECTOR Emil Mercante ENGINEER Charles R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-344	DATE:	11/11/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 50's - 60's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:20 Sussex removing electrical wires from top of Cell 717 near LC-5 and LC-6.
08:40 Sussex removes wire from trench.
09:20 Sussex begins backfilling and compacting trench.
09:55 Take test 1 and it meets specs. Sussex places and compacts additional backfill.
10:15 Take test 2 and it meets specs.
11:45 Sussex finishes backfilling trench.
12:00 Lunch
12:30 No further work on Cell 717 today.

Sussex removes electrical wires from cap.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-5		N/A	20.8	105.2	96.9	P
2	LC-6		N/A	19.9	103.6	95.4	P

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Charles R. Fuller

AQUATERRA

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-345	DATE:	11/11/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Aquaterra
WEATHER:	Cloudy, 50's - 60's	EQUIPMENT:	Grout Mixer

ACTIVITIES SUMMARY

08:30 Arrive on site.
08:45 Grout LC-16 and LC-17 with volclay grout. The grout was mixed in a ratio of 1 bag of grout per 14 gallons of water with a mud weight of 10.0 to 10.4 lb./gal.

Abandon LC-16 and LC-17.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Claude R. Purdy

AQUATERRA

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-346	DATE:	11/14/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 60's - 80's	EQUIPMENT:	John Deere Backhoe

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:30 Sussex plans to remove electrical wire and conduit from cap today. They will work on the piping and wire running from LC-8 to the shack.
10:15 Sussex digging out conduit pipe.
12:00 Lunch
12:30 Sussex continues digging to remove conduit.
14:25 Sussex has removed conduit and backfills trench. The trench extends into the topsoil only.
14:40 Sussex begins removing electrical wires.
15:30 Sussex finishes work for today and I leave site.

Sussex removes conduit and wires from cap.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Charles R. Fuller

AQUATERRA

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-347	DATE:	11/15/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 70's - 80's	EQUIPMENT:	John Deere Backhoe

ACTIVITIES SUMMARY

07:00	Arrive on site.
07:10	Sussex removing electrical wire from Cell 717 cap.
08:50	Sussex stops work on electrical wires and begins to abandon LC-16 and LC-17.
10:00	Sussex excavates around LC-16.
11:05	Sussex removes 13 feet of the old corrugated metal pipe around LC-16.
12:00	Lunch
12:30	Sussex resumes work. They begin excavating around LC-17.
14:45	They remove 10 feet of the old corrugated metal pipe around LC-17.
15:30	Sussex completes work for today and I leave site.

Sussex begins to abandon LC-16 and LC-17.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Charles R. Turlow

AQUATERRA

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-348	DATE:	11/16/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Aquaterra
WEATHER:	Cloudy, 60's - 70's	EQUIPMENT:	Grout Mixer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:15 Top off LC-16 and LC-17 with volclay grout. The grout is mixed in a ratio of one bag per 14 gallons of water with a mud weight of 10.0 to 10.4 lb./gal.
08:30 Finish grouting LC-16 and LC-17.

Grout LC-16 and LC-17.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-349	DATE:	11/16/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 60's - 70's	EQUIPMENT:	John Deere Backhoe

ACTIVITIES SUMMARY

07:00 Arrive on site.
09:25 Sussex begins backfilling excavation associated with abandonment of LC-17.
10:40 Take test 1 and it meets specs. Sussex continues to backfill excavation.
12:00 Lunch
12:30 Sussex resumes backfilling operation.
13:25 Take test 2 and it meets specs. Sussex begins placing topsoil.
14:50 Sussex has finished placing topsoil.
15:00 Sussex stops work for today and I leave site.

Backfill excavation for abandonment of LC-16 and LC-17.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-17		N/A	18.0	99.1	91.3	P
2	LC-17		N/A	14.6	110.7	102.0	P

LABORATORY DATA-None

INSPECTOR Emily Mercante ENGINEER Charles R. Furlow

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-350	DATE:	11/17/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 60's - 70's	EQUIPMENT:	John Deere Backhoe

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:35 Sussex begins backfilling excavation associated with abandonment of LC-16.
08:45 Take test 1 and it meets specs. Sussex resumes backfilling excavation.
09:55 Take test 2 and it meets specs. Sussex begins placing topsoil in this area.
11:05 Sussex completes backfill operation for LC-16.
12:00 Lunch
12:40 Sussex begins removing electrical wires running from LC-20 to LC-8.
14:00 Sussex stops work for today and I leave site.

Backfill excavation for abandonement of LC-16.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-16		N/A	16.7	100.9	92.9	P
2	LC-16		N/A	16.5	105.0	96.7	P

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Charles R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-351	DATE:	11/18/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 60's - 70's	EQUIPMENT:	John Deere Backhoe

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:20 Sussex removing electrical wire running from LC-6 to LC-1 in topsoil.
12:00 Lunch
12:30 Sussex resumes removing electrical wire from topsoil.
12:40 Sussex backfills trench in topsoil.
13:20 Sussex removes electrical wire from topsoil.
14:30 Sussex stops work for today and I leave site.

Sussex removes electrical wire from topsoil.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Charles R. Furlow

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-352	DATE:	11/22/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 50's - 60's	EQUIPMENT:	John Deere Backhoe

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:15 Sussex begins removing electrical wire in topsoil. This wire generally runs from LC-5 to LC-3.
09:00 They continue to remove wire.
11:00 They have finished removing wire and begin backfilling trench.
12:00 Lunch
12:30 They continue to backfill trench.
13:30 They complete backfill of trench.
14:00 Sussex begins removing another electrical wire that generally runs from LC-5 to LC-3. This wire is just below the surface and we are able to just pull it out of the topsoil.
15:00 They stop work for today.
15:30 I leave site.

Sussex removes electrical wire from topsoil.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Thomas A Vrenick ENGINEER Charles R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-353	DATE:	11/23/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 40's - 50's	EQUIPMENT:	John Deere Backhoe

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:15 Sussex begins excavating topsoil to remove wire running from LC-5 to the Control Shack.
09:00 Continue to excavate and remove wire.
10:00 Complete removal of wire.
10:25 Begin backfilling trench with topsoil.
11:00 They continue to backfill trench.
12:00 Finish backfilling trench. Sussex does not plan any additional work today. I leave site.

Sussex removes electrical wire from topsoil.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Furlow

AQUATERRA

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-354	DATE:	11/28/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 50's - 60's	EQUIPMENT:	John Deere Backhoe

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:30 Sussex begins removing wires running from LC-3 to LC-19 in topsoil.
10:30 They continue removing wires from topsoil.
12:00 Lunch
12:30 They begin removing wires from topsoil near LC-11.
14:30 They continue removing wires.
15:30 They stop work for today and I leave site.

Sussex removes electrical wire from topsoil.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Charles R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-355	DATE:	11/30/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 40's - 60's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
09:00 Sussex begins removing wires from topsoil and clay cap near and east of shack.
10:30 They continue removing wires.
11:15 They begin backfilling excavation in clay cap.
12:00 Lunch
12:30 They resume backfilling the excavation.
12:40 Take test 1 and it meets specs. They resume backfilling and compacting.
13:35 Take test 2 and it meets specs. They resume backfilling and compacting.
14:45 Take test 3 and it meets specs.
15:00 Sussex stops work for today and I leave site.

Sussex removes electrical wire from cap.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	SHACK		N/A	22.3	102.4	94.4	P
2	SHACK		N/A	20.2	101.7	93.7	P
3	SHACK		N/A	25.6	98.6	90.8	P

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Charles R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-356	DATE:	12/01/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 60's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:25 Sussex removing wires from topsoil and clay cap near LC-19.
10:00 They continue removing wires.
12:00 Lunch
12:40 Sussex begins backfilling excavation associated with removing wires.
13:25 Take test 1 and it meets specs.
13:45 Sussex continues to backfill excavation.
15:30 Sussex stops work for today and I leave site.

Sussex removes electrical wire from cap.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-19		N/A	20.0	100.4	92.5	P

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Charles R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-357	DATE:	12/05/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 60's - 70's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:15 Stand by for rain.
09:00 Sussex decides it is too wet to work. I leave site.

Too wet to work.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Charles R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-358	DATE:	12/08/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 70's - 80's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:40 Sussex removing wires running from LC-19 to shack in topsoil.
10:15 They continue to remove wires.
12:00 Lunch
12:30 Sussex begins backfilling excavation associated with removal of wires.
14:00 Sussex continues to backfill excavation.
14:30 Sussex stops work for today and I leave site.

Sussex removes wires from topsoil.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Emil Mercante ENGINEER Charles R. Fowler

AQUATERRA

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-359	DATE:	12/09/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 70's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:10 Sussex removing wires running from LC-19 to shack in topsoil.
10:50 Sussex backfilling trench required to remove wire.
12:00 Lunch
12:30 Sussex resumes backfilling excavation associated with removal of wires.
14:00 Sussex continues to backfill excavation.
14:30 Sussex stops work for today and I leave site.

Sussex removes wires from topsoil.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Mark L. Farley

AQUATERRA

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-360	DATE:	12/12/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	W. Paul
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear, 50's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

12:30 Arrive on site. Sussex has excavated a trench on the east side of the Control Shack to remove some electrical wires. It extends into the clay cap.
14:00 Sussex begins backfilling the excavation.
15:00 Take tests 1 and 2 on this compacted backfill. They meet specs. They will place additional backfill tomorrow.
15:30 I leave site.

Sussex removes wires from topsoil and clay cap.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	Control Shack		N/A	18.0	100.4	92.5	P
2	Control Shack		N/A	16.0	98.1	90.4	P

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Claude R. Faulk

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-361	DATE:	12/14/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 60's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:10 Sussex backfilling trench east of Control Shack.
10:00 Continue to backfill trench.
12:00 Lunch
13:05 Take test 1 on backfill and it meets specs.
13:38 Take test 2 on backfill and it meets specs.
14:00 Will place topsoil at a later date.

Sussex removes wires from topsoil and clay cap.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	Control Shack		N/A	21.4	98.6	90.8	P
2	Control Shack		N/A	19.6	105.1	96.8	P

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Clark R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-362	DATE:	12/15/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 60's - 70's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:10 Sussex begins removing electrical wires running from LC-15 to shack in clay cap.
10:30 Sussex begins backfilling trench required to remove wire.
12:00 Lunch
12:30 I take test #1 on the backfill and it meets specs.
13:00 Sussex begins placing topsoil in excavation.
14:00 Sussex completes work for today.

Sussex removes wire from clay cap and topsoil.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-15		N/A	17.9	103.6	95.5	P

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Charles R. Furlow

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-363	DATE:	12/21/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 60's - 70's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
08:00 Sussex begins excavating to remove remaining wire running from LC-21 to LC-13. Most of this wire has already been removed and the excavation backfilled. Approximately 60 feet of excavation needs to be completed.
10:00 Sussex has removed the remainder of this wire. The excavation was only in the topsoil. The trench will be backfilled and compacted.
11:00 They have finished backfilling this trench. They begin to excavate to remove the wire running from LC-12 to the Control Shack.
12:00 Lunch
12:30 Sussex resumes excavating to remove wire running from LC-12 to the Control Shack.
14:00 Sussex stops work for today. They will continue this work tomorrow.

Sussex removes wires from topsoil.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Farlow

AQUATERRA

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-364	DATE:	12/22/94
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Partly Cloudy, 50's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:15 Sussex continues to excavate to remove wire running from LC-12 to the Control Shack.
08:30 They have finished the excavation and removed the entire wire.
08:45 They begin backfilling and compacting the excavation.
10:00 Take tests 1 and 2 on backfill. They meet specs.
10:15 Sussex resumes backfilling. This is now topsoil and will not be tested.
12:00 Sussex completes this work and will not start any new work.

Sussex removes wires from topsoil and clay cap.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-12		N/A	17.6	100.2	92.3	P
2	LC-12		N/A	17.7	99.7	91.9	P

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Farley

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-365	DATE:	01/03/95
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Rain, 40's	EQUIPMENT:	

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:15 Stand by for rain to stop.
07:55 Sussex decides it is too wet to work.
08:00 I leave site.

No work due to rain.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Charles R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-366	DATE:	01/05/95
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 30's	EQUIPMENT:	

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:15 Tony Phillips RES informs me that Sussex will not work on this project today.
07:30 I leave site.

No work due to wet conditions.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Charles R. Fuller

AQUATERRA

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-367	DATE:	01/09/95
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 50's - 60's	EQUIPMENT:	John Deere Backhoe

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:15 Sussex begins removing wires from running from LC-14 to shack in topsoil.
10:20 Sussex continues to remove wires from topsoil.
12:00 Lunch
12:30 Sussex resumes removing wires from 717.
14:30 They continue removing wires.
15:00 Sussex stops work for today. I leave site.

Susex removes wires from topsoil.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Charles L Farlow

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-368	DATE:	01/10/95
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 60's - 70's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:20 Sussex removing wires from clay cap near LC-8.
10:00 They continue to remove wires from cap.
12:00 Lunch
12:30 Sussex continues to remove wires.
13:35 They begin backfilling and compacting trench in clay cap.
14:30 Take test 1 on this backfill and it meets specs.
15:10 Sussex stops work for today and I leave site.

Susex removes wires from topsoil and clay cap.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-8		N/A	20.2	101.7	93.7	P

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Charles P. Turley

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-369	DATE:	01/11/95
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	E. Mercante
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Cloudy, 60's - 70's	EQUIPMENT:	John Deere Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:15 Sussex backfilling trench and compacting.
09:30 Sussex begins removing PVC pipe not in service near LC-19.
12:00 Lunch
12:30 Sussex resumes excavating to remove pipe.
13:00 Sussex begins backfilling trench.
13:45 Take test 1 and it meets specs.
14:30 Sussex stops work for today and I leave site.

Susex removes pipe from topsoil and clay cap.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	LC-19		N/A	18.0	100.4	92.5	P

LABORATORY DATA-None

INSPECTOR Emile Mercante ENGINEER Charles R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-370	DATE:	9/11/95
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 70's - 90's	EQUIPMENT:	Case Backhoe, Wacker Packer

ACTIVITIES SUMMARY

08:00 Arrive on site.
08:30 Sussex begins excavating to remove the electrical duct bank running from LC-11 to the Control Shack.
10:00 They continue to remove this duct bank.
12:00 Lunch
12:30 They resume removing this duct bank.
14:00 Sussex has finished removing the duct bank. The excavation was limited to the topsoil and did not extend into the clay cap. They begin backfilling the excavation with topsoil and compact with a wacker packer.
15:15 Sussex stops work for today.

Sussex removes electrical duct bank near Control Shack.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-371	DATE:	9/12/95
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 70's - 90's	EQUIPMENT:	Case Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:30 Sussex continues to backfill excavation associated with removal of duct bank near Control Shack.
10:00 They complete backfill operation.
10:30 They begin excavating 3" PVC header in east slope of Cell 717C.
12:00 Lunch
12:30 They resume excavating header on east slope.
15:30 Sussex stops work for today.

Sussex begins removing header on east slope of Cell 717C.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Claude R. Funk

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-372	DATE:	9/13/95
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 70's - 90's	EQUIPMENT:	Case Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:00 Arrive on site.
07:20 Sussex resumes excavating to remove the header on east slope of Cell 717.
10:00 They have finished excavating the header on the east slope. The pipe is now more than three feet below the top of the clay cap. They cut the pipe and glue a cap on the end of the remaining pipe. They remove the pipe from the excavation.
10:30 Sussex begins backfilling the excavation.
12:00 Lunch
12:30 They resume backfilling the excavation. The majority of the excavation was in the topsoil. This is backfilled with topsoil and compacted with a wacker packer. An approximate ten foot section was in the clay cap. This was backfilled and compacted in lifts with clay cap material. No tests were taken on this area due to the small size.
15:30 Sussex stops work for today.

Sussex removes header on east slope of Cell 717C.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-373	DATE:	9/14/95
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 70's - 90's	EQUIPMENT:	Case Backhoe, D-3 Dozer, Wacker Packer

ACTIVITIES SUMMARY

07:30 Arrive on site. Sussex is excavating header line at toe of east slope of Cell 717 where it crosses the access road. This area is outside the clay cap.
09:00 They remove the header line and backfill the excavation.
10:00 Sussex moves control shack on top of Cell 717. This is done to complete work near the shack.
10:20 They begin excavating conduit that originally provided power to the shack and the pumps for the leachate wells.
12:00 Lunch
12:30 Sussex continues to excavate the conduit.
13:00 They have exposed the conduit so that it is now more than three feet below the top of the clay cap. They cut the pipe and put a cap on it. They remove the exposed pipe.
14:00 Sussex widens the excavation so that it can be compacted with the vibratory roller.
15:30 They stop work for today.

Sussex removes conduit near control shack on top of Cell 717.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-374	DATE:	9/15/95
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 70's - 90's	EQUIPMENT:	D - 3 Dozer, Vibratory Roller

ACTIVITIES SUMMARY

07:30 Arrive on site. Sussex begins to backfill the excavation associated with the removal of the conduit near the control shack. Those areas that extend only into the topsoil are backfilled and then compacted with the vibratory roller. Those areas that extend into the clay cap will be backfilled and compacted in lifts.

09:30 I take test #1 on the clay backfill and it meets specs. They resume backfill operations.

10:20 I take test #2 on the clay backfill and it meets specs. They resume backfill operations.

11:15 I take test #3 on the clay backfill and it meets specs. This completes backfilling of the clay areas. They begin placing and compacting topsoil in these areas.

12:00 Lunch

12:30 They continue to place and compact topsoil.

13:15 They finish placing topsoil and move control shack back to original location. Sussex does not plan any additional work today.

Sussex backfills excavation associated with removing conduit near control shack.

FIELD DATA

Test No.	N Coord.	E Coord.	Elev.	Water Cont.(%)	Dry Dens.(pcf)	% Proctor	P/F
1	Shack		N/A	18.2	102.5	94.5	P
2	Shack		N/A	19.0	103.2	95.1	P
3	Shack		N/A	18.6	102.2	94.2	P

LABORATORY DATA-None

INSPECTOR Thomas A. Vrenick ENGINEER Charles R. Fuller

EARTHWORK MONITORING
DAILY FIELD REPORT

REPORT NO:	52-375	DATE:	9/18/95
PROJECT:	Cell 717 Clay Cap	AQUATERRA REP:	T. Vrenick
PROJECT NO:	87B052	CONTRACTOR:	Sussex
WEATHER:	Clear 70's - 90's	EQUIPMENT:	Case Backhoe, Wacker Packer

ACTIVITIES SUMMARY

07:30 Arrive on site.
08:00 Sussex begins to excavate at the toe of the east slope of Cell 717A to remove the conduit for the old power.
10:00 They continue to excavate.
11:00 They have finished the excavation. The conduit is more than three feet below the top of the clay cap and is cut off and capped. The portion of the conduit that extends under the road is also capped for possible future use.
11:30 Sussex begins to backfill the excavation. The clay cap portion is placed and compacted in lifts. Due to the small size of this area, no tests are taken. They topsoil will also be compacted.
12:00 Lunch
12:30 Sussex resumes backfilling the excavation.
13:00 They finish backfilling the excavation. This completes the backfilling process associated with the removal of all utilities in the clay cap of Cell 717. No additional work requiring QA/QC services is required.

Sussex excavates and backfills area associated with removing conduit near toe of east slope.

FIELD DATA - None

LABORATORY DATA-None

INSPECTOR Thomas A Vrenick ENGINEER Charles R. Furlow

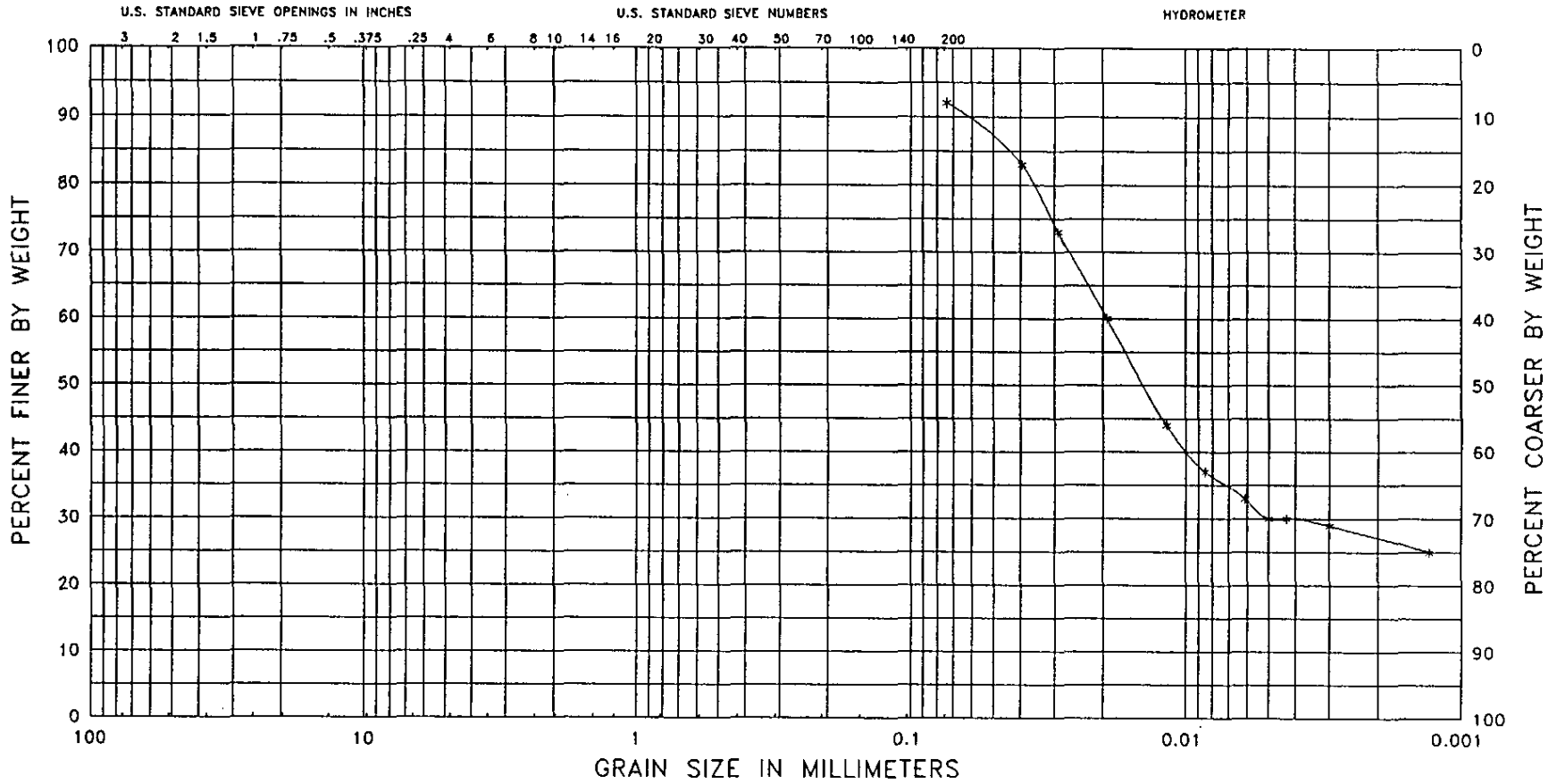
APPENDIX C

GRAIN SIZE CURVES

WARE LIND FURLOW ENGINEERS

PROJECT NO: 878052

GRAIN SIZE CURVES



GRAVEL	SAND			SILT or CLAY
	Coarse	Medium	Fine	

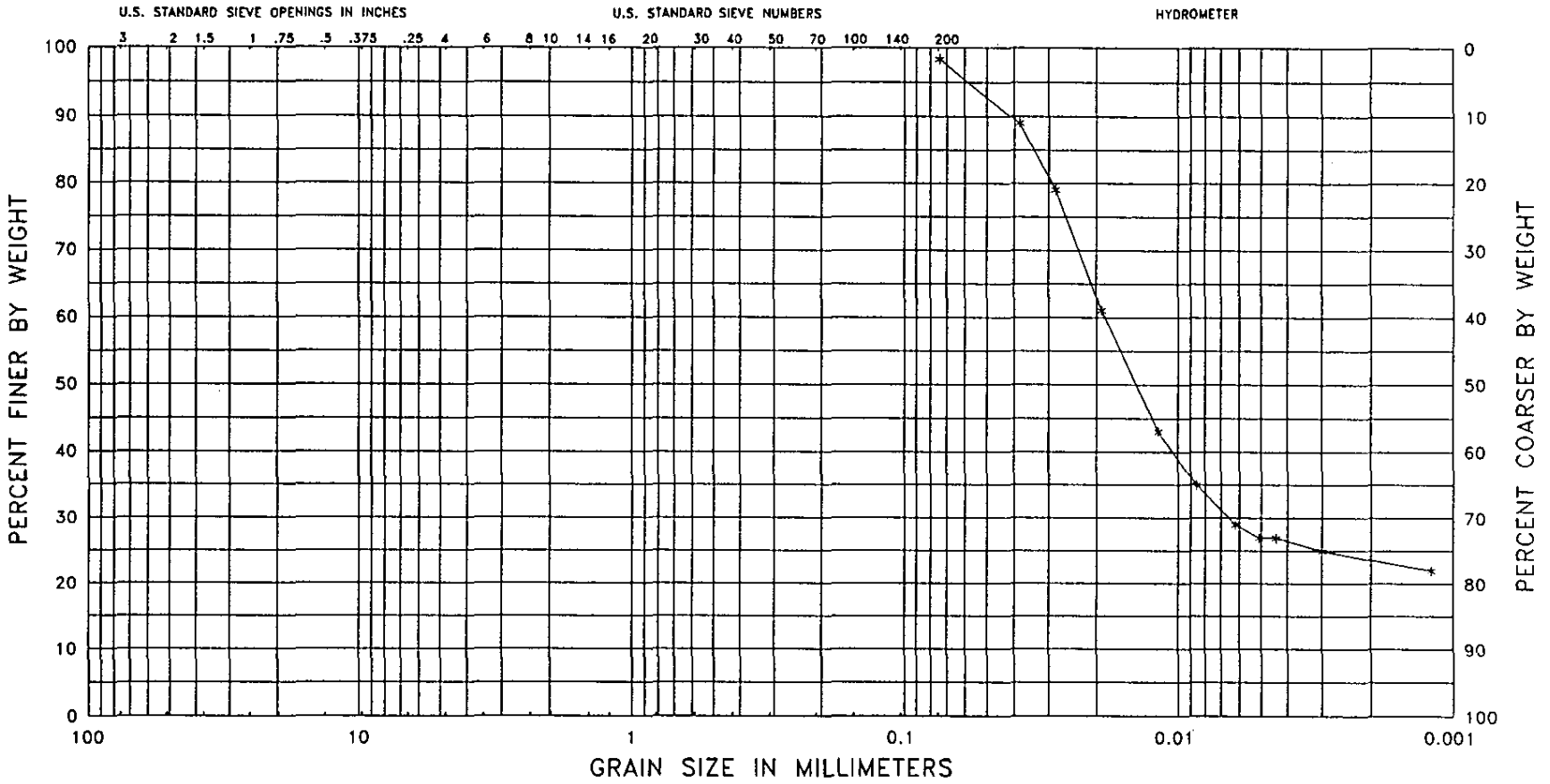
BORING NO.	DEPTH	DESCRIPTION
***** TP10-8-3	------	Tan & light gray silty clay

PLATE C-1

WARE LIND FURLOW ENGINEERS

PROJECT NO: 87B052

GRAIN SIZE CURVES



GRAVEL	SAND			SILT or CLAY
	Coarse	Medium	Fine	

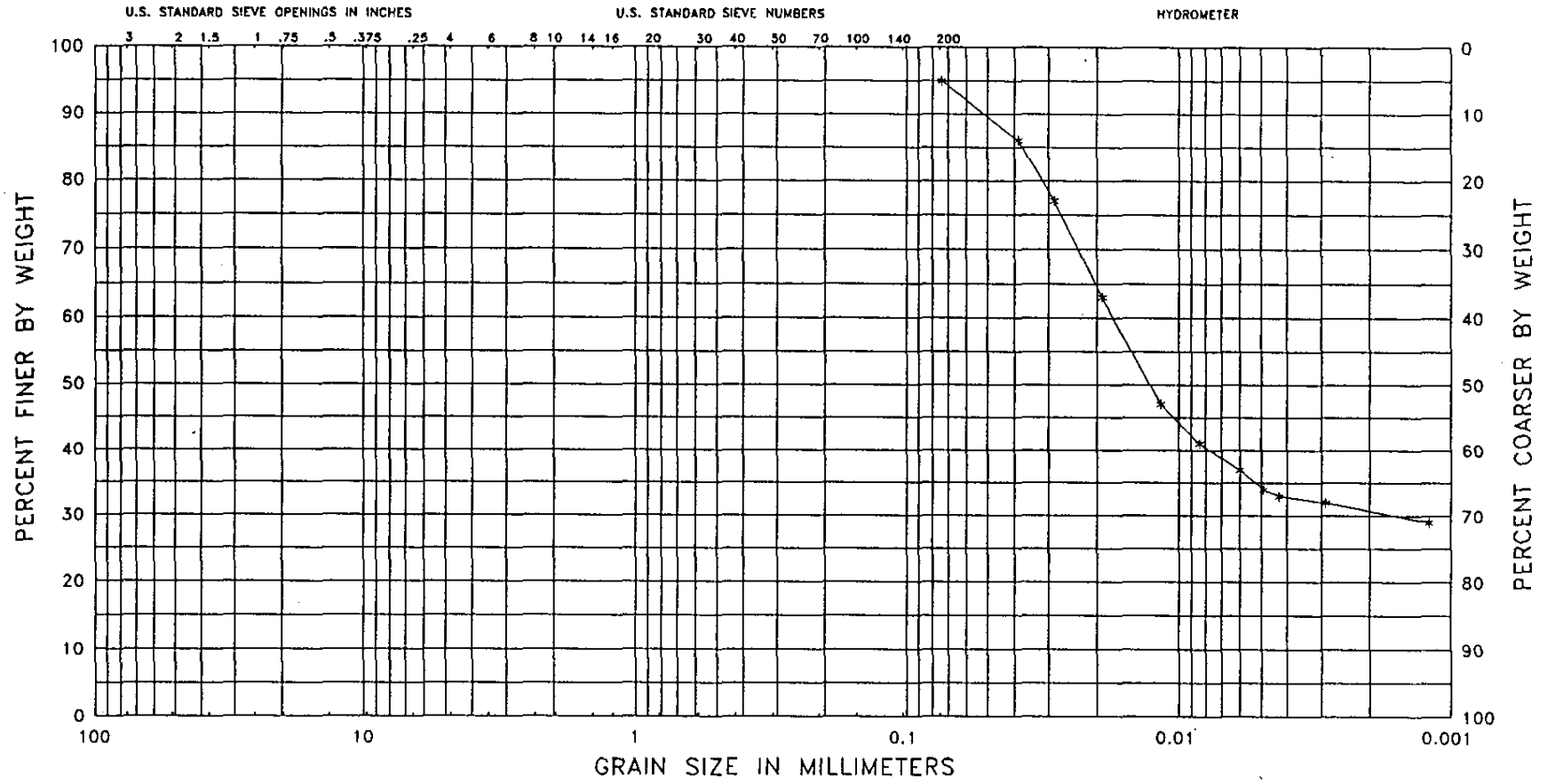
BORING NO.	DEPTH	DESCRIPTION
***** TP10-13-6	------	Tan & light gray silty clay

PLATE C-2

WARE LIND FURLOW ENGINEERS

PROJECT NO: 87B052

GRAIN SIZE CURVES



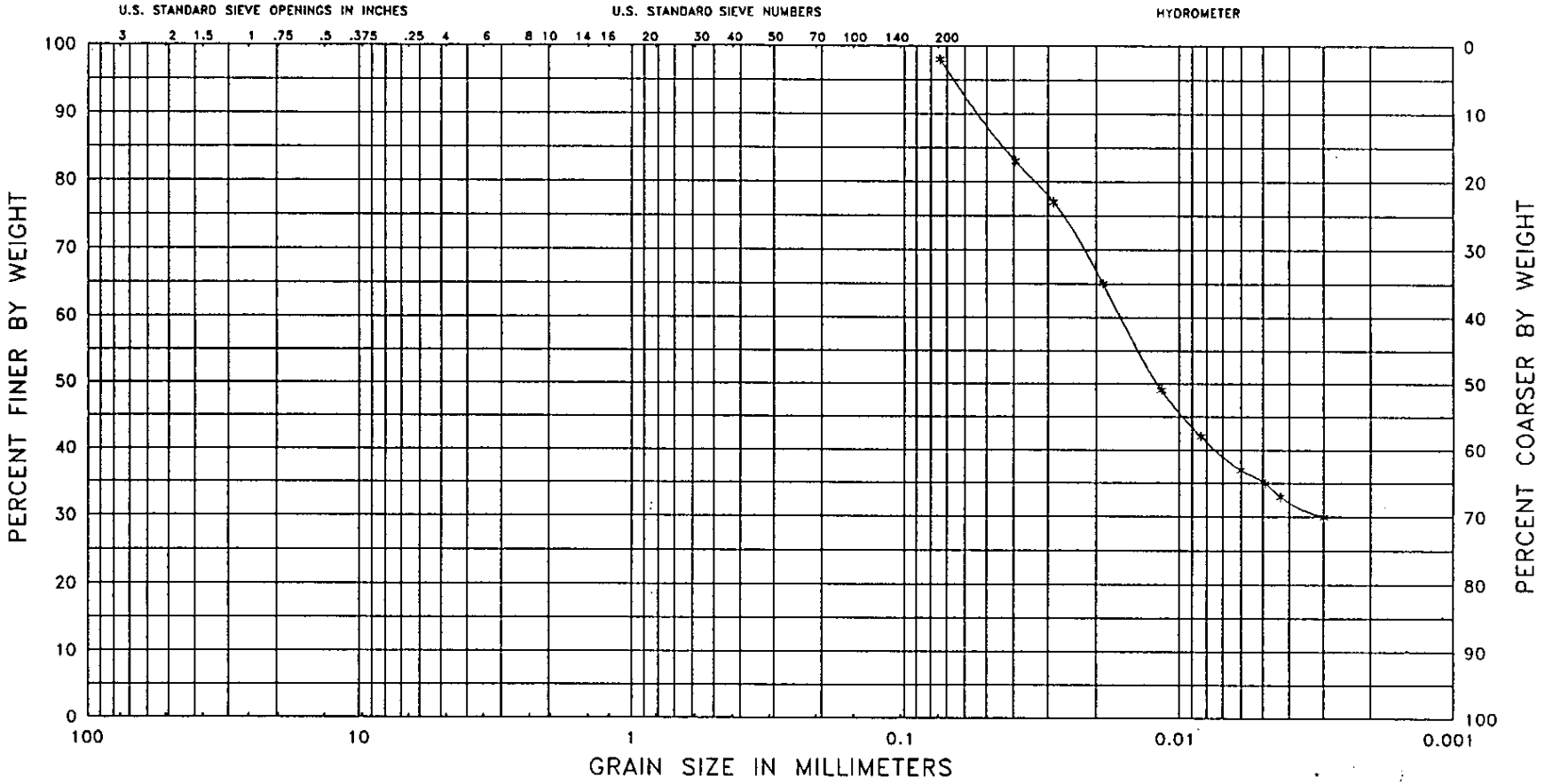
BORING NO.	DEPTH	DESCRIPTION
***** TP10-19-1	------	Tan & light gray silty clay

PLATE C-3

WARE LIND FURLOW ENGINEERS

PROJECT NO: 87B052

GRAIN SIZE CURVES



GRAVEL	SAND			SILT or CLAY
	Coarse	Medium	Fine	

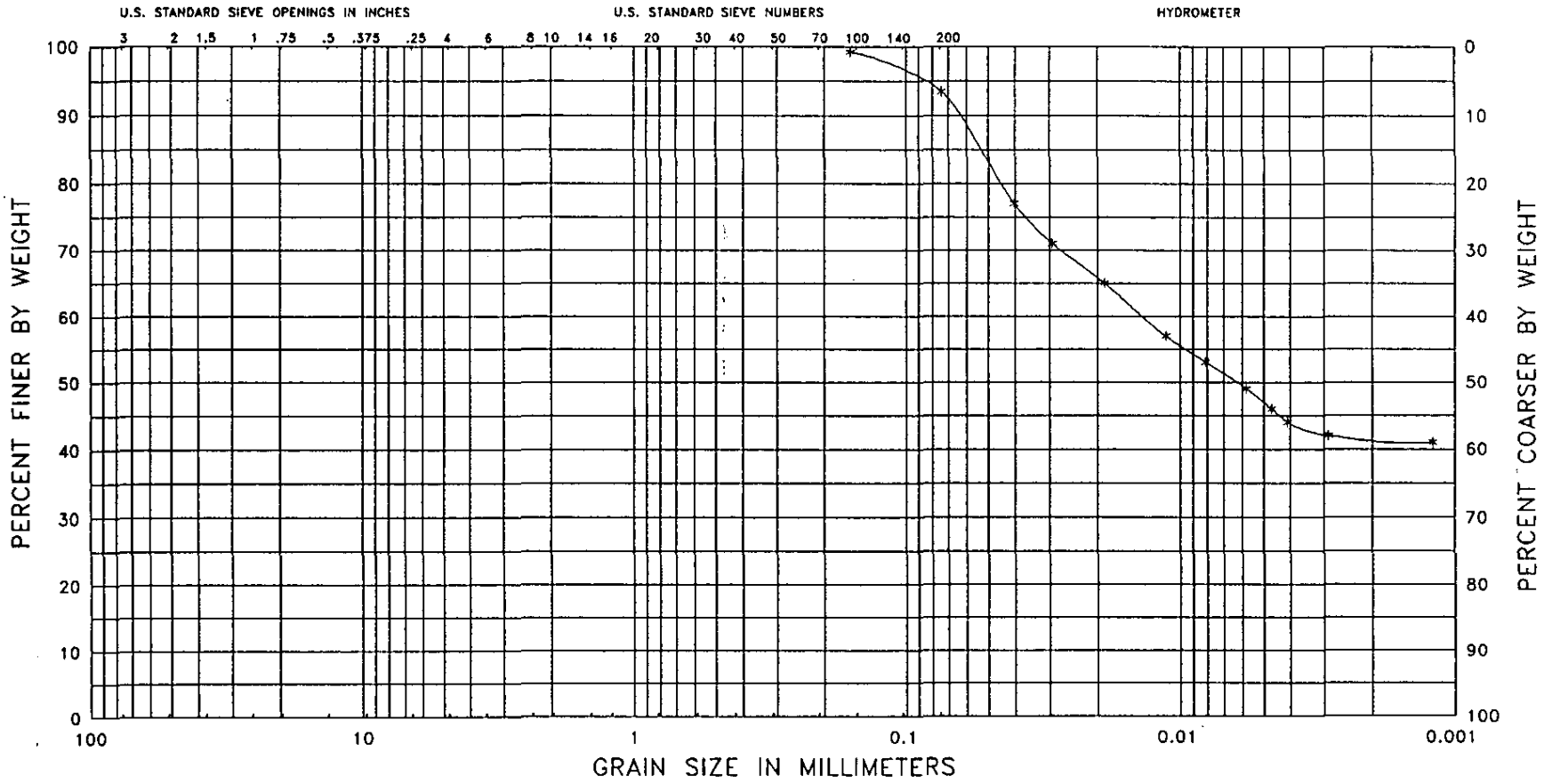
BORING NO.	DEPTH	DESCRIPTION
***** TP10-22-1	------	Tan & light gray silty clay

PLATE C-4

WARE LIND FURLOW ENGINEERS

PROJECT NO: 87B052

GRAIN SIZE CURVES



GRAVEL	SAND			SILT or CLAY
	Coarse	Medium	Fine	

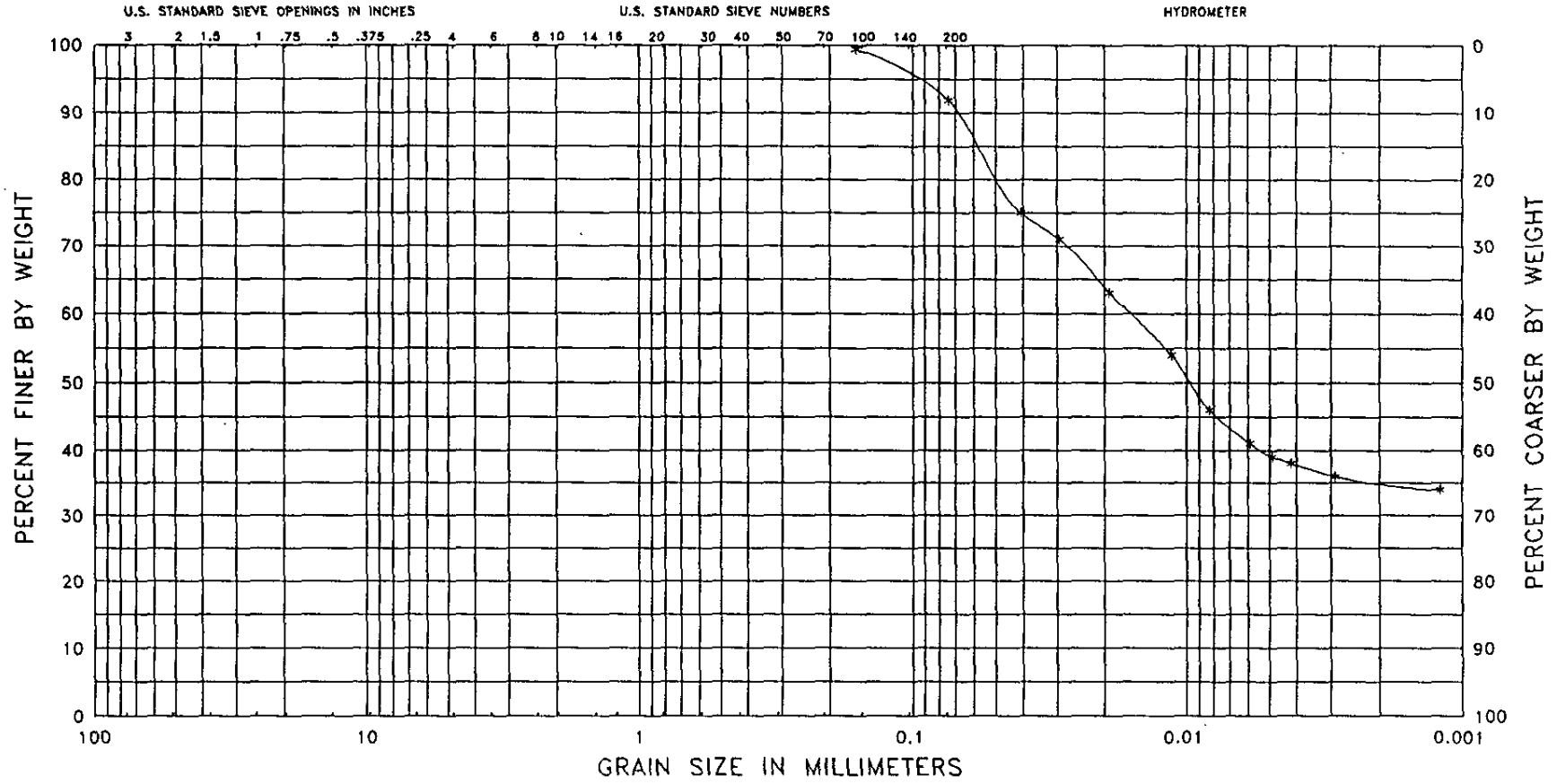
BORING NO.	DEPTH	DESCRIPTION
***** TP11-2-3	-------	Tan & light gray silty clay

PLATE C-5

WARE LIND FURLOW ENGINEERS

PROJECT NO: 878052

GRAIN SIZE CURVES



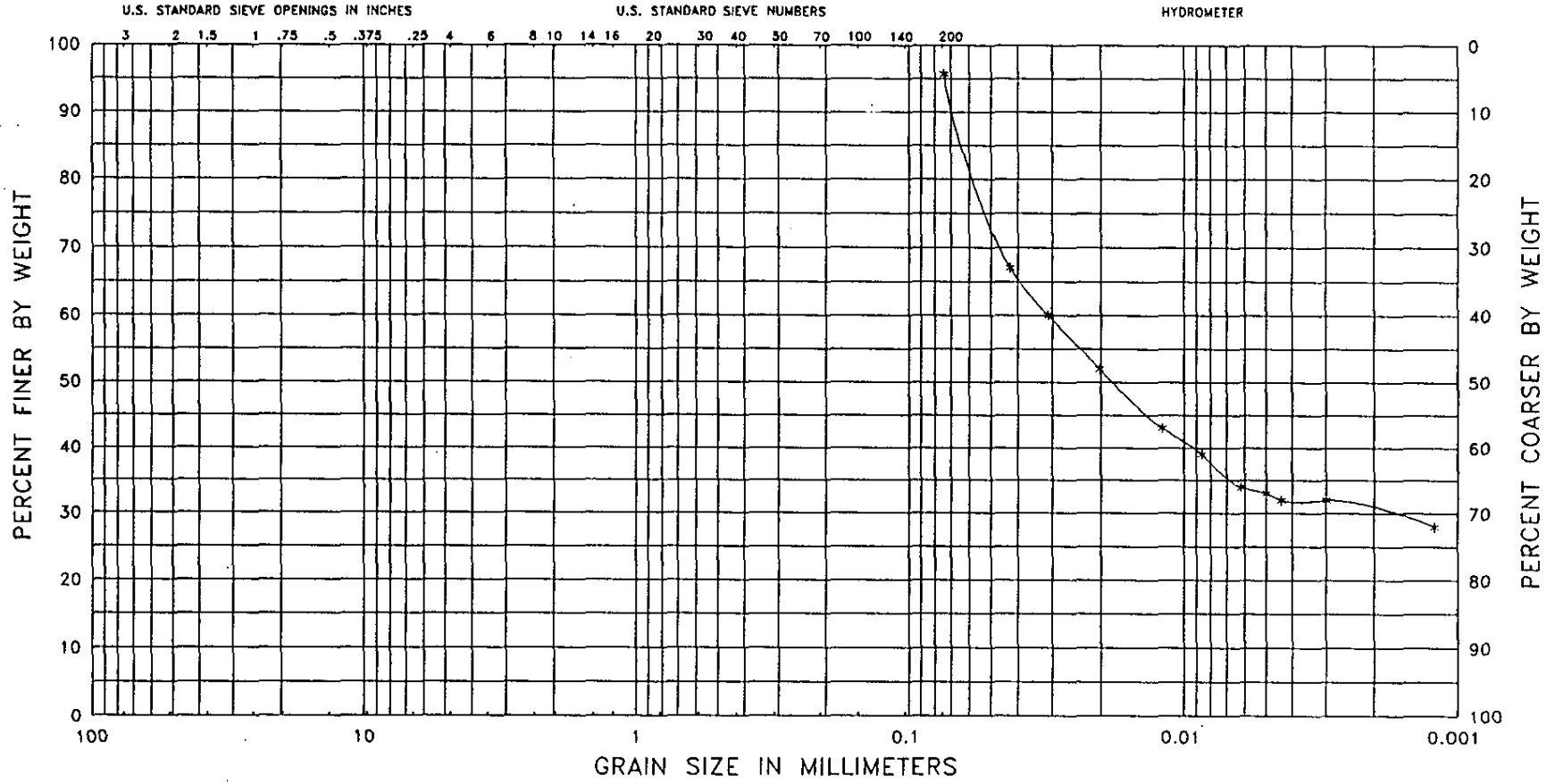
BORING NO.	DEPTH	DESCRIPTION
***** TP11-5-6	------	Tan & light gray silty clay

PLATE C-6

WARE LIND FURLOW ENGINEERS

PROJECT NO: 87B052

GRAIN SIZE CURVES



GRAVEL	SAND			SILT or CLAY
	Coarse	Medium	Fine	

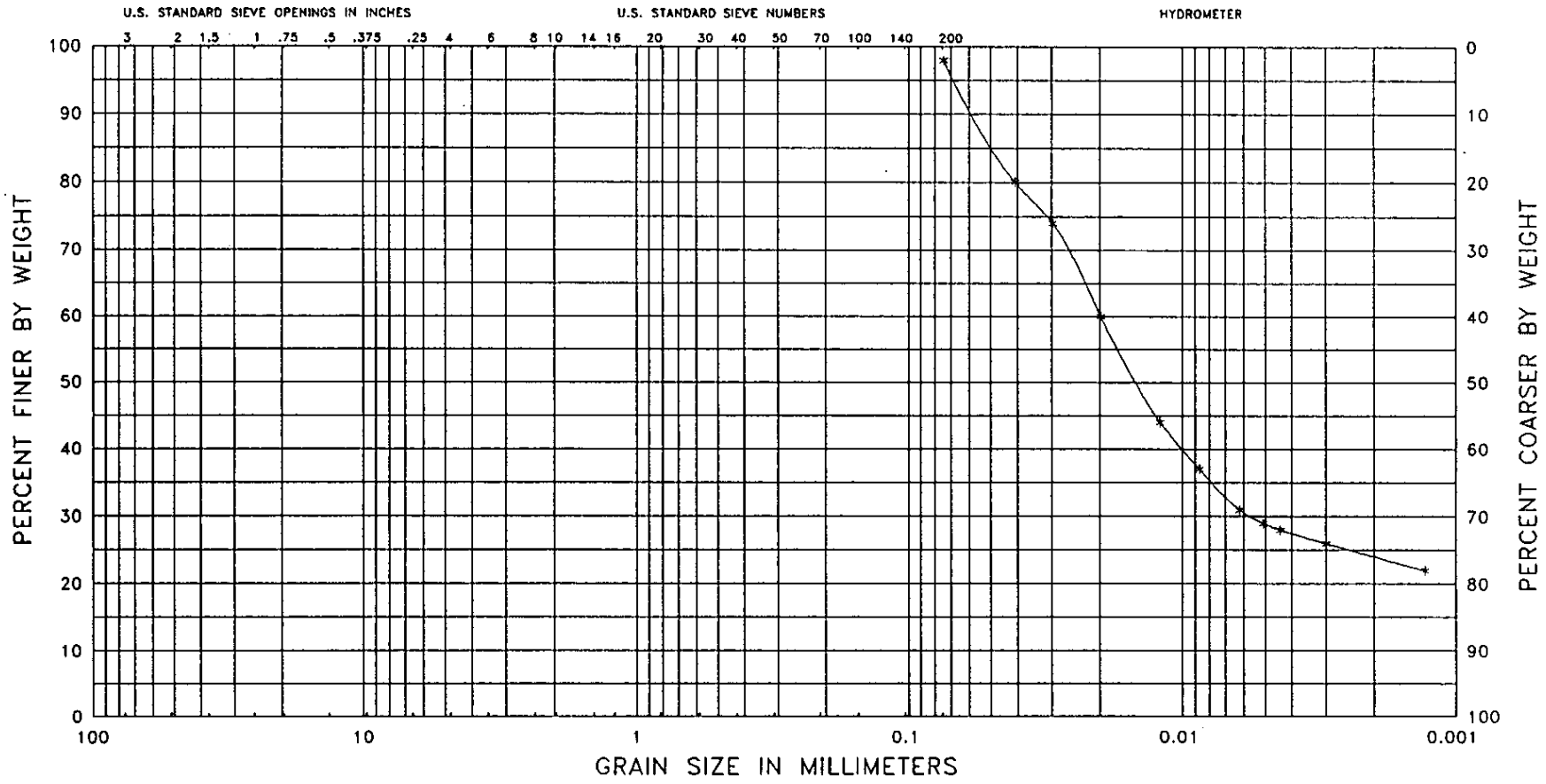
BORING NO.	DEPTH	DESCRIPTION
***** TP12-11-5	------	Tan & light gray silty clay

PLATE C-7

WARE LIND FURLOW ENGINEERS

PROJECT NO: 87B052

GRAIN SIZE CURVES



GRAVEL	SAND			SILT or CLAY
	Coarse	Medium	Fine	

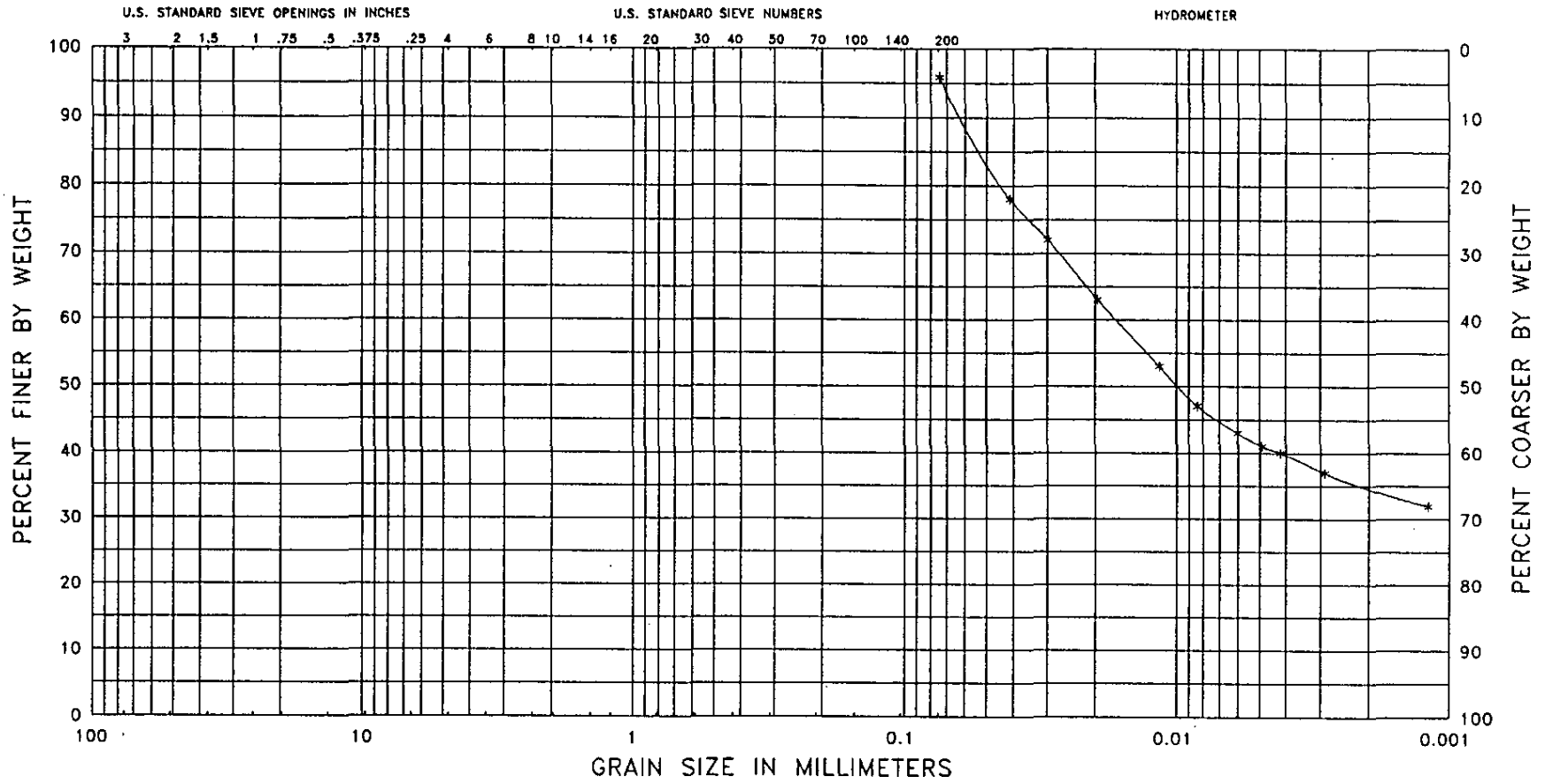
BORING NO.	DEPTH	DESCRIPTION
***** TP12-17-7	------	Tan & light gray silty clay

PLATE C-8

WARE LIND FURLOW ENGINEERS

PROJECT NO: 87B052

GRAIN SIZE CURVES



GRAVEL	SAND			SILT or CLAY
	Coarse	Medium	Fine	

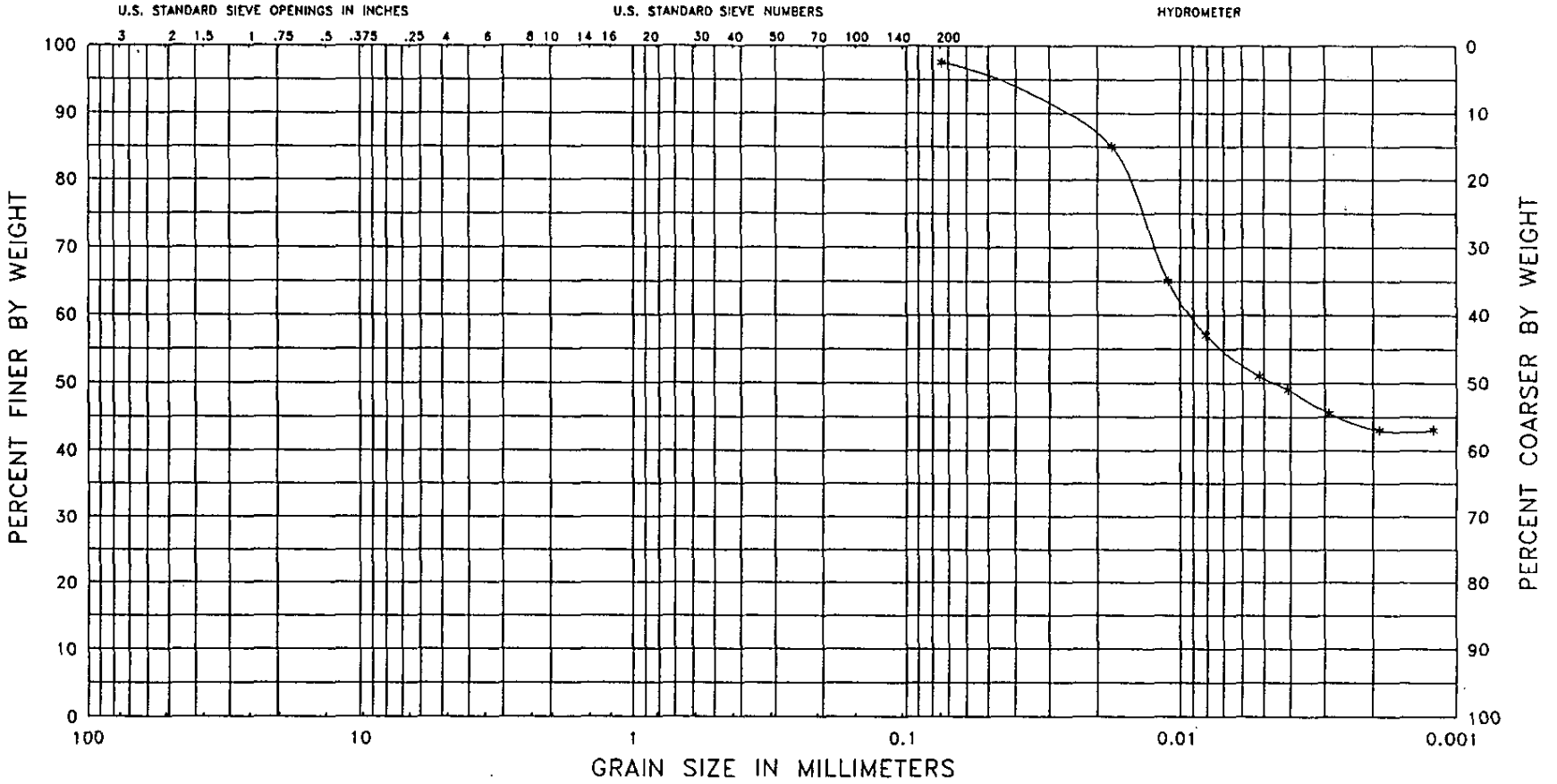
BORING NO.	DEPTH	DESCRIPTION
***** TP12-17-11	------	Tan & light gray silty clay

PLATE C-9

WARE LIND FURLOW ENGINEERS

PROJECT NO: 878052

GRAIN SIZE CURVES



GRAVEL	SAND			SILT or CLAY
	Coarse	Medium	Fine	

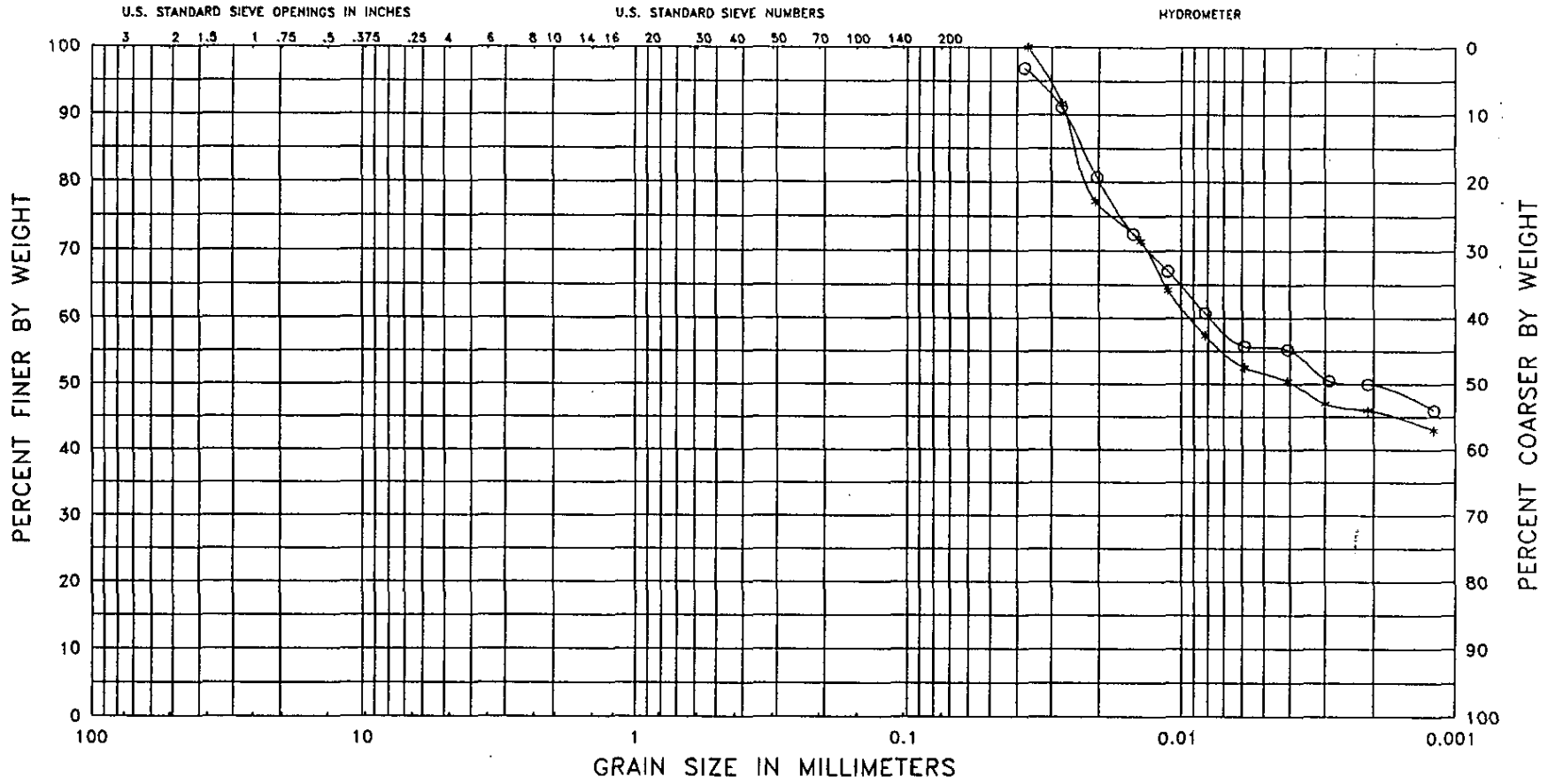
BORING NO.	DEPTH	DESCRIPTION
***** TP10-10-1	------	Tan & light gray silty clay

PLATE C-10

WARE LIND FURLOW ENGINEERS

PROJECT NO: 878052

GRAIN SIZE CURVES



GRAVEL	SAND			SILT or CLAY
	Coarse	Medium	Fine	

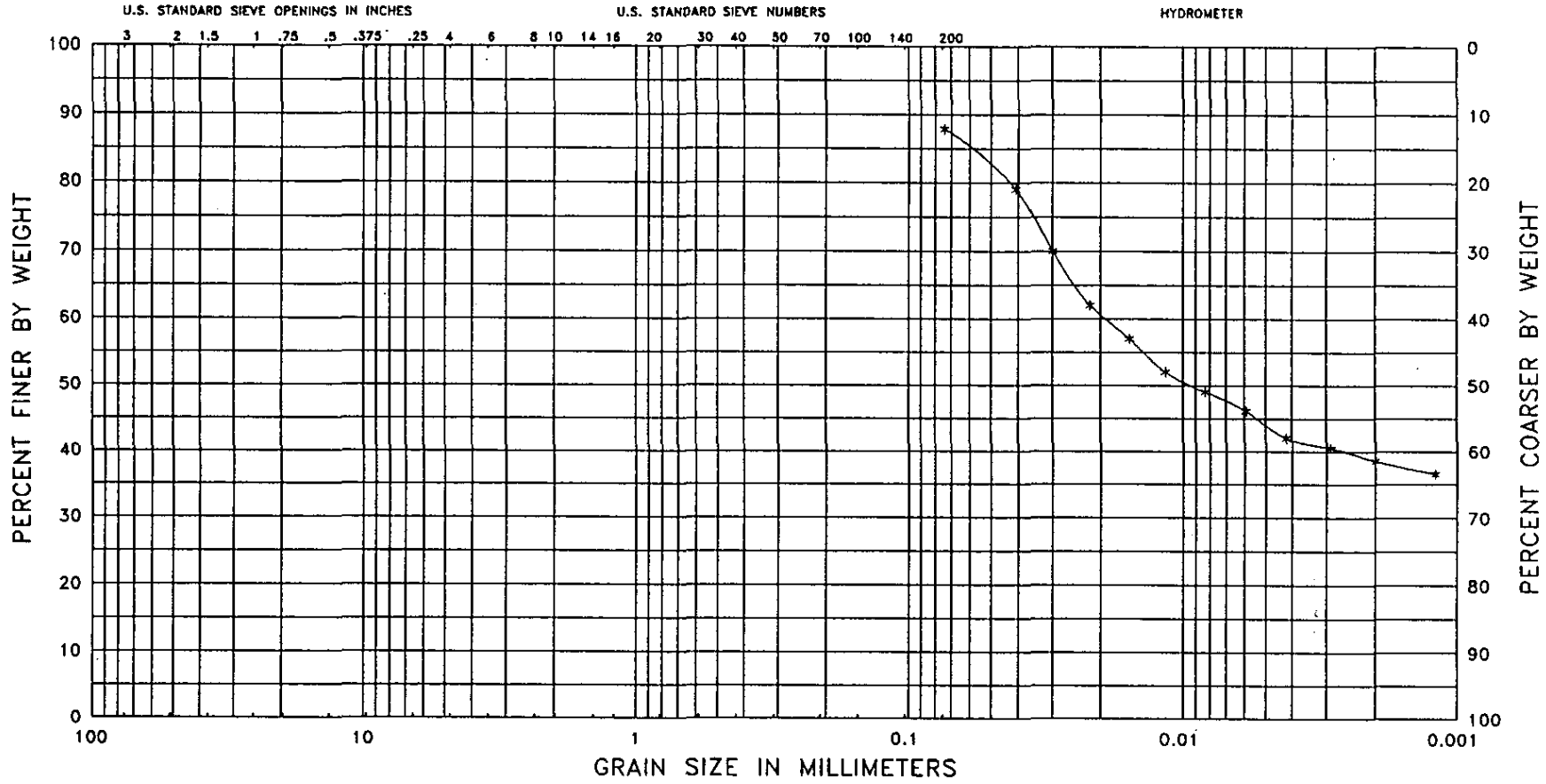
	BORING NO.	DEPTH	DESCRIPTION
*****	TP3-15-4	------	Tan slightly silty clay
ooooo	TP3-15-2	------	Tan slightly silty clay

PLATE C-11

WARE LIND FURLOW ENGINEERS

PROJECT NO: 87B052

GRAIN SIZE CURVES



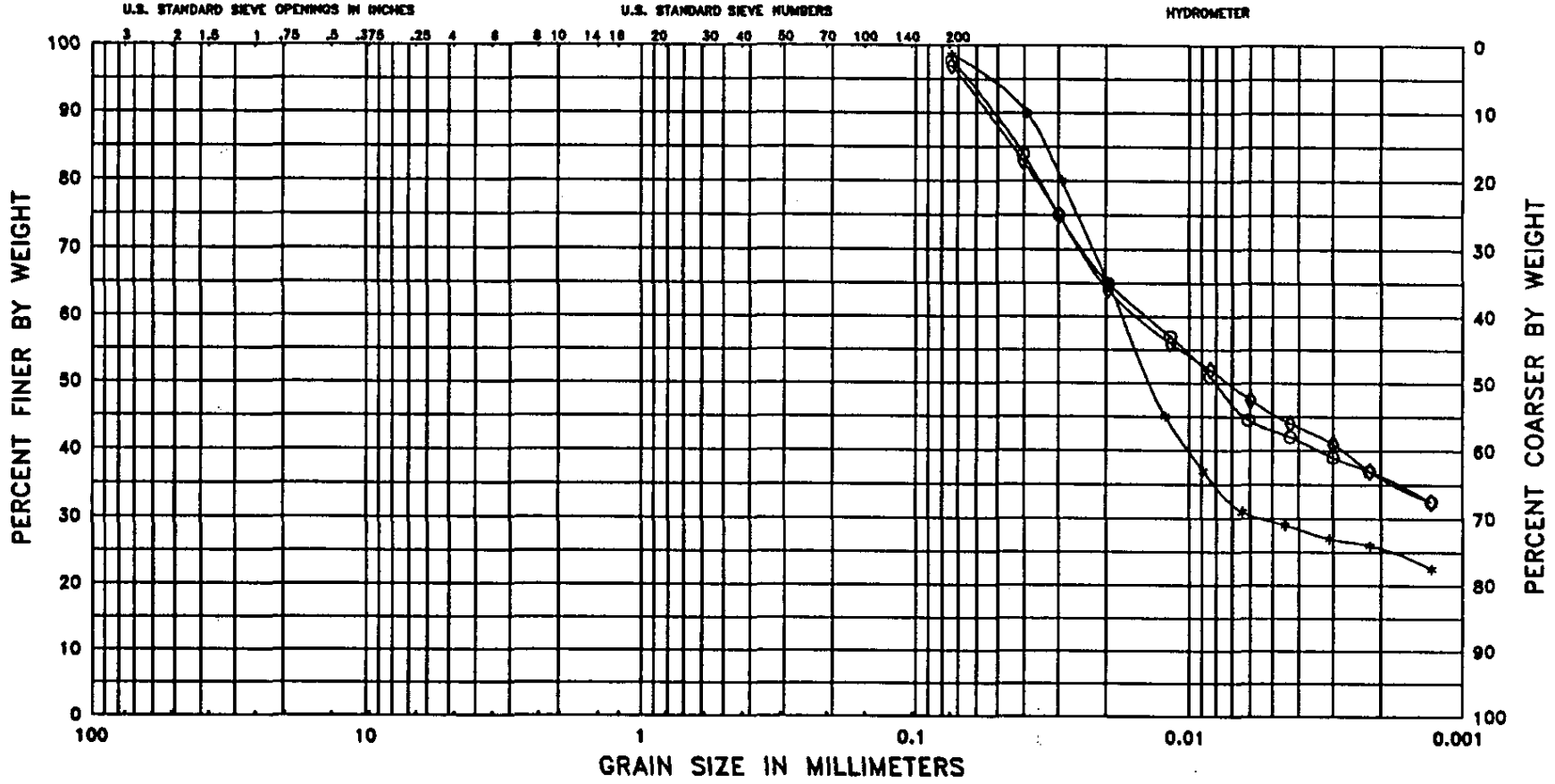
BORING NO.	DEPTH	DESCRIPTION
***** TP4-7-3	------	Stiff tan and light gray silty clay w/ iron nodules

PLATE C-12

PROJECT NO.: 878052

ENCOR

GRAIN SIZE CURVES



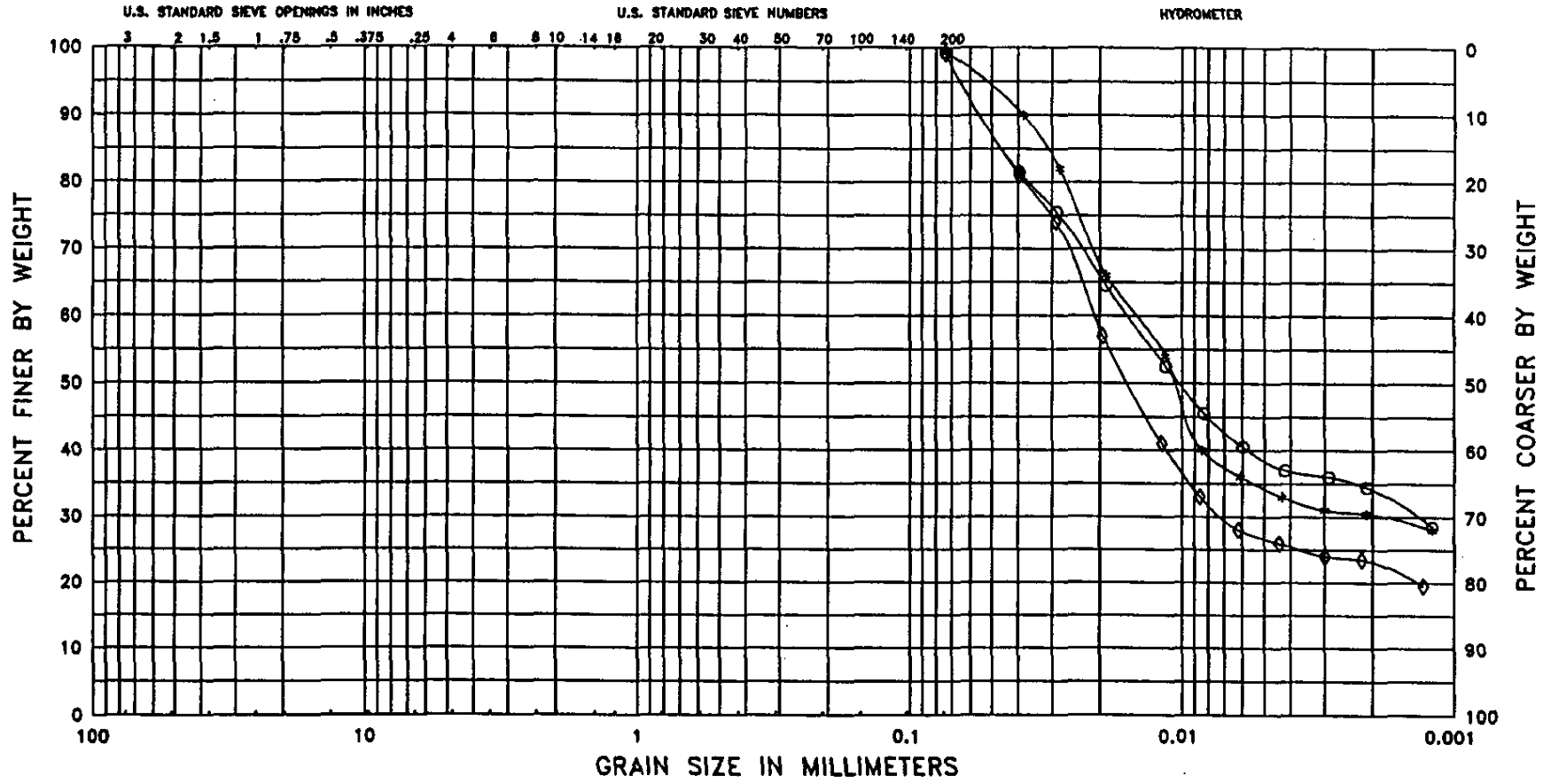
BORING NO.	DEPTH	CLASSIFICATION
★★★★★	2-23-2	GRAY AND TAN SLIGHTLY SILTY CLAY
○○○○○	3-10-1	GRAY AND TAN SLIGHTLY SILTY CLAY
◇◇◇◇◇	3-10-3	GRAY AND TAN SLIGHTLY SILTY CLAY

PLATE C-13

PROJECT NO.: 878052

ENCOR

GRAIN SIZE CURVES



GRAVEL	SAND			SILT or CLAY
	Coarse	Medium	Fine	

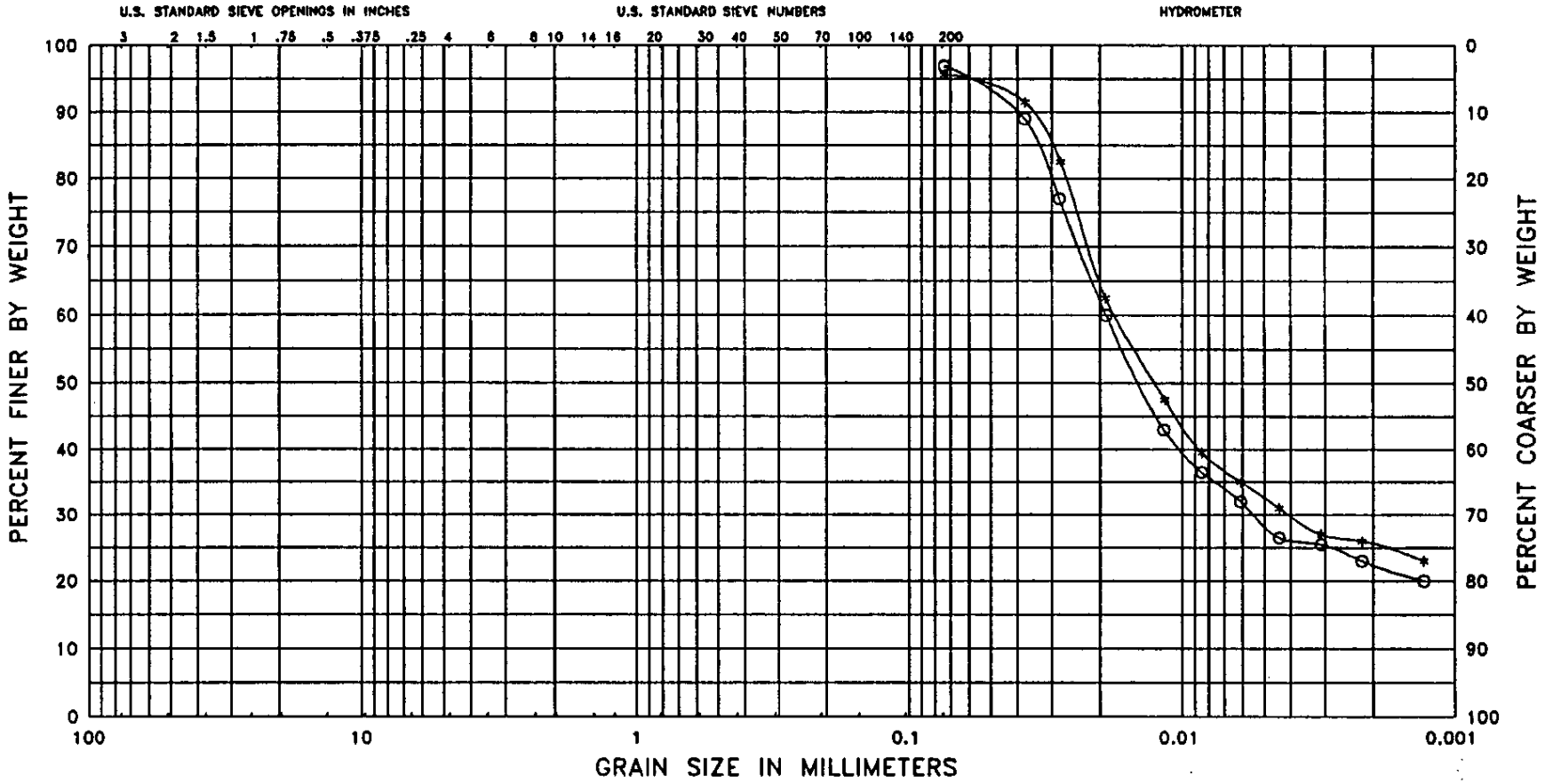
BORING NO.	DEPTH	CLASSIFICATION
*****	3-23-1	LT GRAY AND TAN SLIGHTLY SILTY CLAY
○○○○○	3-24-2	LT GRAY AND TAN SLIGHTLY SILTY CLAY
◇◇◇◇◇	3-29-1	LT GRAY AND TAN SLIGHTLY SILTY CLAY

PLATE C-14

PROJECT NO.: 878052

ENCOR

GRAIN SIZE CURVES



GRAVEL	SAND			SILT or CLAY
	Coarse	Medium	Fine	

BORING NO.	DEPTH	CLASSIFICATION
***** OLD-TS		BROWN SILTY CLAY
○○○○○ NEW-TS		TAN AND LIGHT GRAY SILTY CLAY

PLATE C-15

APPENDIX D

SUBCELL D BELOW-GRADE AREA

TABLE A-1
LABORATORY TEST RESULTS SUMMARY

BORING NO.	DEPTH (ft.)	USCS CLASS	WATER CONTENT (%)	DRY DENSITY (pcf)	COHESION (pcf)	ATTERBERG LIMITS LL	PL	PI	PARTICLE SIZE %Sa	%Si	%Cl	PERMEABILITY cm/sec
A-1	2 - 4	CL	19.8	99.9	2,921	34	21	13	-	-	-	-
	6 - 8	CL	22.8	96.1	-	47	16	31	-	-	-	-
	10 - 12	CL	21.9	105.0	-	43	16	27	-	-	-	2×10^{-8}
A-2	2 - 4	CL	16.5	108.2	-	33	17	16	-	-	-	-
	4 - 6	CL	19.7	97.9	1,387	-	-	-	-	-	-	-
	6 - 8	CL	21.3	103.1	-	37	20	17	-	-	-	1×10^{-8}
	10 - 12	CL	21.2	100.7	-	-	-	-	-	-	-	-
A-3	2 - 4	CL	21.1	95.7	1,045	-	-	-	-	-	-	-
	4 - 6	CL	20.4	93.3	-	49	17	32	-	-	-	-
	6 - 8	CL	20.2	101.5	-	-	-	-	-	-	-	-
	8 - 10	CL	18.6	110.2	-	39	16	23	-	-	-	3×10^{-9}
A-4	2 - 4	CH	22.7	96.1	964	56	17	39	-	-	-	-
	4 - 6	CL	20.6	101.7	-	-	-	-	-	-	-	7×10^{-9}
	6 - 8	CL	24.3	95.4	1,365	45	17	28	-	-	-	-
	8 - 10	CL	24.6	95.3	954	44	21	23	-	-	-	-
	10 - 12	CL	19.1	104.2	-	37	21	16	-	-	-	-
A-5	2 - 4	CL	23.3	97.1	924	37	20	17	-	-	-	-
	4 - 6	CL	24.2	96.5	1,045	46	17	29	-	-	-	-
	6 - 8	CL	23.7	99.9	1,261	48	20	28	-	-	-	2×10^{-9}

V-11-74

MAY 5 1988

LOG OF BORING NO. A-1
CELL 717D CLAY CAP

TYPE: 6" Machine Auger w/shelby tube sampling

LOCATION N 1510.1 E 538.6

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	UNIT DRY WEIGHT LB/CU FT	COHESION, KIPS/SQ FT (1 2 3 4) / PLASTIC LIMIT — WATER CONTENT, % — LIQUID LIMIT (20 40 60 80)	
			SURFACE EL. 80.2'			
			Very stiff to hard brown & tan silty clay w/ferrous nodules, silt streaks & pockets, roots (CL) -w/4" sand layers @ 2'	99.9		
5			Firm to stiff gray, tan & light gray silty clay w/clay pockets, silt pockets (CL)	96.1		C
10			Very stiff to hard tan, light gray & gray silty clay w/clay pockets, large silt pockets (CL)	105		(1)
			Black, brown & tan waste			
15			Borehole grouted upon completion			
20			C: Consolidation test performed (See Plate A-1)			
25			(1) Vert. Hyd. Cond. (K_v=2.0 x 10^{-8} cm/sec)			
30						
35						
40						
45						
50						

Rig: Failing 1500 By: T. Vrenick

Date: 2/9/88 Weather: Cloudy & Cool Completion Depth: 12'

LOG OF BORING NO A-2
CELL 717D CLAY CAP

TYPE: 6" Machine Auger w/shelby tube sampling

LOCATION N 1649.0 E 506.3

SURFACE EL. 79.6'

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	UNIT DRY WEIGHT LB/CU FT
0			Stiff tan & light gray silty clay w/silt streaks & pockets, ferrous nodules (CL)	
			-trace of fine sand, 2'-6'	108
5			-sand streaks & pockets, 6'-10'	97.9
				103 (1)
10			Tan & light gray silty fine sand w/solid waste pockets (SM)	100.7
			Brown & gray waste	
15			Borehole grouted upon completion	
			(1) Vert. Hyd. Cond. (K_v=1.0 x 10^{-8} cm/sec)	
20				
25				
30				
35				
40				
45				
50				

COHESION, KIPS/SQ FT: 1, 2, 3, 4

PLASTIC LIMIT — WATER CONTENT, % — LIQUID LIMIT

20 40 60 80

Rig: Failing 1500
Date: 2/9/87

By: T. Vrenick
Weather: Cloudy & Cool

Depth to water in Boring: 12'
Completion Depth: 14'

LOG OF BORING NO. A-3
CELL 717D CLAY CAP

TYPE: 6" Machine Auger w/shelby tube sampling

LOCATION: N 1606.1 E 640.1

SURFACE EL.: 81.7'

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	UNIT DRY WEIGHT LB/CU FT
0			Stiff brown & tan silty clay (CL) w/ferrous nodules	95.7
5			12" clay (CH) layer @ 5' w/silt & sand pockets below 5'	93.3
				101.5
				110 (1)
10			Black & gray waste	
15			Borehole grouted upon completion	
			(1) Vert. Hyd. Cond. (K_v=3.0 x 10^{-9} cm/sec)	
20				
25				
30				
35				
40				
45				
50				

COHESION, KIPS/SQ FT: 1, 2, 3, 4

PLASTIC LIMIT — WATER CONTENT, % — LIQUID LIMIT: 20, 40, 60, 80

Rig: Failing 1500
Date: 2/10/88
By: T. Vrenick
Weather: Partly Cloudy & Cool
Completion Depth: 12'

WARE LIND ENGINEERS

MAY 5 1988

LOG OF BORING NO. A-4
CELL 717D CLAY CAP

TYPE: 6" Machine Auger w/shelby tube sampling

LOCATION: N 1478.9 E 677.8

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	UNIT DRY WEIGHT LB/CU FT	COHESION, KIPS/SQ FT (1 2 3 4) / PLASTIC LIMIT — WATER CONTENT, % (20 40 60 80) — LIQUID LIMIT	PID READING (ppm)
			SURFACE EL. 80.4'			
			Firm to stiff brown, tan & gray silty clay w/ferrous nodules, silt streaks & pockets			
			-soft @ 2'			
			-firm gray & olive, 4'-6'	96.1		
5			-tan & light gray, 6'-7'	101.7	(1)	
				95.4		
			Firm gray & brown silty clay w/silt & sand pockets	95.3		C
10			Black & brown waste	104.2		
			Borehole grouted upon completion			
15						
20			C: Consolidation test performed (See Plate A-2)			
			(1) Vert. Hyd. Cond. (K_v=7.0 x 10^{-9} cm/sec)			
25						
30						
35						
40						
45						
50						

Rig: Failing 1500
Date: 2/10/88

By: T. Vrenick
Weather: Partly Cloudy & Cool

Completion Depth: 12'

LOG OF BORING NO. A-5
CELL 717D CLAY CAP

TYPE 6" Machime Auger w/shelby tube sampling

LOCATION N 1513.6 E 599.3

SURFACE EL. 79.9'

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION OF MATERIAL	UNIT DRY WEIGHT LB/CU FT
0			Firm to stiff tan & brown silty clay (CL) - w/silt pockets and sand traces	97.1
5				96.5
				99.9 (1)
10			Brown & gray waste	
15			Borehole grouted upon completion	
			(1) Vert. Hyd. Cond. (K_v=2.0 x 10^{-9} cm/sec)	
20				
25				
30				
35				
40				
45				
50				

COHESION, KIPS/SQ FT: 1, 2, 3, 4

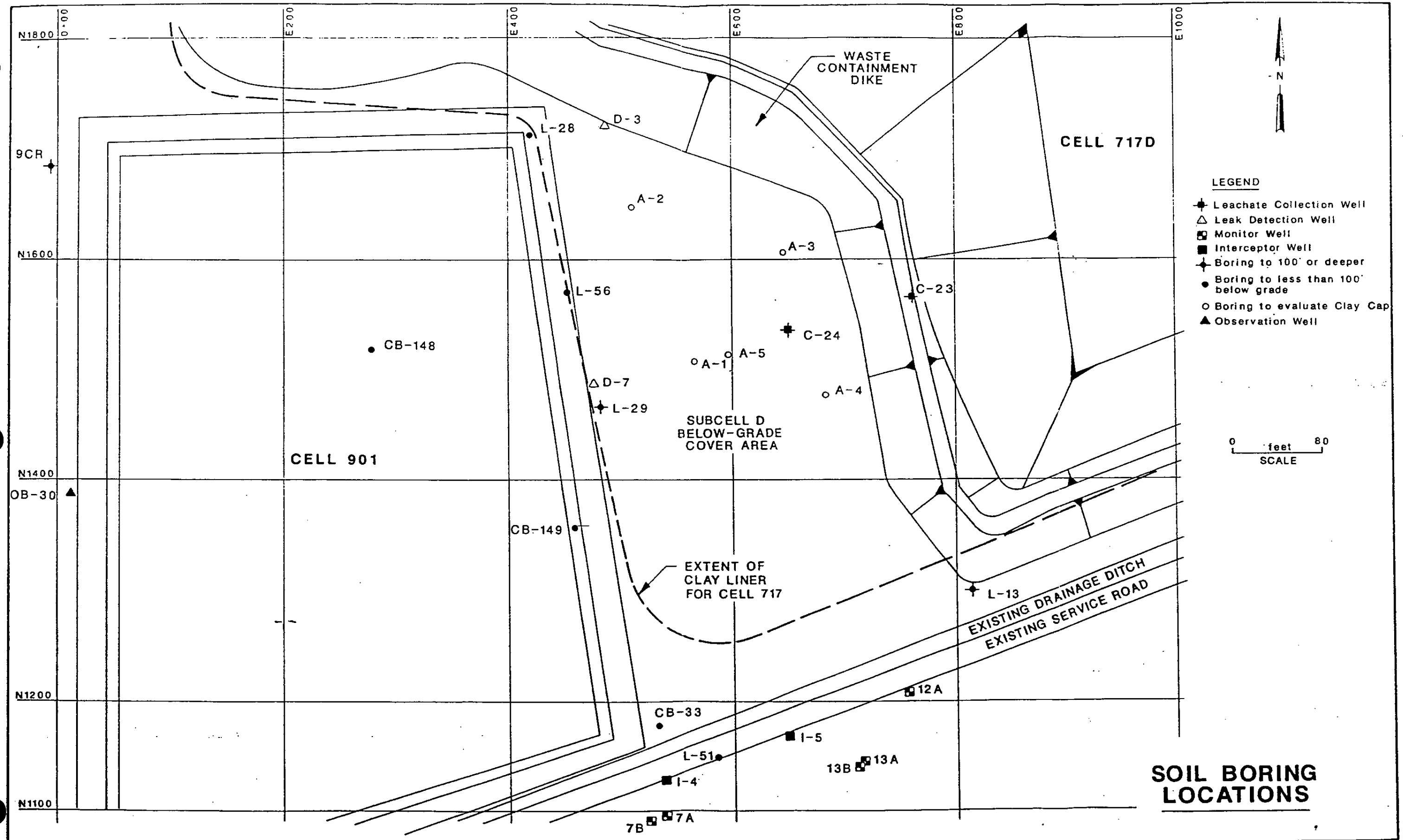
PLASTIC LIMIT — WATER CONTENT, % — LIQUID LIMIT: 20, 40, 60, 80

Rig: Failing 1500
Date: 2/19/88

By: T. Vrenick
Weather: Cloudy & Cool

Completion Depth: 12'

MAY 5 1988



SOIL BORING LOCATIONS

WARE LIND FURLOW
ENGINEERS

V-11-64 MAY 5 1988 PLATE 3

APPENDIX E

WELL CONSTRUCTION FORMS

LOG OF LEACHATE COLLECTION WELL LC-3A

Project Number: 87B052
Project Name: Cell 717 Clay Cap
Well Location: N:2141.2 E:1094.6

Rollins Environmental Services (LA) Inc.

Date Completed: 6/7/88
Drill Rig: Failing F-10
By: T. Vrenick

Depth (ft)	Elev.	FEATURE	GENERALIZED SOIL STRATIGRAPHY
2.25	122.15		DEPTH (ft)
0	119.9	Concrete Pad (5'x5'x4")	Ground Surface
		14.5" Diameter Borehole	See Soil Boring C-3A for detailed presentation of soil conditions
		6" Diameter Stainless Steel Riser (flush, thrdd joints)	Water level in well @ depth 49.7 on 7/11/88 @ 830 hours
		Cement/Bentonite Grout (1)	
9.9	110	Top of Filter Pack	
59.9	60	Top of Screen	
		Filter Pack (3)	
		6" Diameter Stainless Steel Wound Wellscreen (Slot Size: #10")	
79.4	40.5	Bottom of Screen	
80	40	Bottom of Sump	
		6" Diameter Stainless Steel Sump	

Bottom of Borehole 80 Ft.

Note: Drawing not to scale

(1) Grout Placement: Tremie
Grout Mixture: 1 bag cement, 10.0 gal. water, 4 lbs.bent.
Grout Weight: Input: N/A Output: N/A

(2) Bentonite Pellets: Size: N/A inch Volume: N/A gallons Hydration Time: N/A hrs.

(3) Sand Placement: Surface Introduction
Filter Pack Type: #3 Blasting Sand
Volume: 74 bags x0.91= 67.3 $ft.^3$

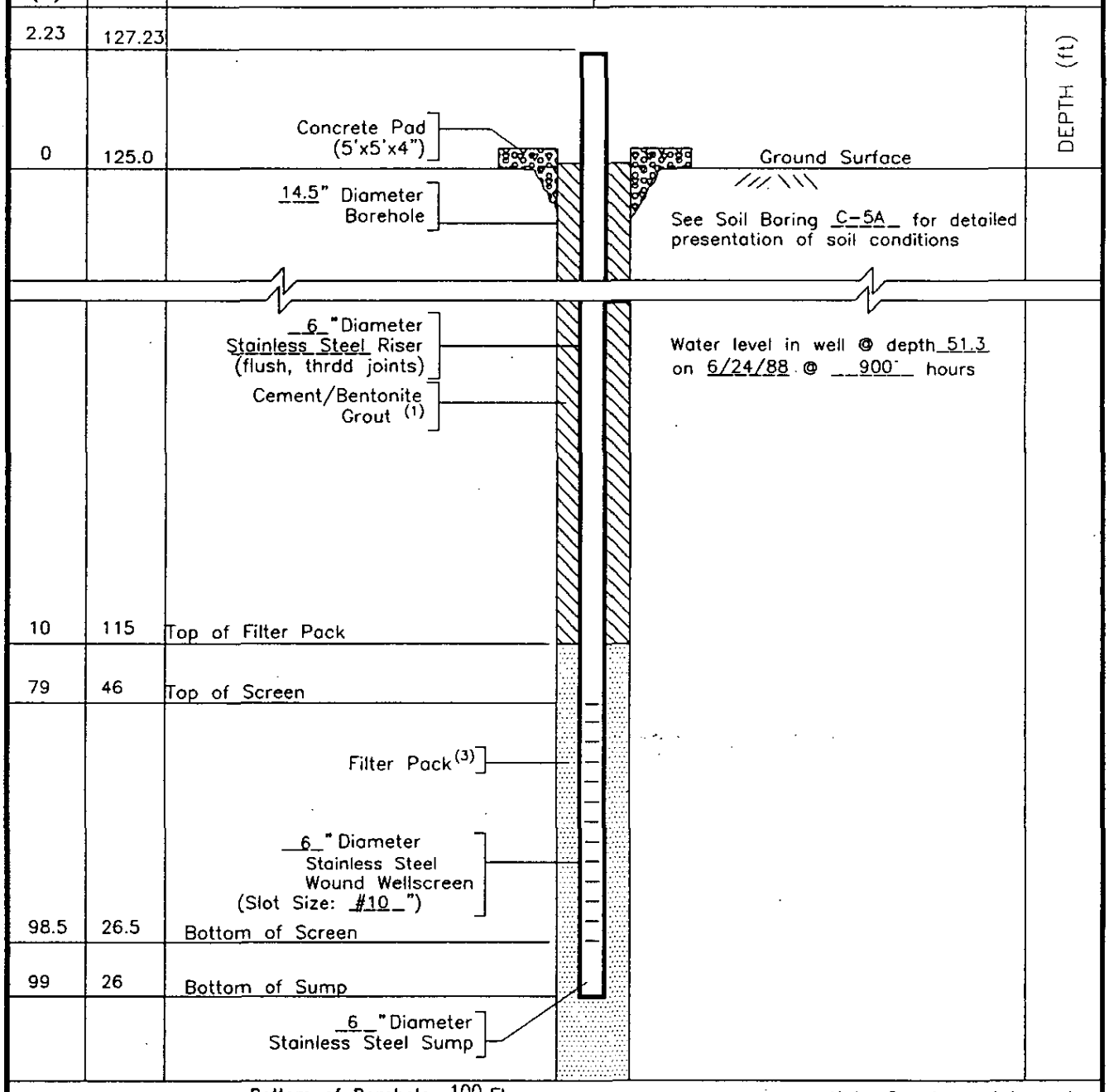
Miscellaneous Information
Exterior Casing: N/A
Centralizer Data: N/A
Developed By: K. Lowery Date: 7/11/88
Amount Drill Water Lost: N/A gallons
Method: Ejector Pump

LOG OF LEACHATE COLLECTION WELL LC-5A

Project Number: 87B052
Project Name: Cell 717 Clay Cap
Well Location: N: 2097.5 E:744.1

Rollins Environmental Services (LA) Inc.

Date Completed: 6/2/88
Drill Rig: Failing F-10
By: T. Vrenick



Bottom of Borehole 100 Ft.

Note: Drawing not to scale

(1) Grout Placement: Tremie
Grout Mixture: 1 bag cement, 10.0 gal. water, 4 lbs.bent.
Grout Weight: Input: N/A Output: N/A

(2) Bentonite Pellets: Size: N/A inch Volume: N/A gallons Hydration Time: N/A hrs.

(3) Sand Placement: Surface Introduction
Filter Pack Type: #3 Blasting Sand
Volume: 76 bags x0.91= 69.3 ft.^{3}

Miscellaneous Information
Exterior Casing: N/A
Centralizer Data: N/A
Developed By: T. VRENICK Date: 6/24/88
Amount Drill Water Lost: N/A gallons
Method: Ejector Pump

LOG OF LEACHATE COLLECTION WELL LC-6A

Project Number: 87B052
Project Name: Cell 717 Clay Cap
Well Location: N:2093.4 E:655.4

Rollins Environmental Services (LA) Inc.

Date Completed: 5/27/88
Drill Rig: Failing F-10
By: T. Vrenick

Depth (ft)	Elev.	FEATURE	GENERALIZED SOIL STRATIGRAPHY
2.08	127.88		DEPTH (ft)
0	125.8	Concrete Pad (5'x5'x4")	Ground Surface
		14.5" Diameter Borehole	See Soil Boring C-6A for detailed presentation of soil conditions
		6" Diameter Stainless Steel Riser (flush, thrdd joints)	Water level in well @ depth 55.8 on 6/22/88 @ 900 hours
		Cement/Bentonite Grout (1)	
9.8	116	Top of Filter Pack	
75.8	50	Top of Screen	
		Filter Pack (3)	
		6" Diameter Stainless Steel Wound Wellscreen (Slot Size: #10")	
95.3	30.5	Bottom of Screen	
95.8	30	Bottom of Sump	
		6" Diameter Stainless Steel Sump	

Bottom of Borehole 96 Ft.

Note: Drawing not to scale

(1) Grout Placement: Tremie
Grout Mixture: 1 bag cement, 10.0 gal. water, 4 lbs.bent.
Grout Weight: Input: N/A Output: N/A

(2) Bentonite Pellets: Size: N/A inch Volume: N/A gallons Hydration Time: N/A hrs.

(3) Sand Placement: Surface Introduction
Filter Pack Type: #3 Blasting Sand
Volume: 89 bags x0.91= 81.0 ft.^{3}

Miscellaneous Information
Exterior Casing: N/A
Centralizer Data: N/A
Developed By: T. VRENICK Date: 6/22/95
Amount Drill Water Lost: N/A gallons
Method: Ejector Pump

LOG OF LEACHATE COLLECTION WELL LC-12A

Project Number: 87B052
Project Name: Cell 717 Clay Cap
Well Location: N:1874.9 E:730.5

Rollins Environmental Services (LA) Inc.

Date Completed: 6/9/88
Drill Rig: Failing F-10
By: T. Vrenick

Depth (ft)	Elev.	FEATURE	GENERALIZED SOIL STRATIGRAPHY
2.24	124.64		DEPTH (ft)
0	122.4	Concrete Pad (5'x5'x4")	Ground Surface
		14.5" Diameter Borehole	See Soil Boring C-12A for detailed presentation of soil conditions
		6" Diameter Stainless Steel Riser (flush, thrdd joints)	Water level in well @ depth 60.6 on 6/28/88 @ 900 hours
		Cement/Bentonite Grout (1)	
10.4	112	Top of Filter Pack	
78.4	44	Top of Screen	
		Filter Pack (3)	
		6" Diameter Stainless Steel Wound Wellscreen (Slot Size: #10")	
97.9	24.5	Bottom of Screen	
98.4	24	Bottom of Sump	
		6" Diameter Stainless Steel Sump	

Bottom of Borehole 99 Ft.

Note: Drawing not to scale

(1) Grout Placement: Tremie
Grout Mixture: 1 bag cement, 10.0 gal. water, 4 lbs.bent.
Grout Weight: Input: N/A Output: N/A

(2) Bentonite Pellets: Size: N/A inch Volume: N/A gallons Hydration Time: N/A hrs.

(3) Sand Placement: Surface Introduction
Filter Pack Type: #3 Blasting Sand
Volume: 84 bags x0.91= 76.4 ft.

Miscellaneous Information
Exterior Casing: N/A
Centralizer Data: N/A
Developed By: T. VRENICK Date: 6/28/88
Amount Drill Water Lost: N/A gallons
Method: Ejector Pump

LOG OF LEACHATE COLLECTION WELL LC-13A

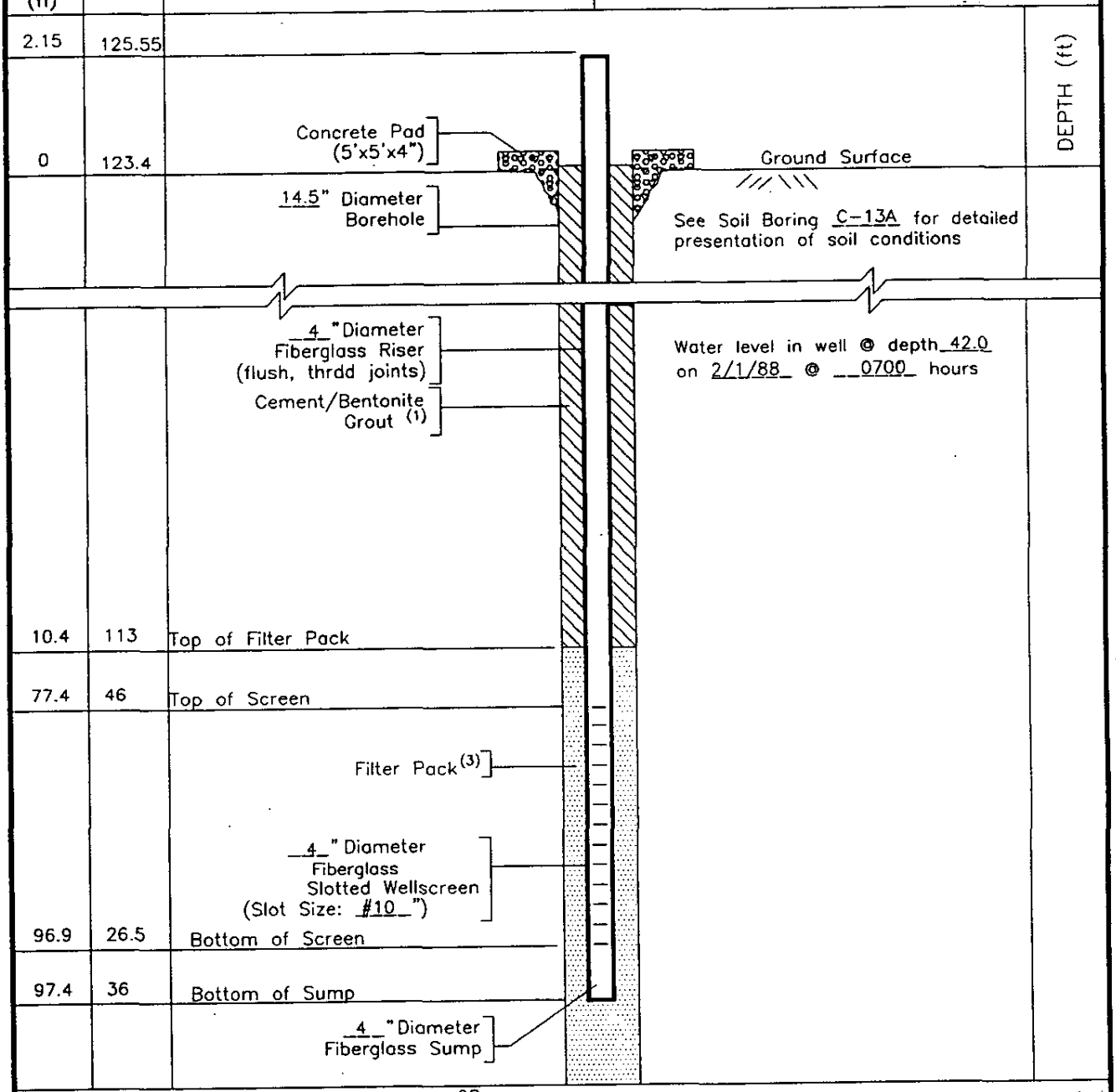
Project Number: 87B052
Project Name: Cell 717 Clay Cap
Well Location: N:1883.4 E:779.2

Rollins Environmental Services (LA) Inc.

Date Completed: 6/15/88
Drill Rig: Failing F-10
By: T. Vrenick

Depth (ft)	Elev.	FEATURE
2.15	125.55	
0	123.4	Concrete Pad (5'x5'x4")
		14.5" Diameter Borehole
		4" Diameter Fiberglass Riser (flush, thrdd joints)
		Cement/Bentonite Grout (1)
10.4	113	Top of Filter Pack
77.4	46	Top of Screen
		Filter Pack (3)
		4" Diameter Fiberglass Slotted Wellscreen (Slot Size: #10")
96.9	26.5	Bottom of Screen
97.4	36	Bottom of Sump
		4" Diameter Fiberglass Sump

GENERALIZED SOIL STRATIGRAPHY



Bottom of Borehole 98 Ft.

Note: Drawing not to scale

(1) Grout Placement: Tremie
Grout Mixture: 1 bag cement, 10.0 gal. water, 4 lbs.bent.
Grout Weight: Input: N/A Output: N/A

(2) Bentonite Pellets: Size: N/A inch Volume: N/A gallons Hydration Time: N/A hrs.

(3) Sand Placement: Surface Introduction
Filter Pack Type: #3 Blasting Sand
Volume: 90 bags x0.91= 81.9 $ft.^3$

Miscellaneous Information
Exterior Casing: N/A
Centralizer Data: N/A
Developed By: R. ROGER Date: 6/30/88
Amount Drill Water Lost: N/A gallons
Method: Ejector Pump

LOG OF LEACHATE COLLECTION WELL LC-15A

Project Number: 87B052
Project Name: Cell 717 Clay Cap
Well Location: N:1900.0 E:857.8

Rollins Environmental Services (LA) Inc.

Date Completed: 6/17/88
Drill Rig: Failing F-10
By: T. Vrenick

Depth (ft)	Elev.	FEATURE	GENERALIZED SOIL STRATIGRAPHY
2.08	124.38		
0	122.3	Concrete Pad (5'x5'x4")	Ground Surface
		14.5" Diameter Borehole	See Soil Boring C-15A for detailed presentation of soil conditions
		6" Diameter Stainless Steel Riser (flush, thrdd joints)	Water level in well @ depth 39.7 on 7/5/88 @ 1530 hours
		Cement/Bentonite Grout (1)	
11.3	111	Top of Filter Pack	
81.3	41	Top of Screen	
		Filter Pack (3)	
		6" Diameter Stainless Steel Wound Wellscreen (Slot Size: #10")	
100.8	21.5	Bottom of Screen	
101.3	21	Bottom of Sump	
		6" Diameter Stainless Steel Sump	

DEPTH (ft)

Bottom of Borehole 102 Ft.

Note: Drawing not to scale

(1) Grout Placement: Tremie
Grout Mixture: 1 bag cement, 10.0 gal. water, 4 lbs.bent.
Grout Weight: Input: N/A Output: N/A

(2) Bentonite Pellets: Size: N/A inch Volume: N/A gallons Hydration Time: N/A hrs.

(3) Sand Placement: Surface Introduction
Filter Pack Type: #3 Blasting Sand
Volume: 82 bags x0.91= 74.6 ft.^{3}

Miscellaneous Information
Exterior Casing: N/A
Centralizer Data: N/A
Developed By: R. ROGER Date: 7/5/88
Amount Drill Water Lost: N/A gallons
Method: Ejector Pump

LOG OF LEACHATE COLLECTION WELL LC-19A

Project Number: 87B052
Project Name: Cell 717 Clay Cap
Well Location: N:1958.0 E1086.7

Rollins Environmental Services (LA) Inc.

Date Completed: 6/13/88
Drill Rig: Failing F-10
By: T. Vrenick

Depth (ft)	Elev.	FEATURE	GENERALIZED SOIL STRATIGRAPHY
2.12	121.92		DEPTH (ft)
0	119.8	Concrete Pad (5'x5'x4")	Ground Surface
		14.5" Diameter Borehole	See Soil Boring C-19A for detailed presentation of soil conditions
		4" Diameter Fiberglass Riser (flush, thrdd joints)	Water level in well @ depth 40.5 on 7/7/88 @ 1330 hours
		Cement/Bentonite Grout (1)	
10.8	109	Top of Filter Pack	
46.8	73	Top of Screen	
		Filter Pack (3)	
		4" Diameter Fiberglass Slotted Wellscreen (Slot Size: #10")	
66.3	53.5	Bottom of Screen	
66.8	53	Bottom of Sump	
		4" Diameter Fiberglass Sump	

Bottom of Borehole 68 Ft.

Note: Drawing not to scale

(1) Grout Placement: Tremie
Grout Mixture: 1 bag cement, 10.0 gal. water, 4 lbs.bent.
Grout Weight: Input: N/A Output: N/A

(2) Bentonite Pellets: Size: N/A inch Volume: N/A gallons Hydration Time: N/A hrs.

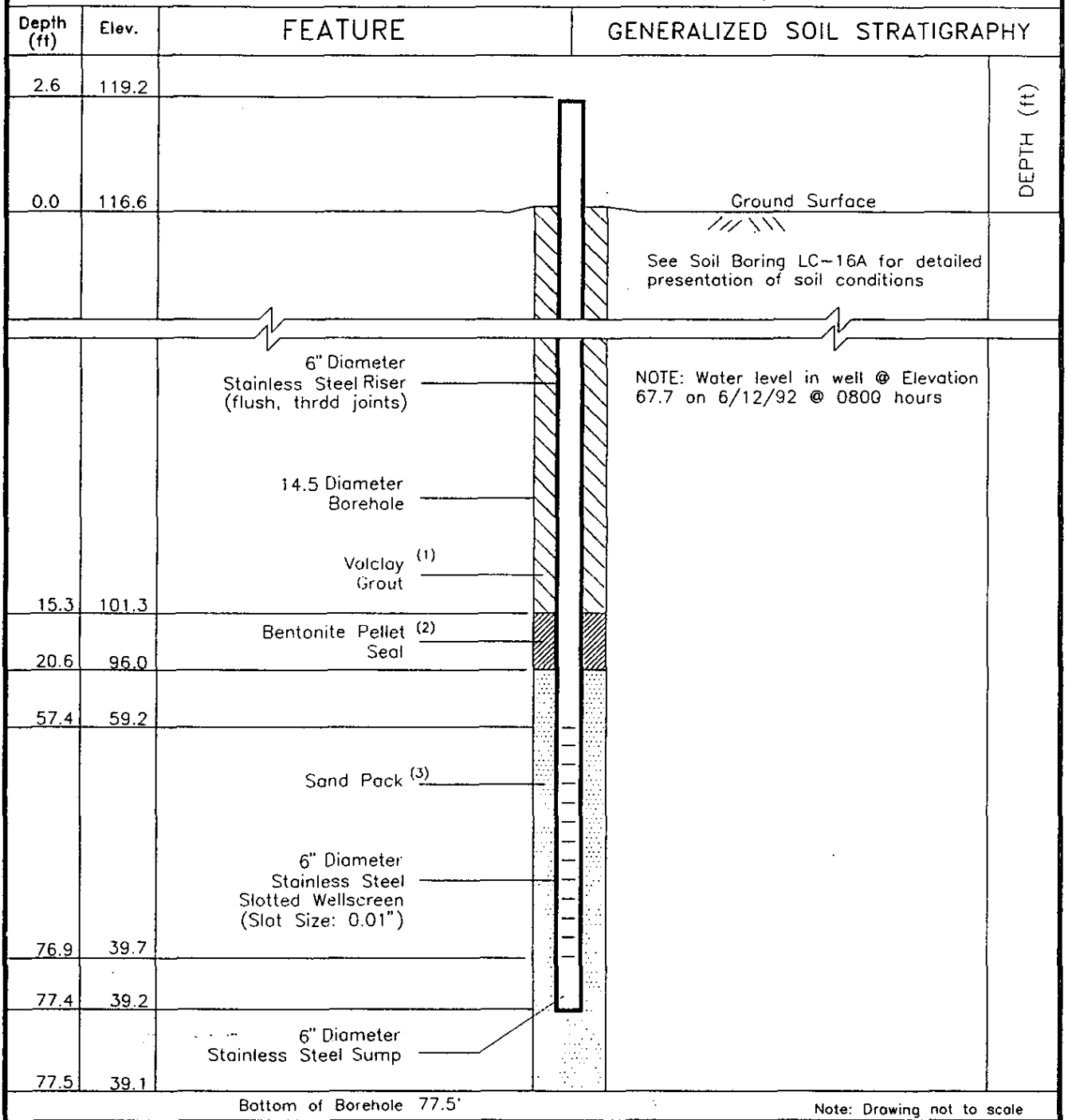
(3) Sand Placement: Surface Introduction
Filter Pack Type: #3 Blasting Sand
Volume: 60 bags x0.91= 54.6 ft.^{3}

Miscellaneous Information
Exterior Casing: N/A
Centralizer Data: N/A
Developed By: K. LOWERY Date: 7/7/88
Amount Drill Water Lost: N/A gallons
Method: Ejector Pump

LOG OF LEACHATE COLLECTION WELL NO. LC-16A

Project Number: 91C113
Project Name: LC-Wells Cell 717
Well Location: N: 1859.9 E: 302.8

Date Completed: 4/23/92
Drill Rig: Gus Pech
By: T. Vrenick



(1) **Grout Placement:** Pump down 1.25" PVC Tremie w/side discharge
Volclay Mixture: 1 bag Volclay, 10 gallons water
Grout Weight: **Input:** 9.8 lbs. **Output:** 9.7 lbs.

(2) **Bentonite Pellets:** **Size:** 1/2 inch **Volume:** 15 gallons **Hydration Time:** 27 hours

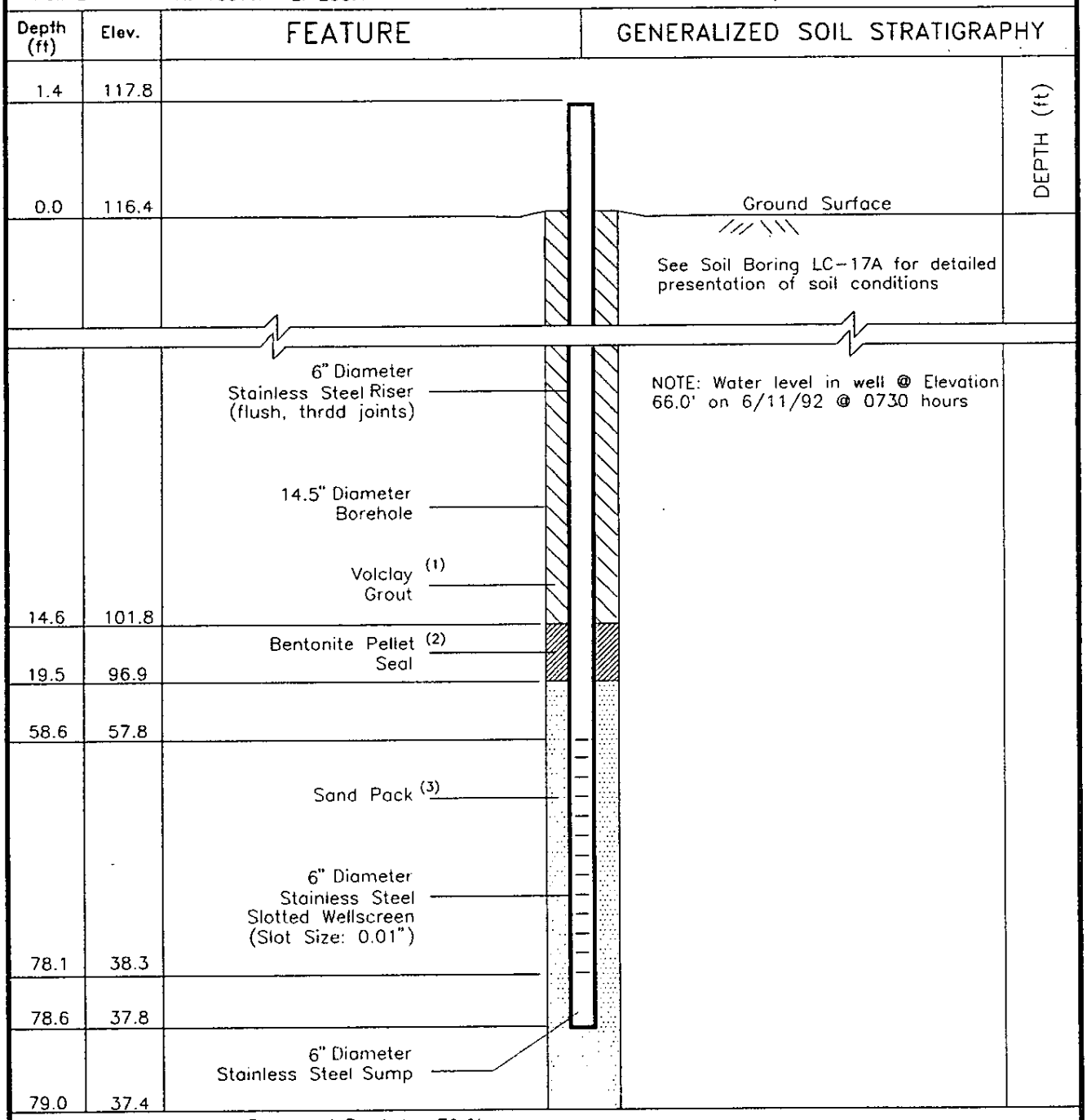
(3) **Sand Placement:** Surface Introduction
Type: #361 Blasting Sand
Volume: 47.3 ft^3

Miscellaneous Information
Exterior Casing: N/A
Centralizer Data: N/A
Developed By: R. Gann **Date:** 6/12/92
Amount Drill Water Lost: N/A
Method: Ejector Pump

LOG OF LEACHATE COLLECTION WELL NO. LC-17A

Project Number: 91C113
Project Name: LC-Wells Cell 717
Well Location: N: 1857.7 E: 258.1

Date Completed: 4/15/92
Drill Rig: Gus Pech
By: T. Vrenick



(1) **Grout Placement:** Pump down 1.25" PVC Tremie w/side discharge
Volclay Mixture: 1 bag Volclay, 10 gallons water
Grout Weight: **Input:** 9.7 lbs. **Output:** 9.6 lbs.

(2) **Bentonite Pellets:** **Size:** 1/2 inch **Volume:** 15 gallons **Hydration Time:** 4.0 hours

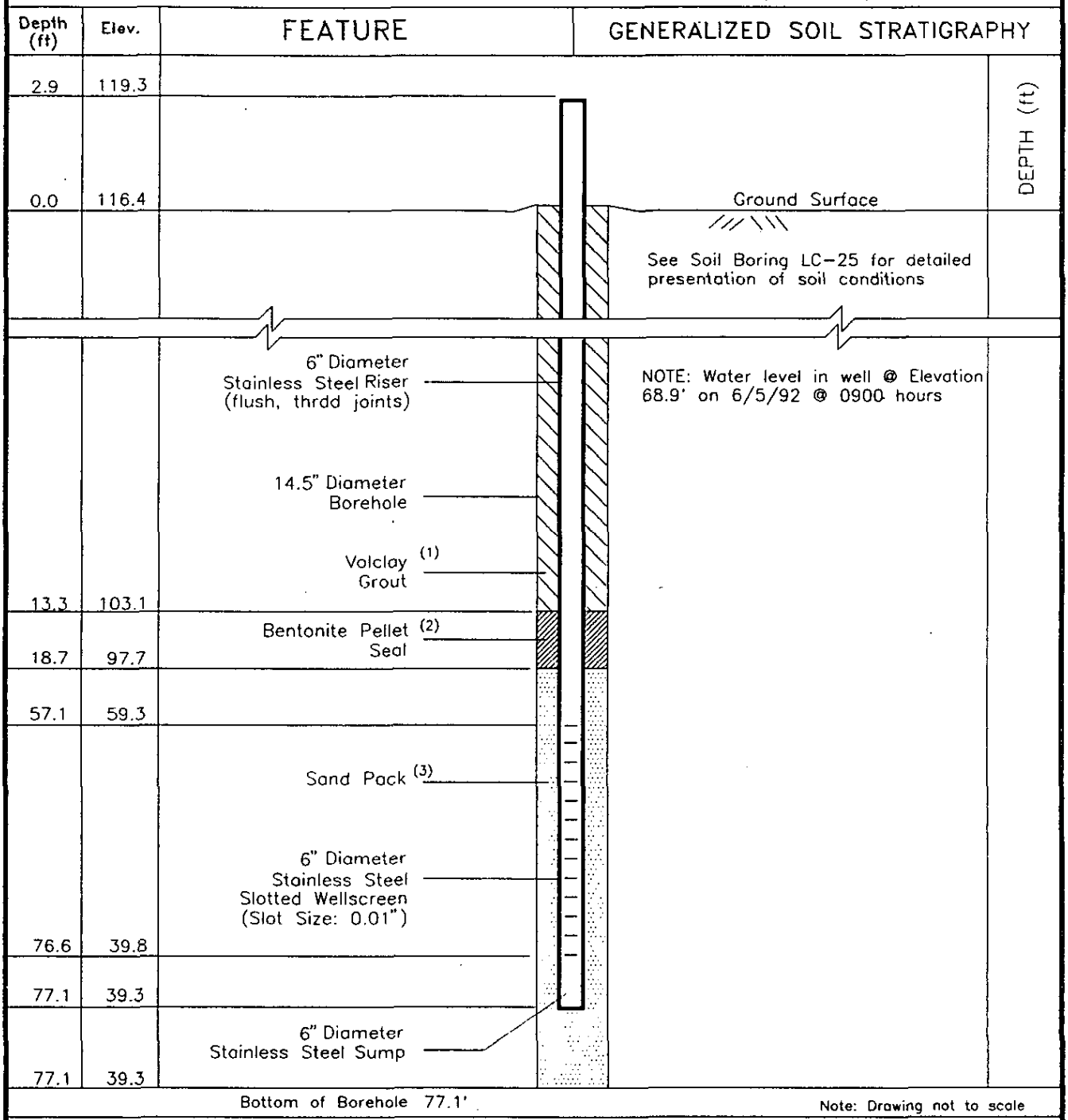
(3) **Sand Placement:** Surface Introduction
Type: #361 Blasting Sand
Volume: 51.0 ft^3

Miscellaneous Information
Exterior Casing: N/A
Centralizer Data: N/A
Developed By: R. Gann **Date:** 6/11/92
Amount Drill Water Lost: N/A
Method: Ejector Pump

LOG OF LEACHATE COLLECTION WELL NO. LC-25

Project Number: 91C113
Project Name: LC-Wells Cell 717
Well Location: N: 1860.7 E: 229.2

Date Completed: 4/25/92
Drill Rig: Gus Pech
By: T. Vrenick



(1) **Grout Placement:** Pump down 1.25" PVC Tremie w/side discharge
Volclay Mixture: 1 bag Volclay, 10 gallons water
Grout Weight: Input: 9.7 lbs.
Output: 9.5 lbs.

(2) **Bentonite Pellets:** **Size:** 1/2 inch **Volume:** 15 gallons **Hydration Time:** 30.0 hours

(3) **Sand Placement:** Surface Introduction
Type: #361 Blasting Sand **Volume:** 52.8 ft^3

Miscellaneous Information
Exterior Casing: N/A
Centralizer Data: N/A
Developed By: R. Gann **Date:** 6/5/92
Amount Drill Water Lost: N/A
Method: Ejector Pump

LOG OF LEACHATE COLLECTION WELL NO. LC-26

Project Number: 91C113
Project Name: LC-Wells Cell 717
Well Location: N: 1903.8 E: 227.2

Date Completed: 4/6/92
Drill Rig: Gus Pech
By: T. Vrenick

Depth (ft)	Elev.	FEATURE	GENERALIZED SOIL STRATIGRAPHY
1.2	117.5		
0.0	116.3	Ground Surface	See Soil Boring LC-26 for detailed presentation of soil conditions
		6" Diameter Stainless Steel Riser (flush, thrdd joints)	NOTE: Water level in well @ Elevation 67.1' on 6/3/92 @ 0900- hours
		14.5" Diameter Borehole	
14.5	101.8	Volclay Grout (1)	
20.5	95.8	Bentonite Pellet Seal (2)	
58.8	57.5		
		Sand Pack (3)	
		6" Diameter Stainless Steel Slotted Wellscreen (Slot Size: 0.01")	
78.3	38.0		
78.8	37.5		
		6" Diameter Stainless Steel Sump	
79.0	37.3		

DEPTH (ft)

Bottom of Borehole 79.0'

Note: Drawing not to scale

(1) **Grout Placement:** Pump down 1.25" PVC Tremie w/side discharge
Volclay Mixture: 1 bag Volclay, 10 gallons water
Grout Weight: **Input:** 9.8 lbs. **Output:** 9.7 lbs.

(2) **Bentonite Pellets:** **Size:** 1/2 inch **Volume:** 15 gallons **Hydration Time:** 24.0 hours

(3) **Sand Placement:** Surface Introduction
Type: #361 Blasting Sand
Volume: 48.2 ft^3

Miscellaneous Information
Exterior Casing: N/A
Centralizer Data: N/A
Developed By: R. Gann **Date:** 6/3/92 **Method:** Ejector Pump
Amount Drill Water Lost: N/A

LOG OF BORING NO. LC-16A

PAGE 1 of 2

Project Number : 91C113
Boring Location : N 1859.9 E 302.8
Surface Elevation : 116.6

Date Started : 4/16/92
Drill Rig : Gus Pech
By : T. Vrenick

GROUND WATER OBSERVATIONS

Free Water Encountered @ 63-65'

DEPTH(ft)	SYMBOL	SAMPLES	SPT (b/ft) & PENETROMETER(P)	OVA READING (ppm)	MATERIAL DESCRIPTION	COHESION (ksf)	DRY DENSITY(pcf)	WATER CONTENT(%)	Atterberg LIQUID LIMIT	Atterberg PLASTICITY INDEX	Grain Size % SAND	Grain Size % SILT	Grain Size % CLAY	FOOTNOTES
0					Intermixed Black & Brown Waste & Tan & Light Gray SILTY CLAY (CL)									
5														
10			-	-										
15														
20			-	-										
25														
30			-	-	Black Waste									
35														
40			-	-										
45														
50			-	-	- black & gray W/metal									

continued

BORING ADVANCEMENT METHOD

Hollow Stem Auger 0-77'

BORING ABANDONMENT METHOD

See Page 2

FOOTNOTES

LOG OF BORING NO. LC-16A

DEPTH(ft)	SYMBOL	SAMPLES	SPT (b/ft) & PENETROMETER(P)	OVA READING (ppm)	GROUND WATER OBSERVATIONS / MATERIAL DESCRIPTION	COHESION (ksf)	DRY DENSITY(pcf)	WATER CONTENT(%)	Atterberg: LIQUID LIMIT	Atterberg: PLASTICITY INDEX	Grain Size: % SAND	Grain Size: % SILT	Grain Size: % CLAY	FOOTNOTES
55					Black Waste w/Tan & Light Gray SILTY CLAY pockets									
60			–	–										
			–	–	Black Waste									
65			–	–										
			–	–										
70			–	–										
			–	–	Intermixed Black Waste & Tan & Light Gray CLAY (CH)									
75			–	–										
			–	–	Tan & Light Gray CLAY (CH) (Liner)									
80														
85														
90														
95														
100														

Boring Terminated @ 77' on 4/16/92

BORING ADVANCEMENT METHOD

Hollow Stem Auger 0-77'

BORING ABANDONMENT METHOD

Set LC-16A in borehole

FOOTNOTES

LOG OF BORING NO. LC-17A

PAGE 1 of 2

Project Number : 91C113
Boring Location : N 1857.7 E 258.1
Surface Elevation : 116.4

Date Started : 4/13/92
Drill Rig : Gus Pech
By : T. Vrenick

GROUND WATER OBSERVATIONS
Free Water Encountered @ 58-60'

DEPTH(ft)	SYMBOL	SAMPLES	SPT (b/ft) or PENETROMETER(P)	OVA READING (ppm)	MATERIAL DESCRIPTION	COHESION (ksf)	DRY DENSITY(pcf)	WATER CONTENT(%)	Atterberg LIQUID LIMIT	Atterberg PLASTICITY INDEX	Grain Size % SAND	Grain Size % SILT	Grain Size % CLAY	FOOTNOTES
5					Intermixed Black Waste & Tan & Light Gray SILTY CLAY (CL)									
10			-	-										
15														
20			-	-										
25														
30			-	-										
35														
40			-	-	Black Waste									
45														
50			-	-	Intermixed Black Waste & Tan & Light Gray SILTY CLAY (CL)									

continued

BORING ADVANCEMENT METHOD

Hollow Stem Auger 0-78'

BORING ABANDONMENT METHOD

See Page 2

FOOTNOTES

LOG OF BORING NO. LC-17A

DEPTH(ft)	SYMBOL	SAMPLES	SPT (b/ft) or PENETROMETER(P)	OVA READING (ppm)	GROUND WATER OBSERVATIONS / MATERIAL DESCRIPTION	COHESION (ksf)	DRY DENSITY(pcf)	WATER CONTENT(%)	Atterberg: LIQUID LIMIT	Atterberg: PLASTICITY INDEX	Grain Size: % SAND	Grain Size: % SILT	Grain Size: % CLAY	FOOTNOTES
55					Intermixed Black Waste & Tan & Light Gray SILTY CLAY (CL)									
60			–	–										
65			–	–	Black Waste									
			–	–	– w/wood @ 66–68'									
70			–	–	– w/pockets of tan & light gray clay @ 68–70'									
			–	–										
			–	–										
75			–	–	Intermixed Black Waste & Tan & Light Gray CLAY (CH)									
			–	–	– becoming Very Stiff Gray CLAY (CH) (Liner) @ 76–78'									
80														
85														
90														
95														
100														

Boring Terminated @ 78' on 4/14/92

BORING ADVANCEMENT METHOD

Hollow Stem Auger 0–78'

BORING ABANDONMENT METHOD

Set LC-17A in borehole

FOOTNOTES

LOG OF BORING NO. LC-25

PAGE 1 of 2

Project Number : 91C113
Boring Location : N 1860.7 E 229.2
Surface Elevation : 116.4

Date Started : 4/7/92
Drill Rig : Gus Pech
By : T. Vrenick

GROUND WATER OBSERVATIONS
Free Water Encountered @ 58-60'

DEPTH(ft)	SYMBOL	SAMPLES	SPT (b/ft) or PENETROMETER(P)	OVA READING (ppm)	MATERIAL DESCRIPTION	COHESION (ksf)	DRY DENSITY(pcf)	WATER CONTENT(%)	Atterberg LIQUID LIMIT	Atterberg PLASTICITY INDEX	Grain Size % SAND	Grain Size % SILT	Grain Size % CLAY	FOOTNOTES
0					Intermixed Gray & Brown Waste & Tan & Gray SILTY CLAY (CL)									
5														
10			-	-										
15														
20			-	-										
25														
30			-	-	- waste becoming black & silty clay becoming tan & light gray @ 28'									
35														
40			-	-										
45														
50			-	-										

continued

BORING ADVANCEMENT METHOD
Hollow Stem Auger 0-76'

BORING ABANDONMENT METHOD
See Page 2

FOOTNOTES

LOG OF BORING NO. LC-25

DEPTH(ft)	SYMBOL	SAMPLES	SPT (b/ft) or PENETROMETER(P)	OVA READING (ppm)	GROUND WATER OBSERVATIONS / MATERIAL DESCRIPTION	COHESION (ksf)	DRY DENSITY(pcf)	WATER CONTENT(%)	Atterberg: LIQUID LIMIT	Atterberg: PLASTICITY INDEX	Grain Size: % SAND	Grain Size: % SILT	Grain Size: % CLAY	FOOTNOTES
55					Black Waste									
60			–	–	– w/wood @ 63-68'									
65			–	–										
			–	–										
70			–	–										
			–	–										
75			–	–	Black Waste to 75.7' becoming Tan & Light Gray CLAY (CH)									
80														
85														
90														
95														
100														

Borehole Terminated @ 76' on 4/8/92

BORING ADVANCEMENT METHOD

Hollow Stem Auger 0-76'

FOOTNOTES

BORING ABANDONMENT METHOD

Set LC-25 in borehole

LOG OF BORING NO. LC-26

PAGE 1 of 2

Project Number : 91C113
Boring Location : N 1903.8 E 227.2
Surface Elevation : 116.3

Date Started : 3/31/92
Drill Rig : Gus Pech
By : T. Vrenick

GROUND WATER OBSERVATIONS
Free Water Encountered @ 60-62'

DEPTH(ft)	SYMBOL	SAMPLES	SPT (b/ft) or PENETROMETER(P)	OVA READING (ppm)	MATERIAL DESCRIPTION	COHESION (ksf)	DRY DENSITY(pcf)	WATER CONTENT(%)	Atterberg LIQUID LIMIT	Atterberg PLASTICITY INDEX	Grain Size % SAND	Grain Size % SILT	Grain Size % CLAY	FOOTNOTES
0					Intermixed Gray Waste & Tan SILTY CLAY (CL)									
5														
10		–		–										
15														
20		–		–										
25					– waste becoming black @ 28'									
30		–		–										
35														
40		–		–										
45														
50		–		–	Black & Dark Gray Waste w/tan silty clay pockets									

continued

BORING ADVANCEMENT METHOD

Hollow Stem Auger 0-78'

BORING ABANDONMENT METHOD

See Page 2

FOOTNOTES